TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 13-OCT-2010 20:20
End Cal Date : 04-NOV-2010 14:39
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\terastation\share\VOAdata\HP10.I\SrcMeths\8260ALOW.M
Last Edit : 05-Nov-2010 11:07 dibbsp

Compound	0.2500000 Level 1 / 60.0000 Level 7	0.5000000 Level 2 / 80.0000 Level 8	1.0000 Level 3	4.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 Isopropylbenzene	0.83620	1.21868	1.29793	1.40004	1.35072	1.36641					
	1.31506	1.39428					AVRG		1.27241		14.60501
76 T-1,4-Dichloro-2-Butene	3221	5868	25084	55712	118457	238055					
	+++++	499603					QUAD	0.000e+000	6.09798	-0.26432	0.99818
77 Bromobenzene	0.65580	0.69227	0.80668	0.78425	0.74838	0.73083					
	0.70996	0.73305					AVRG		0.73265		6.61558
78 1,1,2,2-Tetrachloroethane(**)	+++++	0.67652	0.73621	0.75126	0.73578	0.73494					
	0.69789	0.71388					AVRG		0.72093		3.63624
79 N-Propylbenzene	1.99079	2.51962	2.75733	2.86632	2.82154	2.79934					
	2.73738	2.83058					AVRG		2.66536		10.98380
80 1,2,3-Trichloropropane	0.22419	0.32608	0.30757	0.30362	0.29524	0.29146					
	0.27635	0.28466					AVRG		0.28865		10.43990
81 2-Chlorotoluene	1.36146	1.67224	1.75407	1.72647	1.65297	1.62070					
	1.57516	1.61371					AVRG		1.62210		7.44128

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Last Edit : 05-Nov-2010 11:07 dibbsp

	Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	4.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
		60.0000 Level 7	80.0000 Level 8									
82	1,3,5-Trimethylbenzene	1.44811	1.76672	1.84480	2.05441	2.01885	2.00773					
		1.94044	2.02954					AVRG		1.88883		10.81313
83	4-Chlorotoluene	1.40534	1.80878	1.89198	1.99944	1.95689	1.92568					
		1.87372	1.94716					AVRG		1.85113		10.22254
84	T-Butylbenzene	1.39276	1.81250	1.89672	1.93004	1.87694	1.82347					
		1.74301	1.81369					AVRG		1.78614		9.47842
85	1,2,4-Trimethylbenzene	1.33285	1.81273	1.92011	2.05394	2.06282	2.05660					
		1.99824	2.08572					AVRG		1.91538		13.18824
86	Sec-Butylbenzene	1.88056	2.42697	2.52315	2.66734	2.60476	2.63210					
		2.49562	2.61159					AVRG		2.48026		10.28323
87	1,3-Dichlorobenzene	1.02405	1.21374	1.29645	1.37560	1.30732	1.27970					
		1.24434	1.29893					AVRG		1.25502		8.34026
88	P-Isopropyltoluene	1.52443	1.92401	2.15703	2.26863	2.29758	2.30347					
		2.23604	2.33329					AVRG		2.13056		13.03438

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Method file : \\terastation\share\VOAdata\HP10.I\SrcMeths\8260ALOW.M
Last Edit : 05-Nov-2010 11:07 dibbsp

	Compound	0.2500000 Level 1 / 60.0000 Level 7	0.5000000 Level 2 / 80.0000 Level 8	1.0000 Level 3	4.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89	1,4-Dichlorobenzene	1.13764	1.38563	1.44783	1.37202	1.31838	1.31582					
		1.27071	1.32491					AVRG		1.32162		6.95039
90	N-Butylbenzene	+++++	1.35624	1.55785	1.75984	1.83082	1.86470					
		1.81852	1.90160					AVRG		1.72708		11.47729
91	1,2-Dichlorobenzene	0.99218	1.19523	1.29015	1.31759	1.25790	1.23317					
		1.18059	1.24017					AVRG		1.21337		8.25195
92	1,2-Dibromo-3-chloropropane	835	1643	3864	17790	111350	256858					
		380653	548595					QUAD	0.000e+000	7.41561	-0.85756	0.99981
93	1,2,4-Trichlorobenzene	5337	10613	21000	120282	711225	1540047					
		2207942	3214999					QUAD	0.00340	1.21609	-0.01759	0.99941
94	Hexachlorobutadiene	0.38129	0.48084	0.45947	0.49739	0.47867	0.49323					
		0.46878	0.48341					AVRG		0.46789		7.91822
95	Naphthalene	13452	22628	44032	264754	1761506	4011140					
		5891723	8570992					QUAD	0.000e+000	0.47665	-0.00358	0.99971

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Method file : \\terastation\share\VOAdata\HP10.I\SrcMeths\8260ALOW.M
Last Edit : 05-Nov-2010 11:07 dibbsp

	Compound	0.2500000 Level 1 / 60.0000 Level 7	0.5000000 Level 2 / 80.0000 Level 8	1.0000 Level 3	4.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
96	1,2,3-Trichlorobenzene	4227	7602	16932	101443	599803	1330000						
		1905963	2754438					QUAD	0.000e+000	1.41163	-0.02293	0.99953	
M 97	1,2-Dichloroethene (Total)	+++++	0.27144	0.27115	0.28368	0.27306	0.27020						
		0.26251	0.27546					AVRG		0.27250		2.33118	
M 98	Xylenes (Total)	0.35333	0.53740	0.57988	0.60934	0.58769	0.58904						
		0.56795	0.60152					AVRG		0.55327		15.13579	<- OK
137	2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
		+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
138	Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
		+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
139	Decane	+++++	+++++	+++++	+++++	+++++	+++++						
		+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
140	Dodecane	+++++	+++++	+++++	+++++	+++++	+++++						
		+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica

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Quant Method : ISTD
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Integrator : HP RTE
Method file : \\terastation\share\VOAdata\HP10.I\SrcMeths\8260ALOW.M
Last Edit : 05-Nov-2010 11:07 dibbsp

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	4.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	60.0000 Level 7	80.0000 Level 8									
$ 4 Dibromofluoromethane	+++++	0.26736	0.27563	0.26595	0.26086	0.25198					
	0.25886	0.25659					AVRG		0.26246		2.98975
$ 5 1,2-Dichloroethane-d4	+++++	0.31624	0.31670	0.28209	0.27937	0.27299					
	0.28107	0.28458					AVRG		0.29043		6.24467
$ 6 Toluene-d8	+++++	0.94497	0.99025	0.91363	0.90540	0.89366					
	0.92088	0.92262					AVRG		0.92734		3.44881
$ 7 4-Bromofluorobenzene	+++++	0.48579	0.45562	0.43047	0.40901	0.40538					
	0.41344	0.41377					AVRG		0.43050		6.93762
$ 136 Trifluorotoluene	+++++	0.43769	0.54824	0.50679	0.51671	0.48407					
	0.51606	0.51662					AVRG		0.50374		6.88877

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 13-OCT-2010 20:20
End Cal Date : 04-NOV-2010 14:39
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\terastation\share\VOAdata\HP10.I\SrcMeths\8260ALOW.M
Last Edit : 05-Nov-2010 11:07 dibbsp

Average %RSD Results.

Calculated Average %RSD = 8.00134
Maximun Average %RSD = 15.00000
* Passed Average %RSD Test.

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

Data File: \\Terastation\share\VOAData\HP10.I\110410.B\8260ALOW.M Page 1
Report Date: 08-Nov-2010 11:57

Signal Calibration Report

Method : \\Terastation\share\VOAData\HP10.I\110410.B\8260ALOW.M
Last Edit: 08-Nov-2010 08:18 dibbsp
Compound : 74 Bromoform (**)
Mass: 173.00
Istd Compound: * 2 Chlorobenzene-d5

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
Origin: None
Amt = Rsp/ml
ml = 0.23829472400000
RSD: 25.107

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	8.821	0.25000	3129	8.030	10.00000000	916575	0.13655183700188
2	8.827	0.50000	6076	8.030	10.00000000	644206	0.18863531230693
3	8.834	1.00000	12445	8.030	10.00000000	605242	0.20562023124634
4	8.827	4.00000	58361	8.030	10.00000000	660413	0.22092614772877
5	8.827	20.00000	381737	8.030	10.00000000	706704	0.27008266544409
6	8.827	40.00000	850765	8.031	10.00000000	723779	0.29386214576549
7	8.827	60.00000	1221945	8.030	10.00000000	717384	0.28388910262844
8	8.827	80.00000	1763561	8.030	10.00000000	718553	0.30679034810237

Lvl	Sublist	Calibration File
1	1_8260	HSL110401
2	1_8260	HSL110402
3	1_8260	HSL110403
4	1_8260	HSL110404
5	1_8260	HSL110405
6	1_8260	HSL110406
7	1_8260	HSL110407
8	1_8260	HSL110408

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	8.827	20.000	381737	8.030	10.00000000	706704	0.27008266544409
2	8.827	20.000	370379	8.030	10.00000000	695127	0.26641102992691
3	8.827	20.000	381737	8.030	10.00000000	706704	0.27008266544409
Avg	8.827	20.000	377951	8.030	10.00000000	235568	0.26885878693836

Ind	Sublist	Calibration File
1	1_8260	HSL110405
2	1_8260	ICVHSL1104
3	1_8260	HSL110405

Report Date: 04-Nov-2010 15:42

Calibration History

Method : \\terastation\share\VOAdata\HP10.I\110410.B\8260ALOW.M
Start Cal Date: 04-NOV-2010 12:03
End Cal Date : 04-NOV-2010 14:39
Last Cal Level: 8
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.25000		
04-NOV-2010 12:03	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110401.D
Cal Level: 2 , Cal Amount: 0.50000		
04-NOV-2010 12:25	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110402.D
Cal Level: 3 , Cal Amount: 1.00000		
04-NOV-2010 12:47	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110403.D
Cal Level: 4 , Cal Amount: 4.00000		
04-NOV-2010 13:10	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110404.D
Cal Level: 5 , Cal Amount: 20.00000		
04-NOV-2010 13:32	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110405.D
Cal Level: 6 , Cal Amount: 40.00000		
04-NOV-2010 13:54	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110406.D
Cal Level: 7 , Cal Amount: 60.00000		
04-NOV-2010 14:16	1_8260	\\terastation\share\VOAdata\HP10.I\110410.B\HSL110407.D
Cal Level: 8 , Cal Amount: 80.00000		

```
+=================================================================================+
|04-NOV-2010 14:39 |1_8260                |                                        |
|\\terastation\share\VOAdata\HP10.I\110410.B\HSL110408.D                          |
+------------------+----------------+-----------------------------------------+
```

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

```
+------------------+----------------+-----------------------------------------+
|04-NOV-2010 13:32 |1_8260                |                                        |
|\\terastation\share\VOAdata\HP10.I\110410.B\HSL110405.D                          |
|04-NOV-2010 13:32 |1_8260                |                                        |
|\\terastation\share\VOAdata\HP10.I\110410.B\HSL110405.D                          |
+------------------+----------------+-----------------------------------------+
```

8260 Liquid Curve

50 mL

Calibration Point	Final Volume	Concentration (ug/L)	Auto Internal Standard (50ug/mL)	Surrogate (100ug/mL)	*ICAL Mix (5-10ug/mL)	TCLA and TCLB (200ug/mL)	ODD #1 and #2 (200-5000ug/mL)	Vinyl Acetate (200ug/mL)
1	50 mL	0.25 / 0.50	1.0uL	-----	2.5uL	-----	-----	-----
2	50 mL	0.5 / 1.0	1.0uL	0.5uL	5uL	-----	-----	-----
3	50 mL	1.0 / 2.0	1.0uL	1uL	10uL	-----	-----	-----
4	50 mL	4	1.0uL	2uL	-----	1uL	1uL	1uL
5 (CCV)	50 mL	20	1.0uL	10uL	-----	5uL	5uL	5uL
6	50 mL	40	1.0uL	20uL	-----	10uL	10uL	10uL
7	50 mL	60	1.0uL	30uL	-----	15uL	15uL	15uL
8	50 mL	80	1.0uL	40uL	-----	20uL	20uL	20uL

BFB	1uL	50ug/mL	Direct Inject

ANALYST: Raleema Dibbs DATE: 110410

*ICAL Mix (5-10ug/ml) = 400ul F.V. (350ul MeOH + 10ul TCLA + 10ul TCLB + 10ul Odd #1 + 10ul Odd #2 + 10ul VA)

Daily QC

QC	Final Volume	Concentration (ug/L)	Auto Internal Standard (50ug/mL)	Auto Surrogate (100ug/mL)		SS TCLA and SS TCLB (200ug/mL)	SS ODD #1 and SS ODD #2 (200-5000ug/mL)	SS Vinyl Acetate (200ug/mL)
LCS/LCSD	100 mL	20	1.0uL	1.0uL		10uL	10uL	10uL

ANALYST: Raleema Dibbs DATE: 110410

COMMENTS:

TestAmerica

Data file : \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D
Lab Smp Id: bfb
Inj Date : 04-NOV-2010 11:04
Operator : PD Inst ID: HP10.i
Smp Info : 50ng BFB 1ul di;PD
Misc Info : 1;WATER;0;all.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\110410.B\390BFB10.m
Meth Date : 13-Oct-2010 14:52 dibbsp Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 51 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3_BFB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SACPC

PD
PD 11/4
110410

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb10						CAS #: 460-00-4		
3.338	3.338	(0.000)	95	1090048			0.00- 100.00	91.22
3.338	3.338	(0.000)	50	178688			15.00- 40.00	16.39
3.338	3.338	(0.000)	75	488960			30.00- 60.00	44.86
3.338	3.338	(0.000)	96	73520			5.00- 9.00	6.74
3.338	3.338	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
3.338	3.338	(0.000)	174	1195008			50.00- 0.00	109.63
3.338	3.338	(0.000)	175	84176			5.00- 9.00	7.04
3.338	3.338	(0.000)	176	1162752			95.00- 101.00	97.30
3.338	3.338	(0.000)	177	77944			5.00- 9.00	6.70

Data File: \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D

Date : 04-NOV-2010 11:04

Client ID:

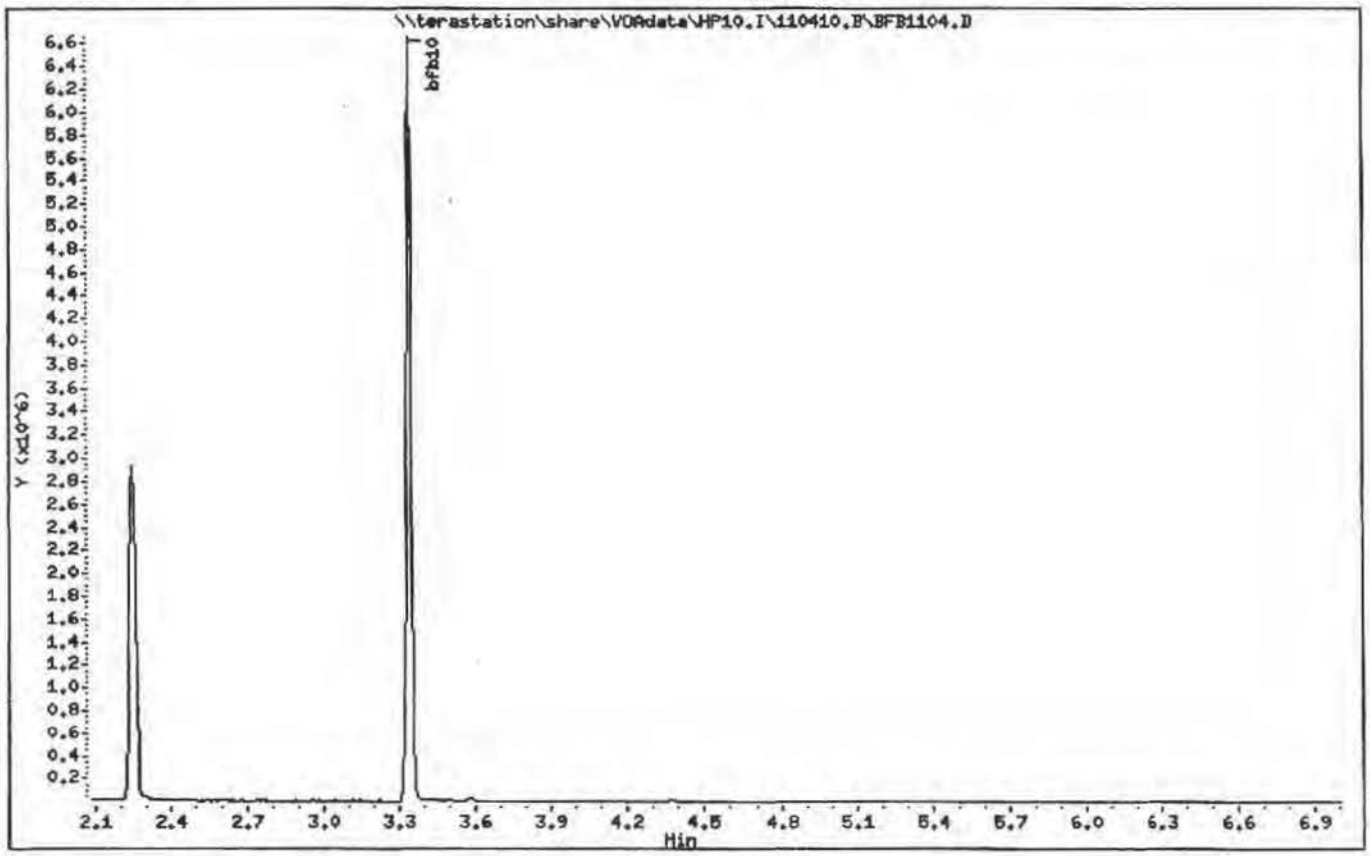
Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00



Data File: \\terastation\share\WOAdata\HP10.I\110410.B\BFB1104.D

Date : 04-NOV-2010 11:04

Client ID:

Instrument: HP10.i

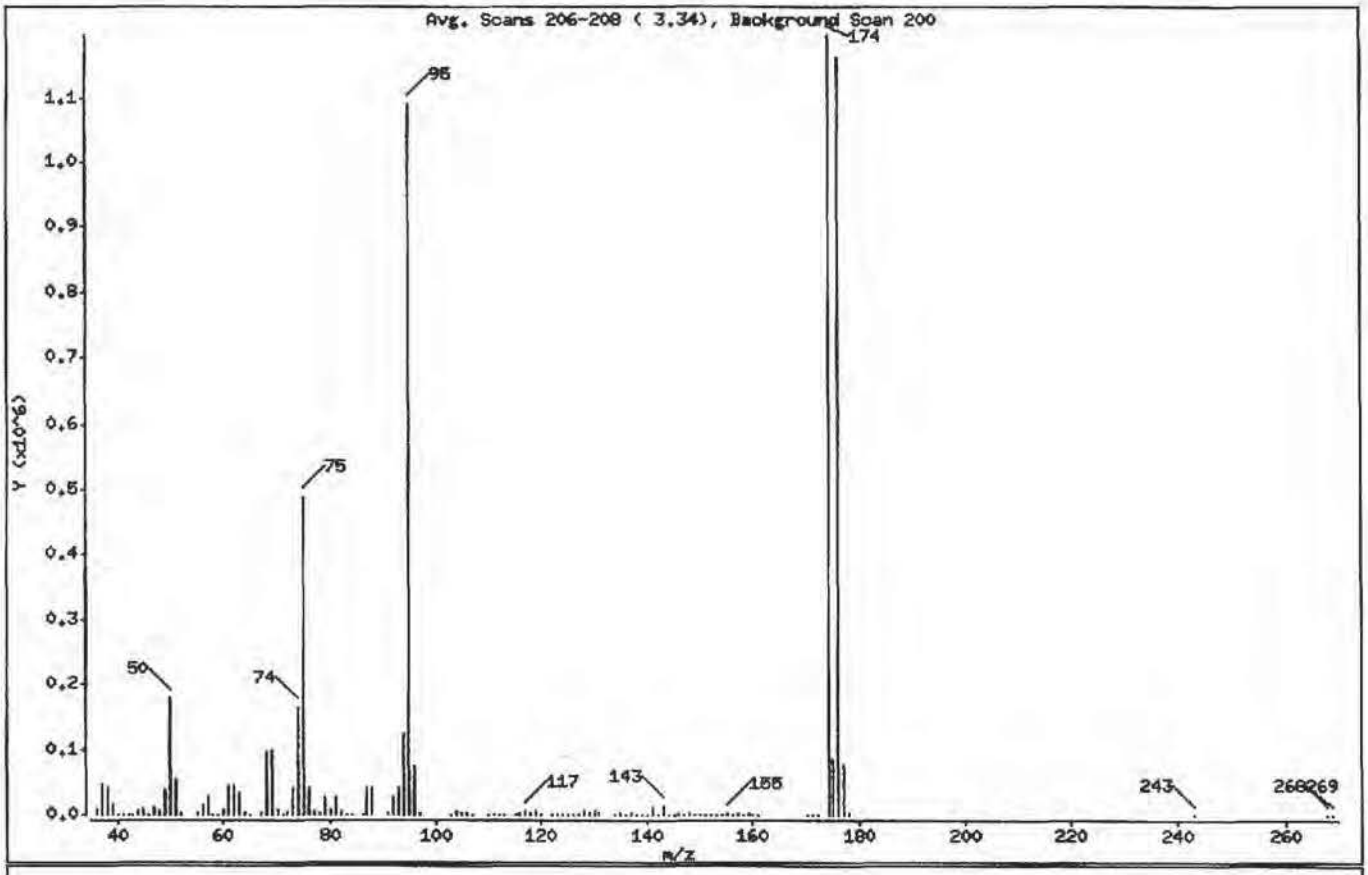
Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

1 bfb10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.39
75	30.00 - 60.00% of mass 95	44.86
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	109.63
175	5.00 - 9.00% of mass 174	7.72 (7.04)
176	95.00 - 101.00% of mass 174	106.67 (97.30)
177	5.00 - 9.00% of mass 176	7.15 (6.70)

Data File: \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D

Date : 04-NOV-2010 11:04

Client ID:

Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

Data File: BFB1104.D

Spectrum: Avg. Scans 206-208 (3.34), Background Scan 200

Location of Maximum: 174.00

Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8225	70.00	7840	111.00	895	146.00	1705
37.00	46728	71.00	287	112.00	595	147.00	775
38.00	41560	72.00	4600	113.00	959	148.00	2566
39.00	16936	73.00	42200	115.00	1210	149.00	755
40.00	640	74.00	164544	116.00	3607	150.00	1364
41.00	51	75.00	488960	117.00	6180	151.00	80
42.00	155	76.00	41688	118.00	3969	152.00	876
43.00	411	77.00	5793	119.00	5576	153.00	1058
44.00	5439	78.00	3514	120.00	297	154.00	652
45.00	8307	79.00	26712	122.00	319	155.00	3123
46.00	748	80.00	7228	123.00	482	156.00	259
47.00	11610	81.00	28160	124.00	920	157.00	1740
48.00	5383	82.00	5888	125.00	371	158.00	182
49.00	37192	83.00	797	126.00	459	159.00	1588
50.00	178688	84.00	149	127.00	381	160.00	118
51.00	54000	86.00	983	128.00	4460	161.00	1142
52.00	2690	87.00	41416	129.00	1829	170.00	109
55.00	2037	88.00	40600	130.00	4134	171.00	144
56.00	14376	91.00	3623	131.00	1687	172.00	103
57.00	26144	92.00	28144	134.00	406	174.00	1195008
58.00	1291	93.00	41736	135.00	2327	175.00	84176
59.00	81	94.00	122680	136.00	406	176.00	1162752
60.00	7413	95.00	1090048	137.00	2076	177.00	77944
61.00	43752	96.00	73520	138.00	68	178.00	2130
62.00	43248	97.00	2213	139.00	440	243.00	68
63.00	33048	103.00	318	140.00	818	268.00	67
64.00	2887	104.00	4673	141.00	11345	269.00	91
65.00	299	105.00	1501	142.00	1030		
67.00	2720	106.00	4063	143.00	12410		
68.00	96472	107.00	1009	144.00	690		
69.00	98128	110.00	790	145.00	1014		

TestAmerica West Sacramento
GC/MS VOA INSTRUMENT LOG

Page# 2

8260B / Gas

SOP : WS-MS-0007 Rev# 4.2

Standard ID's

BFB-50	10MSV0086	8260-IS	10MSV0505	8260-SURR	10MSV0503
TCLA	10MSV0492	TCLA SS	10MSV0473	TFT-SURR	10MSV0502
TCLB	10MSV0497	TCLB SS	10MSV0444		
Odd #1	10MSV0493	Odd #1 ss	10MSV0467	WDM	10MSV0012
Odd #2	10MSV0494	Odd #2 SS	10MSV0468	Gasoline (ps)	10MSV0507
VA	10MSV0498	VA SS	10MSV0446	Gasoline (ss)	10MSV0482
AP9A	10MSV0416	AP9A SS	10MSV0409		
AP9B	10MSV0419	AP9B SS	10MSV0422	Gasoline Stock	10MSV0506
ACRLN	10MSV0412	ACRLN SS	10MSV0415	**Second Source used for ICV only**	

Inst ID : HP10.i
Batch ID : 110510.B
Matrix : WATER
Level : LOW
Name/date: PD/110510

Gas Key: 1=CA-LUFT 2=8015-Mod(C6-C12)
3=AK101 4=NW-TPH
5=Other (C___-C___)

HSL ICAL# 110410 GAS ICAL# 110410 AP9 ICAL# na

Batch#_____ 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ]

Lot(s)#_____

Lot(s)#_____

QC WO#_____/___

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
05-NOV-2010	07:47	PD	COB-Aq	COB01.D	5 mL	49			
05-NOV-2010	08:09	PD	COB-Aq	COB02.D	5 mL	50			
05-NOV-2010	08:38	PD	50ng BFB 1ul di	BFB1105.D	0 mL	51			
05-NOV-2010	08:52	PD	AP9 20 (PS)	AP91105.D	5 mL	1			
05-NOV-2010	09:14	PD	ICVHSL1104	ICVHSL110	5 mL	2			OK
05-NOV-2010	09:37	PD	TVPH WDM	WDM1105.D	5 mL	3			OK
05-NOV-2010	09:59	PD	GAS_500_ICV	ICVGAS110	5 mL	4			OK

TestAmerica

Data file : \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D
Lab Smp Id: bfb
Inj Date : 05-NOV-2010 08:38
Operator : PD Inst ID: HP10.i
Smp Info : 50ng BFB 1ul di;PD
Misc Info : 1;WATER;0;all.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\110510.B\390BFB10.m
Meth Date : 13-Oct-2010 14:52 dibbsp Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 51 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3_BFB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SACPC

PD
110510

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb10						CAS #: 460-00-4		
3.338	3.338	(0.000)	95	1279488			0.00- 100.00	91.07
3.338	3.338	(0.000)	50	211712			15.00- 40.00	16.55
3.338	3.338	(0.000)	75	586048			30.00- 60.00	45.80
3.338	3.338	(0.000)	96	85552			5.00- 9.00	6.69
3.338	3.338	(0.000)	173	1978			0.00- 2.00	0.14
3.338	3.338	(0.000)	174	1404928			50.00- 0.00	109.80
3.338	3.338	(0.000)	175	96504			5.00- 9.00	6.87
3.338	3.338	(0.000)	176	1377792			95.00- 101.00	98.07
3.338	3.338	(0.000)	177	87696			5.00- 9.00	6.36

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D

Page 2

Date : 05-NOV-2010 08:38

Client ID:

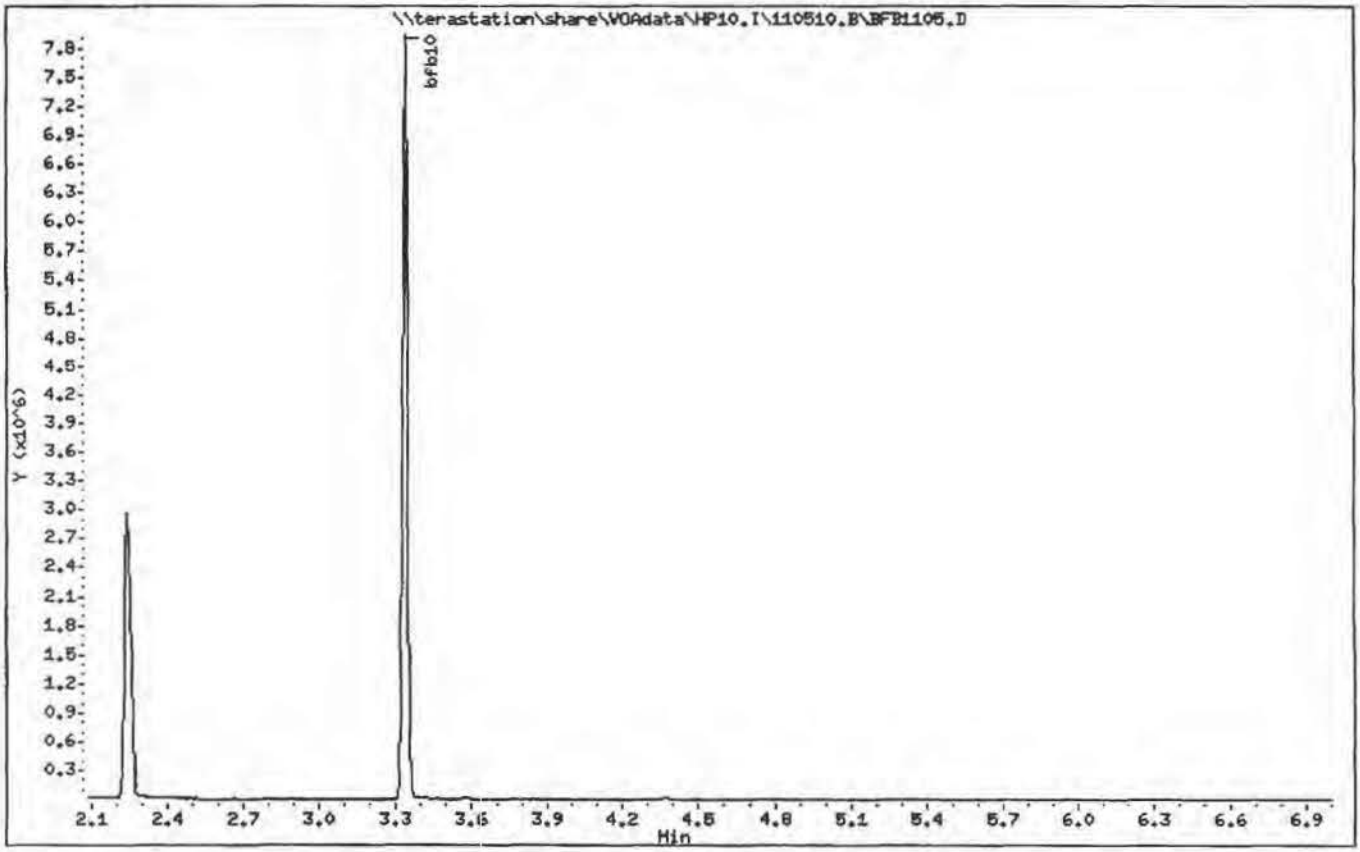
Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00



Data File: \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D

Date : 05-NOV-2010 08:38

Client ID:

Instrument: HP10.i

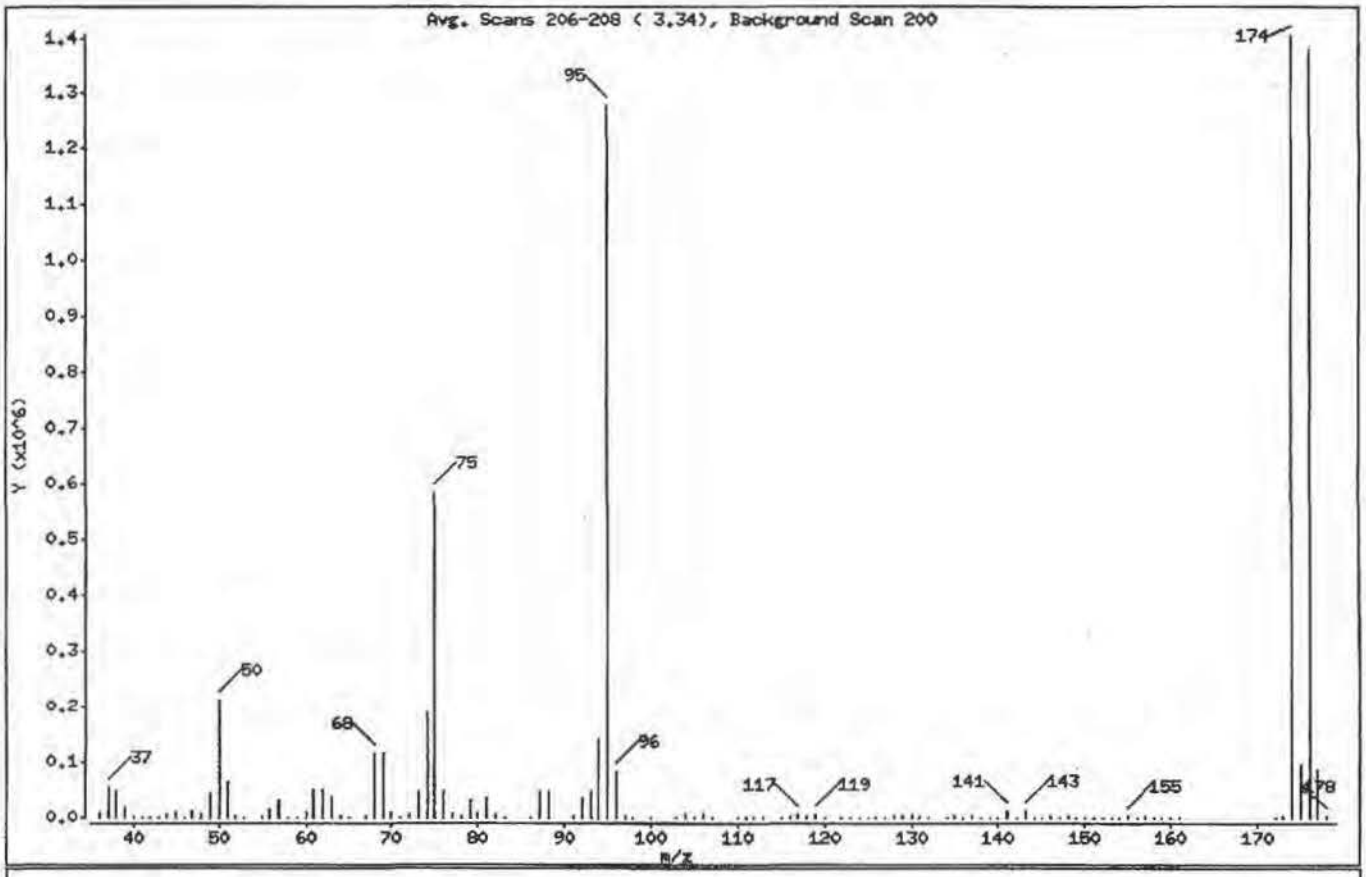
Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

1 bfb10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.55
75	30.00 - 60.00% of mass 95	45.80
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.15 (0.14)
174	Greater than 50.00% of mass 95	109.80
175	5.00 - 9.00% of mass 174	7.54 (6.87)
176	95.00 - 101.00% of mass 174	107.68 (98.07)
177	5.00 - 9.00% of mass 176	6.85 (6.36)

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D

Date : 05-NOV-2010 08:38

Client ID:

Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

Data File: BFB1105.D

Spectrum: Avg. Scans 206-208 (3.34), Background Scan 200

Location of Maximum: 174.00

Number of points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9285	68.00	117176	105.00	1246	140.00	857
37.00	54664	69.00	117168	106.00	5424	141.00	12619
38.00	49936	70.00	9675	107.00	975	142.00	1459
39.00	18424	71.00	432	110.00	828	143.00	14451
40.00	617	72.00	5414	111.00	1182	144.00	736
41.00	235	73.00	48680	112.00	822	145.00	1022
42.00	70	74.00	191424	113.00	1241	146.00	1846
43.00	694	75.00	586048	115.00	1365	147.00	1050
44.00	6914	76.00	48960	116.00	4557	148.00	2865
45.00	9868	77.00	5787	117.00	7698	149.00	1106
46.00	518	78.00	4340	118.00	4596	150.00	1397
47.00	13617	79.00	33136	119.00	5697	151.00	96
48.00	6720	80.00	9417	120.00	250	152.00	846
49.00	44064	81.00	35016	122.00	328	153.00	1277
50.00	211712	82.00	6778	123.00	445	154.00	666
51.00	65800	83.00	1103	124.00	919	155.00	3699
52.00	3242	86.00	1488	125.00	398	156.00	430
53.00	98	87.00	49696	126.00	415	157.00	2227
55.00	2995	88.00	47560	127.00	459	158.00	257
56.00	16384	91.00	3603	128.00	4246	159.00	1470
57.00	32016	92.00	34224	129.00	2611	160.00	211
58.00	1418	93.00	47664	130.00	4999	161.00	1501
59.00	105	94.00	141312	131.00	1908	172.00	154
60.00	9635	95.00	1279488	132.00	136	173.00	1978
61.00	51600	96.00	85552	134.00	281	174.00	1404928
62.00	50744	97.00	2514	135.00	1952	175.00	96504
63.00	37472	98.00	79	136.00	314	176.00	1377792
64.00	3507	100.00	82	137.00	2639	177.00	87696
65.00	215	103.00	154	138.00	77	178.00	2412
67.00	2518	104.00	5723	139.00	464		

Data File: ICVHSL1105.D
Report Date: 05-Nov-2010 09:36

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: ICVHSL1105.D
Analysis Type: water
Lab Sample ID: ICVHSL1104
Method: \\terastation\share\VOAdata\HP10.I\110510.B\8260ALOW.M

Injection Date: 05-NOV-2010 09:14
Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Init. Cal. Times: 12:03 14:39
Quant Type: ISTD

PD
110510

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.26246	0.27777	0.27777	0.010	5.83071	40.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.29043	0.28662	0.28662	0.010	-1.31212	40.00000	Averaged	
$ 6 Toluene-d8	0.92734	0.99068	0.99068	0.010	6.82921	40.00000	Averaged	
$ 7 4-Bromofluorobenzene	0.43050	0.44108	0.44108	0.010	2.45915	40.00000	Averaged	
$ 136 Trifluorotoluene	0.50374	++++	0.00000	0.010	++++	40.00000	Averaged	<-
8 Dichlorodifluoromethane	0.22376	0.23638	0.23638	0.010	5.64306	40.00000	Averaged	
9 Chloromethane (**)	0.26120	0.24289	0.24289	0.100	-7.01098	40.00000	Averaged	
10 Vinyl Chloride (*)	0.26870	0.25567	0.25567	0.010	-4.85003	20.00000	Averaged	
11 Bromomethane	0.19001	0.17460	0.17460	0.010	-8.11007	40.00000	Averaged	
12 Chloroethane	0.16585	0.16042	0.16042	0.010	-3.27391	40.00000	Averaged	
13 Trichlorofluoromethane	0.32885	0.33781	0.33781	0.010	2.72462	40.00000	Averaged	
15 Trichlorotrifluoroethane	0.19864	0.22497	0.22497	0.010	13.25396	40.00000	Averaged	
17 1,1-Dichloroethene(*)	0.20178	0.18351	0.18351	0.010	-9.05410	20.00000	Averaged	
18 Acetone	0.15241	0.12734	0.12734	0.010	-16.45367	40.00000	Averaged	
21 Carbon disulfide	0.68728	0.73186	0.73186	0.010	6.48546	40.00000	Averaged	
31 Vinyl acetate	0.59198	0.52948	0.52948	0.010	-10.55762	40.00000	Averaged	
22 Methylene Chloride	0.25236	0.23441	0.23441	0.010	-7.11516	40.00000	Averaged	
23 t-Butanol	0.06947	0.05628	0.05628	0.001	-18.98856	40.00000	Averaged	
25 Methyl-t-butyl-ether	0.65171	0.67134	0.67134	0.010	3.01232	40.00000	Averaged	
26 trans-1,2-Dichloroethene	0.26441	0.23838	0.23838	0.010	-9.84643	40.00000	Averaged	
27 Acrylonitrile	0.15870	0.16646	0.16646	0.010	4.88760	40.00000	Averaged	
30 1,1-Dichloroethane (**)	0.41892	0.40350	0.40350	0.100	-3.68119	40.00000	Averaged	
33 2,2-Dichloropropane	0.29055	0.28650	0.28650	0.010	-1.39406	40.00000	Averaged	
35 cis 1,2-Dichloroethene	0.28059	0.27957	0.27957	0.010	-0.36395	40.00000	Averaged	
38 2-Butanone	0.26996	0.24987	0.24987	0.010	-7.44091	40.00000	Averaged	
40 Bromochloromethane	0.15560	0.15374	0.15374	0.010	-1.19952	40.00000	Averaged	
41 Chloroform (*)	0.41467	0.41940	0.41940	0.010	1.14112	20.00000	Averaged	
42 1,1,1-Trichloroethane	0.35264	0.34793	0.34793	0.010	-1.33454	40.00000	Averaged	
43 Carbon Tetrachloride	0.31261	0.31015	0.31015	0.010	-0.78522	40.00000	Averaged	
44 1,1-Dichloropropene	0.33088	0.32402	0.32402	0.010	-2.07159	40.00000	Averaged	
47 Benzene	1.01763	0.99247	0.99247	0.010	-2.47208	40.00000	Averaged	
48 1,2-Dichloroethane	0.33760	0.33709	0.33709	0.010	-0.15215	40.00000	Averaged	
49 Trichloroethene	0.26267	0.25576	0.25576	0.010	-2.63189	40.00000	Averaged	
51 1,2-Dichloropropane(*)	0.22717	0.23114	0.23114	0.010	1.74392	20.00000	Averaged	
52 Dibromomethane	0.16684	0.16467	0.16467	0.010	-1.29966	40.00000	Averaged	
53 1,4-Dioxane	500	373	0.00342	0.000	-25.30780	40.00000	Quadratic	
54 Bromodichloromethane	0.29625	0.30883	0.30883	0.010	4.24499	40.00000	Averaged	
55 2-Chloroethyl vinyl ether	0.16305	0.18161	0.18161	0.010	11.38849	40.00000	Averaged	
56 cis-1,3-Dichloropropene (xt	0.37635	0.37587	0.37587	0.010	-0.12846	40.00000	Averaged	
57 4-Methyl-2-pentanone	0.41663	0.44402	0.44402	0.010	6.57297	40.00000	Averaged	
58 Toluene (*)	0.65380	0.64647	0.64647	0.010	-1.12157	20.00000	Averaged	
60 trans-1,3-Dichloropropene(x	0.33920	0.35871	0.35871	0.010	5.75310	40.00000	Averaged	

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: ICVHSL1105.D
Analysis Type: water
Lab Sample ID: ICVHSL1104
Method: \\terastation\share\VOAdata\HP10.I\110510.B\8260ALOW.M

Injection Date: 05-NOV-2010 09:14
Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Init. Cal. Times: 12:03 14:39
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
61 1,1,2-Trichloroethane	0.24017	0.24379	0.24379	0.010	1.50934	40.00000	Averaged
62 Tetrachloroethene	0.40391	0.40999	0.40999	0.010	1.50489	40.00000	Averaged
63 1,3-Dichloropropane	0.49813	0.50976	0.50976	0.010	2.33506	40.00000	Averaged
64 2-Hexanone	0.38548	0.40789	0.40789	0.010	5.81283	40.00000	Averaged
65 Dibromochloromethane	0.30878	0.32148	0.32148	0.010	4.11349	40.00000	Averaged
66 1,2-Dibromoethane	0.31271	0.33110	0.33110	0.010	5.88043	40.00000	Averaged
67 1-Chlorohexane	0.41422	0.44393	0.44393	0.010	7.17452	40.00000	Averaged
68 Chlorobenzene (**)	0.85813	0.87404	0.87404	0.300	1.85334	40.00000	Averaged
69 Ethylbenzene (*)	0.44359	0.46587	0.46587	0.010	5.02119	20.00000	Averaged
70 1,1,1,2-Tetrachloroethane	0.29143	0.31454	0.31454	0.010	7.92869	40.00000	Averaged
71 Xylenes (m,p)	0.56199	0.59461	0.59461	0.010	5.80466	40.00000	Averaged
72 Xylene (o)	0.53583	0.56418	0.56418	0.010	5.29160	40.00000	Averaged
73 Styrene	0.90791	0.93876	0.93876	0.010	3.39819	40.00000	Averaged
74 Bromoform (**)	20.00000	19.92789	0.27074	0.100	-0.36054	40.00000	Quadratic
75 Isopropylbenzene	1.27241	1.44890	1.44890	0.010	13.87017	40.00000	Averaged
77 Bromobenzene	0.73265	0.73452	0.73452	0.010	0.25473	40.00000	Averaged
78 1,1,2,2-Tetrachloroethane(*	0.72093	0.74220	0.74220	0.300	2.95042	40.00000	Averaged
79 N-Propylbenzene	2.66536	2.76392	2.76392	0.010	3.69770	40.00000	Averaged
80 1,2,3-Trichloropropane	0.28865	0.29765	0.29765	0.010	3.11918	40.00000	Averaged
81 2-Chlorotoluene	1.62210	1.61720	1.61720	0.010	-0.30196	40.00000	Averaged
82 1,3,5-Trimethylbenzene	1.88883	1.98910	1.98910	0.010	5.30888	40.00000	Averaged
83 4-Chlorotoluene	1.85113	1.91366	1.91366	0.010	3.37815	40.00000	Averaged
84 T-Butylbenzene	1.78614	1.84727	1.84727	0.010	3.42259	40.00000	Averaged
85 1,2,4-Trimethylbenzene	1.91538	1.99932	1.99932	0.010	4.38237	40.00000	Averaged
86 Sec-Butylbenzene	2.48026	2.58191	2.58191	0.010	4.09839	40.00000	Averaged
87 1,3-Dichlorobenzene	1.25502	1.27565	1.27565	0.010	1.64381	40.00000	Averaged
88 P-Isopropyltoluene	2.13056	2.29182	2.29182	0.010	7.56886	40.00000	Averaged
89 1,4-Dichlorobenzene	1.32162	1.30249	1.30249	0.010	-1.44730	40.00000	Averaged
90 N-Butylbenzene	1.72708	1.82554	1.82554	0.010	5.70108	40.00000	Averaged
91 1,2-Dichlorobenzene	1.21337	1.21119	1.21119	0.010	-0.17975	40.00000	Averaged
92 1,2-Dibromo-3-chloropropane	20.00000	19.40886	0.13509	0.010	-2.95570	40.00000	Quadratic
93 1,2,4-Trichlorobenzene	20.00000	19.38158	0.81468	0.010	-3.09208	40.00000	Quadratic
94 Hexachlorobutadiene	0.46789	0.46716	0.46716	0.010	-0.15486	40.00000	Averaged
95 Naphthalene	20.00000	18.32254	1.98099	0.010	-8.38729	40.00000	Quadratic
96 1,2,3-Trichlorobenzene	20.00000	18.78128	0.68027	0.010	-6.09358	40.00000	Quadratic
M 97 1,2-Dichloroethene (Total)	0.27250	0.25897	0.25897	0.010	-4.96442	40.00000	Averaged
M 98 Xylenes (Total)	0.55327	0.58447	0.58447	0.010	5.63903	40.00000	Averaged

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i Injection Date: 05-NOV-2010 09:14
Lab File ID: ICVHSL1105.D Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Analysis Type: water Init. Cal. Times: 12:03 14:39
Lab Sample ID: ICVHSL1104 Quant Type: ISTD
Method: \\terastation\share\VOAdata\HP10.I\110510.B\8260ALOW.M

Average %D / Drift Results.
Calculated Average %D/Drift = 4.87858
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8260 GAS ICAL Checklist

Instrument: Hp10

ICAL Date: November 4, 2010

Initiator/Date: PD November 4, 2010

Calibration Range: 50 to 10000 ug/L

Reviewer/Date: 11/9/10 NCM: None

Matrix: Water, Medium Level Soils

BFB ID: BFB1104, BFB1105

Standards ID: GAS110401– GAS110408

Second Source : ICVGAS1105

I: Criteria

	Initiated	Reviewed
The RSD for the ICAL is less than 20%.	☑	☑
The Tune Documentation is present and meets criteria.	☑	☑
Window Defining Mix (WMD) present.	☑	☑
Calibration History Included.	☑	☑
New Standards Changed on the Logbook File.	☑	☑
Manual re-integrations are checked/initialed and hardcopies included.	☑	☑
Standards analyzed within 12 hours of Tune time.	☑	☑
Starting and Ending Quantitation windows correct.	☑	☑
Curve recipes are included.	☑	☑
Quadratic and/or Linear Regressions R >0.995 or R^2>0.990 and the y-intercept for the curve at zero response is less than +/- ½ the RL of the analyte.	☑	☑
The second source standard (LCS/LCSD) meets the ICVcriteria of <15%.	☑	☑

II: Gas Quantitation range Over 20% *(Write TPH range and %RSD)*

None

III: 2nd Source Gas Quantitation range Over 15% *(Write TPH range and %D)*

None

IV: Notes All calibration ranges use Average %RSD curve fit

Window Defining Mix did not run the first day. HSL CCV was run the next day to verify that the retention times had not shifted and WDM and ICV were rerun that day.

TestAmerica West Sacramento
GC/MS VOA INSTRUMENT LOG

Page# 1

8260B / Gas

SOP : WS-MS-0007 Rev# 4.2

Standard ID's

BFB-50	10MSV0086	8260-IS	10MSV0505	8260-SURR	10MSV0503
TCLA	10MSV0492	TCLA SS	10MSV0473	TFT-SURR	10MSV0502
TCLB	10MSV0497	TCLB SS	10MSV0444		
Odd #1	10MSV0493	Odd #1 ss	10MSV0467	WDM	10MSV0012
Odd #2	10MSV0494	Odd #2 SS	10MSV0468	Gasoline (ps)	10MSV0507
VA	10MSV0498	VA SS	10MSV0446	Gasoline (ss)	10MSV0482
AP9A	10MSV0416	AP9A SS	10MSV0409		
AP9B	10MSV0419	AP9B SS	10MSV0422	Gasoline Stock	10MSV0506
ACRLN	10MSV0412	ACRLN SS	10MSV0415	**Second Source used for ICV only**	

Inst ID : HP10.i
Batch ID : 110410.B
Matrix : WATER
Level : LOW
Name/date: PD/ 110510

Gas Key: 1=CA-LUFT 2=8015-Mod(C6-C12)
3=AK101 4=NW-TPH
5=Other (C___-C___)

HSL ICAL# 110410 GAS ICAL# 110410 AP9 ICAL#_____

Batch#_____ _____ _____ _____ _____
8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ]

Lot(s)#_____ _____ _____ _____ _____

Lot(s)#_____ _____ _____ _____ _____

QC WO#_____/___ _____/___ _____/___ _____/___ _____/___

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
04-NOV-2010	09:34	PD	COB-Aq	COB01.D	5 mL	49			
04-NOV-2010	09:56	PD	COB-Aq	COB02.D	5 mL	50			
04-NOV-2010	10:18	PD	COB-Aq	COB03.D	5 mL	51			
04-NOV-2010	11:04	PD	50ng BFB 1ul di	BFB1104.D	0 mL	51			
04-NOV-2010	11:19	PD	COB-Aq	COB04.D	5 mL	1			
04-NOV-2010	11:41	PD	COB-Aq	COB05.D	5 mL	2			
04-NOV-2010	12:03	PD	HSL_0.25/0.5	HSL110401	5 mL	3			OK
04-NOV-2010	12:25	PD	HSL_0.5/1.0	HSL110402	5 mL	4			OK
04-NOV-2010	12:47	PD	HSL_1.0/2.0	HSL110403	5 mL	5			OK
04-NOV-2010	13:10	PD	HSL_4	HSL110404	5 mL	6			OK
04-NOV-2010	13:32	PD	HSL_20	HSL110405	5 mL	7			OK
04-NOV-2010	13:54	PD	HSL_40	HSL110406	5 mL	8			OK
04-NOV-2010	14:16	PD	HSL_60	HSL110407	5 mL	9			OK
04-NOV-2010	14:39	PD	HSL_800	HSL110408	5 mL	10			OK
04-NOV-2010	15:01	PD	COB-Aq	COB06.D	5 mL	11			
04-NOV-2010	15:23	PD	COB-Aq	COB07.D	5 mL	12			
04-NOV-2010	15:46	PD	ICVHSL1104	ICVHSL110	5 mL	13			RR w/diff ODmix source
04-NOV-2010	16:08	PD	COB-Aq	COB08.D	5 mL	14			
04-NOV-2010	16:31	PD	GAS 50	GAS110401	5 mL	15			OK
04-NOV-2010	16:53	PD	GAS 100	GAS110402	5 mL	16			OK
04-NOV-2010	17:15	PD	GAS 500	GAS110403	5 mL	17			OK
04-NOV-2010	17:38	PD	GAS 1000	GAS110404	5 mL	18			OK
04-NOV-2010	18:00	PD	GAS 2500	GAS110405	5 mL	19			OK
04-NOV-2010	18:22	PD	GAS 5000	GAS110406	5 mL	20			OK
04-NOV-2010	18:44	PD	GAS 7500	GAS110407	5 mL	21			OK
04-NOV-2010	19:07	PD	GAS 10000	GAS110408	5 mL	22			OK
04-NOV-2010	19:29	PD	COB-Aq	COB09.D	5 mL	23			
04-NOV-2010	19:51	PD	COB-Aq	COB10.D	5 mL	24			
04-NOV-2010	20:13	PD	GAS_500_ICV	ICVGAS110	5 mL	25			↑C6-C10 RR w/diff source.

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 04-NOV-2010 16:31
End Cal Date : 04-NOV-2010 19:07
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\terastation\share\VOAdata\HP10.I\110410.B\8260IIIGAS.M
Last Edit : 05-Nov-2010 10:45 dibbsrodriguezp
Curve Type : Average

Calibration File Names:
Level 1: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110401.D
Level 2: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110402.D
Level 3: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110403.D
Level 4: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110404.D
Level 5: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110405.D
Level 6: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110406.D
Level 7: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110407.D
Level 8: \\terastation\share\VOAdata\VOAdata\HP10.I\110410.B\GAS110408.D

Compound	50.000 Level 1	100.000 Level 2	500.000 Level 3	1000.000 Level 4	2500.000 Level 5	5000.000 Level 6	RRF	% RSD
	7500.000 Level 7	1.000e+04 Level 8						
1 Dibromofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
2 1,2-Dichloroethane-d4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
3 1,4-Difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
152 Trifluorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
S 147 8015B (GRO)	97146	95635	98198	109429	113167	116607		
	120457	114152					108099	9.000
S 148 AK101	71761	71970	74588	83264	85746	87106		
	88879	83948					80908	8.660
S 149 CALUFT	80290	79291	82539	92924	97177	101217		
	103034	97364					91729	10.511
S 150 NWTPH-Gx	73058	71143	74012	83405	87411	91189		
	91646	86255					82265	10.149

Manual calculation for AK101 @ level 5:
$\frac{214365267}{2500} = 85746$ RY 11/8/10

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 04-NOV-2010 16:31
End Cal Date : 04-NOV-2010 19:07
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\terastation\share\VOAdata\HP10.I\110410.B\8260IIIGAS.M
Last Edit : 05-Nov-2010 10:45 dibbsrodriguezp
Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	500.000 Level 3	1000.000 Level 4	2500.000 Level 5	5000.000 Level 6	RRF	% RSD
	7500.000 Level 7	1.000e+04 Level 8						
S 151 Gas C6-C12	93849	94397	99203	111306	115989	120584		
	124334	117738					109675	11.087
S 154 Gas C6-C10	79848	79475	82282	91704	94702	97028		
	99429	94278					89843	8.972
5 Toluene-d8	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
6 Chlorobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
7 4-Bromofluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
8 1,4-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
155 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
156 Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
157 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
158 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

Report Date: 05-Nov-2010 10:48

Calibration History

Method : \\terastation\share\VOAdata\HP10.I\110410.B\8260IIIGAS.M
Start Cal Date: 04-NOV-2010 16:31
End Cal Date : 04-NOV-2010 19:07
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 50.00000		
04-NOV-2010 16:31	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110401.D
Cal Level: 2 , Cal Amount: 100.00000		
04-NOV-2010 16:53	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110402.D
Cal Level: 3 , Cal Amount: 500.00000		
04-NOV-2010 17:15	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110403.D
Cal Level: 4 , Cal Amount: 1000.00000		
04-NOV-2010 17:38	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110404.D
Cal Level: 5 , Cal Amount: 2500.00000		
04-NOV-2010 18:00	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110405.D
Cal Level: 6 , Cal Amount: 5000.00000		
04-NOV-2010 18:22	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110406.D
Cal Level: 7 , Cal Amount: 7500.00000		
04-NOV-2010 18:44	TPHALL	\\terastation\share\VOAdata\HP10.I\110410.B\GAS110407.D
Cal Level: 8 , Cal Amount: 10000.00000		

```
+=================================================================================+
|04-NOV-2010 19:07 |TPHALL                |                                        |
|\\terastation\share\VOAdata\HP10.I\110410.B\GAS110408.D                          |
+------------------+----------------------+----------------------------------------+

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3
+------------------+----------------------+----------------------------------------+
|04-NOV-2010 20:13 |TPHALL                |                                        |
|\\terastation\share\VOAdata\HP10.I\110410.B\ICVGAS1104.D                         |
|04-NOV-2010 17:15 |TPHALL                |                                        |
|\\terastation\share\VOAdata\HP10.I\110410.B\GAS110403.D                          |
+------------------+----------------------+----------------------------------------+
```

Gasoline Water Curve

Sample Name	Stock Conc. (ug/mL)		uL spiked		Volumetric Flask Size	Purged Sample Size	Final Conc. (ug/mL)	
	Analyte	TFT Surrogate	Analyte	TFT Surrogate			Analyte	Surrogate
50 PPB Gasoline	1000	100	2.5 uL	10uL	50	5	**50**	20
100 PPB Gasoline	1000	100	5 uL	10uL	50	5	**100**	20
500 PPB Gasoline	1000	100	25 uL	10uL	50	5	**500**	20
1000 PPB Gasoline	1000	100	50 uL	10uL	50	5	**1000**	20
2500 PPB Gasoline	1000	100	125 uL	10uL	50	5	**2500**	20
5000 PPB Gasoline	1000	100	250 uL	10uL	50	5	**5000**	20
7500 PPB Gasoline	1000	100	375 uL	10uL	50	5	**7500**	20
10000 PPB Gasoline	1000	100	500 uL	10uL	50	5	**10000**	20

Prepared by: Pollema Dibbs Date: 110410

Comments :

TestAmerica

Data file : \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D
Lab Smp Id: bfb
Inj Date : 04-NOV-2010 11:04
Operator : PD Inst ID: HP10.i
Smp Info : 50ng BFB 1ul di;PD
Misc Info : 1;WATER;0;all.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\110410.B\390BFB10.m
Meth Date : 13-Oct-2010 14:52 dibbsp Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 51 QC Sample: BFB
Dil Factor: 1.00000 PD
Integrator: HP RTE Compound Sublist: 3_BFB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SACPC
110410

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb10						CAS #: 460-00-4		
3.338	3.338	(0.000)	95	1090048			0.00- 100.00	91.22
3.338	3.338	(0.000)	50	178688			15.00- 40.00	16.39
3.338	3.338	(0.000)	75	488960			30.00- 60.00	44.86
3.338	3.338	(0.000)	96	73520			5.00- 9.00	6.74
3.338	3.338	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
3.338	3.338	(0.000)	174	1195008			50.00- 0.00	109.63
3.338	3.338	(0.000)	175	84176			5.00- 9.00	7.04
3.338	3.338	(0.000)	176	1162752			95.00- 101.00	97.30
3.338	3.338	(0.000)	177	77944			5.00- 9.00	6.70

Data File: \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D

Date : 04-NOV-2010 11:04

Client ID:

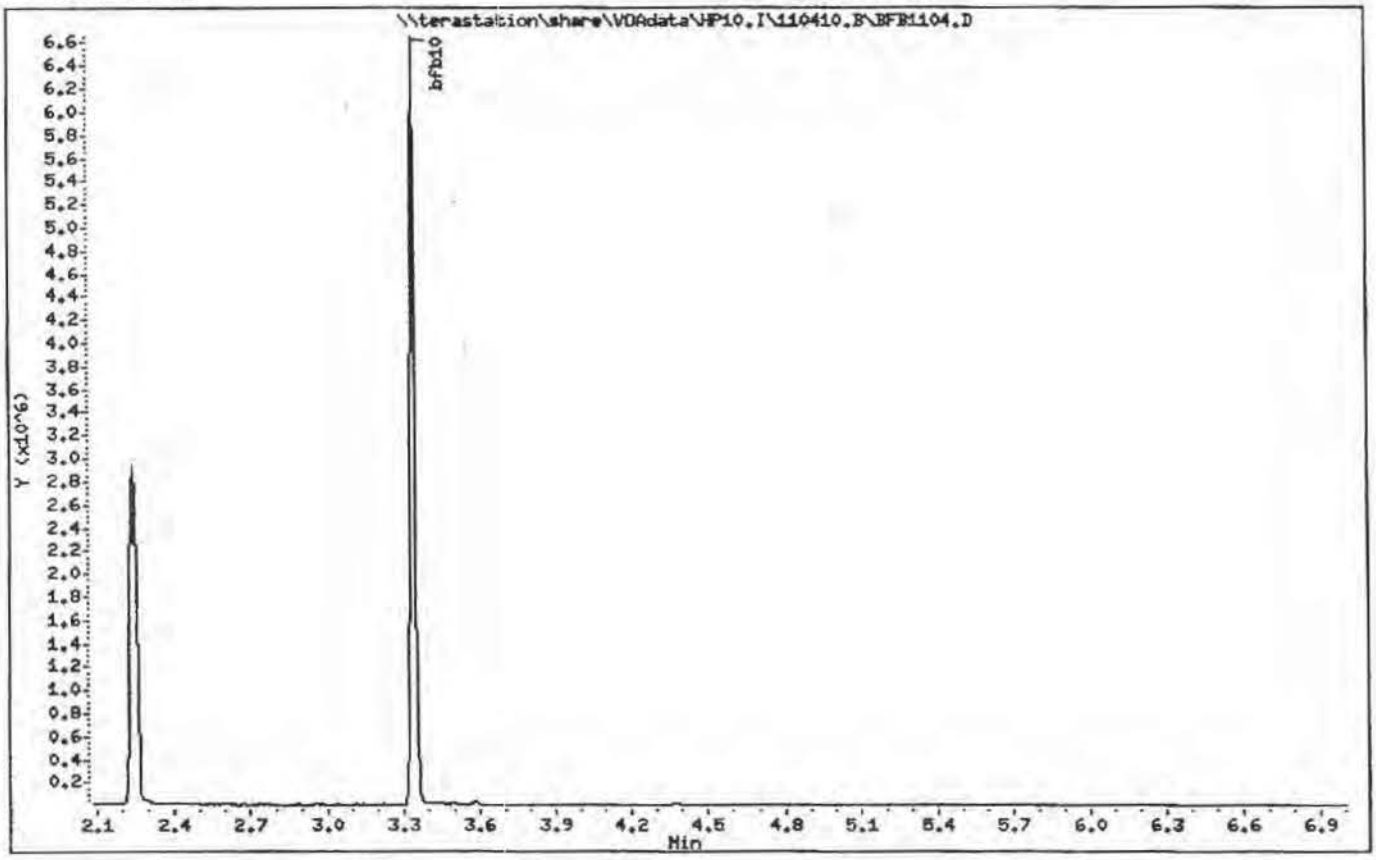
Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00



Data File: \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D

Date : 04-NOV-2010 11:04

Client ID:

Instrument: HP10.i

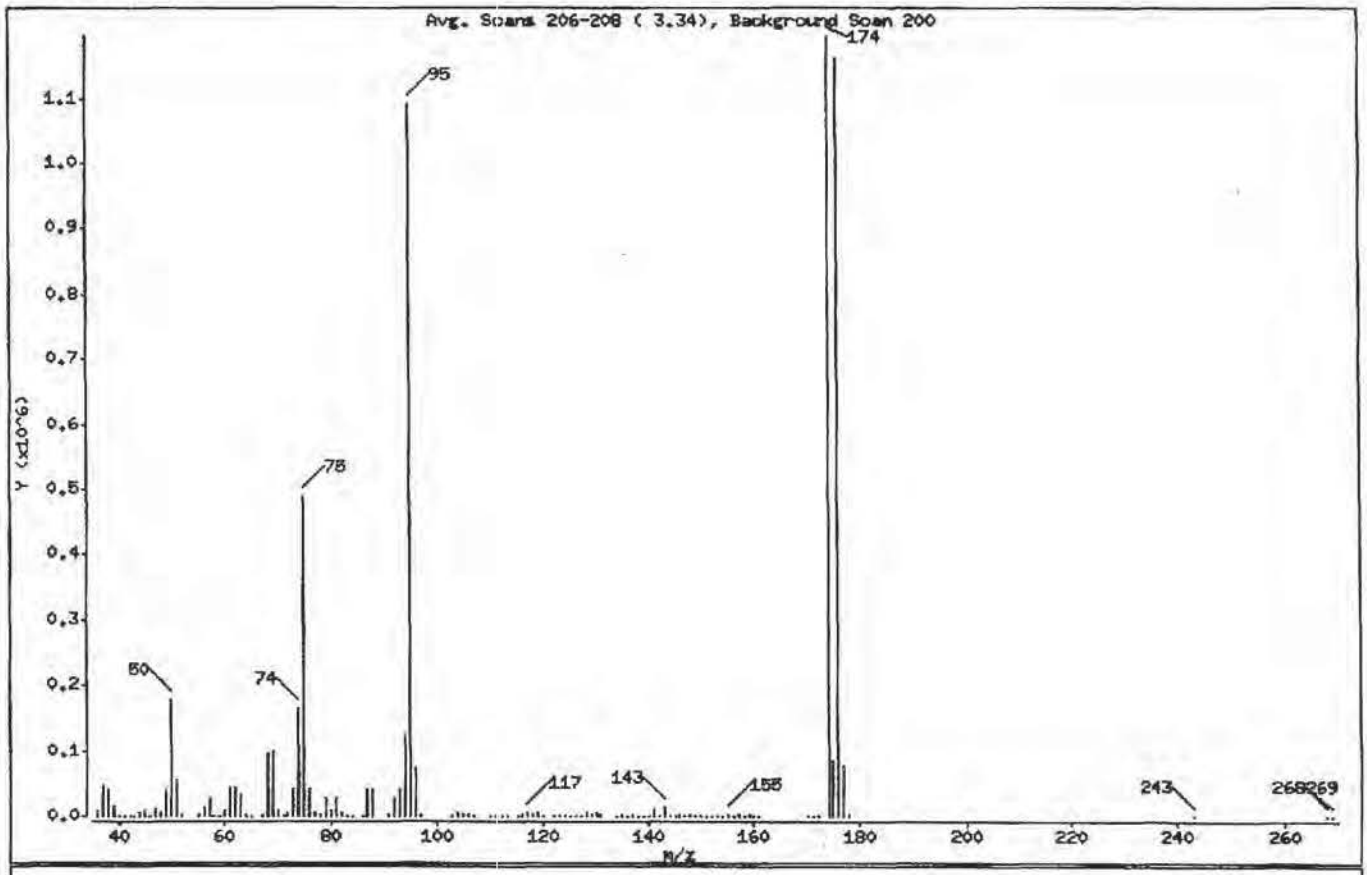
Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

1 bfb10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.39
75	30.00 - 60.00% of mass 95	44.86
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	109.63
175	5.00 - 9.00% of mass 174	7.72 (7.04)
176	95.00 - 101.00% of mass 174	106.67 (97.30)
177	5.00 - 9.00% of mass 176	7.15 (6.70)

Data File: \\terastation\share\VOAdata\HP10.I\110410.B\BFB1104.D

Date : 04-NOV-2010 11:04

Client ID:

Instrument: HP10.i

Sample Info: 50ng BFB 1ul di:PD

Operator: PD

Column phase:

Column diameter: 2.00

Data File: BFB1104.D

Spectrum: Avg. Scans 206-208 (3.34), Background Scan 200

Location of Maximum: 174.00

Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8225	70.00	7840	111.00	895	146.00	1705
37.00	46728	71.00	287	112.00	595	147.00	775
38.00	41560	72.00	4600	113.00	959	148.00	2566
39.00	16936	73.00	42200	115.00	1210	149.00	755
40.00	640	74.00	164544	116.00	3607	150.00	1364
41.00	51	75.00	488960	117.00	6180	151.00	80
42.00	155	76.00	41688	118.00	3969	152.00	876
43.00	411	77.00	5793	119.00	5576	153.00	1058
44.00	5439	78.00	3514	120.00	297	154.00	652
45.00	8307	79.00	26712	122.00	319	155.00	3123
46.00	748	80.00	7228	123.00	482	156.00	259
47.00	11610	81.00	28160	124.00	920	157.00	1740
48.00	5383	82.00	5888	125.00	371	158.00	182
49.00	37192	83.00	797	126.00	459	159.00	1588
50.00	178688	84.00	149	127.00	381	160.00	118
51.00	54000	86.00	983	128.00	4460	161.00	1142
52.00	2690	87.00	41416	129.00	1829	170.00	109
55.00	2037	88.00	40600	130.00	4134	171.00	144
56.00	14376	91.00	3623	131.00	1687	172.00	103
57.00	26144	92.00	28144	134.00	406	174.00	1195008
58.00	1291	93.00	41736	135.00	2327	175.00	84176
59.00	81	94.00	122680	136.00	406	176.00	1162752
60.00	7413	95.00	1090048	137.00	2076	177.00	77944
61.00	43752	96.00	73520	138.00	68	178.00	2130
62.00	43248	97.00	2213	139.00	440	243.00	68
63.00	33048	103.00	318	140.00	818	268.00	67
64.00	2887	104.00	4673	141.00	11345	269.00	91
65.00	299	105.00	1501	142.00	1030		
67.00	2720	106.00	4063	143.00	12410		
68.00	96472	107.00	1009	144.00	690		
69.00	98128	110.00	790	145.00	1014		

TestAmerica West Sacramento
GC/MS VOA INSTRUMENT LOG

Page# 2

8260B / Gas

SOP : WS-MS-0007 Rev# 4.2

Standard ID's

BFB-50	10MSV0086	8260-IS	10MSV0505	8260-SURR	10MSV0503
TCLA	10MSV0492	TCLA SS	10MSV0473	TPT-SURR	10MSV0502
TCLB	10MSV0497	TCLB SS	10MSV0444		
Odd #1	10MSV0493	Odd #1 ss	10MSV0467	WDM	10MSV0012
Odd #2	10MSV0494	Odd #2 SS	10MSV0468	Gasoline (ps)	10MSV0507
VA	10MSV0498	VA SS	10MSV0446	Gasoline (ss)	10MSV0482
AP9A	10MSV0416	AP9A SS	10MSV0409		
AP9B	10MSV0419	AP9B SS	10MSV0422	Gasoline Stock	10MSV0506
ACRLN	10MSV0412	ACRLN SS	10MSV0415	**Second Source used for ICV only**	

Inst ID : HP10.i
Batch ID : 110510.B
Matrix : WATER
Level : LOW
Name/date: PD/110510

Gas Key: 1=CA-LUFT 2=8015-Mod(C6-C12)
3=AK101 4=NW-TPH
5=Other (C___-C___)

HSL ICAL# 110410 GAS ICAL# 110410 AP9 ICAL# na

Batch#_____ 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ]

Lot(s)#_____

Lot(s)#_____

QC WO#_____/___

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
05-NOV-2010	07:47	PD	COB-Aq	COB01.D	5 mL	49			
05-NOV-2010	08:09	PD	COB-Aq	COB02.D	5 mL	50			
05-NOV-2010	08:38	PD	50ng BFB 1ul di	BFB1105.D	0 mL	51			
05-NOV-2010	08:52	PD	AP9 20 (PS)	AP91105.D	5 mL	1			
05-NOV-2010	09:14	PD	ICVHSL1104	ICVHSL110	5 mL	2			OK
05-NOV-2010	09:37	PD	TVPH WDM	WDM1105.D	5 mL	3			OK
05-NOV-2010	09:59	PD	GAS_500_ICV	ICVGAS110	5 mL	4			OK

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: ICVGAS1105.D
Analysis Type: WATER
Lab Sample ID:
Method: \\terastation\share\VOAdata\HP10.I\110510.B\8260IIIGAS.m

Injection Date: 05-NOV-2010 09:59
Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Init. Cal. Times: 16:31 19:07
Quant Type: ESTD

PD
110510

COMPOUND	RRF / AMOUNT	RF500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	171550	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	157811	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	163612	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	132483	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	60744	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	199439	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	143502	0.010	++++	0.000e+000	Averaged	<-
152 Trifluorotoluene	++++	151995	0.010	++++	15.00000	Averaged	<-
S 147 8015B (GRO)	108099	109024	0.010	0.85612	15.00000	Averaged	
S 148 AK101	80908	83236	0.010	2.87804	20.00000	Averaged	
S 149 CALUFT	91729	89411	0.010	-2.52714	15.00000	Averaged	
S 150 NWTPH-Gx	82265	79625	0.010	-3.20925	15.00000	Averaged	
S 151 Gas C6-C12	109675	108927	0.010	-0.68214	15.00000	Averaged	
S 154 Gas C6-C10	89843	91369	0.010	1.69777	15.00000	Averaged	

TestAmerica

Data file : \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D
Lab Smp Id: bfb
Inj Date : 05-NOV-2010 08:38
Operator : PD Inst ID: HP10.i
Smp Info : 50ng BFB 1ul di;PD
Misc Info : 1;WATER;0;all.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\110510.B\390BFB10.m
Meth Date : 13-Oct-2010 14:52 dibbsp Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 51 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3_BFB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SACPC

PD
110510

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb10						CAS #: 460-00-4		
3.338	3.338	(0.000)	95	1279488			0.00- 100.00	91.07
3.338	3.338	(0.000)	50	211712			15.00- 40.00	16.55
3.338	3.338	(0.000)	75	586048			30.00- 60.00	45.80
3.338	3.338	(0.000)	96	85552			5.00- 9.00	6.69
3.338	3.338	(0.000)	173	1978			0.00- 2.00	0.14
3.338	3.338	(0.000)	174	1404928			50.00- 0.00	109.80
3.338	3.338	(0.000)	175	96504			5.00- 9.00	6.87
3.338	3.338	(0.000)	176	1377792			95.00- 101.00	98.07
3.338	3.338	(0.000)	177	87696			5.00- 9.00	6.36

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D

Date : 05-NOV-2010 08:38

Client ID:

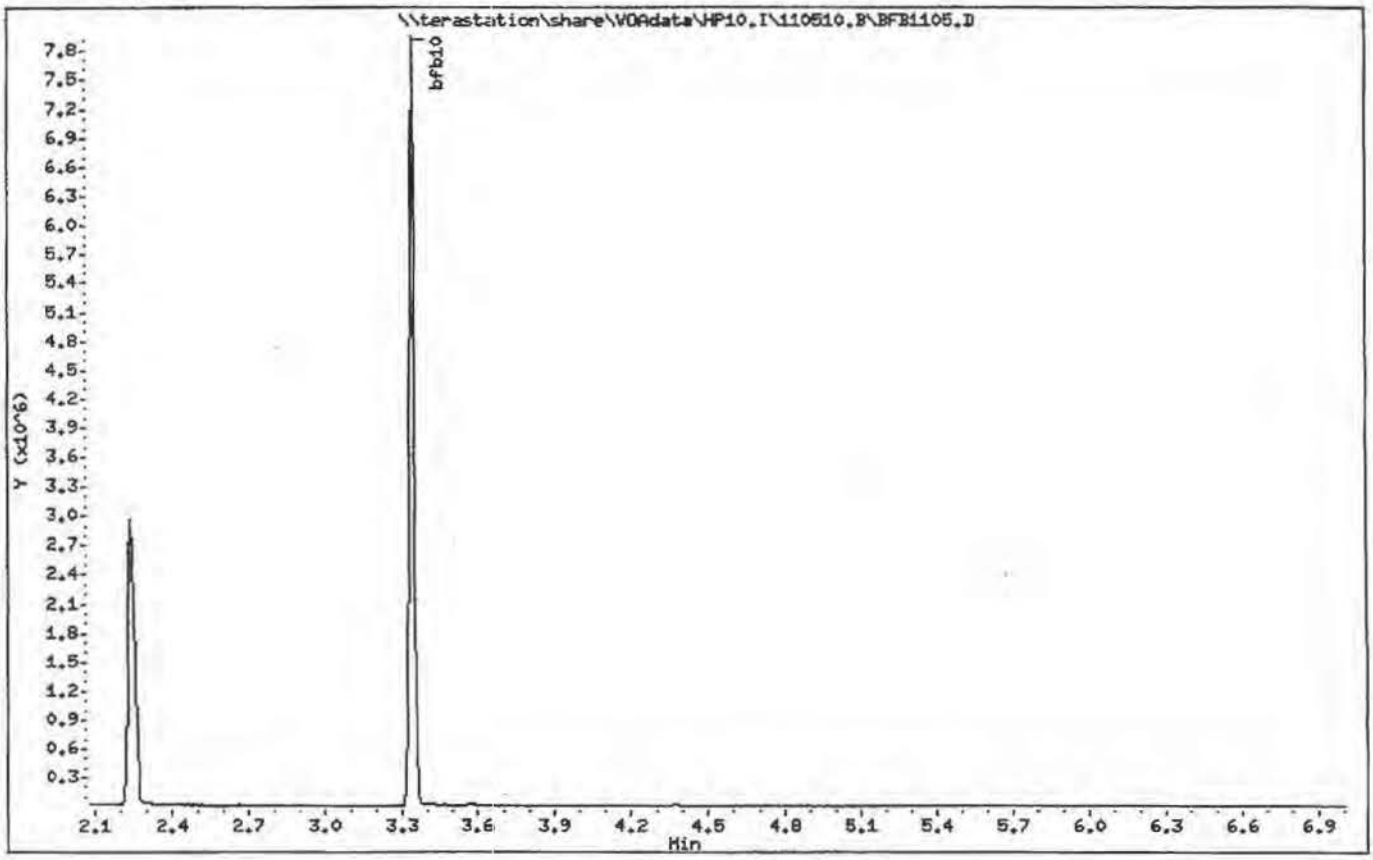
Instrument: HP10.i

Sample Info: 50ng BFB 1ul di:PD

Operator: PD

Column phase:

Column diameter: 2.00



Data File: \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D

Date : 05-NOV-2010 08:38

Client ID:

Instrument: HP10.i

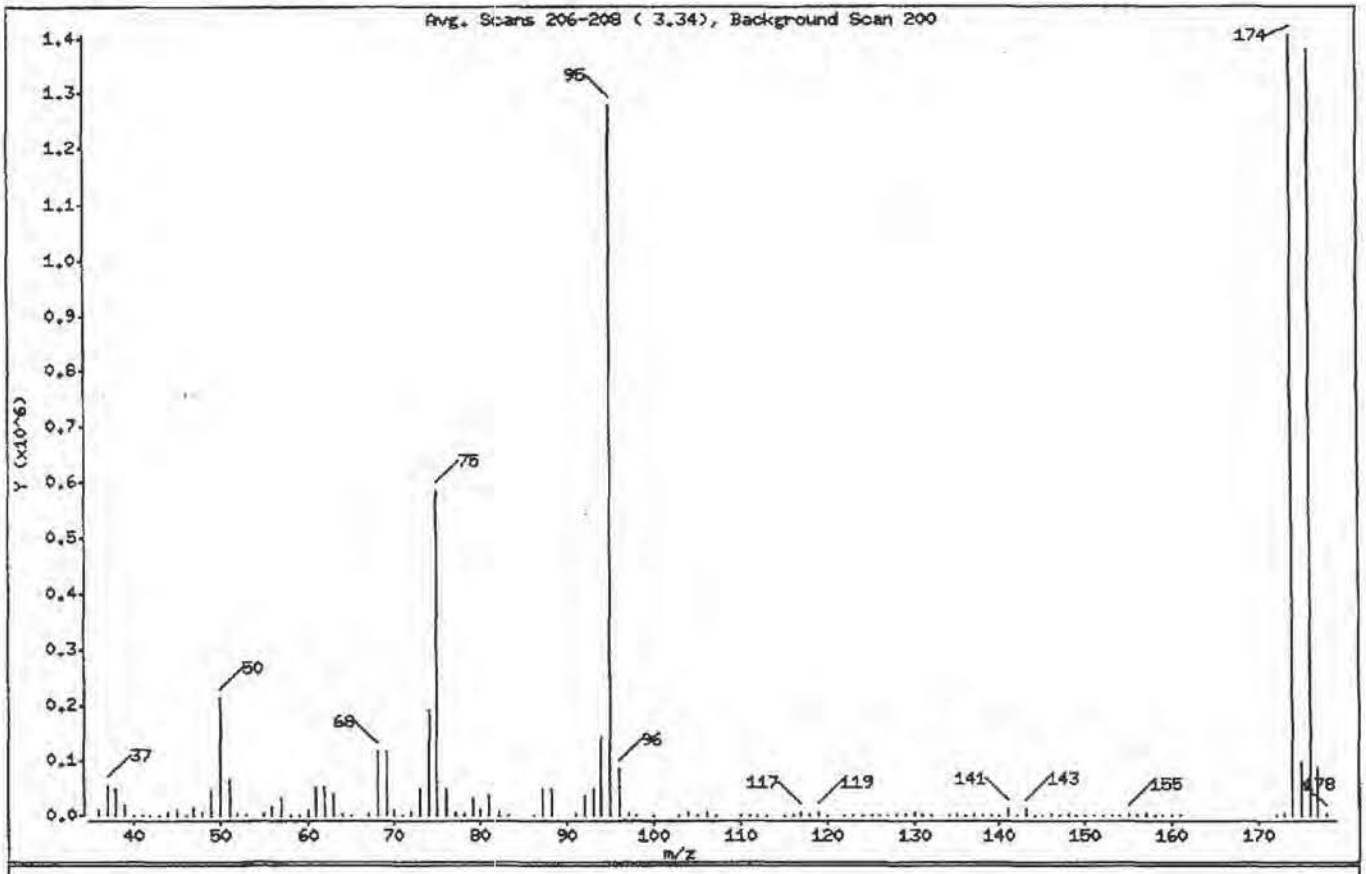
Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

1 bfb10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.55
75	30.00 - 60.00% of mass 95	45.80
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.15 (0.14)
174	Greater than 50.00% of mass 95	109.80
175	5.00 - 9.00% of mass 174	7.54 (6.87)
176	95.00 - 101.00% of mass 174	107.68 (98.07)
177	5.00 - 9.00% of mass 176	6.85 (6.36)

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\BFB1105.D

Date : 05-NOV-2010 08:38

Client ID:

Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

Data File: BFB1105.D
Spectrum: Avg. Scans 206-208 (3.34), Background Scan 200
Location of Maximum: 174.00
Number of points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9285	68.00	117176	105.00	1246	140.00	857
37.00	54664	69.00	117168	106.00	5424	141.00	12619
38.00	49936	70.00	9675	107.00	975	142.00	1459
39.00	18424	71.00	432	110.00	828	143.00	14451
40.00	617	72.00	5414	111.00	1182	144.00	736
41.00	235	73.00	48680	112.00	822	145.00	1022
42.00	70	74.00	191424	113.00	1241	146.00	1846
43.00	694	75.00	586048	115.00	1365	147.00	1050
44.00	6914	76.00	48960	116.00	4557	148.00	2865
45.00	9868	77.00	5787	117.00	7698	149.00	1106
46.00	518	78.00	4340	118.00	4596	150.00	1397
47.00	13617	79.00	33136	119.00	5697	151.00	96
48.00	6720	80.00	9417	120.00	250	152.00	846
49.00	44064	81.00	35016	122.00	328	153.00	1277
50.00	211712	82.00	6778	123.00	445	154.00	666
51.00	65800	83.00	1103	124.00	919	155.00	3699
52.00	3242	86.00	1488	125.00	398	156.00	430
53.00	98	87.00	49696	126.00	415	157.00	2227
55.00	2995	88.00	47560	127.00	459	158.00	257
56.00	16384	91.00	3603	128.00	4246	159.00	1470
57.00	32016	92.00	34224	129.00	2611	160.00	211
58.00	1418	93.00	47664	130.00	4999	161.00	1501
59.00	105	94.00	141312	131.00	1908	172.00	154
60.00	9635	95.00	1279488	132.00	136	173.00	1978
61.00	51600	96.00	85552	134.00	281	174.00	1404928
62.00	50744	97.00	2514	135.00	1952	175.00	96504
63.00	37472	98.00	79	136.00	314	176.00	1377792
64.00	3507	100.00	82	137.00	2639	177.00	87696
65.00	215	103.00	154	138.00	77	178.00	2412
67.00	2518	104.00	5723	139.00	464		

TestAmerica

Gasoline by GC/MS

Data file : \\terastation\share\VOAdata\HP10.I\110510.B\WDM1105.D
Lab Smp Id: TVPH WDM
Inj Date : 05-NOV-2010 09:37
Operator : PD Inst ID: HP10.i
Smp Info : TVPH WDM ;PD;1;;3;;1
Misc Info : 1;water;0;TPHALL.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\110510.B\8260IIIGAS.m
Meth Date : 05-Nov-2010 10:42 dibbsrodri Quant Type: ESTD
Cal Date : 04-NOV-2010 19:07 Cal File: GAS110408.D
Als bottle: 3
Dil Factor: 1.00000 PD
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14 110510
Processing Host: SACPC

Concentration Formula: Amt * DF * Uf * Vod/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Fctor
Vod	5.000	Default Sample Volume
Vo	5.000	Sample Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
3 1,4-Difluorobenzene	5.447	5.453	-0.006	1399807			(a)
6 Chlorobenzene-d5	8.027	8.026	0.001	1550618			(a)
8 1,4-Dichlorobenzene-d4	10.247	10.247	0.000	1659532			(a)
1 Dibromofluoromethane	4.778	4.802	-0.024	1418980			(a)
2 1,2-Dichloroethane-d4	5.070	5.064	0.006	1295835			(a)
5 Toluene-d8	6.725	6.725	0.000	3988622			(a)
7 4-Bromofluorobenzene	9.134	9.134	0.000	2799639			(a)
152 Trifluorotoluene	Compound Not Detected.						
S 147 8015B (GRO)	3.100-10.000			8563478	79.2189	79.22	
S 148 AK101	3.600-9.400			6400377	79.1072	79.11	
S 149 CALUFT	5.270-12.000			5972704	65.1122	65.11	
S 150 NWTPH-Gx	6.750-12.600			6341012	77.0803	77.08	
S 151 Gas C6-C12	3.600-12.000			8016320	73.0915	73.09	
S 154 Gas C6-C10	3.600-9.700			6781186	75.4780	75.48	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica

Gasoline by GC/MS

Data file : \\terastation\share\VOAdata\HP10.I\110510.B\WDM1105.D
Lab Smp Id: TVPH WDM
Inj Date : 05-NOV-2010 09:37
Operator : PD Inst ID: HP10.i
Smp Info : TVPH WDM ;PD;1;;3;;1
Misc Info : 1;water;0;TPHALL.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\110510.B\8260IIIGAS.m
Meth Date : 05-Nov-2010 10:42 dibbsrodri Quant Type: AREA%
Cal Date : 04-NOV-2010 19:07 Cal File: GAS110408.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACPC

Concentration Formula: Amt * DF * Uf * Vod/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Fctor
Vod	5.000	Default Sample Volume
Vo	5.000	Sample Volume
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.778	1418980	766378	0.540	5.98	1 Dibromofluoromethan
5.070	1295836	700626	0.541	5.46	2 1,2-Dichloroethane-
5.448	1399808	800571	0.572	5.90	3 1,4-Difluorobenzene
6.500	6400377	3636309	0.568	26.98	S 148 AK101
6.550	8563478	4875372	0.569	-101.00	S 147 8015B (GRO)
3.227	848863	401763	0.473		
6.650	6781187	3895084	0.574	28.59	S 154 Gas C6-C10
3.714	541083	286956	0.530		
5.113	434332	242201	0.558		
5.180	1068202	543571	0.509		
5.338	309063	182836	0.592		
6.780	1543317	867799	0.562		
7.145	31864	15243	0.478		
8.155	506284	307087	0.607		
8.258	991320	594429	0.600		
8.635	957511	586241	0.612		
8.982	17402	9946	0.572		
9.554	380809	258775	0.680		

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\WDM1105.D Page 2
Report Date: 05-Nov-2010 10:43

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.725	3988623	2421140	0.607	16.81	5 Toluene-d8
7.800	8016321	4669780	0.583	33.79	S 151 Gas C6-C12
9.864	11223	7404	0.660		
9.913	922205	571121	0.619		
10.181	17498	9177	0.524		
10.631	47023	18784	0.399		
11.811	237185	168210	0.709		
8.027	1550618	913085	0.589	6.53	6 Chlorobenzene-d5
8.635	5972704	3597052	0.602	25.18	S 149 CALUFT
9.134	2799640	1645823	0.588	11.80	7 4-Bromofluorobenzen
9.675	6341013	3794048	0.598	26.73	S 150 NWTPH-Gx
12.231	49372	25355	0.514		
12.395	44898	23119	0.515		
12.474	583101	331358	0.568		
10.248	1659533	997299	0.601	6.99	8 1,4-Dichlorobenzene
12.711	62193	33028	0.531	0.26	
	23717785	13729325		100.000	

Total unknown % area = 0.260

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\WDM1105.D

Date : 05-NOV-2010 09:37

Client ID:

Sample Info: TVPH WDM ;PD;1;;3;;1

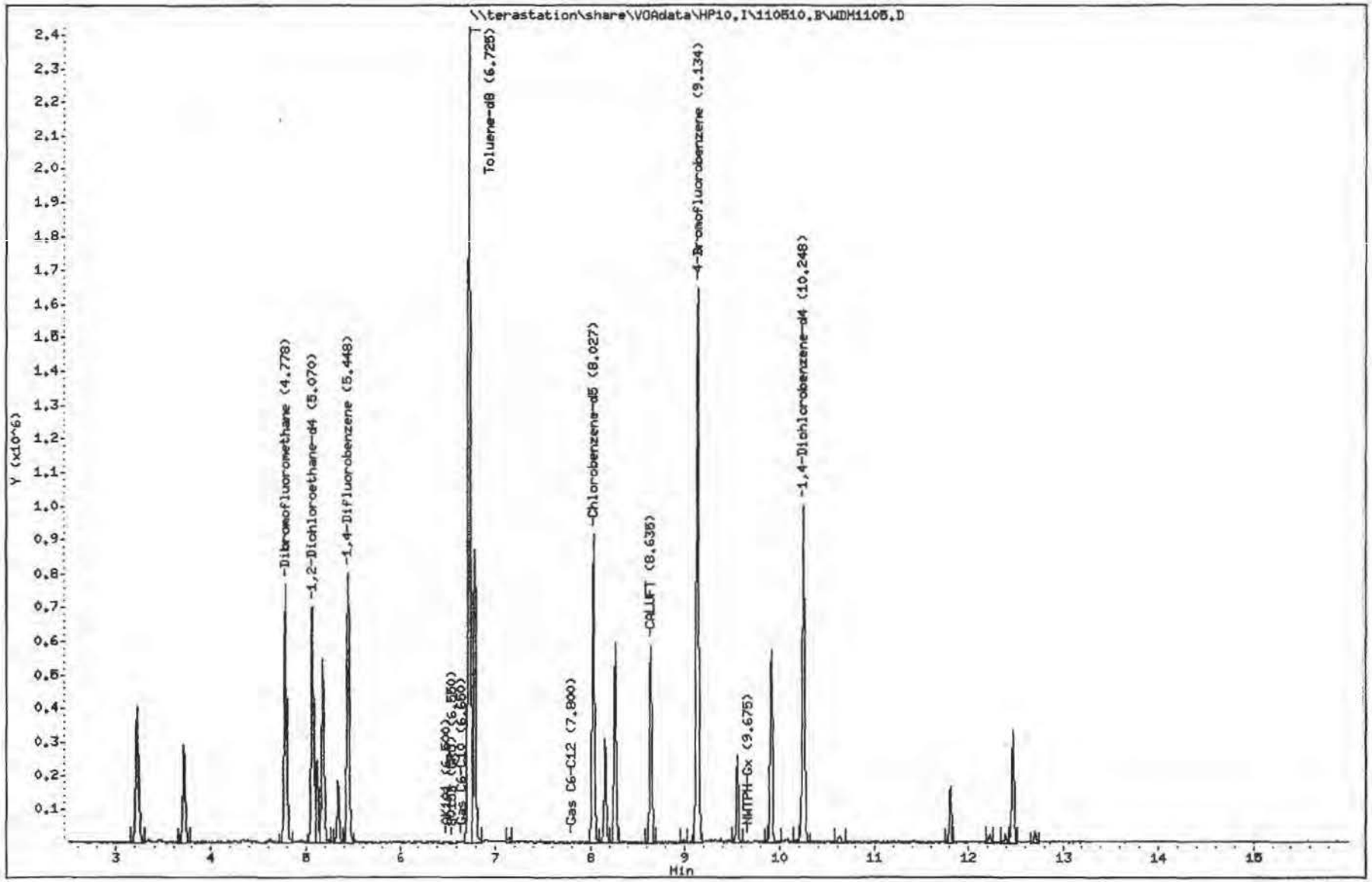
Purge Volume: 5.0

Column phase: J&W DB-624

Instrument: HP10.i

Operator: PD

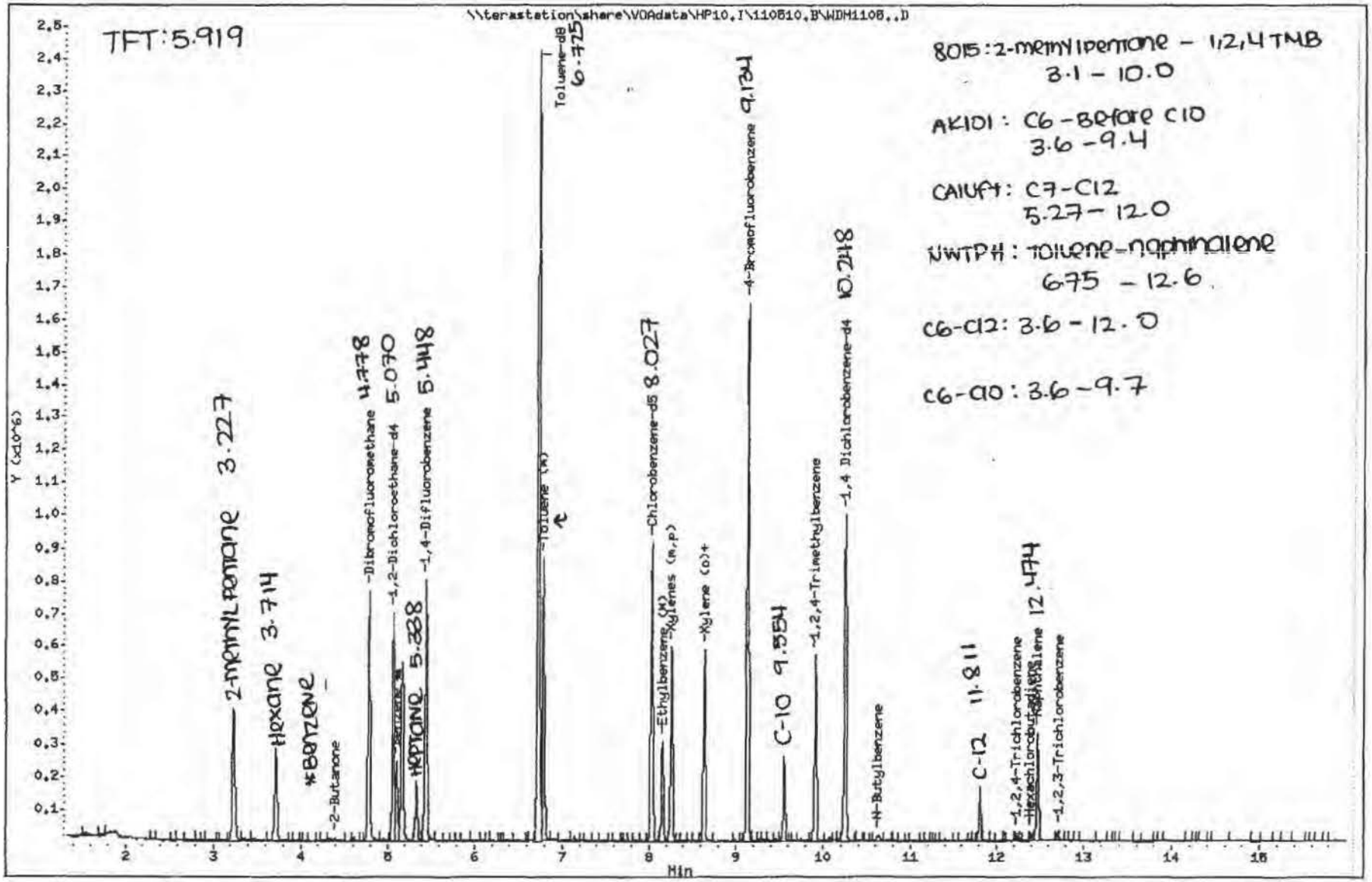
Column diameter: 0.53



11/05/10

Data File: \\terastation\share\VOAdata\HP10.I\110510.B\WDM1105..D
Date : 05-NOV-2010 09:37
Client ID:
Sample Info: TVPH WDM :PD;1;;3;;1
Purge Volume: 5.0
Column phase:

Instrument: HP10.I
Operator: PD
Column diameter: 0.53



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8260/GAS/AP9 CCV Checklist

Instrument: HP10

ICAL Date: HSL110410, GAS110410

Initiator/ Date: PD November 10, 2010

Reviewer/Date: 11/11/10

Matrix: Water

BFB ID: BFB1110

Standard ID: HSL1110A, GAS1110A

Mid and end gas: GAS1110B, GAS1110C

NCM #: None

I: 8260B Criteria

	Initiated	Reviewed
Log Book page included and filled out.	☑	☑
CCV compared to correct ICAL.	☑	☑
Tune documentation is present and meets criteria.	☑	☑
Manual re-integrations are checked, initialed and hardcopies included.	☑	☐
Retention time correct for Isomers and all other analytes.	☑	☑
CCV Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Samples analyzed within 12 hours of Tune time.	☑	☑
Minimum SPCC RRF and CCC %D criteria met.	☑	☑
Analytes using same quantitation mass and close elution times checked.		

Mass	Target ID#	Analytes	Initiated	Reviewed
101	13, 15	Trichlorofluoromethane & Trichlorotrifluoroethane	☑	☑
96	17, 26, 35	1,1-Dichloroethene, trans-1,2-Dichloroethene & cis-1,2-Dichloroethene	☑	☑
43	31, 38	Vinyl Acetate & 2-Butanone	☑	☑
78	44, 47	Benzene & 1,1-Dichloropropene	☑	☑
106, 104	71, 72, 73	Xylenes (m,p) & Xylene (o) & Styrene	☑	☑
105	75, 82, 85, 86	Isopropylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene & Sec-Butylbenzene	☑	☑
146	87, 89, 91	1,3-Dichlorobenzene, 1,4-dichlorobenzene & 1,2-Dichlorobenzene	☑	☑
91	79, 81, 83, 90	N-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene & N-Butylbenzene	☑	☑
180	93, 96	1,2,4-Trichlorobenzene & 1,2,3-Trichlorobenzene	☑	☑

II: AFCEE 3.1, 4.0, and DOD QSM V4 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	☑	☑
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☑	☑

III: DOD QSM V3 Criteria

	Initiated	Reviewed
CCCs must be ≤ 20% D.	☑	☑
RRFs for SPCCs must meet minimum response factor criteria	☑	☑
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☑	☑

IV: Gas Criteria

	Initiated	Reviewed
CCV and alternate level must be < 15% D. **(20%D for AK101)**	☑	☑
CCV compared to correct ICAL.	☑	☑
Window Defining Mix is present and retention times are correct.	☑	☑

V: Analytes Over 20%D (Write compound and %D)

1,4-Dioxane @ -25%D (OK, problematic compound for QSM V4.1 and NCI for A4CQKBA)
Mid gas failed high, all samples need to be rerun for gas.

TestAmerica West Sacramento
GC/MS VOA INSTRUMENT LOG

Page# 9

8260B / Gas

SOP : WS-MS-0007 Rev# 4.2

Standard ID's

BFB-50	10MSV0086	8260-IS 10MSV0505	8260-SURR 10MSV0503
TCLA	10MSV0492	TCLA SS 10MSV0473	TFT-SURR 10MSV0502
TCLB	10MSV0497	TCLB SS 10MSV0444	
Odd #1	10MSV0493	Odd #1 ss 10MSV0467	WDM 10MSV0012
Odd #2	10MSV0494	Odd #2 SS 10MSV0468	Gasoline (ps) 10MSV0507
VA	10MSV0498	VA SS 10MSV0446	Gasoline (ss) 10MSV0482
AP9A	10MSV0416	AP9A SS 10MSV0409	
AP9B	10MSV0419	AP9B SS 10MSV0422	Gasoline Stock 10MSV0506
ACRLN	10MSV0510	ACRLN SS 10MSV0511	**Second Source used for ICV only**

Inst ID : HP10.i
Batch ID : 111010.B
Matrix : WATER
Level : LOW
Name/date: DD/11-11-10

Gas Key: 1=CA-LUFT 2=8015-Mod(C6-C12)
3=AK101 4=NW-TPH
5=Other (C 6 -C 10)

HSL ICAL# 110410 GAS ICAL# 110410 AP9 ICAL# na

Batch#	0315349	0315353	0315361	0315363
	8260B[✓] Gas[ ]	8260B[ ] Gas[5]	8260B[✓] Gas[ ]	8260B[ ] Gas[1]
Lot(s)#	566	566	451	451
Lot(s)#	–	–	–	–
QC WO#	L9XAX1AA,AC/AD	L9XCA1AA,AC/AD	L9XDX1AA/AC	L9XD51AA/AC

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
10-NOV-2010	08:42	PD	TVPH WDM	WDM111A.D	5 mL	50			
10-NOV-2010	09:03	PD	COB	COB01.D	5 mL	51			
10-NOV-2010	09:30	PD	50ng BFB 1ul di	BFB1110.D	0 mL	1			
10-NOV-2010	09:47	PD	GAS 500	GAS1110.D	5 mL	1			NOT USED
10-NOV-2010	10:08	PD	HSL 20	HSL1110..	5 mL	2			NOT USED
10-NOV-2010	10:30	PD	GAS 500	GAS1110A.	5 mL	3			OK
10-NOV-2010	10:52	PD	HSL 20	HSL1110A.	5 mL	4			OK
10-NOV-2010	11:14	PD	LCS hsl 102610	D1026M.D	5 g	5			OK
10-NOV-2010	11:36	PD	LCS gas 102610	G1026M.D	5 g	6			OK RR CCV failed
10-NOV-2010	11:58	PD	L84FD1EE G0J260451-4S	SA111001.	4.95 g	7			OK
10-NOV-2010	12:20	PD	L84FD1EF G0J260451-4D	SA111002.	4.95 g	8			OK
10-NOV-2010	12:43	PD	L84FD1EG G0J260451-4S	SA111003.	5.33 g	9			OK RR CCV failed
10-NOV-2010	13:05	PD	L84FD1EH G0J260451-4D	SA111004.	5.33 g	10			OK RR CCV failed
10-NOV-2010	13:27	PD	LCS hsl 111010	D1110M.D	5 g	11			OK
10-NOV-2010	13:49	PD	LCS hsl 111010	D1110MA.D	5 g	12			OK
10-NOV-2010	14:11	PD	LCS gas 111010	G1110M.D	5 g	13			RR CCV failed
10-NOV-2010	14:33	PD	LCS gas 111010	G1110MA.D	5 g	14			RR CCV failed
10-NOV-2010	14:56	PD	COB	COB02.D	5 mL	15			
10-NOV-2010	15:18	PD	VBLNK MeOH 102610	W1026M.D	5 g	16			OK RR for gas
10-NOV-2010	15:40	PD	VBLNK MeOH 111010	W1110M.D	5 g	17			OK RR for gas
10-NOV-2010	16:02	PD	L84FD1EC G0J260451-4 1X	SA111005.	4.6 g	18			NOT USED
10-NOV-2010	16:24	PD	L9CEH1AD G0J290566-2 1X	SA111006.	5.231 g	19			↓ SURR RR to confirm
10-NOV-2010	16:46	PD	L9CER1AD G0J290566-4 1X	SA111007.	4.035 g	20			↓ SURR RR to confirm
10-NOV-2010	17:08	PD	L84FD1EC G0J260451-4r 1X	SA111008.	4.6 g	18			NOT USED
10-NOV-2010	17:30	PD	L9CEX1AD G0J290566-6 1X	SA111009.	5.162 g	21			↓ SURR RR to confirm
10-NOV-2010	17:53	PD	L84EX1CC G0J260451-1 1X	SA111010.	3.78 g	22			OK RR for gas
10-NOV-2010	18:15	PD	L84E91CC G0J260451-2 1X	SA111011.	5.29 g	23			OK RR for gas
10-NOV-2010	18:37	PD	L84FA1CC G0J260451-3 1X	SA111012.	4.32 g	24			OK RR for gas
10-NOV-2010	18:59	PD	L84FF1CC G0J260451-5 1X	SA111013.	5.49 g	25			OK RR for gas
10-NOV-2010	19:21	PD	L84FL1CC G0J260451-7 1X	SA111014.	5.32 g	26			↓ BFB RR to confirm + gas
10-NOV-2010	19:42	PD	GAS 1000	GAS1110B.	5 mL	28			CCV failed high
10-NOV-2010	20:04	PD	COB	COB03.D	5 mL	29			

Sequence continued on next page

TestAmerica West Sacramento

GC/MS VOA INSTRUMENT LOG

Page# 10

Page 2 of Batch 111010.B on Instrument HP10.I

For header information, refer to the first page of this batch's log.

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
10-NOV-2010	20:26	PD	L84FN1CC G0J260451-8 1X	SA111015.	5.98 g	27			↓ surrogate RR
10-NOV-2010	20:48	PD	L84FQ1CC G0J260451-9 1X	SA111016.	4.42 g	30			↓ surrogate RR
10-NOV-2010	21:10	PD	L84FR1CC G0J260451-10 1X	SA111017.	6.29 g	31			OK RR for gas
10-NOV-2010	21:32	PD	GAS 500	GAS1110C.	5 mL	33			OK
10-NOV-2010	21:54	PD	COB	COB04.D	5 mL	34			
10-NOV-2010	22:16	PD	COB	COB05.D	5 mL	35			

TestAmerica

Data file : \\terastation\share\VOAdata\HP10.I\111010.B\BFB1110.D
Lab Smp Id: bfb
Inj Date : 10-NOV-2010 09:30
Operator : PD Inst ID: HP10.i
Smp Info : 50ng BFB 1ul di;PD
Misc Info : 1;WATER;0;all.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\111010.B\390BFB10.m
Meth Date : 13-Oct-2010 14:52 dibbsp Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000 PD
Integrator: HP RTE Compound Sublist: 3_BFB.sub
Target Version: 4.14 111010 Sample Matrix: WATER
Processing Host: SACPC

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb10						CAS #: 460-00-4		
3.338	3.338	(0.000)	95	1081344			0.00- 100.00	87.49
3.338	3.338	(0.000)	50	178624			15.00- 40.00	16.52
3.338	3.338	(0.000)	75	483008			30.00- 60.00	44.67
3.338	3.338	(0.000)	96	73032			5.00- 9.00	6.75
3.338	3.338	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
3.338	3.338	(0.000)	174	1235968			50.00- 0.00	114.30
3.338	3.338	(0.000)	175	86792			5.00- 9.00	7.02
3.338	3.338	(0.000)	176	1198592			95.00- 101.00	96.98
3.338	3.338	(0.000)	177	79336			5.00- 9.00	6.62

Data File: \\terastation\share\VOAdata\HP10.I\111010.B\BFB1110.D

Date : 10-NOV-2010 09:30

Client ID:

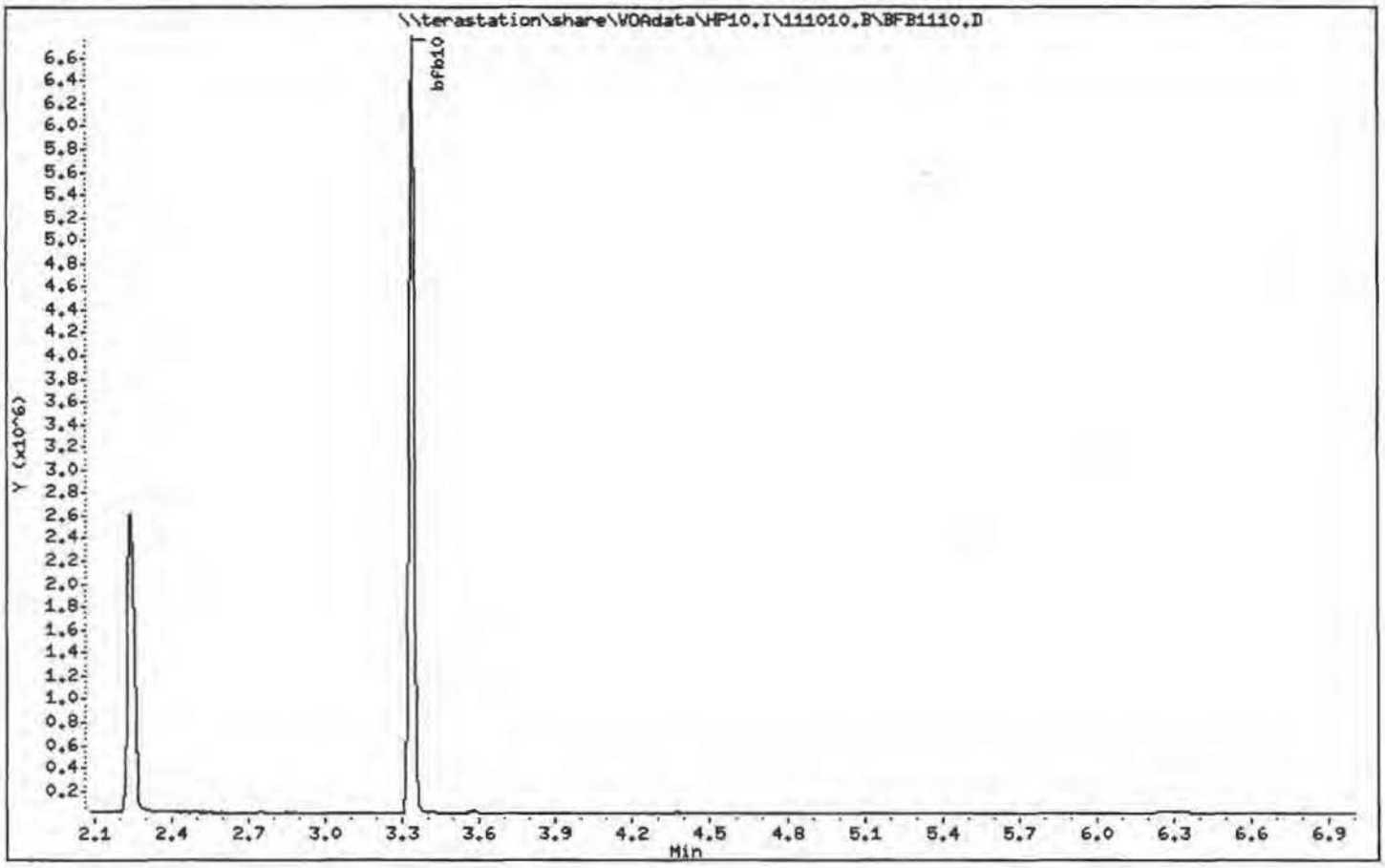
Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00



Data File: \\terastation\share\VOAdata\HP10.I\111010.B\BFB1110.D

Date : 10-NOV-2010 09:30

Client ID:

Instrument: HP10.i

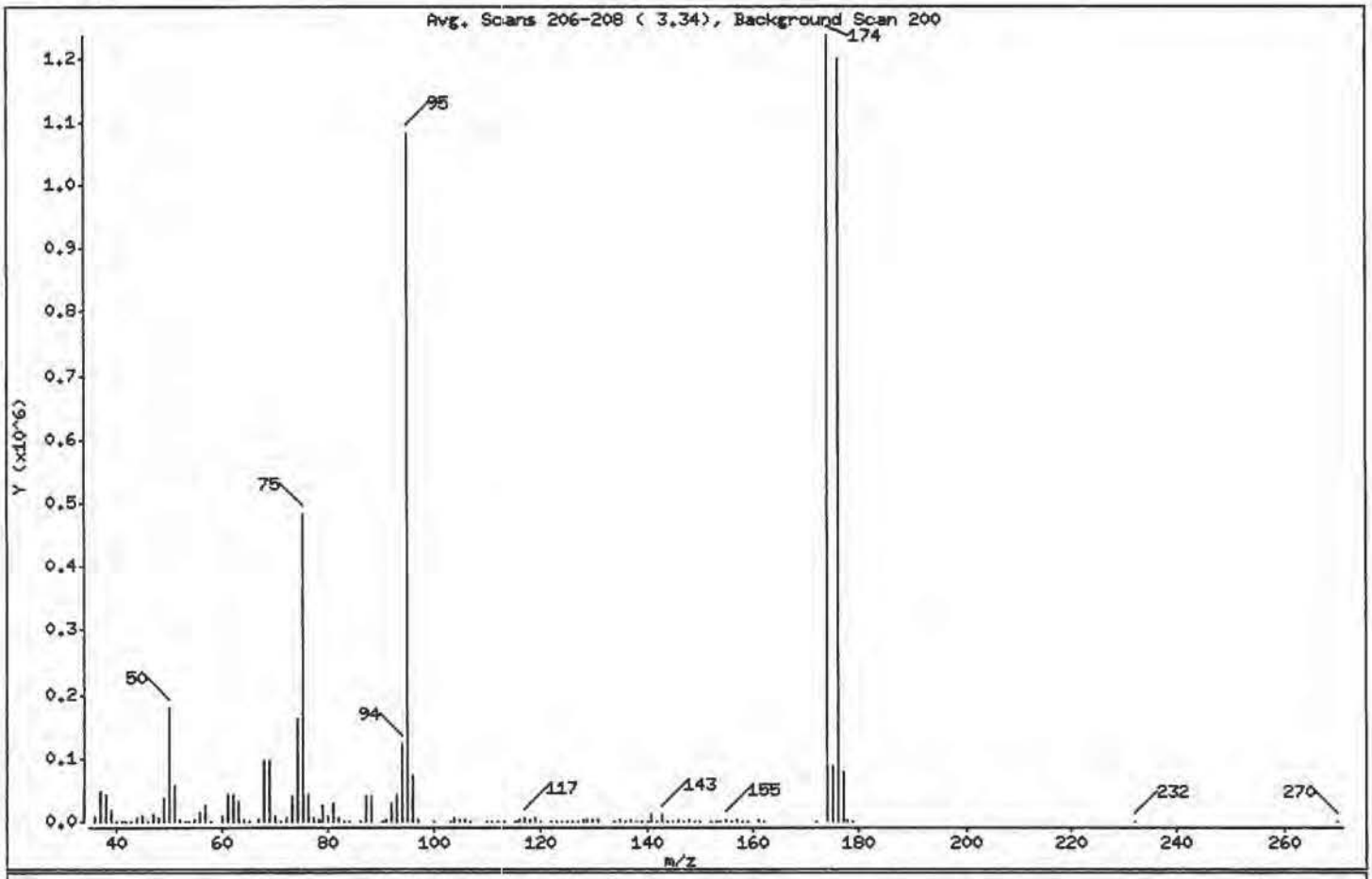
Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

1 bfb10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.52
75	30.00 - 60.00% of mass 95	44.67
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	114.30
175	5.00 - 9.00% of mass 174	8.03 (7.02)
176	95.00 - 101.00% of mass 174	110.84 (96.98)
177	5.00 - 9.00% of mass 176	7.34 (6.62)

Data File: \\terastation\share\VOAdata\HP10.I\111010.B\BFB1110.D

Date : 10-NOV-2010 09:30

Client ID:

Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

Data File: BFB1110.D
Spectrum: Avg. Scans 206-208 (3.34), Background Scan 200
Location of Maximum: 174.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7945	69.00	96240	106.00	4195	143.00	11898
37.00	46992	70.00	7718	107.00	1003	144.00	743
38.00	42608	71.00	300	110.00	840	145.00	955
39.00	16448	72.00	4574	111.00	1006	146.00	1957
40.00	524	73.00	39872	112.00	721	147.00	818
41.00	2	74.00	162048	113.00	928	148.00	2779
42.00	272	75.00	483008	115.00	1169	149.00	927
43.00	373	76.00	42320	116.00	3896	150.00	1415
44.00	5228	77.00	5201	117.00	6618	152.00	560
45.00	7389	78.00	3638	118.00	4144	153.00	954
46.00	882	79.00	26720	119.00	5307	154.00	754
47.00	12505	80.00	8034	120.00	185	155.00	3484
48.00	5254	81.00	28440	122.00	355	156.00	475
49.00	37600	82.00	5877	123.00	258	157.00	2216
50.00	178624	83.00	673	124.00	792	158.00	68
51.00	55672	84.00	89	125.00	291	159.00	1258
52.00	2216	86.00	896	126.00	580	161.00	1552
53.00	78	87.00	40088	127.00	318	162.00	168
54.00	74	88.00	38704	128.00	3633	172.00	406
55.00	1736	90.00	68	129.00	2028	174.00	1235968
56.00	13659	91.00	3650	130.00	4193	175.00	86792
57.00	26624	92.00	28832	131.00	1427	176.00	1198592
58.00	1057	93.00	42504	134.00	245	177.00	79336
60.00	7690	94.00	123504	135.00	2079	178.00	2039
61.00	42944	95.00	1081344	136.00	355	179.00	79
62.00	43128	96.00	73032	137.00	2155	232.00	96
63.00	32488	97.00	2152	138.00	97	270.00	78
64.00	3029	100.00	276	139.00	449		
65.00	145	103.00	452	140.00	294		
67.00	2539	104.00	4404	141.00	10647		
68.00	97856	105.00	1754	142.00	1126		

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i Injection Date: 10-NOV-2010 10:52
Lab File ID: HSL1110A.D Init. Cal. Date(s): 13-OCT-2010 05-NOV-2010
Analysis Type: WATER Init. Cal. Times: 20:20 15:23 PD
Lab Sample ID: HSL 20 Quant Type: ISTD
Method: \\Terastation\share\VOAData\HP10.I\111010.b\8260ALOW.m 111010

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.26246	0.25598	0.25598	0.010	-2.46855	40.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.29043	0.27390	0.27390	0.010	-5.69364	40.00000	Averaged	
$ 6 Toluene-d8	0.92734	0.88029	0.88029	0.010	-5.07371	40.00000	Averaged	
$ 7 4-Bromofluorobenzene	0.43050	0.39936	0.39936	0.010	-7.23387	40.00000	Averaged	
$ 136 Trifluorotoluene	0.50374	0.00100	0.00100	0.010	-100	40.00000	Averaged	<-
8 Dichlorodifluoromethane	0.22376	0.23775	0.23775	0.010	6.25514	40.00000	Averaged	
9 Chloromethane (**)	0.26120	0.26022	0.26022	0.100	-0.37733	40.00000	Averaged	
10 Vinyl Chloride (*)	0.26870	0.26762	0.26762	0.010	-0.40310	20.00000	Averaged	
11 Bromomethane	0.19001	0.19014	0.19014	0.010	0.06581	40.00000	Averaged	
12 Chloroethane	0.16585	0.17101	0.17101	0.010	3.11026	40.00000	Averaged	
13 Trichlorofluoromethane	0.32885	0.33918	0.33918	0.010	3.14164	40.00000	Averaged	
15 Trichlorotrifluoroethane	0.19864	0.20658	0.20658	0.010	3.99795	40.00000	Averaged	
17 1,1-Dichloroethene(*)	0.20178	0.20863	0.20863	0.010	3.39192	20.00000	Averaged	
18 Acetone	0.15241	0.12382	0.12382	0.010	-18.75799	40.00000	Averaged	
21 Carbon disulfide	0.68728	0.69326	0.69326	0.010	0.86939	40.00000	Averaged	
31 Vinyl acetate	0.59198	0.70101	0.70101	0.010	18.41868	40.00000	Averaged	
22 Methylene Chloride	0.25236	0.25615	0.25615	0.010	1.49899	40.00000	Averaged	
23 t-Butanol	0.06947	0.05559	0.05559	0.001	-19.97586	40.00000	Averaged	
25 Methyl-t-butyl-ether	0.65171	0.64749	0.64749	0.010	-0.64798	40.00000	Averaged	
26 trans-1,2-Dichloroethene	0.26441	0.27549	0.27549	0.010	4.18787	40.00000	Averaged	
27 Acrylonitrile	0.15870	0.16723	0.16723	0.010	5.37117	40.00000	Averaged	
30 1,1-Dichloroethane (**)	0.41892	0.44573	0.44573	0.100	6.40016	40.00000	Averaged	
33 2,2-Dichloropropane	0.29055	0.30926	0.30926	0.010	6.44023	40.00000	Averaged	
35 cis 1,2-Dichloroethene	0.28059	0.30017	0.30017	0.010	6.97637	40.00000	Averaged	
38 2-Butanone	0.26996	0.25339	0.25339	0.010	-6.13530	40.00000	Averaged	
40 Bromochloromethane	0.15560	0.16380	0.16380	0.010	5.26830	40.00000	Averaged	
41 Chloroform (*)	0.41467	0.44551	0.44551	0.010	7.43741	20.00000	Averaged	
42 1,1,1-Trichloroethane	0.35264	0.36742	0.36742	0.010	4.19199	40.00000	Averaged	
43 Carbon Tetrachloride	0.31261	0.32674	0.32674	0.010	4.52216	40.00000	Averaged	
44 1,1-Dichloropropene	0.33088	0.34633	0.34633	0.010	4.67199	40.00000	Averaged	
47 Benzene	1.01763	1.05746	1.05746	0.010	3.91423	40.00000	Averaged	
48 1,2-Dichloroethane	0.33760	0.36110	0.36110	0.010	6.96155	40.00000	Averaged	
49 Trichloroethene	0.26267	0.26853	0.26853	0.010	2.23235	40.00000	Averaged	
51 1,2-Dichloropropane(*)	0.22717	0.23939	0.23939	0.010	5.37799	20.00000	Averaged	
52 Dibromomethane	0.16684	0.17051	0.17051	0.010	2.20014	40.00000	Averaged	
53 1,4-Dioxane	500	375	0.00344	0.000	-24.92112	40.00000	Quadratic	
54 Bromodichloromethane	0.29625	0.30654	0.30654	0.010	3.47083	40.00000	Averaged	
55 2-Chloroethyl vinyl ether	0.16305	0.17812	0.17812	0.010	9.24294	40.00000	Averaged	
56 cis-1,3-Dichloropropene (xt	0.37635	0.39473	0.39473	0.010	4.88320	40.00000	Averaged	
57 4-Methyl-2-pentanone	0.41663	0.44251	0.44251	0.010	6.21079	40.00000	Averaged	
58 Toluene (*)	0.65380	0.68442	0.68442	0.010	4.68425	20.00000	Averaged	
60 trans-1,3-Dichloropropene(x	0.33920	0.36034	0.36034	0.010	6.23224	40.00000	Averaged	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: HSL1110A.D
Analysis Type: WATER
Lab Sample ID: HSL 20
Injection Date: 10-NOV-2010 10:52
Init. Cal. Date(s): 13-OCT-2010 05-NOV-2010
Init. Cal. Times: 20:20 15:23
Quant Type: ISTD
Method: \\Terastation\share\VOAData\HP10.I\111010.b\8260ALOW.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
61 1,1,2-Trichloroethane	0.24017	0.25365	0.25365	0.010	5.61194	40.00000	Averaged
62 Tetrachloroethene	0.40391	0.44478	0.44478	0.010	10.11783	40.00000	Averaged
63 1,3-Dichloropropane	0.49813	0.54698	0.54698	0.010	9.80655	40.00000	Averaged
64 2-Hexanone	0.38548	0.41760	0.41760	0.010	8.33280	40.00000	Averaged
65 Dibromochloromethane	0.30878	0.33216	0.33216	0.010	7.57209	40.00000	Averaged
66 1,2-Dibromoethane	0.31271	0.34925	0.34925	0.010	11.68508	40.00000	Averaged
67 1-Chlorohexane	0.41422	0.43762	0.43762	0.010	5.65058	40.00000	Averaged
68 Chlorobenzene (**)	0.85813	0.93668	0.93668	0.300	9.15343	40.00000	Averaged
69 Ethylbenzene (*)	0.44359	0.50034	0.50034	0.010	12.79207	20.00000	Averaged
70 1,1,1,2-Tetrachloroethane	0.29143	0.32922	0.32922	0.010	12.96738	40.00000	Averaged
71 Xylenes (m,p)	0.56199	0.64121	0.64121	0.010	14.09611	40.00000	Averaged
72 Xylene (o)	0.53583	0.61318	0.61318	0.010	14.43649	40.00000	Averaged
73 Styrene	0.90791	1.00193	1.00193	0.010	10.35543	40.00000	Averaged
74 Bromoform (**)	20.00000	19.45137	0.26400	0.100	-2.74316	40.00000	Quadratic
75 Isopropylbenzene	1.27241	1.44497	1.44497	0.010	13.56135	40.00000	Averaged
77 Bromobenzene	0.73265	0.77505	0.77505	0.010	5.78640	40.00000	Averaged
78 1,1,2,2-Tetrachloroethane(*	0.72093	0.77557	0.77557	0.300	7.57934	40.00000	Averaged
79 N-Propylbenzene	2.66536	2.97543	2.97543	0.010	11.63306	40.00000	Averaged
80 1,2,3-Trichloropropane	0.28865	0.30673	0.30673	0.010	6.26477	40.00000	Averaged
81 2-Chlorotoluene	1.62210	1.73767	1.73767	0.010	7.12506	40.00000	Averaged
82 1,3,5-Trimethylbenzene	1.88883	2.11336	2.11336	0.010	11.88768	40.00000	Averaged
83 4-Chlorotoluene	1.85113	2.06653	2.06653	0.010	11.63619	40.00000	Averaged
84 T-Butylbenzene	1.78614	1.97659	1.97659	0.010	10.66233	40.00000	Averaged
85 1,2,4-Trimethylbenzene	1.91538	2.15824	2.15824	0.010	12.67954	40.00000	Averaged
86 Sec-Butylbenzene	2.48026	2.73235	2.73235	0.010	10.16373	40.00000	Averaged
87 1,3-Dichlorobenzene	1.25502	1.36268	1.36268	0.010	8.57898	40.00000	Averaged
88 P-Isopropyltoluene	2.13056	2.39904	2.39904	0.010	12.60169	40.00000	Averaged
89 1,4-Dichlorobenzene	1.32162	1.38843	1.38843	0.010	5.05519	40.00000	Averaged
90 N-Butylbenzene	1.72708	1.93225	1.93225	0.010	11.87939	40.00000	Averaged
91 1,2-Dichlorobenzene	1.21337	1.29321	1.29321	0.010	6.57998	40.00000	Averaged
92 1,2-Dibromo-3-chloropropane	20.00000	18.89744	0.13141	0.010	-5.51281	40.00000	Quadratic
93 1,2,4-Trichlorobenzene	20.00000	20.32513	0.85545	0.010	1.62564	40.00000	Quadratic
94 Hexachlorobutadiene	0.46789	0.50807	0.50807	0.010	8.58930	40.00000	Averaged
95 Naphthalene	20.00000	18.66357	2.01905	0.010	-6.68217	40.00000	Quadratic
96 1,2,3-Trichlorobenzene	20.00000	19.13828	0.69350	0.010	-4.30859	40.00000	Quadratic
M 97 1,2-Dichloroethene (Total)	0.27250	0.28783	0.28783	0.010	5.62368	40.00000	Averaged
M 98 Xylenes (Total)	0.55327	0.63187	0.63187	0.010	14.20603	40.00000	Averaged

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i Injection Date: 10-NOV-2010 10:52
Lab File ID: HSL1110A.D Init. Cal. Date(s): 13-OCT-2010 05-NOV-2010
Analysis Type: WATER Init. Cal. Times: 20:20 15:23
Lab Sample ID: HSL 20 Quant Type: ISTD
Method: \\Terastation\share\VOAData\HP10.I\111010.b\8260ALOW.m

```
|Average %D / Drift Results.                    |
|===============================================|
|Calculated Average %D/Drift =    8.59066       |
|Maximun Average %D/Drift    =   15.00000       |
|* Passed Average %D/Drift Test.                |
|_______________________________________________|
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8260/GAS/AP9 CCV Checklist

Instrument:HP10

ICAL Date: HSL110410, GAS110410

Initiator/ Date: PD November 11, 2010

Reviewer/Date: 11/12/10

Matrix: Water

BFB ID: BFB1111

Standard ID: HSL1111, GAS1111

Mid and end gas: GAS1110~~A~~B, GAS1110~~B~~C PD 11/12

NCM #: None

I: 8260B Criteria

	Initiated	Reviewed
Log Book page included and filled out.	☑	☑
CCV compared to correct ICAL.	☑	☑
Tune documentation is present and meets criteria.	☑	☑
Manual re-integrations are checked, initialed and hardcopies included.	☑	☑
Retention time correct for Isomers and all other analytes.	☑	☑
CCV Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Samples analyzed within 12 hours of Tune time.	☑	☑
Minimum SPCC RRF and CCC %D criteria met.	☑	☑
Analytes using same quantitation mass and close elution times checked.		

Mass	Target ID#	Analytes		
101	13, 15	Trichlorofluoromethane & Trichlorotrifluoroethane	☑	☑
96	17, 26, 35	1,1-Dichloroethene, trans-1,2-Dichloroethene & cis-1,2-Dichloroethene	☑	☑
43	31, 38	Vinyl Acetate & 2-Butanone	☑	☑
78	44, 47	Benzene & 1,1-Dichloropropene	☑	☑
106, 104	71, 72, 73	Xylenes (m,p) & Xylene (o) & Styrene	☑	☑
105	75, 82, 85, 86	Isopropylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene & Sec-Butylbenzene	☑	☑
146	87, 89, 91	1,3-Dichlorobenzene, 1,4-dichlorobenzene & 1,2-Dichlorobenzene	☑	☑
91	79, 81, 83, 90	N-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene & N-Butylbenzene	☑	☑
180	93, 96	1,2,4-Trichlorobenzene & 1,2,3-Trichlorobenzene	☑	☑

II: AFCEE 3.1, 4.0, and DOD QSM V4 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	☑	☑
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☑	☑

III: DOD QSM V3 Criteria

	Initiated	Reviewed
CCCs must be ≤ 20% D.	N/A	☐
RRFs for SPCCs must meet minimum response factor criteria	☐	☐
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	☐	N/A ☐
Are the compounds which required manual integrations documented in the MI spreadsheet?	☐	☐

IV: Gas Criteria

	Initiated	Reviewed
CCV and alternate level must be < 15% D. **(20%D for AK101)**	☑	☑
CCV compared to correct ICAL.	☑	☑
Window Defining Mix is present and retention times are correct.	☑	☑

V: Analytes Over 20%D (Write compound and %D)

None

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GC/MS VOA INSTRUMENT LOG

Page# 11

8260B / Gas

SOP : WS-MS-0007 Rev# 4.2

Standard ID's

BFB-50	10MSV0086	8260-IS	10MSV0505	8260-SURR	10MSV0503
TCLA	10MSV0492	TCLA SS	10MSV0473	TFT-SURR	10MSV0502
TCLB	10MSV0497	TCLB SS	10MSV0444		
Odd #1	10MSV0493	Odd #1 ss	10MSV0467	WDM	10MSV0012
Odd #2	10MSV0494	Odd #2 SS	10MSV0468	Gasoline (ps)	10MSV0507
VA	10MSV0498	VA SS	10MSV0446	Gasoline (ss)	10MSV0482
AP9A	10MSV0416	AP9A SS	10MSV0409		
AP9B	10MSV0419	AP9B SS	10MSV0422	Gasoline Stock	10MSV0506
ACRLN	10MSV0510	ACRLN SS	10MSV0511	**Second Source used for ICV only**	

Inst ID : HP10.i
Batch ID : 111110.B
Matrix : WATER
Level : LOW
Name/date: PD/ 11-12-10

Gas Key: 1=CA-LUFT 2=8015-Mod(C6-C12) 3=AK101 4=NW-TPH 5=Other (C___-C___)

HSL ICAL# 110410 GAS ICAL# 110410 AP9 ICAL# na

Batch#	0315349	0315353	0315361	0315363
8260B[✓] Gas[ ]	8260B[ ] Gas[5]	8260B[ ] Gas[ ]	8260B[ ] Gas[1]	8260B[ ] Gas[ ]
Lot(s)#	566	566	451	451
Lot(s)#	–	–	–	–
QC WO#	L9XAX1AA AC,AD	L9XCA1AA,AC,AD	L9XDX1AA ACAD	L9XD51AA AC,AD

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
11-NOV-2010	07:51	PD	TVPH WDM	WDM111.D	5 mL	50			
11-NOV-2010	08:32	PD	COB	COB01.D	5 mL	51			
11-NOV-2010	08:53	PD	50ng BFB 1ul di	BFB1111.D	0 mL	1			
11-NOV-2010	09:04	PD	GAS 500	GAS1111.D	5 mL	1			
11-NOV-2010	09:26	PD	HSL 20	HSL1111.D	5 mL	2			
11-NOV-2010	09:48	PD	LCS gas 102610	G1026M.D	5 g	3			
11-NOV-2010	10:10	PD	LCS gas 111010	G1110M.D	5 g	4			
11-NOV-2010	10:32	PD	LCS gas 111010	G1110MA.D	5 g	5			
11-NOV-2010	10:54	PD	COB	COB02.D	5 mL	6			
11-NOV-2010	11:16	PD	VBLNK MeOH 102610	W1026M.D	5 g	7			
11-NOV-2010	11:39	PD	VBLNK MeOH 111010	W1110M.D	5 g	8			
11-NOV-2010	12:01	PD	L9CEH1AD G0J290566-2 1X	SA111103.	5.231 g	9			OK
11-NOV-2010	12:23	PD	L9CER1AD G0J290566-4 1X	SA111104.	4.035 g	10			↓SURR confirms prev. run.
11-NOV-2010	12:45	PD	L9CEX1AD G0J290566-6 1X	SA111105.	5.162 g	11			OK
11-NOV-2010	13:07	PD	L84FT1CC G0J260451-11 1X	SA111106.	6 g	12			OK
11-NOV-2010	13:29	PD	L84FV1CC G0J260451-12 1X	SA111107.	4.88 g	13			OK
11-NOV-2010	13:51	PD	L84FW1CC G0J260451-13 1X	SA111108.	5.41 g	14			OK
11-NOV-2010	14:13	PD	L84EX1CD G0J260451-1 1X	SA111109.	3.78 g	15			OK
11-NOV-2010	14:36	PD	L84E91CC G0J260451-2 1X	SA111110.	5.29 g	16			OK
11-NOV-2010	14:58	PD	L84FA1CC G0J260451-3 1X	SA111111.	4.32 g	17			OK
11-NOV-2010	15:20	PD	L84FF1CC G0J260451-5 1X	SA111112.	5.49 g	22			↓ SURR RR TO confirm
11-NOV-2010	15:42	PD	COB	COB03.D	5 mL	19			
11-NOV-2010	16:04	PD	GAS 1000	GAS1111A.	5 mL	20			MISSPIKE
11-NOV-2010	16:26	PD	COB	COB04.D	5 mL	21			
11-NOV-2010	16:49	PD	GAS 1000	GAS1111B.	5 mL	22			OK
11-NOV-2010	17:11	PD	COB	COB05.D	5 mL	23			
11-NOV-2010	17:33	PD	L84FL1CC G0J260451-7 1X	SA111113.	5.32 g	24			↓ SURR ~~RR~~ RR12 confirms prev. run
11-NOV-2010	17:55	PD	L84FN1CC G0J260451-8 1X	SA111114.	5.98 g	25			↓SURR confirms prev. run
11-NOV-2010	18:17	PD	L84FQ1CC G0J260451-9 1X	SA111115.	4.42 g	26			OK
11-NOV-2010	18:39	PD	L84FR1CC G0J260451-10 1X	SA111116.	6.29 g	27			OK
11-NOV-2010	19:01	PD	L84FF1CC G0J260451-5r 1X	SA111117.	5.49 g	28			OK
11-NOV-2010	19:23	PD	COB	COB06.D	5 mL	29			

Sequence continued on next page

TestAmerica West Sacramento

GC/MS VOA INSTRUMENT LOG

Page# 12

Page 2 of Batch 111110.B on Instrument HP10.I

For header information, refer to the first page of this batch's log.

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
11-NOV-2010	19:45	PD	GAS 500	GAS1111C.	5 mL	30			OK

TestAmerica

Data file : \\terastation\share\VOAdata\HP10.I\111110.B\BFB1111.D
Lab Smp Id: bfb
Inj Date : 11-NOV-2010 08:53
Operator : PD Inst ID: HP10.i
Smp Info : 50ng BFB 1ul di;PD
Misc Info : 1;WATER;0;3_bfb.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\111110.B\390BFB10.m
Meth Date : 11-Nov-2010 07:43 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3_BFB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SACPC

PD
11/11/10

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb10						CAS #: 460-00-4		
3.338	3.338	(0.000)	95	1463296			0.00- 100.00	87.43
3.338	3.338	(0.000)	50	238016			15.00- 40.00	16.27
3.338	3.338	(0.000)	75	660928			30.00- 60.00	45.17
3.338	3.338	(0.000)	96	100520			5.00- 9.00	6.87
3.338	3.338	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
3.338	3.338	(0.000)	174	1673728			50.00- 0.00	114.38
3.338	3.338	(0.000)	175	113016			5.00- 9.00	6.75
3.338	3.338	(0.000)	176	1634816			95.00- 101.00	97.68
3.338	3.338	(0.000)	177	104208			5.00- 9.00	6.37

Data File: \\terastation\share\VOAdata\HP10.I\111110.B\BFB1111.D

Date : 11-NOV-2010 08:53

Client ID:

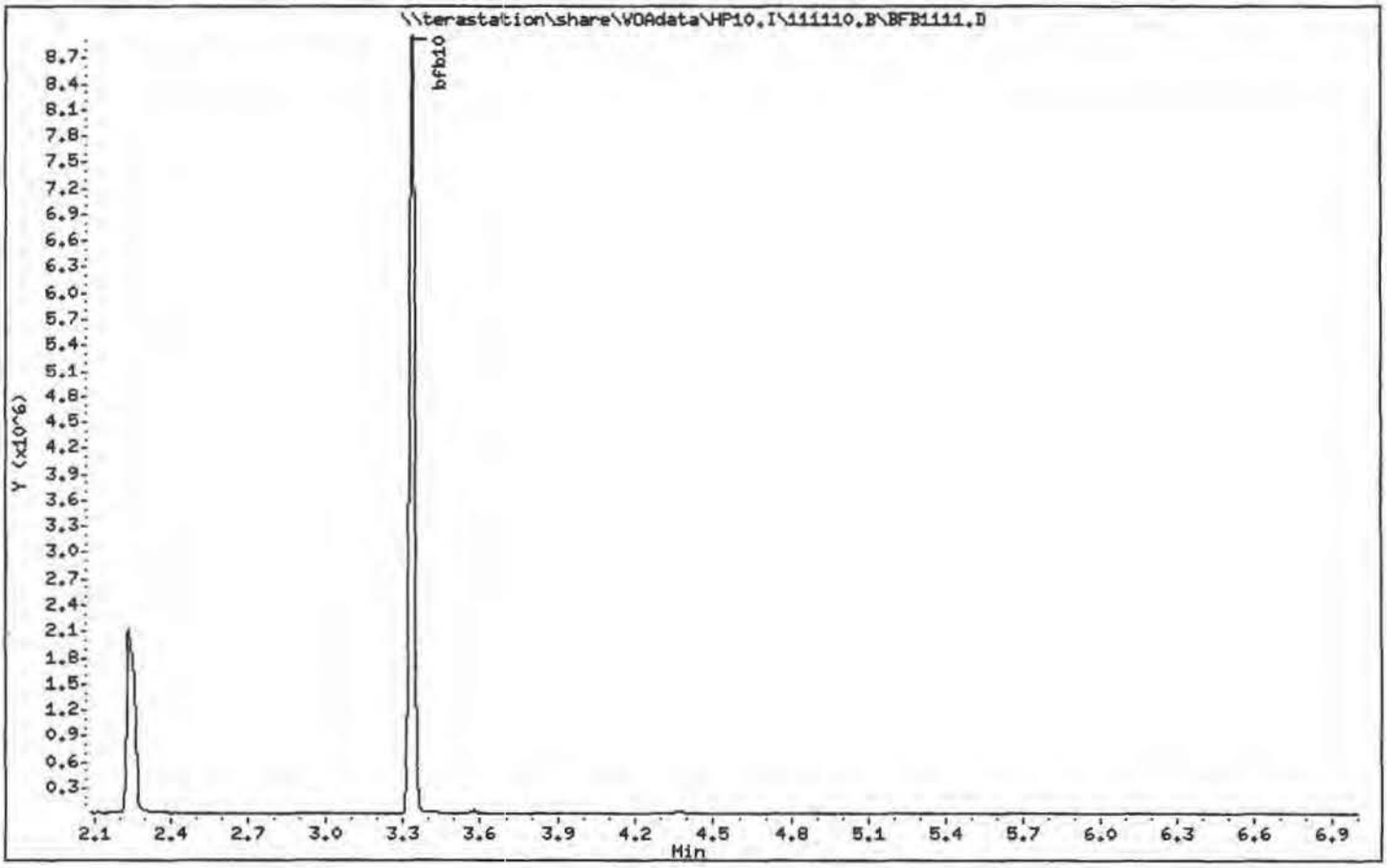
Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00



Data File: \\terastation\share\VOAdata\HP10.I\111110.B\BFB1111.D

Date : 11-NOV-2010 08:53

Client ID:

Instrument: HP10.i

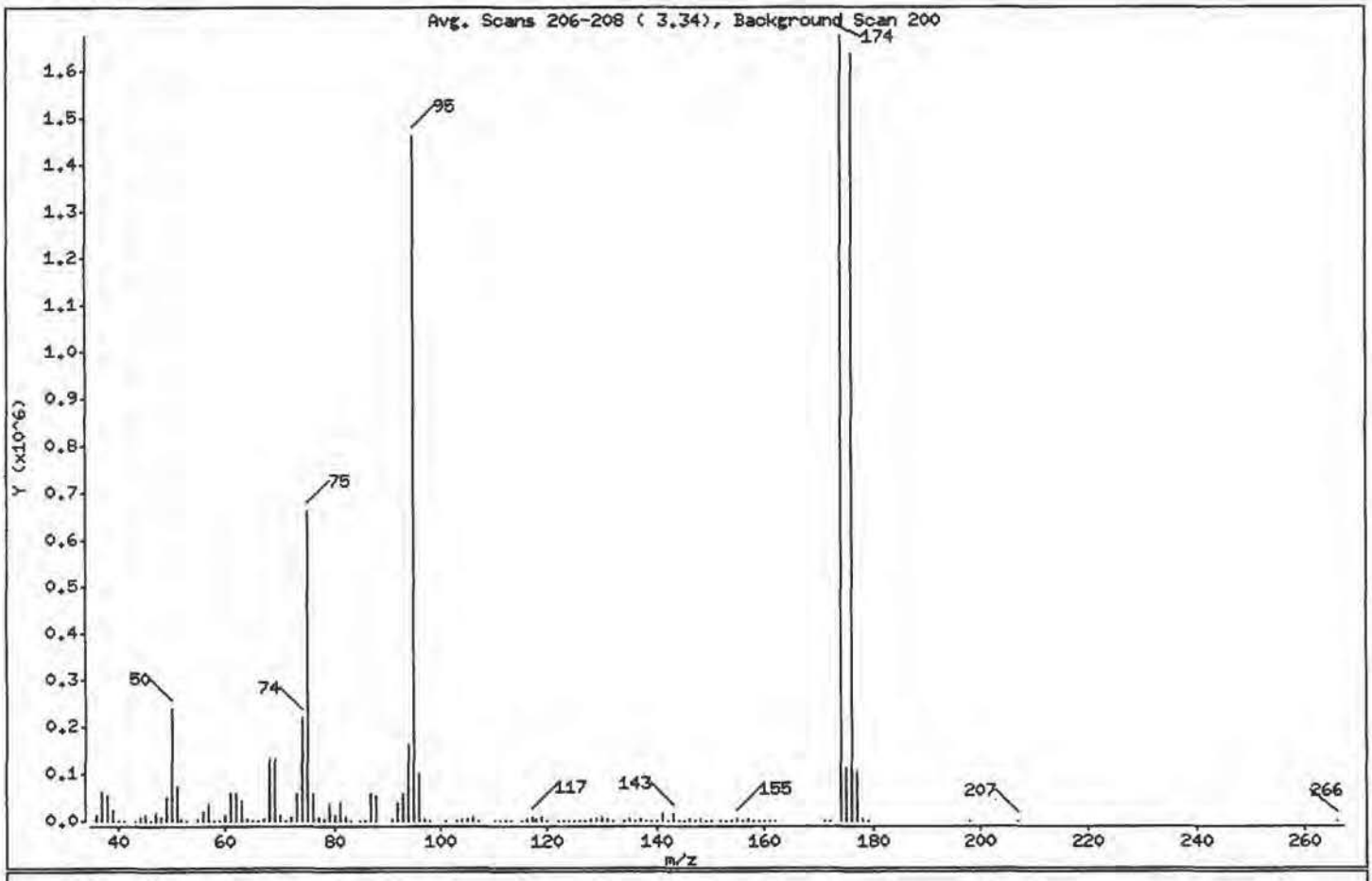
Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

1 bfb10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.27
75	30.00 - 60.00% of mass 95	45.17
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	114.38
175	5.00 - 9.00% of mass 174	7.72 (6.75)
176	95.00 - 101.00% of mass 174	111.72 (97.68)
177	5.00 - 9.00% of mass 176	7.12 (6.37)

Data File: \\terastation\share\VOAdata\HP10.I\111110.B\BFB1111.D

Date : 11-NOV-2010 08:53

Client ID:

Instrument: HP10.i

Sample Info: 50ng BFB 1ul di;PD

Operator: PD

Column phase:

Column diameter: 2.00

Data File: BFB1111.D
Spectrum: Avg. Scans 206-208 (3.34), Background Scan 200
Location of Maximum: 174.00
Number of points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10187	70.00	10536	110.00	844	145.00	1699
37.00	61952	71.00	481	111.00	1327	146.00	2203
38.00	55152	72.00	6471	112.00	1025	147.00	1148
39.00	22600	73.00	56200	113.00	1138	148.00	4109
40.00	128	74.00	218752	115.00	1726	149.00	1058
41.00	107	75.00	660928	116.00	4972	150.00	1424
43.00	447	76.00	56072	117.00	8785	152.00	853
44.00	7097	77.00	7169	118.00	5617	153.00	1502
45.00	10935	78.00	5209	119.00	8010	154.00	969
46.00	694	79.00	35248	120.00	177	155.00	3546
47.00	15756	80.00	11025	122.00	323	156.00	444
48.00	7684	81.00	37048	123.00	400	157.00	3074
49.00	49712	82.00	7835	124.00	922	158.00	227
50.00	238016	83.00	1282	125.00	549	159.00	1837
51.00	72728	85.00	91	126.00	789	160.00	104
52.00	3348	86.00	1220	127.00	529	161.00	1801
53.00	98	87.00	56256	128.00	4590	162.00	171
55.00	3368	88.00	52592	129.00	2299	171.00	77
56.00	18592	91.00	4115	130.00	5856	172.00	410
57.00	33048	92.00	38376	131.00	2000	174.00	1673728
58.00	1474	93.00	56584	132.00	211	175.00	113016
59.00	102	94.00	161408	134.00	339	176.00	1634816
60.00	10895	95.00	1463296	135.00	2769	177.00	104208
61.00	57088	96.00	100520	136.00	495	178.00	2930
62.00	57432	97.00	2676	137.00	2792	179.00	70
63.00	43560	98.00	407	138.00	165	198.00	72
64.00	3993	101.00	69	139.00	414	207.00	339
65.00	254	103.00	498	140.00	943	266.00	73
66.00	78	104.00	5533	141.00	15617		
67.00	3193	105.00	2025	142.00	1721		
68.00	130304	106.00	5825	143.00	17200		
69.00	130816	107.00	1506	144.00	916		

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: HSL1111.D
Analysis Type: WATER
Lab Sample ID: HSL 20
Method: \\Terastation\share\VOAData\HP10.I\111110.b\8260ALOW.m

Injection Date: 11-NOV-2010 09:26
Init. Cal. Date(s): 13-OCT-2010 05-NOV-2010
Init. Cal. Times: 20:20 15:23
Quant Type: ISTD

PD
11/11/10

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.26246	0.25165	0.25165	0.010	-4.11909	40.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.29043	0.27573	0.27573	0.010	-5.06382	40.00000	Averaged	
$ 6 Toluene-d8	0.92734	0.86164	0.86164	0.010	-7.08571	40.00000	Averaged	
$ 7 4-Bromofluorobenzene	0.43050	0.38966	0.38966	0.010	-9.48632	40.00000	Averaged	
$ 136 Trifluorotoluene	0.50374	0.00108	0.00108	0.010	-100	40.00000	Averaged	<-
8 Dichlorodifluoromethane	0.22376	0.24479	0.24479	0.010	9.40223	40.00000	Averaged	
9 Chloromethane (**)	0.26120	0.26434	0.26434	0.100	1.20163	40.00000	Averaged	
10 Vinyl Chloride (*)	0.26870	0.27633	0.27633	0.010	2.83898	20.00000	Averaged	
11 Bromomethane	0.19001	0.18947	0.18947	0.010	-0.28432	40.00000	Averaged	
12 Chloroethane	0.16585	0.17581	0.17581	0.010	6.00506	40.00000	Averaged	
13 Trichlorofluoromethane	0.32885	0.35577	0.35577	0.010	8.18598	40.00000	Averaged	
15 Trichlorotrifluoroethane	0.19864	0.20746	0.20746	0.010	4.44029	40.00000	Averaged	
17 1,1-Dichloroethene(*)	0.20178	0.21354	0.21354	0.010	5.82609	20.00000	Averaged	
18 Acetone	0.15241	0.15171	0.15171	0.010	-0.46302	40.00000	Averaged	
21 Carbon disulfide	0.68728	0.70089	0.70089	0.010	1.98014	40.00000	Averaged	
31 Vinyl acetate	0.59198	0.62813	0.62813	0.010	6.10772	40.00000	Averaged	
22 Methylene Chloride	0.25236	0.26182	0.26182	0.010	3.74614	40.00000	Averaged	
23 t-Butanol	0.06947	0.06974	0.06974	0.001	0.39224	40.00000	Averaged	
25 Methyl-t-butyl-ether	0.65171	0.66737	0.66737	0.010	2.40294	40.00000	Averaged	
26 trans-1,2-Dichloroethene	0.26441	0.27587	0.27587	0.010	4.33167	40.00000	Averaged	
27 Acrylonitrile	0.15870	0.17226	0.17226	0.010	8.54421	40.00000	Averaged	
30 1,1-Dichloroethane (**)	0.41892	0.44630	0.44630	0.100	6.53550	40.00000	Averaged	
33 2,2-Dichloropropane	0.29055	0.30853	0.30853	0.010	6.18847	40.00000	Averaged	
35 cis 1,2-Dichloroethene	0.28059	0.29725	0.29725	0.010	5.93558	40.00000	Averaged	
38 2-Butanone	0.26996	0.25912	0.25912	0.010	-4.01474	40.00000	Averaged	
40 Bromochloromethane	0.15560	0.15973	0.15973	0.010	2.65554	40.00000	Averaged	
41 Chloroform (*)	0.41467	0.44315	0.44315	0.010	6.86715	20.00000	Averaged	
42 1,1,1-Trichloroethane	0.35264	0.37141	0.37141	0.010	5.32337	40.00000	Averaged	
43 Carbon Tetrachloride	0.31261	0.32611	0.32611	0.010	4.32058	40.00000	Averaged	
44 1,1-Dichloropropene	0.33088	0.34879	0.34879	0.010	5.41417	40.00000	Averaged	
47 Benzene	1.01763	1.05664	1.05664	0.010	3.83375	40.00000	Averaged	
48 1,2-Dichloroethane	0.33760	0.36089	0.36089	0.010	6.89755	40.00000	Averaged	
49 Trichloroethene	0.26267	0.26718	0.26718	0.010	1.71729	40.00000	Averaged	
51 1,2-Dichloropropane(*)	0.22717	0.23942	0.23942	0.010	5.39192	20.00000	Averaged	
52 Dibromomethane	0.16684	0.16897	0.16897	0.010	1.27634	40.00000	Averaged	
53 1,4-Dioxane	500	486	0.00448	0.000	-2.85560	40.00000	Quadratic	
54 Bromodichloromethane	0.29625	0.31064	0.31064	0.010	4.85539	40.00000	Averaged	
55 2-Chloroethyl vinyl ether	0.16305	0.17880	0.17880	0.010	9.66492	40.00000	Averaged	
56 cis-1,3-Dichloropropene (xt	0.37635	0.39572	0.39572	0.010	5.14628	40.00000	Averaged	
57 4-Methyl-2-pentanone	0.41663	0.46316	0.46316	0.010	11.16648	40.00000	Averaged	
58 Toluene (*)	0.65380	0.67141	0.67141	0.010	2.69332	20.00000	Averaged	
60 trans-1,3-Dichloropropene(x	0.33920	0.35915	0.35915	0.010	5.88391	40.00000	Averaged	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: HSL1111.D
Analysis Type: WATER
Lab Sample ID: HSL 20
Method: \\Terastation\share\VOAData\HP10.I\111110.b\8260ALOW.m

Injection Date: 11-NOV-2010 09:26
Init. Cal. Date(s): 13-OCT-2010 05-NOV-2010
Init. Cal. Times: 20:20 15:23
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
61 1,1,2-Trichloroethane	0.24017	0.25045	0.25045	0.010	4.28255	40.00000	Averaged
62 Tetrachloroethene	0.40391	0.40929	0.40929	0.010	1.33114	40.00000	Averaged
63 1,3-Dichloropropane	0.49813	0.52924	0.52924	0.010	6.24589	40.00000	Averaged
64 2-Hexanone	0.38548	0.42076	0.42076	0.010	9.15251	40.00000	Averaged
65 Dibromochloromethane	0.30878	0.31225	0.31225	0.010	1.12610	40.00000	Averaged
66 1,2-Dibromoethane	0.31271	0.33988	0.33988	0.010	8.69037	40.00000	Averaged
67 1-Chlorohexane	0.41422	0.40968	0.40968	0.010	-1.09510	40.00000	Averaged
68 Chlorobenzene (**)	0.85813	0.89984	0.89984	0.300	4.85984	40.00000	Averaged
69 Ethylbenzene (*)	0.44359	0.47988	0.47988	0.010	8.17903	20.00000	Averaged
70 1,1,1,2-Tetrachloroethane	0.29143	0.31917	0.31917	0.010	9.51721	40.00000	Averaged
71 Xylenes (m,p)	0.56199	0.60836	0.60836	0.010	8.25150	40.00000	Averaged
72 Xylene (o)	0.53583	0.59422	0.59422	0.010	10.89709	40.00000	Averaged
73 Styrene	0.90791	0.97815	0.97815	0.010	7.73582	40.00000	Averaged
74 Bromoform (**)	20.00000	18.56365	0.25146	0.100	-7.18173	40.00000	Quadratic
75 Isopropylbenzene	1.27241	1.39206	1.39206	0.010	9.40337	40.00000	Averaged
77 Bromobenzene	0.73265	0.76376	0.76376	0.010	4.24531	40.00000	Averaged
78 1,1,2,2-Tetrachloroethane(*	0.72093	0.77105	0.77105	0.300	6.95333	40.00000	Averaged
79 N-Propylbenzene	2.66536	2.85113	2.85113	0.010	6.96975	40.00000	Averaged
80 1,2,3-Trichloropropane	0.28865	0.30494	0.30494	0.010	5.64575	40.00000	Averaged
81 2-Chlorotoluene	1.62210	1.68817	1.68817	0.010	4.07331	40.00000	Averaged
82 1,3,5-Trimethylbenzene	1.88883	2.05936	2.05936	0.010	9.02844	40.00000	Averaged
83 4-Chlorotoluene	1.85113	2.00107	2.00107	0.010	8.10036	40.00000	Averaged
84 T-Butylbenzene	1.78614	1.91162	1.91162	0.010	7.02506	40.00000	Averaged
85 1,2,4-Trimethylbenzene	1.91538	2.12718	2.12718	0.010	11.05809	40.00000	Averaged
86 Sec-Butylbenzene	2.48026	2.67468	2.67468	0.010	7.83871	40.00000	Averaged
87 1,3-Dichlorobenzene	1.25502	1.33431	1.33431	0.010	6.31833	40.00000	Averaged
88 P-Isopropyltoluene	2.13056	2.33791	2.33791	0.010	9.73228	40.00000	Averaged
89 1,4-Dichlorobenzene	1.32162	1.35292	1.35292	0.010	2.36830	40.00000	Averaged
90 N-Butylbenzene	1.72708	1.82992	1.82992	0.010	5.95429	40.00000	Averaged
91 1,2-Dichlorobenzene	1.21337	1.27882	1.27882	0.010	5.39339	40.00000	Averaged
92 1,2-Dibromo-3-chloropropane	20.00000	19.06077	0.13258	0.010	-4.69614	40.00000	Quadratic
93 1,2,4-Trichlorobenzene	20.00000	19.51033	0.82024	0.010	-2.44836	40.00000	Quadratic
94 Hexachlorobutadiene	0.46789	0.46315	0.46315	0.010	-1.01142	40.00000	Averaged
95 Naphthalene	20.00000	18.87518	2.04269	0.010	-5.62410	40.00000	Quadratic
96 1,2,3-Trichlorobenzene	20.00000	19.00681	0.68863	0.010	-4.96593	40.00000	Quadratic
M 97 1,2-Dichloroethene (Total)	0.27250	0.28656	0.28656	0.010	5.15758	40.00000	Averaged
M 98 Xylenes (Total)	0.55327	0.60365	0.60365	0.010	9.10559	40.00000	Averaged

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i Injection Date: 11-NOV-2010 09:26
Lab File ID: HSL1111.D Init. Cal. Date(s): 13-OCT-2010 05-NOV-2010
Analysis Type: WATER Init. Cal. Times: 20:20 15:23
Lab Sample ID: HSL 20 Quant Type: ISTD
Method: \\Terastation\share\VOAData\HP10.I\111110.b\8260ALOW.m

```
|Average %D / Drift Results.                          |
|=====================================================|
|Calculated Average %D/Drift =    6.73411            |
|Maximun Average %D/Drift    -   15.00000            |
|* Passed Average %D/Drift Test.                      |
|_____________________________________________________|
```

Data File: \\terastation\share\VOAdata\HP10.I\111110.B\GAS1111.D Page 5
Report Date: 11-Nov-2010 09:25

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: GAS1111.D
Analysis Type: WATER
Lab Sample ID:
Method: \\terastation\share\VOAdata\HP10.I\111110.B\8260IIIGAS.m

Injection Date: 11-NOV-2010 09:04
Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Init. Cal. Times: 16:31 19:07
Quant Type: ESTD

PD
11/11/10

COMPOUND	RRF / AMOUNT	RF500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	203051	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	184057	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	195475	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	135439	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	57567	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	186106	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	136956	0.010	++++	0.000e+000	Averaged	<-
152 Trifluorotoluene	++++	171283	0.010	++++	15.00000	Averaged	<-
S 147 8015B (GRO)	108099	121997	0.010	12.85640	15.00000	Averaged	
S 148 AK101	80908	92576	0.010	14.42175	20.00000	Averaged	
S 149 CALUFT	91729	100354	0.010	9.40241	15.00000	Averaged	
S 150 NWTPH-Gx	82265	89757	0.010	9.10744	15.00000	Averaged	
S 151 Gas C6-C12	109675	122296	0.010	11.50757	15.00000	Averaged	
S 154 Gas C6-C10	89843	101827	0.010	13.33826	15.00000	Averaged	

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: GAS1111B.D
Analysis Type: WATER
Lab Sample ID:
Method: \\terastation\share\VOAdata\HP10.I\111110.B\8260IIIGAS.m

Injection Date: 11-NOV-2010 16:49
Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Init. Cal. Times: 16:31 19:07
Quant Type: ESTD

PD
111210

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	232116	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	190120	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	204375	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	175379	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	56750	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	189035	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	145021	0.010	++++	0.000e+000	Averaged	<-
152 Trifluorotoluene	++++	155305	0.010	++++	15.00000	Averaged	<-
S 147 8015B (GRO)	108099	103420	0.010	-4.32819	15.00000	Averaged	
S 148 AK101	80908	78973	0.010	-2.39149	20.00000	Averaged	
S 149 CALUFT	91729	90183	0.010	-1.68551	15.00000	Averaged	
S 150 NWTPH-Gx	82265	81597	0.010	-0.81173	15.00000	Averaged	
S 151 Gas C6-C12	109675	106599	0.010	-2.80480	15.00000	Averaged	
S 154 Gas C6-C10	89843	87442	0.010	-2.67306	15.00000	Averaged	

TestAmerica

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP10.i
Lab File ID: GAS1111C.D
Analysis Type: WATER
Lab Sample ID:
Method: \\terastation\share\VOAdata\HP10.I\111110.B\8260IIIGAS.m

Injection Date: 11-NOV-2010 19:45
Init. Cal. Date(s): 04-NOV-2010 04-NOV-2010
Init. Cal. Times: 16:31 19:07
Quant Type: ESTD

PD
111210

COMPOUND	RRF / AMOUNT	RF500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	201356	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	186474	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	195837	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	126466	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	60895	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	180922	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	132516	0.010	++++	0.000e+000	Averaged	<-
152 Trifluorotoluene	++++	158646	0.010	++++	15.00000	Averaged	<-
S 147 8015B (GRO)	108099	114245	0.010	5.68525	15.00000	Averaged	
S 148 AK101	80908	86244	0.010	6.59520	20.00000	Averaged	
S 149 CALUFT	91729	95398	0.010	3.99980	15.00000	Averaged	
S 150 NWTPH-Gx	82265	86622	0.010	5.29683	15.00000	Averaged	
S 151 Gas C6-C12	109675	114783	0.010	4.65716	15.00000	Averaged	
S 154 Gas C6-C10	89843	95136	0.010	5.89086	15.00000	Averaged	

TestAmerica

Gasoline by GC/MS

Data file : \\terastation\share\VOAdata\HP10.I\111110.B\WDM111.D
Lab Smp Id:
Inj Date : 11-NOV-2010 07:51
Operator : PD Inst ID: HP10.i
Smp Info : TVPH WDM ;PD;1;;3;;1
Misc Info : 1;water;0;TPHALL.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\111110.B\8260IIIGAS.m
Meth Date : 11-Nov-2010 09:25 dibbsrodri Quant Type: ESTD
Cal Date : 04-NOV-2010 19:07 Cal File: GAS110408.D
Als bottle: 50
Dil Factor: 1.00000 PD
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACPC 111110

Concentration Formula: Amt * DF * Uf * Vod/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Fctor
Vod	5.000	Default Sample Volume
Vo	5.000	Sample Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
3 1,4-Difluorobenzene	5.441	5.453	-0.012	1515632		(a)
6 Chlorobenzene-d5	8.027	8.026	0.001	1674910		(a)
8 1,4-Dichlorobenzene-d4	10.247	10.247	0.000	1825527		(a)
1 Dibromofluoromethane	4.772	4.802	-0.030	1288254		(a)
2 1,2-Dichloroethane-d4	5.058	5.064	-0.006	1194412		(a)
5 Toluene-d8	6.719	6.725	-0.006	3251161		(a)
7 4-Bromofluorobenzene	9.128	9.134	-0.006	2524592		(a)
152 Trifluorotoluene	5.910	5.915	-0.005	15362		(a)
S 147 8015B (GRO)	3.100-10.000			8018882	74.1809	74.18
S 148 AK101	3.600-9.400			5959238	73.6548	73.65
S 149 CALUFT	5.270-12.000			5631918	61.3971	61.40
S 150 NWTPH-Gx	6.750-12.600			5830667	70.8767	70.88
S 151 Gas C6-C12	3.600-12.000			7486257	68.2585	68.26
S 154 Gas C6-C10	3.600-9.700			6306442	70.1939	70.19

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica

Gasoline by GC/MS

Data file : \\terastation\share\VOAdata\HP10.I\111110.B\WDM111.D
Lab Smp Id:
Inj Date : 11-NOV-2010 07:51
Operator : PD Inst ID: HP10.i
Smp Info : TVPH WDM ;PD;1;;3;;1
Misc Info : 1;water;0;TPHALL.sub;;0;5
Comment :
Method : \\terastation\share\VOAdata\HP10.I\111110.B\8260IIIGAS.m
Meth Date : 11-Nov-2010 09:25 dibbsrodri Quant Type: AREA%
Cal Date : 04-NOV-2010 19:07 Cal File: GAS110408.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACPC

Concentration Formula: Amt * DF * Uf * Vod/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Fctor
Vod	5.000	Default Sample Volume
Vo	5.000	Sample Volume
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.457	52189	40754	0.781	0.23	
1.804	125383	34974	0.279	0.56	
4.772	1288255	703030	0.546	5.80	1 Dibromofluoromethan
5.058	1194413	655196	0.549	5.38	2 1,2-Dichloroethane-
5.442	1515632	849277	0.560	6.82	3 1,4-Difluorobenzene
5.910	15362	8254	0.537	0.06	152 Trifluorotoluene
6.500	5959239	3418193	0.574	26.85	S 148 AK101
6.550	8018883	4612308	0.575	-101.25	S 147 8015B (GRO)
3.221	782042	377702	0.483		
6.650	6306443	3658802	0.580	28.41	S 154 Gas C6-C10
3.702	466503	237381	0.509		
4.602	16739	8485	0.507		
5.107	411996	231015	0.561		
5.168	959101	499818	0.521		
5.332	258939	149925	0.579		
6.780	1466261	846415	0.577		
7.139	23235	11180	0.481		
8.149	467811	277996	0.594		
8.258	957357	598750	0.625		

Data File: \\terastation\share\VOAdata\HP10.I\111110.B\WDM111.D Page 2
Report Date: 11-Nov-2010 09:28

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.636	931296	557228	0.598		
9.554	347204	240609	0.693		
6.719	3251162	1993412	0.613	14.64	5 Toluene-d8
7.800	7486258	4398507	0.588	33.73	S 151 Gas C6-C12
9.913	930398	575804	0.619		
11.805	249417	163901	0.657		
8.027	1674911	973432	0.581	7.54	6 Chlorobenzene-d5
8.635	5631919	3421808	0.608	25.37	S 149 CALUFT
9.128	2524593	1498683	0.594	11.37	7 4-Bromofluorobenzen
9.675	5830668	3533803	0.606	26.27	S 150 NWTPH-Gx
12.468	457688	261920	0.572		
10.248	1825528	1112048	0.609	8.22	8 1,4-Dichlorobenzene
	22193415	12907189		100.000	

Total unknown % area = 0.790

Data File: \\terastation\share\VOAdata\HP10.I\111110.B\WDM111.D

Page 4

Date : 11-NOV-2010 07:51

Client ID:

Instrument: HP10.i

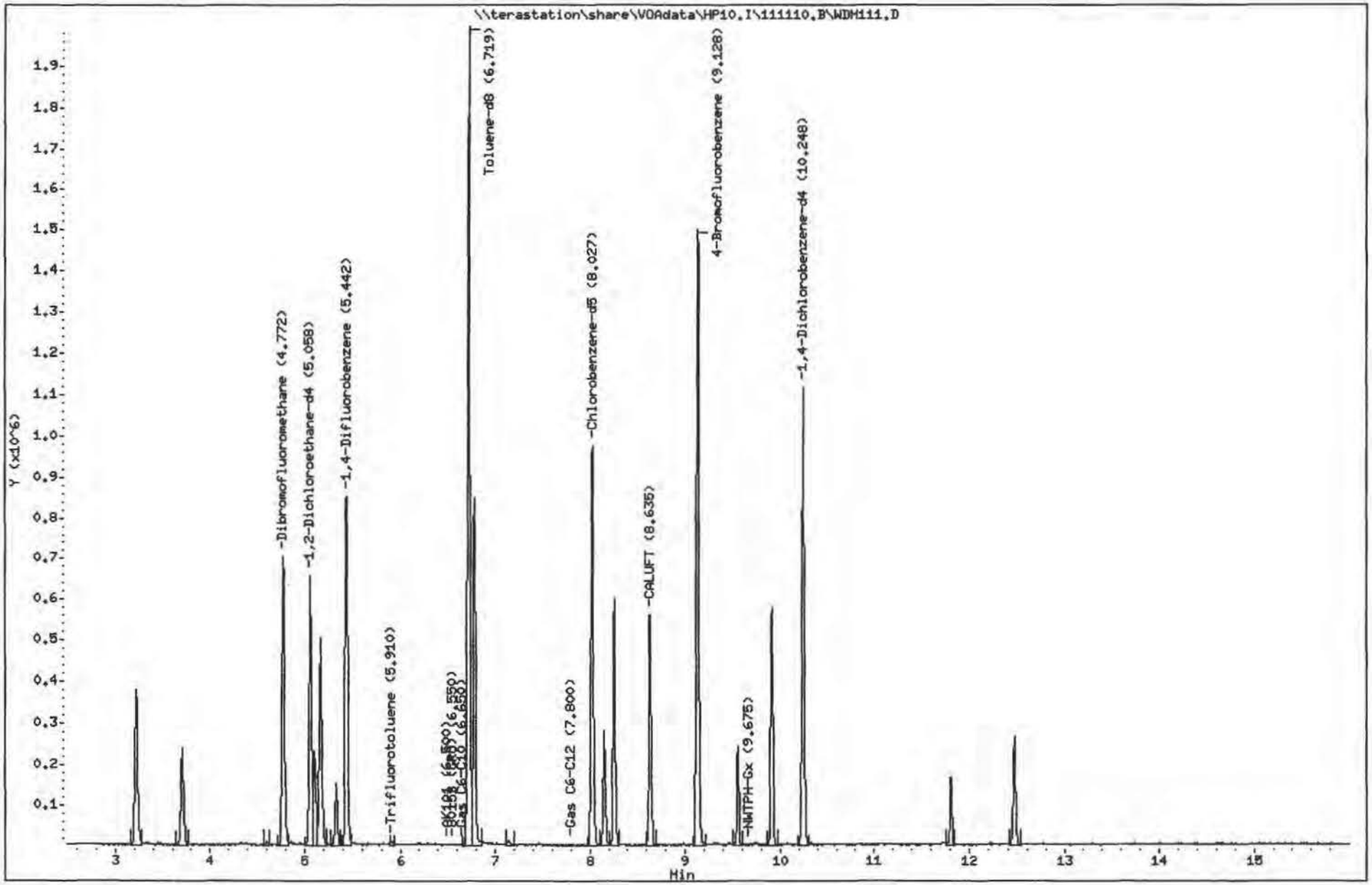
Sample Info: TVPH WDM ;PD;1;;3;;1

Purge Volume: 5.0

Operator: PD

Column phase: J&W DB-624

Column diameter: 0.53



TestAmerica West Sacramento
Method 5035 Preservation
(Soil)

Batch Page 1 of 2

- ~~Aliquots A and B contain equivalent of 1 g of sodium bisulfate with~~ 10/26/10 WT 5 mL of organic-free reagent water.

Lot IDs: G0J260451 | Method (circle one): 8260B / CA-LUFT

Sample ID	Aliquots (wt. in g) A	Encore ID # / Vial ID #	B	Encore ID # / Vial ID #	C	Encore ID # / Vial ID #	Date / Initials	Time	48hr HT met?	Comments
1	3.72	3 / 5	2.95	3 / 4	3.78	3 / 6	10/26/10 WT	16:30	Y	
2	2.81	3 / 4	5.67	3 / 5	5.29	3 / 6	10/26/10 WT	16:30	Y	
3	5.47	3 / 4	4.27	3 / 5	4.32	3 / 6	10/26/10 WT	16:30	Y	
4	4.38	7 / 8	5.39	7 / 9	4.90	7 / 10	10/26/10 WT	16:30	Y	
4	5.08	7 / 11	4.35	7 / 12	4.65	7 / 13	↓	↓	↓	
4 MS/MSD	4.60	F 7 / 14	5.33	G 7 / 15	4.95	H 7 / 16	↓	↓	↓	
5	5.05	3 / 4	5.39	3 / 5	5.49	3 / 6	10/26/10 WT	16:30	Y	
7	5.84	3 / 4	5.97	3 / 5	5.32	3 / 6	10/26/10 WT	16:30	Y	
8	6.42	3 / 4	5.70	3 / 5	5.98	3 / 6	10/26/10 WT	16:30	Y	
9	5.89	3 / 4	5.41	3 / 5	4.42	3 / 6	10/26/10 WT	16:30	Y	

- Aliquot C contains 25 mL / 5 mL (circle one) of purge and trap reagent grade methanol.
- [1] Sample effervescence observed – Aliquot B preserved in H_2O (then frozen)

Spike Mix	Standard ID	Concentration.	Amount Spiked
8260B Surrogate	10MSV0465	100 µg/mL	50 ml
TFT	NA	100 µg/mL	NA
TCLA	10MSV0472	200 µg/mL	25 ml
TCLB	10MSV0473	200 µg/mL	25 ml
Odd Mix 1	10MSV0466	200 µg/mL	25 ml
Odd Mix 2	10MSV0469	200 µg/mL	25 ml
Vinyl Acetate	10MSV0445	200 µg/mL	25 ml
Gasoline	10MSV0363	5000 µg/mL	5 ml

Analyst/Date: [signature] 10/26

Preservation Solvent/Lot: MeOH DB322
H_2O lab purged H_2O

Spike Witness/Date: WT 10/26

TestAmerica West Sacramento
Method 5035 Preservation
(Soil)

Batch Page 2 of 2

* ~~Aliquots A and B contain equivalent of 1g of sodium bisulfate with~~ 5 mL of organic-free reagent water. 5 10/26/10

Lot IDs: G0J260451										Method (circle one): 8260B / CA-LUFT
Sample ID	Aliquots (wt. in g) A	Encore ID # / Vial ID #	B	Encore ID # / Vial ID #	C	Encore ID # / Vial ID #	Date / Initials	Time	48hr HT met?	Comments
10	6.35	3 / 4	6.21	3 / 5	6.29	3 / 6	10/26/10 WT	16:30	Y	
11	5.70	3 / 4	5.40	3 / 5	6.00	3 / 6	10/26/10 WT	16:30	Y	
12	4.60	3 / 4	4.51	3 / 5	4.88	3 / 6	10/26/10 WT	16:30	Y	
13	5.95	6 / 3	4.86	6 / 4	5.41	6 / 5	10/26/10 WT	16:30	Y	

* Aliquot C contains 25 mL / 5 mL (circle one) of purge and trap reagent grade methanol.
* [1] Sample effervescence observed – Aliquot B preserved in H_2O (then frozen)

Spike Mix	Standard ID	Concentration.	Amount Spiked
8260B Surrogate	See pg 25	100 µg/mL	See pg. 25
TFT		100 µg/mL	
TCLA		200 µg/mL	
TCLB		200 µg/mL	
Odd Mix 1		200 µg/mL	
Odd Mix 2		200 µg/mL	
Vinyl Acetate		200 µg/mL	
Gasoline		5000 µg/mL	

Analyst/Date: WT 10/26

Preservation Solvent/Lot: MeOH DB322
H_2O lab purged H_2O

Spike Witness/Date: _____

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/15/10
Time: 12:12:33

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

QC BATCH: 0315361

PREP DATE: 10/26/10 10:52
COMP DATE: 10/26/10 10:52

Reviewer/Date: _____ / 0/00/00

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - Lab MEOH Ext. (Solids or Wastes)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
10/27/10	11/12/10	G0J260451-001 **L84EX-1-CD**	D	4B	QK	SOLID	**3.78g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
10/27/10	11/12/10	G0J260451-002 **L84E9-1-CC**	D	4B	QK	SOLID	**5.29g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
10/27/10	11/12/10	G0J260451-003 **L84FA-1-CC**	D	4B	QK	SOLID	**4.32g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
10/27/10	11/12/10	G0J260451-005 **L84FF-1-CC**	D	4B	QK	SOLID	**5.49g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
10/27/10	11/12/10	G0J260451-007 **L84FL-1-CC**	D	4B	QK	SOLID	**5.32g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
10/27/10	11/12/10	G0J260451-008 **L84FN-1-CC**	D	4B	QK	SOLID	**5.98g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
10/27/10	11/12/10	G0J260451-009 **L84FQ-1-CC**	D	4B	QK	SOLID	**4.42g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/15/10
Time: 12:12:33

QC BATCH: 0315361

PREP DATE: 10/26/10 10:52
COMP DATE: 10/26/10 10:52

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
10/27/10	11/12/10	G0J260451-010 **L84FR-1-CC**	D	4B	QK	SOLID	**6.29g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
10/27/10	11/12/10	G0J260451-011 **L84FT-1-CC**	D	4B	QK	SOLID	**6** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
10/27/10	11/12/10	G0J260451-012 **L84FV-1-CC**	D	4B	QK	SOLID	**4.88g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
10/27/10	11/12/10	G0J260451-013 **L84FW-1-CC**	D	4B	QK	SOLID	**5.41g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
10/27/10	0/00/00	G0K110000-361 **L9XDX-1-AAB**		4B	QK	SOLID	**5.00g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
10/27/10	0/00/00	G0K110000-361 **L9XDX-1-ACC**		4B	QK	SOLID	**5.00g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
10/27/10	0/00/00	G0K110000-361 **L9XDX-1-ADL**	R	4B	QK	SOLID	**5** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 14

TestAmerica West Sacramento

GC/MS Data Review Checklist

Lot ID: G0J260451 **Method ID:** Volatile Organics, GC/MS (8260B)

Samples: 1 - 4, 4MS, 4SD, 5, 7 - 13

NCM: Y N

A. Calibration/Instrument Run QC	Analyst	Reviewer	DQA
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.	NA		✓
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.	NA	✓	
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.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: [illegible] Date: 11/15/10

2nd Level Reviewer: [illegible] Date: 11/18/10

Comments:

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/15/10
Time: 12:12:37

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____

Concentrationist: _____
_____

Reviewer/Date: _____ / 0/00/00

QC BATCH: 0315363

PREP DATE: 10/26/10 10:30
COMP DATE: 10/26/10 10:30

HYDROCARBONS, TOTAL PETROLEUM BY CALUFT/GCMS
PURGE AND TRAP - Lab MEOH Ext. (Solids or Wastes)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	11/12/10	G0J260451-001 **L84EX-1-CE**	D	4B	7N	SOLID	**3.78g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	11/12/10	G0J260451-002 **L84E9-1-CD**	D	4B	7N	SOLID	**5.229g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	11/12/10	G0J260451-003 **L84FA-1-CD**	D	4B	7N	SOLID	**4.32g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	11/12/10	G0J260451-005 **L84FF-1-CD**	D	4B	7N	SOLID	**5.49g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	11/12/10	G0J260451-007 **L84FL-1-CD**	D	4B	7N	SOLID	**5.32g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	11/12/10	G0J260451-008 **L84FN-1-CD**	D	4B	7N	SOLID	**5.98g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	11/12/10	G0J260451-009 **L84FQ-1-CD**	D	4B	7N	SOLID	**4.42g** 5.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/15/10
Time: 12:12:37

QC BATCH: 0315363

PREP DATE: 10/26/10 10:30
COMP DATE: 10/26/10 10:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	11/12/10	G0J260451-010 **L84FR-1-CD**	D	4B	7N	SOLID	**6.29g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/12/10	G0J260451-011 **L84FT-1-CD**	D	4B	7N	SOLID	**6** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/12/10	G0J260451-012 **L84FV-1-CD**	D	4B	7N	SOLID	**4.88g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/12/10	G0J260451-013 **L84FW-1-CD**	D	4B	7N	SOLID	**5.41g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	G0K110000-363 **L9XD5-1-AAB**		4B	7N	SOLID	**5.00g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	G0K110000-363 **L9XD5-1-ACC**		4B	7N	SOLID	**5.00g** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	G0K110000-363 **L9XD5-1-ADL**	R	4B	7N	SOLID	**5** 5.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 14

TestAmerica West Sacramento

GC/MS Data Review Checklist

Lot ID: G0J260451 **Method ID:** HYDROCARBONS, TOTAL PETROLEUM BY CALUFT/G

Samples: 1 - 4, 4MS, 4SD, 5, 7 - 13

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.	NA		✓
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.	NA		✓
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.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: [signature] Date: 11/15/10

2nd Level Reviewer: [signature] Date: 11/18/10

Comments:

SOLID, 8081A, Pesticides

ICV/CCV
Run Logs
Prep Sheets

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 7

Inst ID: GC75AB Batch ID: 111910
Method : Method 8081 Test : Pesticides by GC-ECD
ICAL Date: See Calibration Report

A

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
19-NOV-2010	15:25	VN	10GCSV0280 PEM	1119-001.	0 g	0 mL	1	✓/✓
19-NOV-2010	15:52	VN	INDAB4 10GCSV0274 CCV 10-100PP	1119-002.	0 g	0 mL	1	✓/ EKT
19-NOV-2010	16:20	VN	TOX300 10GCSV0287 CCV 300PPB	1119-003.	0 g	0 mL	1	✓/ ↑
19-NOV-2010	16:55	VN	L84EX1A9 0310095 J260451-1 10X	1119-004.	30.1 g	10 mL	10	
19-NOV-2010	17:23	VN	L84E91AL 0310095 J260451-2 10X	1119-005.	30.12 g	10 mL	10	
19-NOV-2010	17:51	VN	L84FA1AL 0310095 J260451-3 10X	1119-006.	29.94 g	10 mL	10	
19-NOV-2010	18:19	VN	L84FD1AL 0310095 J260451-4 50X	1119-007.	29.87 g	10 mL	50	
19-NOV-2010	18:47	VN	L84FD1DL 0310095 J260451-4S 50	1119-008.	29.92 g	10 mL	50	
19-NOV-2010	19:15	VN	L84FD1DM 0310095 J260451-4D 50	1119-009.	29.75 g	10 mL	50	
19-NOV-2010	19:43	VN	L84FF1AL 0310095 J260451-5 50X	1119-010.	30.42 g	10 mL	50	
19-NOV-2010	20:11	VN	L84FL1AL 0310095 J260451-7 20X	1119-011.	30 g	10 mL	20	
19-NOV-2010	20:38	VN	L84FN1AL 0310095 J260451-8 100	1119-012.	30.24 g	10 mL	100	
19-NOV-2010	21:06	VN	L84FQ1AL 0310095 J260451-9 100	1119-013.	29.84 g	10 mL	100	See RI
19-NOV-2010	21:34	VN	L84FR1AL 0310095 J260451-10 50	1119-014.	30.28 g	10 mL	50	See RI
19-NOV-2010	22:02	VN	L84FT1AL 0310095 J260451-11 10	1119-015.	30.34 g	10 mL	100	
19-NOV-2010	22:30	VN	L9M771AA 0310095 MB	1119-016.	30 g	10 mL	1	
19-NOV-2010	22:58	VN	L9M771AC 0310095 LCS PEST	1119-017.	30 g	10 mL	1	
19-NOV-2010	23:26	VN	L9M771AD 0310095 LCS TOX	1119-018.	30 g	10 mL	1	See RI
19-NOV-2010	23:54	VN	TOX400 10GCSV0288 CCV 400PPB	1119-019.	0 g	0 mL	1	
20-NOV-2010	00:22	VN	INDAB5 10GCSV0275 CCV 20-200PP	1119-020.	0 g	0 mL	1	
20-NOV-2010	00:50	VN	L84FV1AL 0310095 J260451-12 10	1119-021.	29.47 g	10 mL	100	See RI
20-NOV-2010	01:18	VN	L84FW1AL 0310095 J260451-13 10	1119-022.	29.82 g	10 mL	100	See RI
20-NOV-2010	01:46	VN	TOX400 10GCSV0288 CCV 400PPB	1119-023.	0 g	0 mL	1	
20-NOV-2010	02:14	VN	INDAB5 10GCSV0275 CCV 20-200PP	1119-024.	0 g	0 mL	1	

JMN 11/23/10

TestAmerica West Sacramento

1119-001.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date: 11/19/2010 15:25 **Operator:** VN
DataFile: GC75AB.I\111910.B\1119-001.D **Vial Num:** 1
Instrument ID: GC75AB

Sample : **10GCSV0280 PEM**

Method File: GC75AB.I\111910.B\8081AB.M
Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** PEM.sub **SpikeList:**
Samp. Info: 10GCSV0280 PEM;0;;;;;
Misc. Info: 3;PEM.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm				Column2 Stx-CLP2 30mX320umX250nm				
Compound Name	RT	Diff	Response	Flag	RT	Diff	Response	Flag	Limits (%)
Endrin Aldehyde	14.14	-0.028	5359393		14.35	-0.001	596867		
Endrin Ketone	15.17	0.012	6478580		15.46	-0.004	2296819		
Endrin	13.26	0.009	541164673		13.57	0.002	83557645		
Endrin Break Down		2.2%				3.5%			(0-15)
4,4-DDE	12.53	0.012	4228174		12.94	0.002	874045		
4,4-DDD	13.39	0.012	2969789		13.76	0.002	485434		
4,4-DDT	13.78	0.012	1059704571		14.19	0.002	145067691		
4,4-DDT Break Down		0.7%				0.9%			(0-15)

Printed: 11/19/2010 4:02 PM

TestAmerica West Sacramento

1119-002.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date:	11/19/2010 15:52	Operator:	VN
DataFile:	GC75AB.I\111910.B\1119-002.D	Vial Num:	2
Instrument ID:	GC75AB		

Sample : **INDAB4 10GCSV0274 CCV 10-100PPB**

Method File:	GC75AB.I\111910.B\8081AB.M		
Start Cal Date:	10/18/2010 18:33	End Cal Date:	11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 1PESTCAL.sub SpikeList:

Samp. Info: INDAB4 10GCSV0274 CCV 10-100PPB;2;;4;;;

Misc. Info: 3;1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
TCX	7.91	219147877	19.5400	20	-2%	Acceptable		8.11	35041989	19.9800<	20	0%	Acceptable		(±15)	
DCB	16.54	333213158	36.5900	40	-9%	Acceptable		17.15	52140157	36.6400<	40	-8%	Acceptable		(±15)	
alpha-BHC	**9.11**	**132716321**	**8.3300<**	**10**	**-17%**	~~Fails~~ Pass		9.40	20326174	8.9720	10	-10%	Acceptable		(±15)	
gamma-BHC	9.71	108065326	8.6960<	10	-13%	Acceptable		10.05	17456522	9.2980	10	-7%	Acceptable		(±15)	
beta-BHC	9.89	53613823	8.7850<	10	-12%	Acceptable		10.22	8350651	9.3390	10	-7%	Acceptable		(±15)	
delta-BHC	10.19	125744866	8.8410<	10	-12%	Acceptable		10.70	18547866	9.5660	10	-4%	Acceptable		(±15)	
Heptachlor	10.54	116951751	8.8510<	10	-11%	Acceptable		10.77	16446103	10.5300	10	5%	Acceptable		(±15)	
Aldrin	11.03	118614630	8.8950<	10	-11%	Acceptable		11.28	19049626	9.3020	10	-7%	Acceptable		(±15)	
Heptachlor Epoxide	11.99	98249185	9.0120<	10	-10%	Acceptable		12.17	16695644	10.7300	10	7%	Acceptable		(±15)	
Gamma Chlordane	12.18	107635048	8.5570<	10	-14%	Acceptable		12.45	17595051	9.1600	10	-8%	Acceptable		(±15)	
Alpha Chlordane	12.38	107983326	8.7010<	10	-13%	Acceptable		12.67	17157516	9.0480	10	-10%	Acceptable		(±15)	
4,4-DDE	12.52	226000301	18.1300	20	-9%	Acceptable		12.93	36396873	19.6600<	20	-2%	Acceptable		(±15)	
Endosulfan I	12.57	100061741	9.0410<	10	-10%	Acceptable		12.74	14900919	10.1800	10	2%	Acceptable		(±15)	
Dieldrin	12.92	211306808	17.5500<	20	-12%	Acceptable		13.14	34395641	22.0500	20	10%	Acceptable		(±15)	
Endrin	13.25	198661458	18.0500<	20	-10%	Acceptable		13.56	30140863	22.6600	20	13%	Acceptable		(±15)	
4,4-DDD	**13.37**	**163899171**	**16.0600**	**20**	**-20%**	~~Fails~~ Pass		13.75	24642396	20.1600<	20	1%	Acceptable		(±15)	
Endosulfan II	13.57	176258623	18.2900<	20	-9%	Acceptable		13.87	28199163	21.3700	20	7%	Acceptable		(±15)	
4,4-DDT	13.76	183460912	19.6400<	20	-2%	Acceptable		**14.18**	**24977117**	**24.0800**	**20**	**20%**	**Fails** Pass		(±15)	
Endrin Aldehyde	14.17	132744953	19.2400<	20	-4%	Acceptable		**14.34**	**21235598**	**23.3400**	**20**	**17%**	**Fails** Pass		(±15)	
Methoxychlor	14.45	377782104	97.5100<	100	-2%	Acceptable		**15.14**	**52594158**	**119.3000**	**100**	**19%**	**Fails** Pass		(±15)	
Endosulfan Sulfate	14.78	176027453	18.7200<	20	-6%	Acceptable		14.73	27125961	20.3600	20	2%	Acceptable		(±15)	
Endrin Ketone	15.16	200770528	19.3000<	20	-4%	Acceptable		**15.46**	**32044960**	**24.2600**	**20**	**21%**	**Fails** NA		(±15)	

QSMV4.1 ± 20%D
VMN 11/20/10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%

Printed: 11/19/2010 4:18 PM

TestAmerica West Sacramento

1119-003.D

Chromatography Summary

Injection Date: 11/19/2010 16:20 **Operator:** VN

DataFile: GC75AB.I\111910.B\1119-003.D **Vial Num:** 3

Method 8081 Target Analyte Results

Instrument ID: GC75AB

Sample : **TOX300 10GCSV0287 CCV 300PPB**

Method File: GC75AB.I\111910.B\8081AB.M

Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 3TOXCAL.sub **SpikeList:**

Samp. Info: TOX300 10GCSV0287 CCV 300PPB;2;;3;;;

Misc. Info: 3;3TOXCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm								Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Toxaphene-Totals	1.20	428171055	291.5000	300	-3%	Acceptable	M	1.19	77539485	388.0000<	300	29%	Fails	M	(±15)	

NA

VMN 11/20/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

VMN 11/20/10

Printed: 11/20/2010 2:51 PM

TestAmerica West Sacramento

1119-019.D

Chromatography Summary

Injection Date: 11/19/2010 23:54 **Operator:** VN

DataFile: GC75AB.I\111910.B\1119-019.D **Vial Num:** 19

Method 8081 Target Analyte Results

Instrument ID: GC75AB

Sample : **TOX400 10GCSV0288 CCV 400PPB**

Method File: GC75AB.I\111910.B\8081AB.M

Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 3TOXCAL.sub **SpikeList:**

Samp. Info: TOX400 10GCSV0288 CCV 400PPB;2;;4;;;

Misc. Info: 3;3TOXCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm								Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Toxaphene-Totals	1.20	569239610	387.6000	400	-3%	Acceptable	M	1.19	101774013	509.3000<	400	27% NA	Fails	M	(±15)	

VMN 11/20/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

VMN 11/20/10

Printed: 11/20/2010 2:58 PM

TestAmerica West Sacramento

1119-020.D

Chromatography Summary

Injection Date: 11/20/2010 0:22 **Operator:** VN

DataFile: GC75AB.I\111910.B\1119-020.D **Vial Num:** 20

Instrument ID: GC75AB

Method 8081 Target Analyte Results

Sample : **INDAB5 10GCSV0275 CCV 20-200PPB**

Method File: GC75AB.I\111910.B\8081AB.M

Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1PESTCAL.sub **SpikeList:**

Samp. Info: INDAB5 10GCSV0275 CCV 20-200PPB;2;;5;;;

Misc. Info: 3;1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
TCX	7.90	439503821	39.1800	40	-2%	Acceptable		8.11	70361894	40.1200<	40	0%	Acceptable		(±15)	
DCB	16.54	636349979	69.8800	80	-13%	Acceptable		17.15	102001268	71.6700<	80	-10%	Acceptable		(±15)	
alpha-BHC	9.11	326376017	20.4800<	20	2%	Acceptable		9.40	49202990	21.7200	20	9%	Acceptable		(±15)	
gamma-BHC	9.71	264463263	21.2800<	20	6%	Acceptable		10.05	40644189	21.6500	20	8%	Acceptable		(±15)	
beta-BHC	9.89	114262671	18.7200<	20	-6%	Acceptable		10.22	17808064	19.9200	20	0%	Acceptable		(±15)	
delta-BHC	10.19	283031889	19.9000<	20	-1%	Acceptable		10.70	41458970	21.3800	20	7%	Acceptable		(±15)	
Heptachlor	10.54	258929995	19.6000<	20	-2%	Acceptable		**10.77**	**36107828**	**23.1300**	**20**	**16%**	~~Fails~~ PASS		(±15)	
Aldrin	11.03	266929643	20.0200<	20	0%	Acceptable		11.28	42151331	20.5800	20	3%	Acceptable		(±15)	
Heptachlor Epoxide	11.99	221570631	20.3200<	20	2%	Acceptable		**12.17**	**36393789**	**23.3800**	**20**	**17%**	~~Fails~~ PASS		(±15)	
Gamma Chlordane	12.18	235187223	18.7000<	20	-7%	Acceptable		12.45	38358965	19.9700	20	0%	Acceptable		(±15)	
Alpha Chlordane	12.37	233955562	18.8500<	20	-6%	Acceptable		12.67	37498205	19.7700	20	-1%	Acceptable		(±15)	
4,4-DDE	12.51	492746420	39.5300	40	-1%	Acceptable		12.93	78234906	42.2700<	40	6%	Acceptable		(±15)	
Endosulfan I	12.57	209062782	18.8900<	20	-6%	Acceptable		12.74	33035569	22.5800	20	13%	Acceptable		(±15)	
Dieldrin	12.92	469821650	39.0200<	40	-2%	Acceptable		**13.13**	**76736340**	**49.1900**	**40**	**23%**	Fails *		(±15)	
Endrin	13.25	427869382	38.8700<	40	-3%	Acceptable		**13.56**	**66869341**	**50.2700**	**40**	**26%**	Fails NA		(±15)	
4,4-DDD	13.37	375120755	36.7500	40	-8%	Acceptable		**13.75**	**57028121**	**46.6700<**	**40**	**17%**	~~Fails~~ PASS		(±15)	
Endosulfan II	13.57	358991964	37.2500<	40	-7%	Acceptable		13.87	58546045	44.3600	40	11%	Acceptable		(±15)	
4,4-DDT	13.76	355348232	38.0300<	40	-5%	Acceptable		**14.18**	**48243208**	**46.5000**	**40**	**16%**	~~Fails~~ PASS		(±15)	
Endrin Aldehyde	14.17	247491096	35.8800<	40	-10%	Acceptable		14.34	40384025	44.3900	40	11%	Acceptable		(±15)	
Methoxychlor	14.45	659606237	170.2000<	200	-15%	Acceptable		15.14	100197884	227.3000	200	14%	Acceptable		(±15)	
Endosulfan Sulfate	14.78	344466428	36.6300<	40	-8%	Acceptable		14.72	54120663	40.6300	40	2%	Acceptable		(±15)	
Endrin Ketone	15.16	374098856	35.9600<	40	-10%	Acceptable		15.46	59904522	45.3500	40	13%	Acceptable		(±15)	

QSM V4.1 I 20%D
VMN 11/20/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

* See NCM #07-0117290
VMN 11/28/10

Printed: 11/20/2010 2:03 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 8

Inst ID: GC75AB Batch ID: 112110
Method : Method 8081 Test : Pesticides by GC-ECD
ICAL Date: See Calibration Report

A

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
21-NOV-2010	14:56	VN	10GCSV0280 PEM	1121-001.	0 g	0 mL	1	✓ ✓
21-NOV-2010	15:24	VN	INDAB4 10GCSV0274 CCV 10-100PP	1121-002.	0 g	0 mL	1	
21-NOV-2010	15:52	VN	10OP0139 FLORISIL CHECK MIX	1121-003.	30 g	10 mL	1	
21-NOV-2010	16:20	VN	FLORISIL CHECK MB	1121-004.	30 g	10 mL	1	
21-NOV-2010	16:48	VN	J30N64 FLORISIL QC	1121-005.	0 g	0 mL	1	
21-NOV-2010	17:16	VN	INDAB5 10GCSV0275 CCV 20-200PP	1121-006.	0 g	0 mL	1	✓ ✓
21-NOV-2010	17:48	VN	TOX300 10GCSV0287 CCV 300PPB	1121-007.	0 g	0 mL	1	✓ M1 ✓
21-NOV-2010	18:16	VN	L84FQ1AL 0310095 J260451-9 100	1121-008.	29.84 g	10 mL	100	gamma-chlor. dieldrin J
21-NOV-2010	18:44	VN	L84FR1AL 0310095 J260451-10 50	1121-009.	30.28 g	10 mL	50	2,gamma-chlor, dieldrin J
21-NOV-2010	19:12	VN	L84FV1AL 0310095 J260451-12 10	1121-010.	29.47 g	10 mL	100	" "
21-NOV-2010	19:40	VN	L84FW1AL 0310095 J260451-13 10	1121-011.	29.82 g	10 mL	100	" "
21-NOV-2010	20:08	VN	L9M771AD 0310095 LCS TOX	1121-012.	30 g	10 mL	1	✓ ✓
21-NOV-2010	20:36	VN	TOX400 10GCSV0288 CCV 400PPB	1121-013.	0 g	0 mL	1	✓ M1 ↑
21-NOV-2010	21:04	VN	INDAB5 10GCSV0275 CCV 20-200PP	1121-014.	0 g	0 mL	1	✓ endrin 1b ↑

VMN 11/23/10

TestAmerica West Sacramento

1121-001.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date: 11/21/2010 14:56 **Operator:** VN
DataFile: GC75AB.I\112110.B\1121-001.D **Vial Num:** 1
Instrument ID: GC75AB

Sample : **10GCSV0280 PEM**

Method File: GC75AB.I\112110.B\8081AB.M
Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** PEM.sub **SpikeList:**
Samp. Info: 10GCSV0280 PEM;0;;;;;
Misc. Info: 3;PEM.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm				Column2 Stx-CLP2 30mX320umX250nm				
Compound Name	RT	Diff	Response	Flag	RT	Diff	Response	Flag	Limits (%)
Endrin Aldehyde	14.17	0.001	1618698		14.35	-0.002	475655		
Endrin Ketone	15.16	0.001	10018506		15.46	-0.005	2568605		
Endrin	13.26	0.001	496867450		13.57	0.001	79331893		
Endrin Break Down			2.3%				3.8%		(0-15)
4,4-DDE	12.52	0.001	8683182		12.94	0.001	1531035		
4,4-DDD	13.38	0.001	25341211		13.75	-0.002	3995847		
4,4-DDT	13.77	0.005	845612805		14.18	-0.002	121394446		
4,4-DDT Break Down			4.0%				4.6%		(0-15)

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TestAmerica West Sacramento

1121-006.D

Chromatography Summary

Injection Date: 11/21/2010 17:16 **Operator:** VN

DataFile: GC75AB.I\112110.B\1121-006.D **Vial Num:** 6

Method 8081 Target Analyte Results

Instrument ID: GC75AB

Sample : **INDAB5 10GCSV0275 CCV 20-200PPB**

Method File: GC75AB.I\112110.B\8081AB.M

Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1PESTCAL.sub **SpikeList:**

Samp. Info: INDAB5 10GCSV0275 CCV 20-200PPB;2;;5;;;

Misc. Info: 3;1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
TCX	7.90	445303278	39.7000	40	-1%	Acceptable		8.11	68068690	38.8100<	40	-3%	Acceptable		(±15)	
DCB	16.54	653887153	71.8000	80	-10%	Acceptable		17.15	102102941	71.7400<	80	-10%	Acceptable		(±15)	
alpha-BHC	9.11	313152952	19.6500<	20	-2%	Acceptable		9.40	45304084	20.0000	20	0%	Acceptable		(±15)	
gamma-BHC	9.71	250620025	20.1700<	20	1%	Acceptable		10.05	37487971	19.9700	20	0%	Acceptable		(±15)	
beta-BHC	9.89	113970259	18.6700<	20	-7%	Acceptable		10.22	16876157	18.8700	20	-6%	Acceptable		(±15)	
delta-BHC	10.19	273175946	19.2100<	20	-4%	Acceptable		10.70	38359789	19.7800	20	-1%	Acceptable		(±15)	
Heptachlor	10.54	242369168	18.3400<	20	-8%	Acceptable		10.77	30186929	19.3400	20	-3%	Acceptable		(±15)	
Aldrin	11.03	267604682	20.0700<	20	0%	Acceptable		11.28	41388748	20.2100	20	1%	Acceptable		(±15)	
Heptachlor Epoxide	11.99	219920163	20.1700<	20	1%	Acceptable		12.17	33572903	21.5700	20	8%	Acceptable		(±15)	
Gamma Chlordane	12.18	239031103	19.0000<	20	-5%	Acceptable		12.45	37914049	19.7400	20	-1%	Acceptable		(±15)	
Alpha Chlordane	12.37	239263402	19.2800<	20	-4%	Acceptable		12.66	36907632	19.4600	20	-3%	Acceptable		(±15)	
4,4-DDE	12.51	484292491	38.8500	40	-3%	Acceptable		12.93	74631295	40.3200<	40	1%	Acceptable		(±15)	
Endosulfan I	12.57	211756028	19.1300<	20	-4%	Acceptable		12.74	29547493	20.1900	20	1%	Acceptable		(±15)	
Dieldrin	12.92	478425490	39.7300<	40	-1%	Acceptable		13.13	69817472	44.7600	40	12%	Acceptable		(±15)	
Endrin	13.25	431269555	39.1800<	40	-2%	Acceptable		13.56	57926991	43.5500	40	9%	Acceptable		(±15)	
4,4-DDD	13.37	374075327	36.6500	40	-8%	Acceptable		13.75	50801994	41.5700<	40	4%	Acceptable		(±15)	
Endosulfan II	13.57	359812301	37.3300<	40	-7%	Acceptable		13.87	53596001	40.6100	40	2%	Acceptable		(±15)	
4,4-DDT	13.76	362695666	38.8200<	40	-3%	Acceptable		14.18	43728260	42.1500	40	5%	Acceptable		(±15)	
Endrin Aldehyde	14.17	248523995	36.0200<	40	-10%	Acceptable		14.34	36579121	40.2100	40	1%	Acceptable		(±15)	
Methoxychlor	14.45	677306422	174.8000<	200	-13%	Acceptable		15.14	87141213	197.7000	200	-1%	Acceptable		(±15)	
Endosulfan Sulfate	14.77	349855257	37.2100<	40	-7%	Acceptable		14.72	52529980	39.4400	40	-1%	Acceptable		(±15)	
Endrin Ketone	15.16	388570828	37.3600<	40	-7%	Acceptable		15.46	55424359	41.9600	40	5%	Acceptable		(±15)	

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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TestAmerica West Sacramento

1121-007.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date:	11/21/2010 17:48	Operator:	VN
DataFile:	GC75AB.I\112110.B\1121-007.D	Vial Num:	7
Instrument ID:	GC75AB		
Method File:	GC75AB.I\112110.B\8081AB.M		
Start Cal Date:	10/18/2010 18:33	End Cal Date:	11/11/2010 2:58

Sample : **TOX300 10GCSV0287 CCV 300PPB**

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 3TOXCAL.sub SpikeList:

Samp. Info: TOX300 10GCSV0287 CCV 300PPB;2;;3;;;

Misc. Info: 3;3TOXCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Toxaphene-Totals	1.20	390653027	266.0000	300	-11%	Acceptable	M	1.19	63347413	317.0000<	300	6%	Acceptable	M	(±15)	

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

ZB 11/22/10

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TestAmerica West Sacramento

1121-013.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date: 11/21/2010 20:36 **Operator:** VN
DataFile: GC75AB.I\112110.B\1121-013.D **Vial Num:** 13
Instrument ID: GC75AB

Sample : **TOX400 10GCSV0288 CCV 400PPB**

Method File: GC75AB.I\112110.B\8081AB.M
Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 3TOXCAL.sub **SpikeList:**
Samp. Info: TOX400 10GCSV0288 CCV 400PPB;2;;4;;;
Misc. Info: 3;3TOXCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Toxaphene-Totals	1.20	607978014	413.9000	400	3%	Acceptable	M	1.19	97134587	486.0000<	400	22% NA	Fails	M	(±15)	

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

VMN 11/23/10

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TestAmerica West Sacramento

1121-014.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date:	11/21/2010 21:04	**Operator:**	VN
DataFile:	GC75AB.I\112110.B\1121-014.D	**Vial Num:**	14
Instrument ID:	GC75AB		

Sample : **INDAB5 10GCSV0275 CCV 20-200PPB**

Method File:	GC75AB.I\112110.B\8081AB.M		
Start Cal Date:	10/18/2010 18:33	**End Cal Date:**	11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1PESTCAL.sub **SpikeList:**

Samp. Info: INDAB5 10GCSV0275 CCV 20-200PPB;2;;5;;;

Misc. Info: 3;1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
TCX	7.90	450524674	40.1700	40	0%	Acceptable		8.11	69118795	39.4100<	40	-1%	Acceptable		(±15)	
DCB	16.54	649729978	71.3500	80	-11%	Acceptable		17.14	99214512	69.7100<	80	-13%	Acceptable		(±15)	
alpha-BHC	9.11	316500933	19.8600<	20	-1%	Acceptable		9.40	45707089	20.1700	20	1%	Acceptable		(±15)	
gamma-BHC	9.71	252714805	20.3400<	20	2%	Acceptable		10.04	37176881	19.8000	20	-1%	Acceptable		(±15)	
beta-BHC	9.89	114382476	18.7400<	20	-6%	Acceptable		10.22	16779109	18.7600	20	-6%	Acceptable		(±15)	
delta-BHC	10.19	276727392	19.4600<	20	-3%	Acceptable		10.70	38571276	19.8900	20	-1%	Acceptable		(±15)	
Heptachlor	10.54	235393364	17.8100<	20	-11%	Acceptable		10.77	29814836	19.1000	20	-4%	Acceptable		(±15)	
Aldrin	11.03	271304544	20.3400<	20	2%	Acceptable		11.28	41373699	20.2000	20	1%	Acceptable		(±15)	
Heptachlor Epoxide	11.99	225886177	20.7200<	20	4%	Acceptable		12.17	34285674	22.0300	20	10%	Acceptable		(±15)	
Gamma Chlordane	12.18	246422103	19.5900<	20	-2%	Acceptable		12.45	38282582	19.9300	20	0%	Acceptable		(±15)	
Alpha Chlordane	12.37	245117590	19.7500<	20	-1%	Acceptable		12.66	37072641	19.5500	20	-2%	Acceptable		(±15)	
4,4-DDE	12.51	497271271	39.8900	40	0%	Acceptable		12.93	75610295	40.8500<	40	2%	Acceptable		(±15)	
Endosulfan I	12.57	217439836	19.6500<	20	-2%	Acceptable		12.74	30841085	21.0800	20	5%	Acceptable		(±15)	
Dieldrin	12.92	491193169	40.7900<	40	2%	Acceptable		**13.13**	**72477734**	**46.4600**	**40**	**16%**	~~Fails~~ Pass		(±15)	
Endrin	13.25	435950376	39.6000<	40	-1%	Acceptable		13.56	60195907	45.2500	40	13%	Acceptable		(±15)	
4,4-DDD	13.37	392537574	38.4600	40	-4%	Acceptable		13.74	53451019	43.7400<	40	9%	Acceptable		(±15)	
Endosulfan II	13.57	371418039	38.5400<	40	-4%	Acceptable		13.86	56618342	42.9000	40	7%	Acceptable		(±15)	
4,4-DDT	13.76	357889187	38.3000<	40	-4%	Acceptable		14.18	42657746	41.1200	40	3%	Acceptable		(±15)	
Endrin Aldehyde	14.16	250328527	36.2900<	40	-9%	Acceptable		14.34	37861461	41.6200	40	4%	Acceptable		(±15)	
Methoxychlor	14.45	680208815	175.6000<	200	-12%	Acceptable		15.14	87392543	198.3000	200	-1%	Acceptable		(±15)	
Endosulfan Sulfate	14.77	358087393	38.0800<	40	-5%	Acceptable		14.72	53646690	40.2800	40	1%	Acceptable		(±15)	
Endrin Ketone	15.16	393281532	37.8100<	40	-5%	Acceptable		15.46	57359901	43.4200	40	9%	Acceptable		(±15)	

QSMV4.1 ± 20%D
VMN 11/23/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: GC75AB Batch ID: 111010C
Method : Method 8081 Test : Pesticides by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
10-NOV-2010	21:51	VN	10GCSV0280 PEM	1110-001.	0 g	0 mL	1	
10-NOV-2010	22:19	VN	INDAB1 10GCSV0271 ICAL 1.25-12	1110-002.	0 g	0 mL	1	
10-NOV-2010	22:47	VN	INDAB2 10GCSV0272 ICAL 2.5-25	1110-003.	0 g	0 mL	1	
10-NOV-2010	23:15	VN	INDAB3 10GCSV0273 ICAL 5.0-50	1110-004.	0 g	0 mL	1	
10-NOV-2010	23:43	VN	INDAB4 10GCSV0274 ICAL 10-100	1110-005.	0 g	0 mL	1	
11-NOV-2010	00:11	VN	INDAB5 10GCSV0275 ICAL 20-200	1110-006.	0 g	0 mL	1	
11-NOV-2010	00:39	VN	INDAB6 10GCSV0302 ICAL 50-500	1110-007.	0 g	0 mL	1	
11-NOV-2010	01:07	VN	INDAB7 10GCSV0277 ICAL 100-100	1110-008.	0 g	0 mL	1	
11-NOV-2010	01:35	VN	HEXANE	1110-009.	0 g	0 mL	1	
11-NOV-2010	02:03	VN	INDAB4 10GCSV0373 ICV 10-100	1110-010.	0 g	0 mL	1	
11-NOV-2010	02:30	VN	TOX300 10GCSV0287 ICAL 300PPB	1110-011.	0 g	0 mL	1	
11-NOV-2010	02:58	VN	T-CHLOR75 10GCSV0294 ICAL 75PP	1110-012.	0 g	0 mL	1	
11-NOV-2010	03:26	VN	L8G1Q1AD 0291306 J140548-9 2X	1110-013.	30.84 g	10 mL	2	
11-NOV-2010	03:54	VN	L8G1R1AD 0291306 J140548-10 2X	1110-014.	29.72 g	10 mL	2	
11-NOV-2010	04:22	VN	L8G1V1AD 0291306 J140548-11 2X	1110-015.	31.02 g	10 mL	2	
11-NOV-2010	04:50	VN	L8G1W1AD 0291306 J140548-12 2X	1110-016.	31.04 g	10 mL	2	
11-NOV-2010	05:18	VN	L8G111AD 0291306 J140548-13 10	1110-017.	29.98 g	10 mL	100	
11-NOV-2010	05:46	VN	L8G121AD 0291306 J140548-14 50	1110-018.	30.43 g	10 mL	50	
11-NOV-2010	06:14	VN	L8G141AD 0291306 J140548-15 2X	1110-019.	30.02 g	10 mL	2	
11-NOV-2010	06:42	VN	L8G141AG 0291306 J140548-15S 2	1110-020.	29.9 g	10 mL	2	
11-NOV-2010	07:10	VN	L8G141AH 0291306 J140548-15D 2	1110-021.	30.21 g	10 mL	2	
11-NOV-2010	07:38	VN	TOX300 10GCSV0287 CCV 300PPB	1110-022.	0 g	0 mL	1	
11-NOV-2010	08:06	VN	INDAB410GCSV0274 CCV 10-100PPB	1110-023.	0 g	0 mL	1	

TestAmerica West Sacramento

1110-010.D

Chromatography Summary

Injection Date: 11/11/2010 2:03 **Operator:** VN

DataFile: GC75AB.I\111010C.B\1110-010.D **Vial Num:** 10

Instrument ID: GC75AB

Method 8081 Target Analyte Results

Sample : **INDAB4 10GCSV0373 ICV 10-100**

Method File: GC75AB.I\111010C.B\8081AB.M

Start Cal Date: 10/18/2010 18:33 **End Cal Date:** 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1PESTCAL.sub **SpikeList:**

Samp. Info: INDAB4 10GCSV0373 ICV 10-100;2;;4;;;

Misc. Info: 3;1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
TCX	**7.92**	**7464629**	**0.6655**	**20**	**-97%**	**Fails**		**8.13**	**1266536**	**0.7222<**	**20**	**-96%**	**Fails**		(±15)	
DCB	**16.55**	**14663894**	**1.6100**	**40**	**-96%**	**Fails**		**17.17**	**2336786**	**1.6420<**	**40**	**-96%**	**Fails**		(±15)	
alpha-BHC	9.12	143181870	8.9870<	10	-10%	Acceptable		9.42	19820837	8.7490	10	-13%	Acceptable		(±15)	
gamma-BHC	9.73	123724099	9.9570<	10	0%	Acceptable		10.07	17229783	9.1770	10	-8%	Acceptable		(±15)	
beta-BHC	9.91	54691995	8.9610<	10	-10%	Acceptable		**10.24**	**7540418**	**8.4330**	**10**	**-16%**	~~Fails~~ pass		(±15)	
delta-BHC	10.21	126430854	8.8890<	10	-11%	Acceptable		10.72	16508689	8.5140	10	-15%	Acceptable		(±15)	
Heptachlor	10.56	118149914	8.9420<	10	-11%	Acceptable		10.79	13393045	8.5790	10	-14%	Acceptable		(±15)	
Aldrin	11.04	121274295	9.0950<	10	-9%	Acceptable		11.30	18171733	8.8740	10	-11%	Acceptable		(±15)	
Heptachlor Epoxide	12.00	108589582	9.9610<	10	0%	Acceptable		12.19	13560832	8.7120	10	-13%	Acceptable		(±15)	
Gamma Chlordane	12.19	117183916	9.3160<	10	-7%	Acceptable		12.47	17522668	9.1220	10	-9%	Acceptable		(±15)	
Alpha Chlordane	12.39	105700875	8.5170<	10	-15%	Acceptable		**12.69**	**15649643**	**8.2530**	**10**	**-17%**	~~Fails~~ pass		(±15)	
4,4-DDE	12.53	235791515	18.9200	20	-5%	Acceptable		12.95	33832148	18.2800<	20	-9%	Acceptable		(±15)	
Endosulfan I	12.58	106084289	9.5860<	10	-4%	Acceptable		12.76	13082364	8.9400	10	-11%	Acceptable		(±15)	
Dieldrin	12.94	229042936	19.0200<	20	-5%	Acceptable		**13.15**	**26040015**	**16.6900**	**20**	**-17%**	~~Fails~~ pass		(±15)	
Endrin	13.27	210283746	19.1000<	20	-4%	Acceptable		**13.58**	**22485878**	**16.9000**	**20**	**-16%**	~~Fails~~ pass		(±15)	
4,4-DDD	13.38	191769761	18.7900	20	-6%	Acceptable		13.76	20915129	17.1200<	20	-14%	Acceptable		(±15)	
Endosulfan II	13.59	180491996	18.7300<	20	-6%	Acceptable		13.89	22598465	17.1200	20	-14%	Acceptable		(±15)	
4,4-DDT	13.78	183739805	19.6700<	20	-2%	Acceptable		14.20	19436342	18.7300	20	-6%	Acceptable		(±15)	
Endrin Aldehyde	14.18	144226184	20.9100<	20	5%	Acceptable		14.36	16418477	18.0500	20	-10%	Acceptable		(±15)	
Methoxychlor	14.46	370846519	95.7200<	100	-4%	Acceptable		15.16	40451297	91.7800	100	-8%	Acceptable		(±15)	
Endosulfan Sulfate	14.79	177662168	18.8900<	20	-6%	Acceptable		14.74	22720403	17.0600	20	-15%	Acceptable		(±15)	
Endrin Ketone	15.18	203075827	19.5200<	20	-2%	Acceptable		**15.48**	**22324059**	**16.9000**	**20**	**-16%**	~~Fails~~ pass		(±15)	

Passes Second Source Criteria for QSMV3, QSMV4.1 AFCEE 4.0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

11/11/10

Printed: 11/11/2010 8:56 AM

TestAmerica West Sacramento

1110-010.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date: 11/11/2010 2:03 Operator: VN
DataFile: GC75AB.I\111010C.B\1110-010.D Vial Num: 10
Instrument ID: GC75AB

Sample : **INDAB4 10GCSV0373 ICV 10-100**

Method File: GC75AB.I\111010C.B\8081AB.M
Start Cal Date: 10/18/2010 18:33 End Cal Date: 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 1PESTCAL.sub SpikeList:
Samp. Info: INDAB4 10GCSV0373 ICV 10-100;2;;4;;;
Misc. Info: 3;1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500um							Column2 Stx-CLP2 30mX320umX250um							
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%) Flag
TCX	**7.92**	**7464629**	**0.6655**	**20**	**-97%**	**Fails**		**8.13**	**1266536**	**0.7222<**	**20**	**-96%**	**Fails**		(±15)
DCB	**16.55**	**14663894**	**1.6100**	**40**	**-96%**	**Fails**		**17.17**	**2336786**	**1.6420<**	**40**	**-96%**	**Fails**		(±15)
alpha-BHC	9.12	143181870	8.9870<	10	-10%	Acceptable		9.42	19820837	8.7490	10	-13%	Acceptable		(±15)
gamma-BHC	9.73	123724099	9.9570<	10	0%	Acceptable		10.07	17229783	9.1770	10	-8%	Acceptable		(±15)
beta-BHC	9.91	54691995	8.9610<	10	-10%	Acceptable		**10.24**	**7540418**	**8.4330**	**10**	**-16%**	~~Fails~~ pass		(±15)
delta-BHC	10.21	126430854	8.8890<	10	-11%	Acceptable		10.72	16508689	8.5140	10	-15%	Acceptable		(±15)
Heptachlor	10.56	118149914	8.9420<	10	-11%	Acceptable		10.79	13393045	8.5790	10	-14%	Acceptable		(±15)
Aldrin	11.04	121274295	9.0950<	10	-9%	Acceptable		11.30	18171733	8.8740	10	-11%	Acceptable		(±15)
Heptachlor Epoxide	12.00	108589582	9.9610<	10	0%	Acceptable		12.19	13560832	8.7120	10	-13%	Acceptable		(±15)
Gamma Chlordane	12.19	117183916	9.3160<	10	-7%	Acceptable		12.47	17522668	9.1220	10	-9%	Acceptable		(±15)
Alpha Chlordane	12.39	105700875	8.5170<	10	-15%	Acceptable		**12.69**	**15649643**	**8.2530**	**10**	**-17%**	~~Fails~~ pass		(±15)
4,4-DDE	12.53	235791515	18.9200	20	-5%	Acceptable		12.95	33832148	18.2800<	20	-9%	Acceptable		(±15)
Endosulfan I	12.58	106084289	9.5860<	10	-4%	Acceptable		12.76	13082364	8.9400	10	-11%	Acceptable		(±15)
Dieldrin	12.94	229042936	19.0200<	20	-5%	Acceptable		**13.15**	**26040015**	**16.6900**	**20**	**-17%**	~~Fails~~ pass		(±15)
Endrin	13.27	210283746	19.1000<	20	-4%	Acceptable		**13.58**	**22485878**	**16.9000**	**20**	**-16%**	~~Fails~~ pass		(±15)
4,4-DDD	13.38	191769761	18.7900	20	-6%	Acceptable		13.76	20915129	17.1200<	20	-14%	Acceptable		(±15)
Endosulfan II	13.59	180491996	18.7300<	20	-6%	Acceptable		13.89	22598465	17.1200	20	-14%	Acceptable		(±15)
4,4-DDT	13.78	183739805	19.6700<	20	-2%	Acceptable		14.20	19436342	18.7300	20	-6%	Acceptable		(±15)
Endrin Aldehyde	14.18	144226184	20.9100<	20	5%	Acceptable		14.36	16418477	18.0500	20	-10%	Acceptable		(±15)
Methoxychlor	14.46	370846519	95.7200<	100	-4%	Acceptable		15.16	40451297	91.7800	100	-8%	Acceptable		(±15)
Endosulfan Sulfate	14.79	177662168	18.8900<	20	-5%	Acceptable		14.74	22720403	17.0600	20	-15%	Acceptable		(±15)
Endrin Ketone	15.18	203075827	19.5200<	20	-2%	Acceptable		**15.48**	**22324059**	**16.9000**	**20**	**-16%**	~~Fails~~ pass		(±15)

Passes Second Source Criteria for QSMV3, QSMV4.1 AFCEE 4.0

11/11/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 11/11/2010 8:56 AM

TestAmerica West Sacramento

1110-010.D

Chromatography Summary

Method 8081 Target Analyte Results

Injection Date: 11/11/2010 2:03 Operator: VN
DataFile: GC75AB.I\111010C.B\1110-010.D Vial Num: 10
Instrument ID: GC75AB

Sample : **INDAB4 10GCSV0373 ICV 10-100**

Method File: GC75AB.I\111010C.B\8081AB.M
Start Cal Date: 10/18/2010 18:33 End Cal Date: 11/11/2010 2:58

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 1PESTCAL.sub SpikeList:
Samp. Info: INDAB4 10GCSV0373 ICV 10-100;2;;4;;;
Misc. Info: 3:1PESTCAL.sub;;;1

	Column1 Stx-CLP1 30mX320umX500nm							Column2 Stx-CLP2 30mX320umX250nm								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
TCX	**7.92**	**7464629**	**0.6655**	**20**	**-97%**	**Fails**		**8.13**	**1266536**	**0.7222<**	**20**	**-96%**	**Fails**		(±15)	
DCB	**16.55**	**14663894**	**1.6100**	**40**	**-95%**	**Fails**		**17.17**	**2336786**	**1.6420<**	**40**	**-96%**	**Fails**		(±15)	
alpha-BHC	9.12	143181870	8.9870<	10	-10%	Acceptable		9.42	19820837	8.7490	10	-13%	Acceptable		(±15)	
gamma-BHC	9.73	123724099	9.9570<	10	0%	Acceptable		10.07	17229783	9.1770	10	-8%	Acceptable		(±15)	
beta-BHC	9.91	54691995	8.9610<	10	-10%	Acceptable		**10.24**	**7540418**	**8.4330**	**10**	**-16%**	~~Fails~~ pass		(±15)	
delta-BHC	10.21	126430854	8.8890<	10	-11%	Acceptable		10.72	16508689	8.5140	10	-15%	Acceptable		(±15)	
Heptachlor	10.56	118149914	8.9420<	10	-11%	Acceptable		10.79	13393045	8.5790	10	-14%	Acceptable		(±15)	
Aldrin	11.04	121274295	9.0950<	10	-9%	Acceptable		11.30	18171733	8.8740	10	-11%	Acceptable		(±15)	
Heptachlor Epoxide	12.00	108589582	9.9610<	10	0%	Acceptable		12.19	13560832	8.7120	10	-13%	Acceptable		(±15)	
Gamma Chlordane	12.19	117183916	9.3160<	10	-7%	Acceptable		12.47	17522668	9.1220	10	-9%	Acceptable		(±15)	
Alpha Chlordane	12.39	105700875	8.5170<	10	-15%	Acceptable		**12.69**	**15649643**	**8.2530**	**10**	**-17%**	~~Fails~~ pass		(±15)	
4,4-DDE	12.53	235791515	18.9200	20	-5%	Acceptable		12.95	33832148	18.2800<	20	-9%	Acceptable		(±15)	
Endosulfan I	12.58	106084289	9.5860<	10	-4%	Acceptable		12.76	13082364	8.9400	10	-11%	Acceptable		(±15)	
Dieldrin	12.94	229042936	19.0200<	20	-5%	Acceptable		**13.15**	**26040015**	**16.6900**	**20**	**-17%**	~~Fails~~ pass		(±15)	
Endrin	13.27	210283746	19.1000<	20	-4%	Acceptable		**13.58**	**22485878**	**16.9000**	**20**	**-16%**	~~Fails~~ pass		(±15)	
4,4-DDD	13.38	191769761	18.7900	20	-6%	Acceptable		13.76	20915129	17.1200<	20	-14%	Acceptable		(±15)	
Endosulfan II	13.59	180491996	18.7300<	20	-6%	Acceptable		13.89	22598465	17.1200	20	-14%	Acceptable		(±15)	
4,4-DDT	13.78	183739805	19.6700<	20	-2%	Acceptable		14.20	19436342	18.7300	20	-6%	Acceptable		(±15)	
Endrin Aldehyde	14.18	144226184	20.9100<	20	5%	Acceptable		14.36	16418477	18.0500	20	-10%	Acceptable		(±15)	
Methoxychlor	14.46	370846519	95.7200<	100	-4%	Acceptable		15.16	40451297	91.7800	100	-8%	Acceptable		(±15)	
Endosulfan Sulfate	14.79	177662168	18.8900<	20	-6%	Acceptable		14.74	22720403	17.0600	20	-15%	Acceptable		(±15)	
Endrin Ketone	15.18	203075827	19.5200<	20	-2%	Acceptable		**15.48**	**22324059**	**16.9000**	**20**	**-16%**	~~Fails~~ pass		(±15)	

Passes Second Source Criteria for QSMV3, QSMV4.1 AFCEE 4.0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

11/11/10

Printed: 11/11/2010 8:56 AM

Due 11/12

TestAmerica West Sacramento
Organic Prep Log
8081A Solids

Box # _____

Shared ~~QC~~ Batch: 0310096
MB + Sample

Shares ~~QC~~ With: G0J260451
MB + sample

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	
Inst Receipt:	

Batch: 0310095
MS Run #: 0310050
Prep Date: 11/6/2010
Method: QJ 8081A
Matrix: A SOLID
Extraction: 13 SONICATION - Low Level
QC: D4 DOD QSM V4.X
SAC: QJ - A - 13 - D4

3550B
WS-OP-0002

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	NA
DCM:Ace	NA	3640-675
Na2SO4	Baker	3640-66F
Hexane	Baker	J29E20
Florisil	Baker	J30N64
Hg	Mallinckrodt	J36N00
90:10 Ace:Hex	NA	3640-65B

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 30g nom.	Final Volume 10mL	Final Volume Other	Analysis Hold Time Expires
G0J260451 - 1		L84EX1A9	11/8/2010	30.10	✓		12/16/2010
G0J260451 - 2		L84E91AL	11/8/2010	30.12	✓		12/16/2010
G0J260451 - 3		L84FA1AL	11/8/2010	29.94	✓		12/16/2010
G0J260451 - 4		L84FD1AL	11/8/2010	29.87	✓		12/16/2010
G0J260451 - 4	S	L84FD1DL	11/8/2010	29.92	✓		12/16/2010
G0J260451 - 4	D	L84FD1DM	11/8/2010	29.75	✓		12/16/2010
G0J260451 - 5		L84FF1AL	11/8/2010	30.42	✓		12/16/2010
G0J260451 - 7		L84FL1AL	11/8/2010	30.00	✓		12/16/2010
G0J260451 - 8		L84FN1AL	11/8/2010	30.24	✓		12/16/2010
G0J260451 - 9		L84FQ1AL	11/8/2010	29.84	✓		12/16/2010
G0J260451 - 10		L84FR1AL	11/8/2010	30.28	✓		12/16/2010
G0J260451 - 11		L84FT1AL	11/8/2010	30.34	✓		12/16/2010
G0J260451 - 12		L84FV1AL	11/8/2010	29.47	✓		12/16/2010
G0J260451 - 13		L84FW1AL	11/8/2010	29.82	✓		12/16/2010
G0K060000 - 95	B	L9M771AA	11/8/2010	30.00	✓		12/16/2010
G0K060000 - 95	C	L9M771AC	11/8/2010	30.00	✓		12/16/2010
G0K060000 - 95	C	L9M771AD	11/8/2010	30.00	✓		12/16/2010

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: wt sheet 101106G

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	100P0265 2.0mL	2/28/11	AM	CR	11-6-10
Spike Mix LCS/LCSD/MS/MS	100P0271 500mL	11/15/10	AM	CR	11-6-10
Tox	100P0231 1.0mL	4/7/11	AM	CR	11-6-10

Extraction Analyst/Date: AM 11/6/10

KD Analyst/Date: JB 11-18-10

Concentration Analyst/Date: NS 11-18-10

KD Temp: 87°

Clean up Analyst/Date: NS 11-18-10 Florisil Hg

Review Analyst/Date: 11-18-10

TestAmerica

West Sacramento
Soil Weight Worksheet

Batch Id: 101106G

Created date: 11/6/2010 10:17:59

Test Date: 11/6/2010

ANALYST: 430255
TEST: 8081/8082
BALANCE ID: QA-063

QuantIMS BATCH: 031 0095

Group Comments:

Sample Id:	Weight (g)	Comments:
G0J260451-001	30.10	
G0J260451-002	30.12	
G0J260451-003	29.94	
G0J260451-004	29.87	
G0J260451-004D	29.75	8081
~~G0J260451-004D~~	~~29.75~~	~~8082~~ not on batch
~~G0J260451-004S~~	~~30.24~~	~~8082~~
G0J260451-004S	29.92	8081
G0J260451-005	30.42	
G0J260451-007	30.00	
G0J260451-008	30.24	
G0J260451-009	29.86	
G0J260451-010	30.28	
G0J260451-011	30.34	
G0J260451-012	29.74	
G0J260451-013	29.82	

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/06/10
Time: 12:10:42

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____

Concentrationist: _____
_____

QC BATCH: 0310095

PREP DATE: 11/06/10 10:00
COMP DATE: 11/06/10 15:00

Reviewer/Date: _____ / 0/00/00

Pesticides (8081A)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-001 **L84EX-1-A9**	D	13	QJ	SOLID	**30.10g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-002 **L84E9-1-AL**	D	13	QJ	SOLID	**30.12g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-003 **L84FA-1-AL**	D	13	QJ	SOLID	**29.94g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-AL**	D	13	QJ	SOLID	**29.87g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DLS**	D	13	QJ	SOLID	**29.92g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0271-500UL 100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DMD**	D	13	QJ	SOLID	**29.75g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0271-500UL 100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-005 **L84FF-1-AL**	D	13	QJ	SOLID	**30.42g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/06/10
Time: 12:10:42

QC BATCH: 0310095

PREP DATE: 11/06/10 10:00
COMP DATE: 11/06/10 15:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-007 **L84FL-1-AL**	D	13	QJ	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-008 **L84FN-1-AL**	D	13	QJ	SOLID	**30.24g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-009 **L84FQ-1-AL**	D	13	QJ	SOLID	**29.84g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-010 **L84FR-1-AL**	D	13	QJ	SOLID	**30.28g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-011 **L84FT-1-AL**	D	13	QJ	SOLID	**30.34g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-012 **L84FV-1-AL**	D	13	QJ	SOLID	**29.47g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-013 **L84FW-1-AL**	D	13	QJ	SOLID	**29.82g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-095 **L9M77-1-AAB**		13	QJ	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-095 **L9M77-1-ACC**		13	QJ	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0271-500UL 100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-095 **L9M77-1-ADC**		13	QJ	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0231-1.0ML 100P0265-2.0ML
COMMENTS:															

```
R = RUSH        C = CLP
E = EPA 600     D = EXP.DEL)            NUMBER OF WORK ORDERS IN BATCH:      17
M = CLIENT REQ MS/MSD
$
```

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0310095 **Test:** 8081-S

Prep Date: 11-6-10 **Holding Times:** 11/8/10 **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: Chelsie Rosten Date: 11-5-10 CR 11/18/10

2nd Level Reviewer: [signature] Date: 11-18-10

Comments:

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

11/12

Batch: 0310095 **Method ID:** Pesticides (8081A) Solid LCL

NCM: (Y) N G0J260451

A.			
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.	✓	✓	
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B.			
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.	✓	✓	
C.			
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)	✓		
D.			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: V. Nikoui Date: 11/28/10

2nd Level Reviewer: [signature] Date: 11-29-10

Comments:

SOLID, 8082, PCBs

ICV/CCV
Run Logs
Prep Sheets

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 2

Inst ID: GC66B Batch ID: 112210
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Primary

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
22-NOV-2010	10:51	CR	PRIME	1122-001.	0 g	0 mL	1	
22-NOV-2010	11:16	CR	HEXANE	1122-002.	0 g	0 mL	1	
22-NOV-2010	11:41	CR	PRIME	1122-003.	0 g	0 mL	1	
22-NOV-2010	12:06	CR	1660_300 10GCSV0199 8082 300PP	1122-004.	0 g	0 mL	1	✓
22-NOV-2010	12:31	CR	HEXANE	1122-005.	0 g	0 mL	1	
22-NOV-2010	12:56	CR	1221-54_300 10GCSV0397 CCV	1122-006.	0 g	0 mL	1	
22-NOV-2010	13:22	CR	L9M8M1AA 0310096 MB	1122-007.	30 g	10 mL	1	
22-NOV-2010	13:47	CR	L9M8M1AC 0310096 LCS	1122-008.	30 g	10 mL	1	
22-NOV-2010	14:12	CR	L84FL1AK 0310096 J260451-7 5X	1122-009.	30 g	10 mL	5	
22-NOV-2010	14:37	CR	PRIME	1122-010.	0 g	0 mL	1	
22-NOV-2010	15:02	CR	L84FN1AK 0310096 J260451-8 10X	1122-011.	30.24 g	10 mL	10	
22-NOV-2010	15:27	CR	PRIME	1122-012.	0 g	0 mL	1	
22-NOV-2010	15:52	CR	L84FQ1AK 0310096 J260451-9 5X	1122-013.	29.86 g	10 mL	5	
22-NOV-2010	16:18	CR	HEXANE	1122-014.	0 g	0 mL	1	
22-NOV-2010	16:43	CR	L84FR1AK 0310096 J260451-10	1122-015.	30.28 g	10 mL	1	
22-NOV-2010	17:08	CR	HEXANE	1122-016.	0 g	0 mL	1	
22-NOV-2010	17:33	CR	L84FT1AK 0310096 J260451-11	1122-017.	30.34 g	10 mL	1	
22-NOV-2010	17:58	CR	L84FV1AK 0310096 J260451-12 5X	1122-018.	29.74 g	10 mL	5	
22-NOV-2010	18:23	CR	HEXANE	1122-019.	0 g	0 mL	1	
22-NOV-2010	18:48	CR	L84FW1AK 0310096 J260451-13 5X	1122-020.	29.82 g	10 mL	5	
22-NOV-2010	19:13	CR	HEXANE	1122-021.	0 g	0 mL	1	
22-NOV-2010	19:39	CR	L84EX1A8 0310096 J260451-1	1122-022.	30.1 g	10 mL	1	
22-NOV-2010	20:04	CR	PRIME	1122-023.	0 g	0 mL	1	
22-NOV-2010	20:29	CR	HEXANE	1122-024.	0 g	0 mL	1	
22-NOV-2010	20:54	CR	PRIME	1122-025.	0 g	0 mL	1	
22-NOV-2010	21:19	CR	1660_200 10GCSV0198 8082 200PP	1122-026.	0 g	0 mL	1	✓
22-NOV-2010	21:44	CR	HEXANE	1122-027.	0 g	0 mL	1	
22-NOV-2010	22:09	CR	1221-54_500 10GCSV0398 CCV	1122-028.	0 g	0 mL	1	
22-NOV-2010	22:34	CR	L84E91AK 0310096 J260451-2	1122-029.	30.12 g	10 mL	1	
22-NOV-2010	23:00	CR	L84FA1AK 0310096 J260451-3	1122-030.	29.94 g	10 mL	1	
22-NOV-2010	23:25	CR	L84FD1AK 0310096 J260451-4	1122-031.	29.87 g	10 mL	1	Data not used
22-NOV-2010	23:50	CR	HEXANE	1122-032.	0 g	0 mL	1	
23-NOV-2010	00:15	CR	L84FD1DJ 0310096 J260451-4S	1122-033.	30.24 g	10 mL	1	
23-NOV-2010	00:40	CR	L84FD1DK 0310096 J260451-4D	1122-034.	29.75 g	10 mL	1	Data not used
23-NOV-2010	01:05	CR	HEXANE	1122-035.	0 g	0 mL	1	
23-NOV-2010	01:30	CR	L84FF1AK 0310096 J260451-5	1122-036.	30.42 g	10 mL	1	Data not used
23-NOV-2010	01:55	CR	PRIME	1122-037.	0 g	0 mL	1	
23-NOV-2010	02:21	CR	HEXANE	1122-038.	0 g	0 mL	1	
23-NOV-2010	02:46	CR	PRIME	1122-039.	0 g	0 mL	1	
23-NOV-2010	03:11	CR	1660_300 10GCSV0199 8082 300PP	1122-040.	0 g	0 mL	1	✓
23-NOV-2010	03:36	CR	HEXANE	1122-041.	0 g	0 mL	1	
23-NOV-2010	04:01	CR	1221-54_500 10GCSV0398 CCV	1122-042.	0 g	0 mL	1	
23-NOV-2010	04:26	CR	GPC-2 112010 MB	1122-043.	1000 mL	10 mL	1	
23-NOV-2010	04:51	CR	GPC-2 112010 LCS	1122-044.	1000 mL	10 mL	1	

TestAmerica West Sacramento

1122-004.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/22/2010 12:06 **Operator:** CR
DataFile: GC66B.I\112210.B\1122-004.D **Vial Num:** 3
Instrument ID: GC66B

Sample : **1660_300 10GCSV0199 8082 300PPB**

Method File: GC66B.I\112210.B\8082.M
Start Cal Date: 5/25/2010 13:36 **End Cal Date:** 9/24/2010 14:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_300 10GCSV0199 8082 300PPB;2;;4;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	3.41	2943312609	47.7000	50	-5%	Acceptable		(±15)
DCB	16.54	2744320693	48.0400	50	-4%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	2153068164	288.5000	300	-4%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	3857049585	293.2000	300	-2%	Acceptable		(±15)

CFCR 11/22/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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TestAmerica West Sacramento

1122-026.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/22/2010 21:19 **Operator:** CR
DataFile: GC66B.I\112210.B\1122-026.D **Vial Num:** 20
Instrument ID: GC66B

Sample : **1660_200 10GCSV0198 8082 200PPB**

Method File: GC66B.I\112210.B\8082.M
Start Cal Date: 5/25/2010 13:36 **End Cal Date:** 9/24/2010 14:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_200 10GCSV0198 8082 200PPB;2;;3;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	3.41	1549208690	25.1000	25	0%	Acceptable		(±15)
DCB	16.54	1416683958	24.8000	25	-1%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	1499287811	200.9000	200	0%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	2658585865	202.1000	200	1%	Acceptable		(±15)

CFR 11/23/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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1122-040.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/23/2010 3:11 **Operator:** CR
DataFile: GC66B.I\112210.B\1122-040.D **Vial Num:** 30
Instrument ID: GC66B

Sample : **1660_300 10GCSV0199 8082 300PPB**

Method File: GC66B.I\112210.B\8082.M
Start Cal Date: 5/25/2010 13:36 **End Cal Date:** 9/24/2010 14:45 ✓

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_300 10GCSV0199 8082 300PPB;2;;4;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	3.41	3213461619	52.0700	50	4%	Acceptable		(±15)
DCB	16.53	2865141280	50.1600	50	0%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	2247438620	301.1000	300	0%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	3955037046	300.7000	300	0%	Acceptable ✓		(±15)

CFR 11/23/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 3

Inst ID: GC66B Batch ID: 112310
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Primary

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
23-NOV-2010	17:09	CR	PRIME	1123-001.	0 g	0 mL	1	
23-NOV-2010	17:34	CR	HEXANE	1123-002.	0 g	0 mL	1	
23-NOV-2010	17:59	CR	PRIME	1123-003.	0 g	0 mL	1	
23-NOV-2010	18:24	CR	1660_300 10GCSV0199 8082 300PP	1123-004.	0 g	0 mL	1	✓
23-NOV-2010	19:08	CR	L9M8M1AA 0310096 MB RC	1123-005.	30 g	10 mL	1	
23-NOV-2010	21:09	CR	L9M8M1AC 0310096 LCS RC	1123-006.	30 g	10 mL	1	
23-NOV-2010	21:34	CR	L84FD1AK 0310096 J260451-4 RC	1123-007.	29.87 g	10 mL	1	Data used
23-NOV-2010	22:00	CR	HEXANE	1123-008.	0 g	0 mL	1	
23-NOV-2010	22:25	CR	L84FD1DK 0310096 J260451-4D RC	1123-009.	29.75 g	10 mL	1	Data used
23-NOV-2010	22:50	CR	HEXANE	1123-010.	0 g	0 mL	1	
23-NOV-2010	23:15	CR	L84FF1AK 0310096 J260451-5 RC	1123-011.	30.42 g	10 mL	1	Data used
23-NOV-2010	23:40	CR	PRIME	1123-012.	0 g	0 mL	1	
24-NOV-2010	00:05	CR	HEXANE	1123-013.	0 g	0 mL	1	
24-NOV-2010	00:30	CR	PRIME	1123-014.	0 g	0 mL	1	
24-NOV-2010	00:55	CR	1660_200 10GCSV0198 8082 200PP	1123-015.	0 g	0 mL	1	✓

TestAmerica West Sacramento

1123-004.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/23/2010 18:24 **Operator:** CR
DataFile: GC66B.I\112310.B\1123-004.D **Vial Num:** 3
Instrument ID: GC66B

Sample : **1660_300 10GCSV0199 8082 300PPB**

Method File: GC66B.I\112310.B\8082.M
Start Cal Date: 5/25/2010 13:36 **End Cal Date:** 9/24/2010 14:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_300 10GCSV0199 8082 300PPB;2;;4;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	3.41	3199169398	51.8400	50	4%	Acceptable		(±15)
DCB	16.55	2839205024	49.7000	50	-1%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	2271886896	304.4000	300	1%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	3996795995	303.8000	300	1%	Acceptable		(±15)

CFR 11/23/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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TestAmerica West Sacramento

1123-015.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/24/2010 0:55 **Operator:** CR
DataFile: GC66B.I\112310.B\1123-015.D **Vial Num:** 10
Instrument ID: GC66B

Sample : **1660_200 10GCSV0198 8082 200PPB**

Method File: GC66B.I\112310.B\8082.M
Start Cal Date: 5/25/2010 13:36 **End Cal Date:** 9/24/2010 14:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_200 10GCSV0198 8082 200PPB;2;;3;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	3.41	1523496655	24.6900	25	-1%	Acceptable		(±15)
DCB	16.54	1374792261	24.0700	25	-4%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	1439327966	192.8000	200	-4%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	2512334686	191.0000	200	-5%	Acceptable		(±15)

CFR 11/25/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

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TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 24

Inst ID: GC68A Batch ID: 112310A
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Confirmation

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
23-NOV-2010	18:59	CR	HEXANE	1123-001.	30 g	10 mL	1	
23-NOV-2010	19:19	CR	1660_20 10GCSV0473 ICAL8	1123-002.	0 g	0 mL	1	
23-NOV-2010	19:40	CR	1660_50 10GCSV0466 ICAL1	1123-003.	0 g	0 mL	1	
23-NOV-2010	20:00	CR	1660_100 10GCSV0467 ICAL2	1123-004.	0 g	0 mL	1	
23-NOV-2010	20:20	CR	1660_200 10GCSV0468 ICAL3	1123-005.	0 g	0 mL	1	
23-NOV-2010	20:41	CR	1660_300 10GCSV0469 ICAL4	1123-006.	0 g	0 mL	1	
23-NOV-2010	21:01	CR	1660_500 10GCSV0470 ICAL5	1123-007.	0 g	0 mL	1	
23-NOV-2010	21:22	CR	1660_1000 10GCSV0471 ICAL6	1123-008.	0 g	0 mL	1	
23-NOV-2010	21:42	CR	1660_2000 10GCSV0472 ICAL7	1123-009.	0 g	0 mL	1	
23-NOV-2010	22:03	CR	HEXANE	1123-010.	0 g	0 mL	1	
23-NOV-2010	22:23	CR	1660_300 10GCSV0475 ICV	1123-011.	0 g	0 mL	1	✓
23-NOV-2010	22:44	CR	HEXANE	1123-012.	0 g	0 mL	1	
23-NOV-2010	23:04	CR	L9M8M1AA 0310096 MB	1123-013.	30 g	10 mL	1	
23-NOV-2010	23:25	CR	L84EX1A8 0310096 J260451-1	1123-014.	30.1 g	10 mL	1	
23-NOV-2010	23:45	CR	HEXANE	1123-015.	0 g	10 mL	1	
24-NOV-2010	00:06	CR	L84E91AK 0310096 J260451-2	1123-016.	30.12 g	10 mL	1	
24-NOV-2010	00:26	CR	HEXANE	1123-017.	0 g	10 mL	1	
24-NOV-2010	00:47	CR	L84FA1AK 0310096 J260451-3	1123-018.	29.94 g	10 mL	1	
24-NOV-2010	01:07	CR	L84FD1AK 0310096 J260451-4 RC	1123-019.	29.87 g	10 mL	1	
24-NOV-2010	01:28	CR	L84FF1AK 0310096 J260451-5 RC	1123-020.	30.42 g	10 mL	1	
24-NOV-2010	01:48	CR	PRIME	1123-021.	0 g	0 mL	1	
24-NOV-2010	02:09	CR	HEXANE	1123-022.	0 g	0 mL	1	
24-NOV-2010	02:29	CR	PRIME	1123-023.	0 g	0 mL	1	
24-NOV-2010	02:50	CR	1660_300 10GCSV0469 CCV	1123-024.	0 g	0 mL	1	✓
24-NOV-2010	03:10	CR	L84FL1AK 0310096 J260451-7 5X	1123-025.	30 g	10 mL	5	
24-NOV-2010	03:31	CR	HEXANE	1123-026.	0 g	0 mL	1	
24-NOV-2010	03:51	CR	L84FN1AK 0310096 J260451-8 10X	1123-027.	30.24 g	10 mL	10	
24-NOV-2010	04:12	CR	PRIME	1123-028.	0 g	0 mL	1	
24-NOV-2010	04:32	CR	L84FQ1AK 0310096 J260451-9 5X	1123-029.	29.86 g	10 mL	5	
24-NOV-2010	04:53	CR	HEXANE	1123-030.	0 g	0 mL	1	
24-NOV-2010	05:13	CR	L84FR1AK 0310096 J260451-10	1123-031.	30.28 g	10 mL	1	
24-NOV-2010	05:34	CR	HEXANE	1123-032.	0 g	0 mL	1	
24-NOV-2010	05:54	CR	L84FT1AK 0310096 J260451-11	1123-033.	30.34 g	10 mL	1	
24-NOV-2010	06:15	CR	HEXANE	1123-034.	0 g	0 mL	1	
24-NOV-2010	06:35	CR	L84FV1AK 0310096 J260451-12 5X	1123-035.	29.74 g	10 mL	5	
24-NOV-2010	06:56	CR	HEXANE	1123-036.	0 g	0 mL	1	
24-NOV-2010	07:16	CR	L84FW1AK 0310096 J260451-13 5X	1123-037.	29.82 g	10 mL	5	
24-NOV-2010	07:37	CR	PRIME	1123-038.	0 g	0 mL	1	
24-NOV-2010	07:57	CR	HEXANE	1123-039.	0 g	0 mL	1	
24-NOV-2010	08:18	CR	PRIME	1123-040.	0 g	0 mL	1	
24-NOV-2010	08:38	CR	1660_500 10GCSV0470 CCV	1123-041.	0 g	0 mL	1	✓
24-NOV-2010	11:02	CR	HEXANE	1123-042.	0 g	0 mL	1	
24-NOV-2010	11:23	CR	1660_300 10GCSV0475 ICV	1123-043.	0 g	0 mL	1	

TestAmerica West Sacramento

1123-024.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/24/2010 2:50 **Operator:** CR
DataFile: GC68A.I\112310A.B\1123-024.D **Vial Num:** 24
Instrument ID: GC68A

Sample : **1660_300 10GCSV0469 CCV**

Method File: GC68A.I\112310A.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 11/23/2010 21:42

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_300 10GCSV0469 CCV;2;;4;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	2.32	1228856919	49.5800	50	-1%	Acceptable		(±15)
DCB	16.59	748513597	47.6000	50	-5%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	864931541	289.7000	300	-3%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	1057684702	284.9000	300	-5%	Acceptable		(±15)

CF 12 11/24/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 11/24/2010 4:37 PM

TestAmerica West Sacramento

1123-041.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/24/2010 8:38 **Operator:** CR
DataFile: GC68A.I\112310A.B\1123-041.D **Vial Num:** 40
Instrument ID: GC68A

Sample : **1660_500 10GCSV0470 CCV**

Method File: GC68A.I\112310A.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 11/23/2010 21:42

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 1-1660CAL.SUB **SpikeList:**
Samp. Info: 1660_500 10GCSV0470 CCV;2;;5;;;;
Misc. Info: 3;1-1660CAL.SUB;;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
TCX	2.32	1737936291	70.1100	70	0%	Acceptable		(±15)
DCB	16.58	1054809421	67.0800	70	-4%	Acceptable		(±15)
Aroclor 1016-Totals	1.00	1394106281	466.9000	500	-7%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	1744063360	469.8000	500	-6%	Acceptable		(±15)

CTC 11/24/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 11/24/2010 4:38 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 29

Inst ID: GC66B Batch ID: 092410
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
24-SEP-2010	11:24	CR	HEXANE	0924-001.	30 g	10 mL	1	
24-SEP-2010	11:49	CR	1660_20 10GCSV0203 ICAL8	0924-002.	0 g	0 mL	1	
24-SEP-2010	12:14	CR	1660_50 10GCSV0196 ICAL1	0924-003.	0 g	0 mL	1	
24-SEP-2010	12:39	CR	1660_100 10GCSV0197 ICAL2	0924-004.	0 g	0 mL	1	
24-SEP-2010	13:05	CR	1660_200 10GCSV0198 ICAL3	0924-005.	0 g	0 mL	1	
24-SEP-2010	13:30	CR	1660_300 10GCSV0199 ICAL4	0924-006.	0 g	0 mL	1	
24-SEP-2010	13:55	CR	1660_500 10GCSV0200 ICAL5	0924-007.	0 g	0 mL	1	
24-SEP-2010	14:20	CR	1660_1000 10GCSV0201 ICAL6	0924-008.	0 g	0 mL	1	
24-SEP-2010	14:45	CR	1660_2000 10GCSV0202 ICAL7	0924-009.	0 g	0 mL	1	
24-SEP-2010	15:10	CR	HEXANE	0924-010.	30 g	10 mL	1	✓
24-SEP-2010	15:35	CR	1660_300 10GCSV0205 ICV	0924-011.	0 g	0 mL	1	
24-SEP-2010	16:01	CR	L60KQ1AA 0257234 MB	0924-012.	1000 mL	10 mL	1	
24-SEP-2010	16:26	CR	L60KQ1AC 0257234 LCS	0924-013.	1000 mL	10 mL	1	
24-SEP-2010	16:51	CR	L60KQ1AC 0257234 LCSD	0924-014.	1000 mL	10 mL	1	
24-SEP-2010	17:16	CR	L6VPK1AM 0257234 I110462-1	0924-015.	1052.15 mL	10 mL	1	

Sequence not finished
CFR 9/24/10

TestAmerica West Sacramento

0924-011.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 9/24/2010 15:35 Operator: CR
DataFile: GC66B.I\092410.B\0924-011.D Vial None: 11
Instrument ID: GC66B

Sample: **1660_300 10GCSV0205 ICV**

Method File: GC66B.I\092410.B\8082.M
Start Cal Date: 5/25/2010 13:36 End Cal Date: 9/24/2010 14:45 ✓

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 10-1660ICV.sub SpikeList:
Samp. Info: 1660_300 10GCSV0205 ICV;2;;4;;;;
Misc. Info: 3;10-1660ICV.sub;;0;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1016-Totals	1.00	2134564140	286.0000	300	-5%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	3857400246	293.2000	300	-2%	Acceptable ✓		(±15)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Passes second source criteria

CFR 9/29/10

Printed: 9/24/2010 6:09 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 15

Inst ID: GC66B Batch ID: 061010
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
10-JUN-2010	21:23	VN	HEXANE	0610-001.	0 g	0 mL	1	
10-JUN-2010	21:57	VN	1248_50 10GCSV0135 ICAL1	0610-002.	0 g	0 mL	1	
10-JUN-2010	22:22	VN	1248_100 10GCSV0136 ICAL2	0610-003.	0 g	0 mL	1	
10-JUN-2010	22:47	VN	1248_200 10GCSV0137 ICAL3	0610-004.	0 g	0 mL	1	
10-JUN-2010	23:12	VN	1248_300 10GCSV0138 ICAL4	0610-005.	0 g	0 mL	1	
10-JUN-2010	23:37	VN	1248_500 10GCSV0139 ICAL5	0610-006.	0 g	0 mL	1	
11-JUN-2010	00:03	VN	1248_1000 10GCSV0140 ICAL6	0610-007.	0 g	0 mL	1	
11-JUN-2010	00:28	VN	HEXANE	0610-008.	0 g	0 mL	1	
11-JUN-2010	00:53	VN	1248_300 10GCSV0070 ICV	0610-009.	0 g	0 mL	1	
11-JUN-2010	01:18	VN	AQ 1248 Q2 MB	0610-010.	1000 mL	10 mL	1	
11-JUN-2010	01:43	VN	AQ 1248 LOQ-Q2	0610-011.	1000 mL	10 mL	1	
11-JUN-2010	02:08	VN	AQ 1248 LOD-Q2	0610-012.	1000 mL	10 mL	1	
11-JUN-2010	02:33	VN	SOLID 1248 Q2 MB	0610-013.	30 g	10 mL	1	
11-JUN-2010	02:58	VN	SOLID 1248 LOQ-Q2	0610-014.	30 g	10 mL	1	
11-JUN-2010	03:23	VN	SOLID 1248 LOD-Q2	0610-015.	30 g	10 mL	1	
11-JUN-2010	03:49	VN	1248_300 10GCSV0138 CCV	0610-016.	0 g	0 mL	1	
11-JUN-2010	04:14	VN	HEXANE	0610-017.	0 g	0 mL	1	
11-JUN-2010	04:39	VN	1221-54_50 10GCSV0143 ICAL1	0610-018.	0 g	0 mL	1	
11-JUN-2010	05:04	VN	1221-54_100 10GCSV0144 ICAL2	0610-019.	0 g	0 mL	1	
11-JUN-2010	05:29	VN	1221-54_200 10GCSV0145 ICAL3	0610-020.	0 g	0 mL	1	
11-JUN-2010	05:54	VN	1221-54_300 10GCSV0146 ICAL4	0610-021.	0 g	0 mL	1	
11-JUN-2010	06:20	VN	1221-54_500 10GCSV0147 ICAL5	0610-022.	0 g	0 mL	1	
11-JUN-2010	06:45	VN	1221-54_1000 10GCSV0148 ICAL6	0610-023.	0 g	0 mL	1	
11-JUN-2010	07:10	VN	HEXANE	0610-024.	0 g	0 mL	1	
11-JUN-2010	07:35	VN	1221-54_300 10GCSV0067 ICV	0610-025.	0 g	0 mL	1	
11-JUN-2010	08:00	VN	AQ 1221-54 Q2 MB	0610-026.	1000 mL	10 mL	1	
11-JUN-2010	08:25	VN	AQ 1221-54 LOQ-Q2	0610-027.	1000 mL	10 mL	1	
11-JUN-2010	08:50	VN	AQ 1221-54 LOD-Q2	0610-028.	1000 mL	10 mL	1	
11-JUN-2010	09:16	VN	SOLID 1221-54 Q2 MB	0610-029.	30 g	10 mL	1	
11-JUN-2010	09:41	VN	SOLID 1221-54 LOQ-Q2	0610-030.	30 g	10 mL	1	
11-JUN-2010	10:06	VN	SOLID 1221-54 LOD-Q2	0610-031.	30 g	10 mL	1	
11-JUN-2010	10:31	VN	1221-54_300 10GCSV0146 CCV	0610-032.	0 g	0 mL	1	
11-JUN-2010	10:56	VN	HEXANE	0610-033.	0 g	0 mL	1	
11-JUN-2010	11:21	VN	1232-62_50 10GCSV0153 ICAL1	0610-034.	0 g	0 mL	1	
11-JUN-2010	11:46	VN	1232-62_100 10GCSV0154 ICAL2	0610-035.	0 g	0 mL	1	
11-JUN-2010	12:12	VN	1232-62_200 10GCSV0155 ICAL3	0610-036.	0 g	0 mL	1	
11-JUN-2010	12:37	VN	1232-62_300 10GCSV0156 ICAL4	0610-037.	0 g	0 mL	1	
11-JUN-2010	13:02	VN	1232-62_500 10GCSV0157 ICAL5	0610-038.	0 g	0 mL	1	
11-JUN-2010	13:27	VN	1232-62_1000 10GCSV0158 ICAL6	0610-039.	0 g	0 mL	1	
11-JUN-2010	13:52	VN	HEXANE	0610-040.	0 g	0 mL	1	
11-JUN-2010	14:17	VN	1232-62_300 10GCSV0068 ICV	0610-041.	0 g	0 mL	1	
11-JUN-2010	14:42	VN	AQ 1232-62 Q2 MB	0610-042.	1000 mL	10 mL	1	
11-JUN-2010	15:08	VN	AQ 1232-62 LOQ-Q2	0610-043.	1000 mL	10 mL	1	
11-JUN-2010	15:33	VN	AQ 1232-62 LOD-Q2	0610-044.	1000 mL	10 mL	1	
11-JUN-2010	15:58	VN	SOLID 1232-62 Q2 MB	0610-045.	30 g	10 mL	1	
11-JUN-2010	16:23	VN	SOLID 1232-62 LOQ-Q2	0610-046.	30 g	10 mL	1	
11-JUN-2010	16:48	VN	SOLID 1232-62 LOD-Q2	0610-047.	30 g	10 mL	1	
11-JUN-2010	17:13	VN	1232-62_300 10GCSV0156 CCV	0610-048.	0 g	0 mL	1	
11-JUN-2010	17:38	VN	HEXANE	0610-049.	0 g	0 mL	1	
11-JUN-2010	18:03	VN	1242-68_50 10GCSV0124 ICAL1	0610-050.	0 g	0 mL	1	

Sequence continued on next page

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 16

Page 2 of Batch 061010 on Instrument GC66B
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
11-JUN-2010	18:29	VN	1242-68_100 10GCSV0125 ICAL2	0610-051.	0 g	0 mL	1	
11-JUN-2010	18:54	VN	1242-68_200 10GCSV0126 ICAL3	0610-052.	0 g	0 mL	1	
11-JUN-2010	19:19	VN	1242-68_300 10GCSV0127 ICAL4	0610-053.	0 g	0 mL	1	
11-JUN-2010	19:44	VN	1242-68_500 10GCSV0128 ICAL5	0610-054.	0 g	0 mL	1	
11-JUN-2010	20:09	VN	1242-68_1000 10GCSV0129 ICAL6	0610-055.	0 g	0 mL	1	
11-JUN-2010	20:34	VN	HEXANE	0610-056.	0 g	0 mL	1	
11-JUN-2010	20:59	VN	1242-68_300 10GCSV0069 ICV	0610-057.	0 g	0 mL	1	
11-JUN-2010	21:25	VN	AQ 1242-68 Q2 MB	0610-058.	1000 mL	10 mL	1	
11-JUN-2010	21:50	VN	AQ 1242-68 LOQ-Q2	0610-059.	1000 mL	10 mL	1	
11-JUN-2010	22:15	VN	AQ 1242-68 LOD-Q2	0610-060.	1000 mL	10 mL	1	
11-JUN-2010	22:40	VN	SOLID 1242-68 Q2 MB	0610-061.	30 g	10 mL	1	
11-JUN-2010	23:05	VN	SOLID 1242-68 LOQ-Q2	0610-062.	30 g	10 mL	1	
11-JUN-2010	23:30	VN	SOLID 1242-68 LOD-Q2	0610-063.	30 g	10 mL	1	
11-JUN-2010	23:55	VN	1242-68_300 10GCSV0127 ICAL4	0610-064.	0 g	0 mL	1	

TestAmerica West Sacramento

0610-057.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 6/11/2010 20:59 Operator: VN
DataFile: GC66B.N061010.B\0610-057.D Vial Name: 57
Instrument ID: GC66B

Sample: **1242-68_300 10GCSV0069 ICV**

Method File: GC66B.N061010.B\8082.M
Start Cal Date: 5/25/2010 13:36 End Cal Date: 6/11/2010 20:08

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 4-1242-1268CAL.SE;pfmList:
Samp. Info: 1242-68_300 10GCSV0069 ICV;2;;4;;;;
Misc. Info: 3;4-1242-1268CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1242-Totals	1.00	17.13073342	297.4000	300	-1%	Acceptable		(±15)
Aroclor 1268-Totals	1.00	4245197838	295.1000	300	-2%	Acceptable		(±15)

Notes: M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Passes second source criteria.
VMN 6/14/10

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TestAmerica West Sacramento

0610-041.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 6/11/2010 14:17 Operator: VN
DataFile: GC66B.N061010.B\0610-041.D Vial Num: 41
Instrument ID: GC66B

Sample: **1232-62_300 10GCSV0068 ICV**

Method File: GC66B.N061010.B\8082.M
Start Cal Date: 5/25/2010 13:36 End Cal Date: 6/11/2010 13:27

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE Sub List: 3-1232-1262CAL.SSpiked.sub
Samp. Info: 1232-62_300 10GCSV0068 ICV;2;;4;;;
Misc. Info: 3;3-1232-1262CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Split Level	%D	Result	Flag	Limits(%)
Aroclor 1232-Totals	1.00	1018991362	286.5000	300	-5%	Acceptable		(±15)
Aroclor 1262-Totals	1.00	4011090463	297.6000	300	-1%	Acceptable		(±15)

Passes second source criteria
VMN 6/14/10

Notes: M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 6/14/2010 11:01 AM

TestAmerica West Sacramento

0610-025.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 6/11/2010 7:35 Operator: VN
DataFile: GC66B.N061010.B\0610-025.D Vial Name: 25
Instrument ID: GC66B

Sample: **1221-54_300 10GCSV0067 ICV**

Method File: GC66B.N061010.B\8082.M
Start Cal Date: 5/25/2010 13:36 End Cal Date: 6/11/2010 6:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: 2-1221-1254CAL.SSpikeList:
Samp. Info: 1221-54_300 10GCSV0067 ICV2;A;;;
Misc. Info: 32-1221-1254CAL.SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1221-Total	1.01	783047641	310.0000	300	3%	Acceptable		(±15)
Aroclor 1254-Total	1.00	38639227746	277.6000	300	-7%	Acceptable		(±15)

Notes: M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Passes second source criteria
VLN 6/14/10

Printed: 6/14/2010 10:34 AM

TestAmerica West Sacramento

0610-009.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 6/11/2010 0:53 Operator: VN
DataFile: GC66B.N061010.B0610-009.D Vial Name: 9
Instrument ID: GC66B

Sample: **1248_300 10GCSV0070 ICV**

Method File: GC66B.N061010.B8082.M
Start Cal Date: 5/25/2010 13:36 End Cal Date: 6/11/2010 0:03

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: S-1248CAL_SUB SpikeList:
Samp. Info: 1248_300 10GCSV0070 ICV;2;;4;;;;
Misc. Info: 3;S-1248CAL_SUB;;;

DB-1701

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1248-Totals	1.00	2422991745	295.5000	300	-2%	Acceptable		(±15)

Passes second source criteria.
VMN 6/14/10

Notes: M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

LKR 6-14-10

Printed: 6/14/2010 10:06 AM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 11

Inst ID: GC68A Batch ID: 073010
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
30-JUL-2010	16:51	VN	HEXANE	0730-001.	30 g	10 mL	1	
30-JUL-2010	17:12	VN	RT MARKER	0730-002.	30 g	10 mL	1	
30-JUL-2010	17:32	VN	1248_50 10GCSV0135 ICAL1	0730-003.	0 g	0 mL	1	
30-JUL-2010	17:53	VN	1248_100 10GCSV0136 ICAL2	0730-004.	0 g	0 mL	1	
30-JUL-2010	18:13	VN	1248_200 10GCSV0137 ICAL3	0730-005.	0 g	0 mL	1	
30-JUL-2010	18:33	VN	1248_300 10GCSV0138 ICAL4	0730-006.	0 g	0 mL	1	
30-JUL-2010	18:54	VN	1248_500 10GCSV0139 ICAL5	0730-007.	0 g	0 mL	1	
30-JUL-2010	19:14	VN	1248_1000 10GCSV0140 ICAL6	0730-008.	0 g	0 mL	1	
30-JUL-2010	19:35	VN	HEXANE	0730-009.	0 g	0 mL	1	
30-JUL-2010	19:55	VN	1248_300 10GCSV0268 ICV	0730-010.	0 g	0 mL	1	
30-JUL-2010	20:16	VN	AQ 1248 Q3 MB	0730-011.	1000 mL	10 mL	1	
30-JUL-2010	20:36	VN	AQ 1248 LOQ-Q3	0730-012.	1000 mL	10 mL	1	
30-JUL-2010	20:57	VN	AQ 1248 LOD-Q3	0730-013.	1000 mL	10 mL	1	
30-JUL-2010	21:17	VN	SOLID 1248 Q3 MB	0730-014.	30 g	10 mL	1	
30-JUL-2010	21:38	VN	SOLID 1248 LOQ-Q3	0730-015.	30 g	10 mL	1	
30-JUL-2010	21:58	VN	SOLID 1248 LOD-Q3	0730-016.	30 g	10 mL	1	
30-JUL-2010	22:19	VN	1248_300 10GCSV0138 CCV	0730-017.	0 g	0 mL	1	
30-JUL-2010	22:39	VN	HEXANE	0730-018.	0 g	0 mL	1	

TestAmerica West Sacramento

0730-010.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 7/30/2010 19:55 **Operator:** VN
DataFile: GC68A.I\073010.B\0730-010.D **Vial Num:** 10
Instrument ID: GC68A

Sample : **1248_300 10GCSV0268 ICV**

Method File: GC68A.I\073010.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 7/30/2010 19:14

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 5-1248CAL.SUB **SpikeList:**
Samp. Info: 1248_300 10GCSV0268 ICV;2;;4;;;;
Misc. Info: 3;5-1248CAL.SUB;;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1248-Totals	1.00	717181129	300.1000	300	0%	Acceptable		(±15)

Passes second source criteria.
VMN 7/31/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 7/31/2010 2:05 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 10

Inst ID: GC68A Batch ID: 072910
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
29-JUL-2010	15:13	VN	HEXANE	0729-001.	0 g	0 mL	1	
29-JUL-2010	15:34	VN	RT MARKER	0729-002.	0 g	0 mL	1	
29-JUL-2010	15:55	VN	1242-68_50 10GCSV0124 ICAL1	0729-003.	0 g	0 mL	1	
29-JUL-2010	16:15	VN	1242-68_100 10GCSV0125 ICAL2	0729-004.	0 g	0 mL	1	
29-JUL-2010	16:36	VN	1242-68_200 10GCSV0126 ICAL3	0729-005.	0 g	0 mL	1	
29-JUL-2010	16:56	VN	1242-68_300 10GCSV0127 ICAL4	0729-006.	0 g	0 mL	1	
29-JUL-2010	17:17	VN	1242-68_500 10GCSV0128 ICAL5	0729-007.	0 g	0 mL	1	
29-JUL-2010	17:37	VN	1242-68_1000 10GCSV0129 ICAL6	0729-008.	0 g	0 mL	1	
29-JUL-2010	17:58	VN	HEXANE	0729-009.	0 g	0 mL	1	
29-JUL-2010	18:18	VN	1242-68_300 10GCSV0267 ICV	0729-010.	0 g	0 mL	1	
29-JUL-2010	18:39	VN	AQ 1242-68 Q3 MB	0729-011.	1000 mL	10 mL	1	
29-JUL-2010	18:59	VN	AQ 1242-68 LOQ-Q3	0729-012.	1000 mL	10 mL	1	
29-JUL-2010	19:20	VN	AQ 1242-68 LOD-Q3	0729-013.	1000 mL	10 mL	1	
29-JUL-2010	19:40	VN	SOLID 1242-68 Q3 MB	0729-014.	30 g	10 mL	1	
29-JUL-2010	20:00	VN	SOLID 1242-68 LOQ-Q3	0729-015.	30 g	10 mL	1	
29-JUL-2010	20:21	VN	SOLID 1242-68 LOD-Q3	0729-016.	30 g	10 mL	1	
29-JUL-2010	20:41	VN	1242-68_300 10GCSV0127 CCV	0729-017.	0 g	0 mL	1	
29-JUL-2010	21:02	VN	HEXANE	0729-018.	0 g	0 mL	1	

TestAmerica West Sacramento

0729-010.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 7/29/2010 18:18 **Operator:** VN
DataFile: GC68A.I\072910.B\0729-010.D **Vial Num:** 10
Instrument ID: GC68A

Sample : **1242-68_300 10GCSV0267 ICV**

Method File: GC68A.I\072910.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 7/29/2010 17:37

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 4-1242-1268CAL.SSpikeList:
Samp. Info: 1242-68_300 10GCSV0267 ICV;2;;4;;;;
Misc. Info: 3;4-1242-1268CAL.SUB;;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1242-Totals	1.00	612676293	300.2000	300	0%	Acceptable		(±15)
Aroclor 1268-Totals	1.00	1086808055	287.0000	300	-4%	Acceptable		(±15)

Passes second source criteria.
VMN 7/31/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 7/31/2010 1:01 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 9

Inst ID: GC68A Batch ID: 072810
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
28-JUL-2010	15:58	VN	HEXANE	0728-001.	0 g	0 mL	1	
28-JUL-2010	16:19	VN	RT MARKER	0728-002.	0 g	0 mL	1	
28-JUL-2010	16:39	VN	1232-62_50 10GCSV0153 ICAL1	0728-003.	0 g	0 mL	1	
28-JUL-2010	17:00	VN	1232-62_100 10GCSV0154 ICAL2	0728-004.	0 g	0 mL	1	
28-JUL-2010	17:20	VN	1232-62_200 10GCSV0155 ICAL3	0728-005.	0 g	0 mL	1	
28-JUL-2010	17:41	VN	1232-62_300 10GCSV0156 ICAL4	0728-006.	0 g	0 mL	1	
28-JUL-2010	18:01	VN	1232-62_500 10GCSV0157 ICAL5	0728-007.	0 g	0 mL	1	
28-JUL-2010	18:22	VN	1232-62_1000 10GCSV0158 ICAL6	0728-008.	0 g	0 mL	1	
28-JUL-2010	18:42	VN	HEXANE	0728-009.	0 g	0 mL	1	
28-JUL-2010	19:03	VN	1232-62_300 10GCSV0266 ICV	0728-010.	0 g	0 mL	1	
28-JUL-2010	19:23	VN	AQ 1232-62 Q3 MB	0728-011.	1000 mL	10 mL	1	
28-JUL-2010	19:44	VN	AQ 1232-62 LOQ-Q3	0728-012.	1000 mL	10 mL	1	
28-JUL-2010	20:04	VN	AQ 1232-62 LOD-Q3	0728-013.	1000 mL	10 mL	1	
28-JUL-2010	20:25	VN	SOLID 1232-62 Q3 MB	0728-014.	30 g	10 mL	1	
28-JUL-2010	20:45	VN	SOLID 1232-62 LOQ-Q3	0728-015.	30 g	10 mL	1	
28-JUL-2010	21:06	VN	SOLID 1232-62 LOD-Q3	0728-016.	30 g	10 mL	1	
28-JUL-2010	21:26	VN	1232-62_300 10GCSV0156 CCV	0728-017.	0 g	0 mL	1	
28-JUL-2010	21:47	VN	HEXANE	0728-018.	0 g	0 mL	1	

TestAmerica West Sacramento

0728-010.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 7/28/2010 19:03 **Operator:** VN
DataFile: GC68A.I\072810.B\0728-010.D **Vial Num:** 10
Instrument ID: GC68A

Sample : **1232-62_300 10GCSV0266 ICV**

Method File: GC68A.I\072810.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 7/28/2010 18:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 3-1232-1262CAL.SSpikeList:
Samp. Info: 1232-62_300 10GCSV0266 ICV;2;;4;;;;
Misc. Info: 3;3-1232-1262CAL.SUB;;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1232-Totals	1.00	371630164	286.2000	300	-5%	Acceptable		(±15)
Aroclor 1262-Totals	1.00	1075316115	298.5000	300	-1%	Acceptable		(±15)

Passes Second source criteria.
VMN 7/29/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Printed: 7/29/2010 2:42 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 12

Inst ID: GC68A Batch ID: 102910
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Dilu	Comments
29-OCT-2010	10:31	CR	HEXANE	1029-001.	0 g	0 mL	1	✓
29-OCT-2010	10:51	CR	1660_300 10GCSV0199 CCV	1029-002.	0 g	0 mL	1	✓
29-OCT-2010	11:12	CR	HEXANE	1029-003.	0 g	0 mL	1	
29-OCT-2010	11:32	CR	1221-54_50 10GCSV0394 ICAL1	1029-004.	0 g	0 mL	1	
29-OCT-2010	11:53	CR	1221-54_100 10GCSV0395 ICAL2	1029-005.	0 g	0 mL	1	
29-OCT-2010	12:13	CR	1221-54_200 10GCSV0396 ICAL3	1029-006.	0 g	0 mL	1	
29-OCT-2010	12:34	CR	1221-54_300 10GCSV0397 ICAL4	1029-007.	0 g	0 mL	1	
29-OCT-2010	12:54	CR	1221-54_500 10GCSV0398 ICAL5	1029-008.	0 g	0 mL	1	
29-OCT-2010	13:14	CR	1221-54_1000 10GCSV0399 ICAL6	1029-009.	0 g	0 mL	1	
29-OCT-2010	13:35	CR	HEXANE	1029-010.	0 g	0 mL	1	
29-OCT-2010	13:55	CR	1221-54_300 10GCSV0264 ICV	1029-011.	0 g	0 mL	1	✓
29-OCT-2010	14:16	CR	HEXANE	1029-012.	0 g	0 mL	1	
29-OCT-2010	14:36	CR	L793D1AA 0284349 MB	1029-013.	30 g	10 mL	1	
29-OCT-2010	14:57	CR	L7QM41A1 0284349 I300452-1	1029-014.	30.04 g	10 mL	1	
29-OCT-2010	15:17	CR	HEXANE	1029-015.	0 g	0 mL	1	
29-OCT-2010	15:38	CR	L7QN31AC 0284349 I300452-3	1029-016.	30.08 g	10 mL	1	
29-OCT-2010	15:58	CR	HEXANE	1029-017.	0 g	0 mL	1	
29-OCT-2010	16:19	CR	L7QPA1AC 0284349 I300452-6	1029-018.	30.18 g	10 mL	1	
29-OCT-2010	16:39	CR	PRIME	1029-019.	0 g	0 mL	1	
29-OCT-2010	17:00	CR	L7QNT1AC 0284349 I300452-8	1029-020.	30.04 g	10 mL	1	

Sequence not completed
CFR 10/29/10

TestAmerica West Sacramento

1029-011.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 10/29/2010 13:55 **Operator:** CR
DataFile: GC68A.I\102910.B\1029-011.D **Vial Num:** 11
Instrument ID: GC68A

Sample : **1221-54_300 10GCSV0264 ICV**

Method File: GC68A.I\102910.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 10/29/2010 13:14 ✓

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 2-1221-1254CAL.S **SpikeList:**
Samp. Info: 1221-54_300 10GCSV0264 ICV;2;;4;;;;
Misc. Info: 3;2-1221-1254CAL.SUB;;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1221-Total	1.01	261179497	290.8000	300	-3%	Acceptable		(±15)
Aroclor 1254-Totals	1.00	935039768	298.7000	300	0%	Acceptable	✓	(±15)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Passes second source criteria
CFR 10/29/10

Printed: 10/29/2010 5:55 PM

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 24

Inst ID: GC68A Batch ID: 112310A
Method : 8082, TO-4, TO-4A, TO-10, and TO-10A Test : PCBs by GC-ECD
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
23-NOV-2010	18:59	CR	HEXANE	1123-001.	30 g	10 mL	1	
23-NOV-2010	19:19	CR	1660_20 10GCSV0473 ICAL8	1123-002.	0 g	0 mL	1	
23-NOV-2010	19:40	CR	1660_50 10GCSV0466 ICAL1	1123-003.	0 g	0 mL	1	
23-NOV-2010	20:00	CR	1660_100 10GCSV0467 ICAL2	1123-004.	0 g	0 mL	1	
23-NOV-2010	20:20	CR	1660_200 10GCSV0468 ICAL3	1123-005.	0 g	0 mL	1	
23-NOV-2010	20:41	CR	1660_300 10GCSV0469 ICAL4	1123-006.	0 g	0 mL	1	
23-NOV-2010	21:01	CR	1660_500 10GCSV0470 ICAL5	1123-007.	0 g	0 mL	1	
23-NOV-2010	21:22	CR	1660_1000 10GCSV0471 ICAL6	1123-008.	0 g	0 mL	1	
23-NOV-2010	21:42	CR	1660_2000 10GCSV0472 ICAL7	1123-009.	0 g	0 mL	1	
23-NOV-2010	22:03	CR	HEXANE	1123-010.	0 g	0 mL	1	
23-NOV-2010	22:23	CR	1660_300 10GCSV0475 ICV	1123-011.	0 g	0 mL	1	See RI
23-NOV-2010	22:44	CR	HEXANE	1123-012.	0 g	0 mL	1	
23-NOV-2010	23:04	CR	L9M8M1AA 0310096 MB	1123-013.	30 g	10 mL	1	
23-NOV-2010	23:25	CR	L84EX1A8 0310096 J260451-1	1123-014.	30.1 g	10 mL	1	
23-NOV-2010	23:45	CR	HEXANE	1123-015.	0 g	10 mL	1	
24-NOV-2010	00:06	CR	L84E91AK 0310096 J260451-2	1123-016.	30.12 g	10 mL	1	
24-NOV-2010	00:26	CR	HEXANE	1123-017.	0 g	10 mL	1	
24-NOV-2010	00:47	CR	L84FA1AK 0310096 J260451-3	1123-018.	29.94 g	10 mL	1	
24-NOV-2010	01:07	CR	L84FD1AK 0310096 J260451-4 RC	1123-019.	29.87 g	10 mL	1	
24-NOV-2010	01:28	CR	L84FF1AK 0310096 J260451-5 RC	1123-020.	30.42 g	10 mL	1	
24-NOV-2010	01:48	CR	PRIME	1123-021.	0 g	0 mL	1	
24-NOV-2010	02:09	CR	HEXANE	1123-022.	0 g	0 mL	1	
24-NOV-2010	02:29	CR	PRIME	1123-023.	0 g	0 mL	1	
24-NOV-2010	02:50	CR	1660_300 10GCSV0469 CCV	1123-024.	0 g	0 mL	1	
24-NOV-2010	03:10	CR	L84FL1AK 0310096 J260451-7 5X	1123-025.	30 g	10 mL	5	
24-NOV-2010	03:31	CR	HEXANE	1123-026.	0 g	0 mL	1	
24-NOV-2010	03:51	CR	L84FN1AK 0310096 J260451-8 10X	1123-027.	30.24 g	10 mL	10	
24-NOV-2010	04:12	CR	PRIME	1123-028.	0 g	0 mL	1	
24-NOV-2010	04:32	CR	L84FQ1AK 0310096 J260451-9 5X	1123-029.	29.86 g	10 mL	5	
24-NOV-2010	04:53	CR	HEXANE	1123-030.	0 g	0 mL	1	
24-NOV-2010	05:13	CR	L84FR1AK 0310096 J260451-10	1123-031.	30.28 g	10 mL	1	
24-NOV-2010	05:34	CR	HEXANE	1123-032.	0 g	0 mL	1	
24-NOV-2010	05:54	CR	L84FT1AK 0310096 J260451-11	1123-033.	30.34 g	10 mL	1	
24-NOV-2010	06:15	CR	HEXANE	1123-034.	0 g	0 mL	1	
24-NOV-2010	06:35	CR	L84FV1AK 0310096 J260451-12 5X	1123-035.	29.74 g	10 mL	5	
24-NOV-2010	06:56	CR	HEXANE	1123-036.	0 g	0 mL	1	
24-NOV-2010	07:16	CR	L84FW1AK 0310096 J260451-13 5X	1123-037.	29.82 g	10 mL	5	
24-NOV-2010	07:37	CR	PRIME	1123-038.	0 g	0 mL	1	
24-NOV-2010	07:57	CR	HEXANE	1123-039.	0 g	0 mL	1	
24-NOV-2010	08:18	CR	PRIME	1123-040.	0 g	0 mL	1	
24-NOV-2010	08:38	CR	1660_500 10GCSV0470 CCV	1123-041.	0 g	0 mL	1	
24-NOV-2010	11:02	CR	HEXANE	1123-042.	0 g	0 mL	1	
24-NOV-2010	11:23	CR	1660_300 10GCSV0475 ICV	1123-043.	0 g	0 mL	1	

vMN 11/24/10

TestAmerica West Sacramento

1123-043.D

Chromatography Summary
Method 8082 Target Analyte Results

Injection Date: 11/24/2010 11:23 **Operator:** CR
DataFile: GC68A.I\112310A.B\1123-043.D **Vial Num:** 95
Instrument ID: GC68A

Sample : **1660_300 10GCSV0475 ICV**

Method File: GC68A.I\112310A.B\8082.M
Start Cal Date: 7/25/2010 17:36 **End Cal Date:** 11/23/2010 21:42 ✓

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** 10-1660ICV.sub **SpikeList:**
Samp. Info: 1660_300 10GCSV0475 ICV;2;;4;;;;
Misc. Info: 3;10-1660ICV.sub;;0;;

DB-608

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)
Aroclor 1016-Totals	1.00	897898917	300.7000	300	0%	Acceptable		(±15)
Aroclor 1260-Totals	1.00	1096509343	295.3000	300	-2%	Acceptable ✓		(±15)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Passes second source criteria

CHR 112410

Printed: 11/24/2010 12:13 PM

11/12/10

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Batch: 0310096 **Method ID:** PCBs (8082) SOLID

NCM: Y N G0J260451

A. Calibration Check	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.		✓	✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QC/QA			
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.	✓	✓	
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)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: CFU Date: 11/24/10

2nd Level Reviewer: [signature] Date: 11-29-10

Comments:

Due 11/12

TestAmerica West Sacramento
Organic Prep Log
8082 Solids

Box # _____

Shared ~~QC~~ Batch: 0310095
MB + sample

Shares ~~QC~~ With: G0J260451
MB + Sample

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	
Inst Receipt:	

Batch: 0310096
MS Run #: 0310051
Prep Date: 11/6/2010
Method: QH 8082
Matrix: A SOLID
Extraction: 71 SONICATION w/ACID STRIP (PCB)
QC: D4 DOD QSM V4.X
SAC: QH - A - 71 - D4

3550B
WS-OP-0002

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	N/A
DCM:Ace	NA	3640-67B
Na2SO4	Baker	3640-66F
Hexane	Baker	J29E20
Florisil	Baker	J30N64
H2SO4	Mallinckrodt	H46F08
Hg	Mallinckrodt	J36N00
90:10 Ace:Hex	NA	3640-65B

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 30g nom.	Final Volume 10mL	Final Volume Other	Analysis Hold Time Expires
G0J260451 - 1		L84EX1A8	11/8/2010	30.10	✓		12/16/2010
G0J260451 - 2		L84E91AK	11/8/2010	30.12	✓		12/16/2010
G0J260451 - 3		L84FA1AK	11/8/2010	29.94	✓		12/16/2010
G0J260451 - 4		L84FD1AK	11/8/2010	29.87	✓		12/16/2010
G0J260451 - 4	S	L84FD1DJ	11/8/2010	30.24	✓		12/16/2010
G0J260451 - 4	D	L84FD1DK	11/8/2010	29.75	✓		12/16/2010
G0J260451 - 5		L84FF1AK	11/8/2010	30.42	✓		12/16/2010
G0J260451 - 7		L84FL1AK	11/8/2010	30.00	✓		12/16/2010
G0J260451 - 8		L84FN1AK	11/8/2010	30.24	✓		12/16/2010
G0J260451 - 9		L84FQ1AK	11/8/2010	29.86	✓		12/16/2010
G0J260451 - 10		L84FR1AK	11/8/2010	30.28	✓		12/16/2010
G0J260451 - 11		L84FT1AK	11/8/2010	30.34	✓		12/16/2010
G0J260451 - 12		L84FV1AK	11/8/2010	29.74	✓		12/16/2010
G0J260451 - 13		L84FW1AK	11/8/2010	29.82	✓		12/16/2010
G0K060000 - 96	B	L9M8M1AA	11/8/2010	30.00	✓		12/16/2010
G0K060000 - 96	C	L9M8M1AC	11/8/2010	30.00	✓		12/16/2010

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: Wt sheet 101106G

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	100P0265 2.0mL	2/28/11	AM	CR	11-6-10
Spike Mix LCS/LCSD/MS/MS	100P0277 500mL	4/29/11	AM	CR	11-6-10
Additional Spike or Surrogate					

Extraction Analyst/Date: AM 11/6/10

KD Analyst/Date: [signature] 11-18-10

Concentration Analyst/Date: WS 11-18-10

KD Temp: 87°

Clean up Analyst/Date: WS 11-18-10 Florisil Hg H2SO4

Review Analyst/Date: [signature] 11-18-10

TestAmerica

West Sacramento
Soil Weight Worksheet

Batch Id: 101106G

Created date: 11/6/2010 10:17:59

Test Date: 11/6/2010

Group Comments:

ANALYST: 430255
TEST: 8081/8082
BALANCE ID: QA-063

QuantIMS BATCH: 0310096

Sample Id:	Weight (g)	Comments:
G0J260451-001	30.10	
G0J260451-002	30.12	
G0J260451-003	29.94	
G0J260451-004	29.87	
~~G0J260451-004D~~	~~29.75~~	~~8081~~
G0J260451-004D	29.75	8082
G0J260451-004S	30.24	8082
~~G0J260451-004S~~	~~29.92~~	~~8081~~
G0J260451-005	30.42	
G0J260451-007	30.00	
G0J260451-008	30.24	
G0J260451-009	29.86	
G0J260451-010	30.28	
G0J260451-011	30.34	
G0J260451-012	29.74	
G0J260451-013	29.82	

not on batch

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/06/10
Time: 12:16:22

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____
Concentrationist: _____
_____

****
* *
* QC BATCH: 0310096 *
* *
****

PREP DATE: 11/06/10 11:00
COMP DATE: 11/06/10 15:00

Reviewer/Date: _____ / 0/00/00

PCBs (8082)
SONICATION w/ACID STRIP (PCB)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-001 L84EX-1-A8	D	71	QH	SOLID	30.10g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-002 L84E9-1-AK	D	71	QH	SOLID	30.12g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-003 L84FA-1-AK	D	71	QH	SOLID	29.94g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 L84[illegible]-1-AK	D	71	QH	SOLID	29.87g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 L84FD-1-DJS	D	71	QH	SOLID	30.24g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0277-1.0ML 100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 L84[illegible]-1-DKD	D	71	QH	SOLID	29.75g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0277-1.0ML 100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-005 L[illegible]-1-AK	D	71	QH	SOLID	30.42g 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/06/10
Time: 12:16:22

QC BATCH: 0310096

PREP DATE: 11/06/10 11:00
COMP DATE: 11/06/10 15:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJI	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-007 **L84FL-1-AK**	D	71	QH	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-008 **L84FN-1-AK**	D	71	QH	SOLID	**30.24g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-009 **L84FQ-1-AK**	D	71	QH	SOLID	**29.86g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-010 **L84FR-1-AK**	D	71	QH	SOLID	**30.28g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-011 **L84FT-1-AK**	D	71	QH	SOLID	**30.34g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-012 **L84FV-1-AK**	D	71	QH	SOLID	**29.74g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-013 **L84FW-1-AK**	D	71	QH	SOLID	**29.82g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-096 **L9M8M-1-AAB**		71	QH	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-096 **L9M8M-1-ACC**		71	QH	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0277-1.0ML 100P0265-2.0ML
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 16

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/23/10
Time: 17:46:39

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 430255 Anil Mantri

Concentrationist: 004928 Jason Baynes
403990 William Sadler

QC BATCH: 0310096

PREP DATE: 11/06/10 11:00
COMP DATE: 11/06/10 15:00

Reviewer/Date: SADLERW / 11/18/10

PCBs (8082)
SONICATION w/ACID STRIP (PCB)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJI	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-001 **L84KX-1-A8**	D	71	QH	SOLID	**30.10g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-002 **L84E9-1-AK**	D	71	QH	SOLID	**30.12g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-003 **L84FA-1-AK**	D	71	QH	SOLID	**29.94g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-AK**	D	71	QH	SOLID	**29.87g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DJS**	D	71	QH	SOLID	**30.24g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0277-1.0ML 100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DKD**	D	71	QH	SOLID	**29.75g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0277-1.0ML 100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-005 **L84FF-1-AK**	D	71	QH	SOLID	**30.42g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															

Re clean: MB, LCS, -4, -4MSD, -5
JS 11/23/10

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/23/10
Time: 17:46:39

QC BATCH: 0310096

PREP DATE: 11/06/10 11:00
COMP DATE: 11/06/10 15:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-007 **L84FL-1-AK**	D	71	QH	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-008 **L84FN-1-AK**	D	71	QH	SOLID	**30.24g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-009 **L84FQ-1-AK**	D	71	QH	SOLID	**29.86g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-010 **L84FR-1-AK**	D	71	QH	SOLID	**30.28g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-011 **L84FT-1-AK**	D	71	QH	SOLID	**30.34g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-012 **L84FV-1-AK**	D	71	QH	SOLID	**29.74g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	11/12/10	G0J260451-013 **L84FW-1-AK**	D	71	QH	SOLID	**29.82g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-096 **L9M8M-1-AAB**		71	QH	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0265-2.0ML
COMMENTS:															
11/08/10	0/00/00	G0K060000-096 **L9M8M-1-ACC**		71	QH	SOLID	**30.00g** 10.00mL	NA	NA	NA	DCM:ACE	300.0	HEXANE	50.0	100P0277-1.0ML 100P0265-2.0ML
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0310096 **Test:** 8082-S

Prep Date: 11-6-10 **Holding Times:** 11/8/10 **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: Chelsie Rostow Date: 11-5-10 6 OR 11-18-10

2nd Level Reviewer: [signature] Date: 11-18-10

Comments:

q:\forms\checklists\qa-588 prep_review.doc *QA-588 Revised 12/30/2008 ERS*

SOLID, 8015 MOD, TEPH-DRO

ICV/CCV
Run Logs

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# _____

Inst ID: GC70A Batch ID: 110310
Method : Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx Test : TPH by GC-FID
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
03-NOV-2010	10:55	KT	DCM	1103-001.	0 g	0 mL	1	
03-NOV-2010	11:24	KT	DCM	1103-002.	0 g	0 mL	1	
03-NOV-2010	11:53	KT	DCM	1103-003.	0 g	0 mL	1	
03-NOV-2010	15:30	KT	DCM	1103-004.	0 g	0 mL	1	
03-NOV-2010	16:00	KT	ALKANE MARKER	1103-005.	0 g	0 mL	1	
03-NOV-2010	16:29	KT	MOT_300 10GCSV0254	1103-006.	0 g	0 mL	1	
03-NOV-2010	16:59	KT	OTP_001 10GCSV0229	1103-007.	0 g	0 mL	1	
03-NOV-2010	17:29	KT	OTP_005 10GCSV0230	1103-008.	0 g	0 mL	1	
03-NOV-2010	17:58	KT	OTP_010 10GCSV0231	1103-009.	0 g	0 mL	1	
03-NOV-2010	18:27	KT	OTP_015 10GCSV0232	1103-010.	0 g	0 mL	1	
03-NOV-2010	18:57	KT	OTP_020 10GCSV0233	1103-011.	0 g	0 mL	1	
03-NOV-2010	19:26	KT	OTP_025 10GCSV0234	1103-012.	0 g	0 mL	1	
03-NOV-2010	19:55	KT	DSL_010 10GCSV0244	1103-013.	0 g	0 mL	1	
03-NOV-2010	20:25	KT	DSL_050 10GCSV0245	1103-014.	0 g	0 mL	1	
03-NOV-2010	20:54	KT	DSL_100 10GCSV0246	1103-015.	0 g	0 mL	1	
03-NOV-2010	21:23	KT	DSL_300 10GCSV0247	1103-016.	0 g	0 mL	1	
03-NOV-2010	21:53	KT	DSL_500 10GCSV0377	1103-017.	0 g	0 mL	1	
03-NOV-2010	22:22	KT	DSL_1000 10GCSV0248	1103-018.	0 g	0 mL	1	
03-NOV-2010	22:51	KT	DSL_1500 10GCSV0249	1103-019.	0 g	0 mL	1	
03-NOV-2010	23:20	KT	DSL_2000 10GCSV0419	1103-020.	0 g	0 mL	1	
03-NOV-2010	23:50	KT	DSL_300 ICV 10GCSV0251	1103-021.	0 g	0 mL	1	
04-NOV-2010	00:19	KT	MOT_050 10GCSV0252	1103-022.	0 g	0 mL	1	
04-NOV-2010	00:48	KT	MOT_100 10GCSV0253	1103-023.	0 g	0 mL	1	
04-NOV-2010	01:17	KT	MOT_300 10GCSV0254	1103-024.	0 g	0 mL	1	
04-NOV-2010	01:47	KT	MOT_500 10GCSV0433	1103-025.	0 g	0 mL	1	
04-NOV-2010	02:16	KT	MOT_800 10GCSV0255	1103-026.	0 g	0 mL	1	
04-NOV-2010	02:45	KT	MOT_1200 10GCSV0256	1103-027.	0 g	0 mL	1	
04-NOV-2010	03:14	KT	MOT_1500 10GCSV0257	1103-028.	0 g	0 mL	1	
04-NOV-2010	03:44	KT	MOT_500 ICV 10GCSV0458	1103-029.	0 g	0 mL	1	
04-NOV-2010	04:13	KT	MOT_300 10GCSV0254	1103-030.	0 g	0 mL	1	
04-NOV-2010	04:42	KT	DSL_300 10GCSV0247	1103-031.	0 g	0 mL	1	
04-NOV-2010	05:11	KT	OTP_010 10GCSV0231	1103-032.	0 g	0 mL	1	
04-NOV-2010	05:40	KT	L75P51AQ 0286351 J070606-1 5X	1103-033.	29.82 g	3 mL	5	
04-NOV-2010	06:09	KT	L75P61AQ 0286351 J070606-2 10X	1103-034.	30.52 g	3 mL	10	
04-NOV-2010	06:39	KT	L75P71AQ 0286351 J070606-3 10X	1103-035.	29.66 g	3 mL	10	
04-NOV-2010	07:08	KT	L75P71AT 0286351 J070606-3S 10	1103-036.	29.93 g	3 mL	1	
04-NOV-2010	07:37	KT	L75P71AU 0286351 J070606-3D 10	1103-037.	29.87 g	3 mL	1	
04-NOV-2010	08:06	KT	L75QC1AQ 0286351 J070606-7 5X	1103-038.	29.74 g	3 mL	5	
04-NOV-2010	08:35	KT	L9A7Q1AA 0302307 J290000-307B	1103-039.	30 g	3 mL	1	
04-NOV-2010	09:05	KT	L9A7Q1AC 0302307 J290000-307C	1103-040.	30 g	3 mL	1	
04-NOV-2010	09:34	KT	L8RK11AC 0302307 J200484-1 5X	1103-041.	30.5 g	3 mL	5	
04-NOV-2010	10:03	KT	L8RK51AC 0302307 J200484-2	1103-042.	30.46 g	3 mL	1	
04-NOV-2010	10:32	KT	L8RK51AL 0302307 J200484-2S	1103-043.	29.85 g	3 mL	1	
04-NOV-2010	11:01	KT	L8RK51AM 0302307 J200484-2D	1103-044.	29.76 g	3 mL	1	
04-NOV-2010	11:31	KT	L8RK81AC 0302307 J200484-3	1103-045.	29.93 g	3 mL	1	
04-NOV-2010	12:00	KT	L8RLA1AC 0302307 J200484-4	1103-046.	29.49 g	3 mL	1	

Data File: \\Terastation\share\GCdata\GC70A.I\110310.B\1103-021.D Page 2
Report Date: 04-Nov-2010 12:44

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 03-NOV-2010 23:50
Lab File ID: 1103-021.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: DSL 300 ICV 10GCSV0 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\110310.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 3 Diesel C10 to C24	757	747	0.000	-1.27522	15.00000	Averaged
S 5 Diesel C9 to C25	774	763	0.000	-1.45003	15.00000	Averaged
S 4 DRO C10 to C28	760	752	0.000	-1.05134	15.00000	Averaged
S 6 Diesel C12 to C24	673	648	0.000	-3.69073	15.00000	Averaged
S 7 Diesel C12 to C34	691	655	0.010	-5.18596	15.00000	Averaged
S 8 DRO AK102 C10 to C25	757	748	0.000	-1.20723	15.00000	Averaged

Meets second source criteria.
11-4-10

TestAmerica West Sacramento

Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx

Data file : \\Terastation\share\GCdata\GC70A.I\110310.B\1103-021.D
Lab Smp Id: DSL 300 ICV 10GCSV0
Inj Date : 03-NOV-2010 23:50
Operator : KT Inst ID: GC70A.i
Smp Info : DSL 300 ICV 10GCSV0251;2;;4;;;
Misc Info : 3;2DSLCAL.sub;;0;
Comment : TPH by GC-FID
Method : \\Terastation\share\GCdata\GC70A.I\110310.B\8015.m
Meth Date : 04-Nov-2010 12:44 truongk Quant Type: ESTD
Cal Date : 22-AUG-2010 17:41 Cal File: 0822-009.D
Als bottle: 18 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 2DSLCAL.sub
Target Version: 4.14
Processing Host: SACP307UM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 3 Diesel C10 to C24	3.777	12.044		224081618	300000	296200
S 5 Diesel C9 to C25	2.826	12.433		228810858	300000	295600
S 4 DRO C10 to C28	3.777	13.543		225588420	300000	296800
S 6 Diesel C12 to C24	5.422	12.044		194329046	300000	288900
S 7 Diesel C12 to C34	5.422	15.486		196551601	300000	284400
S 8 DRO AK102 C10 to C25	3.777	12.233		224474369	300000	296400

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 04-NOV-2010 03:44
Lab File ID: 1103-029.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: MOT_500 ICV 10GCSV0 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\110310.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 9 Motor Oil C19 to C36	416	394	0.000	-5.22507	15.00000	Averaged
S 212 Motor Oil C28 to C40	341	349	0.010	2.53397	15.00000	Averaged
S 10 Motor Oil C20 to C36	414	393	0.000	-5.30538	15.00000	Averaged
S 11 Motor Oil C24 to C36	384	363	0.000	-5.53482	15.00000	Averaged
S 12 RRO AK103 C25-C36	358	335	0.000	-6.50921	15.00000	Averaged
S 13 Motor Oil C24 to C40	435	411	0.010	-5.40234	15.00000	Averaged

Meets second source criteria.
VT
11-4-10

TestAmerica West Sacramento

Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx

Data file : \\Terastation\share\GCdata\GC70A.I\110310.B\1103-029.D
Lab Smp Id: MOT_500 ICV 10GCSV0
Inj Date : 04-NOV-2010 03:44
Operator : KT Inst ID: GC70A.i
Smp Info : MOT_500 ICV 10GCSV0458;2;;4;;;
Misc Info : 3;3MOCAL.sub;;0;
Comment : TPH by GC-FID
Method : \\Terastation\share\GCdata\GC70A.I\110310.B\8015.m
Meth Date : 04-Nov-2010 12:44 truongk Quant Type: ESTD
Cal Date : 22-AUG-2010 17:41 Cal File: 0822-009.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 3MOCAL.sub
Target Version: 4.14
Processing Host: SACP307UM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 9 Motor Oil C19 to C36	9.604	16.296		196967731	500000	473900
S 212 Motor Oil C28 to C40	13.343	18.925		174606466	500000	512700
S 10 Motor Oil C20 to C36	10.100	16.296		196251725	500000	473500
S 11 Motor Oil C24 to C36	11.844	16.296		181535257	500000	472300
S 12 RRO AK103 C25-C36	12.233	16.096		167451344	500000	467400
S 13 Motor Oil C24 to C40	11.844	18.925		205591080	500000	473000

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: GC70A Batch ID: 112910B
Method : Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx Test : TPH by GC-FID
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
29-NOV-2010	20:53	KT	ALKANE MARKER	1129-002.	0 g	0 mL	1	
29-NOV-2010	21:22	KT	OTP_001 10GCSV0229	1129-003.	0 g	0 mL	1	
29-NOV-2010	21:51	KT	OTP_005 10GCSV0230	1129-004.	0 g	0 mL	1	
29-NOV-2010	22:20	KT	OTP_010 10GCSV0231	1129-005.	0 g	0 mL	1	
29-NOV-2010	22:49	KT	OTP_015 10GCSV0232	1129-006.	0 g	0 mL	1	
29-NOV-2010	23:18	KT	OTP_020 10GCSV0233	1129-007.	0 g	0 mL	1	
29-NOV-2010	23:47	KT	OTP_025 10GCSV0234	1129-008.	0 g	0 mL	1	
30-NOV-2010	00:16	KT	DSL_010 10GCSV0244	1129-009.	0 g	0 mL	1	
30-NOV-2010	00:45	KT	DSL_050 10GCSV0245	1129-010.	0 g	0 mL	1	
30-NOV-2010	01:14	KT	DSL_100 10GCSV0246	1129-011.	0 g	0 mL	1	
30-NOV-2010	01:44	KT	DSL_300 10GCSV0247	1129-012.	0 g	0 mL	1	
30-NOV-2010	02:13	KT	DSL_500 10GCSV0377	1129-013.	0 g	0 mL	1	
30-NOV-2010	02:42	KT	DSL_1000 10GCSV0248	1129-014.	0 g	0 mL	1	
30-NOV-2010	03:11	KT	DSL_1500 10GCSV0249	1129-015.	0 g	0 mL	1	
30-NOV-2010	03:40	KT	DSL_2000 10GCSV0419	1129-016.	0 g	0 mL	1	
30-NOV-2010	04:09	KT	DSL_300 ICV 10GCSV0251	1129-017.	0 g	0 mL	1	
30-NOV-2010	04:38	KT	DSL_300 10GCSV0247	1129-018.	0 g	0 mL	1	
30-NOV-2010	05:07	KT	OTP_010 10GCSV0231	1129-019.	0 g	0 mL	1	
30-NOV-2010	05:36	KT	L9M901AA 0310098 K060000-098B	1129-020.	30 g	3 mL	1	
30-NOV-2010	06:05	KT	L9M901AC 0310098 K060000-098C	1129-021.	30 g	3 mL	1	
30-NOV-2010	06:34	KT	L84FA1AN 0310098 J260451-3 10X	1129-022.	29.35 g	3 mL	10	
30-NOV-2010	07:04	KT	L84FD1AN 0310098 J260451-4 10X	1129-023.	29.68 g	3 mL	10	
30-NOV-2010	07:33	KT	L84FD1DN 0310098 J260451-4S 10	1129-024.	30.64 g	3 mL	10	
30-NOV-2010	08:02	KT	L84FD1DP 0310098 J260451-4D 10	1129-025.	30.09 g	3 mL	10	
30-NOV-2010	08:31	KT	L84FN1AN 0310098 J260451-8 100	1129-026.	29.52 g	3 mL	100	
30-NOV-2010	09:00	KT	L84FT1AN 0310098 J260451-11 10	1129-027.	30.71 g	3 mL	100	
30-NOV-2010	09:29	KT	ALKANE MARKER	1129-028.	0 g	0 mL	1	
30-NOV-2010	09:58	KT	DSL_500 10GCSV0377	1129-029.	0 g	0 mL	1	
30-NOV-2010	10:27	KT	OTP_015 10GCSV0232	1129-030.	0 g	0 mL	1	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 30-NOV-2010 04:09
Lab File ID: 1129-017.D Init. Cal. Date(s): 09-FEB-2007 30-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:40
Lab Sample ID: DSL 300 ICV 10GCSV0 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 3 Diesel C10 to C24	793	781	0.000	-1.55557	15.00000	Averaged
S 5 Diesel C9 to C25	812	797	0.000	-1.74706	15.00000	Averaged
S 4 DRO C10 to C28	797	787	0.000	-1.25723	15.00000	Averaged
S 6 Diesel C12 to C24	704	677	0.000	-3.88454	15.00000	Averaged
S 7 Diesel C12 to C34	713	683	0.010	-4.09543	15.00000	Averaged
S 8 DRO AK102 C10 to C25	811	796	0.000	-1.87576	15.00000	Averaged

11/30/10

TestAmerica West Sacramento

Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx

Data file : \\Terastation\share\GCdata\GC70A.I\112910B.B\1129-017.D
Lab Smp Id: DSL 300 ICV 10GCSV0
Inj Date : 30-NOV-2010 04:09
Operator : KT Inst ID: GC70A.i
Smp Info : DSL 300 ICV 10GCSV0251;2;;4;;;
Misc Info : 3;2DSLCAL.sub;;0;
Comment : TPH by GC-FID
Method : \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m
Meth Date : 30-Nov-2010 11:53 truongk Quant Type: ESTD
Cal Date : 30-NOV-2010 03:40 Cal File: 1129-016.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 2DSLCAL.sub
Target Version: 4.14
Processing Host: SACP307UM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 3 Diesel C10 to C24	3.641	11.914		234196967	300000	295300
S 5 Diesel C9 to C25	2.684	12.302		239229695	300000	294800
S 4 DRO C10 to C28	3.641	13.412		235961777	300000	296200
S 6 Diesel C12 to C24	5.293	11.914		202984817	300000	288300
S 7 Diesel C12 to C34	5.293	15.333		205040034	300000	287700
S 8 DRO AK102 C10 to C25	2.684	12.102		238726305	300000	294400

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: GC70A Batch ID: 111810
Method : Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx Test : TPH by GC-FID
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
19-NOV-2010	10:23	KR	L85DQ2AA 0314213 J260577-15	1118-045.	990.78 mL	3 mL	1	
19-NOV-2010	10:53	KR	ALKANE MARKER	1118-046.	0 g	0 mL	1	
19-NOV-2010	11:22	KR	MOT_300 10GCSV0254	1118-047.	0 g	0 mL	1	
19-NOV-2010	11:51	KR	DSL_500 10GCSV0377	1118-048.	0 g	0 mL	1	
19-NOV-2010	12:20	KR	OTP_015 10GCSV0232	1118-049.	0 g	0 mL	1	
19-NOV-2010	12:50	KR	L9K861AA 0309188-189 MB	1118-050.	1000 mL	3 mL	1	
19-NOV-2010	13:19	KR	L9K861AC 0309188-189 LCS	1118-051.	1000 mL	3 mL	1	
19-NOV-2010	13:49	KR	L9K861ADC 0309188-189 LCS	1118-052.	1000 mL	3 mL	1	
19-NOV-2010	14:18	KR	L9CK81AA 0309188 J290605-1	1118-053.	985.52 mL	3 mL	1	
19-NOV-2010	14:47	KR	L9CLC1AA 0309188 J290605-2	1118-054.	997.44 mL	3 mL	1	DSL only, OK
19-NOV-2010	15:16	KR	L9CLF1AA 0309188 J290605-3	1118-055.	976.54 mL	3 mL	1	
19-NOV-2010	15:46	KR	L9CLG1AA 0309188 J290605-4	1118-056.	1002.44 mL	3 mL	1	
19-NOV-2010	16:15	KR	L9CLJ1AA 0309188 J290605-5	1118-057.	984.03 mL	3 mL	1	
19-NOV-2010	16:44	KR	L9CLP1AA 0309188 J290605-6	1118-058.	1001.53 mL	3 mL	1	
19-NOV-2010	17:14	KR	L9CLR1AA 0309188 J290605-7	1118-059.	1007.07 mL	3 mL	1	
19-NOV-2010	17:43	KR	L9CLT1AA 0309188 J290605-8	1118-060.	958.74 mL	3 mL	1	
19-NOV-2010	18:12	KR	L9CLW1AA 0309188 J290605-9	1118-061.	989.12 mL	3 mL	1	
19-NOV-2010	18:41	KR	L9CLX1AA 0309188 J290605-10	1118-062.	1012.82 mL	3 mL	1	
19-NOV-2010	19:11	KR	L9CL11AA 0309188 J290605-11	1118-063.	1011.27 mL	3 mL	1	
19-NOV-2010	19:40	KR	L9CL21AA 0309188 J290605-12	1118-064.	1008.82 mL	3 mL	1	
19-NOV-2010	20:09	KR	L9CL31AA 0309188 J290605-13	1118-065.	1008.74 mL	3 mL	1	
19-NOV-2010	20:38	KR	L9CE61AH 0309189 J290569-3 2X	1118-066.	1039.13 mL	3 mL	2	reshoot
19-NOV-2010	21:08	KR	ALKANE MARKER	1118-067.	0 g	0 mL	1	
19-NOV-2010	21:37	KR	MOT_500 10GCSV0254	1118-068.	0 g	0 mL	1	low
19-NOV-2010	22:06	KR	DSL_500 10GCSV0377	1118-069.	0 g	0 mL	1	MI
19-NOV-2010	22:35	KR	OTP_015 10GCSV0232	1118-070.	0 g	0 mL	1	
19-NOV-2010	23:05	KR	L9GCJ1AA 0307133 MB	1118-071.	1000 mL	3 mL	1	
19-NOV-2010	23:34	KR	L9GCJ1AC 0307133 LCS	1118-072.	1000 mL	3 mL	1	
20-NOV-2010	00:03	KR	L9AM21AK 0307133 J290449-3	1118-073.	1026.31 mL	3 mL	1	reshoot all
20-NOV-2010	00:32	KR	L9AM21A4 0307133 J290449-3S	1118-074.	1050.49 mL	3 mL	1	
20-NOV-2010	01:01	KR	L9AM21A4 0307133 J290449-3D	1118-075.	1018.27 mL	3 mL	1	
20-NOV-2010	01:31	KR	L9ANN1AK 0307133 J290449-4	1118-076.	1009.44 mL	3 mL	1	
20-NOV-2010	02:00	KR	L9ANP1AE 0307133 J290449-5	1118-077.	951.23 mL	3 mL	1	
20-NOV-2010	02:29	KR	L84EX1AC 0310098 J260451-1 20X	1118-078.	29.99 g	3 mL	20	
20-NOV-2010	02:58	KR	L84E91AN 0310098 J260451-2 20X	1118-079.	29.81 g	3 mL	20	DSL only, OK
20-NOV-2010	03:28	KR	L84FA1AN 0310098 J260451-3 50X	1118-080.	29.35 g	3 mL	50	See reshot
20-NOV-2010	03:57	KR	ALKANE MARKER	1118-081.	0 g	0 mL	1	
20-NOV-2010	04:26	KR	MOT_500 10GCSV0254	1118-082.	0 g	0 mL	1	low
20-NOV-2010	04:56	KR	DSL_500 10GCSV0377	1118-083.	0 g	0 mL	1	MI
20-NOV-2010	05:25	KR	OTP_015 10GCSV0232	1118-084.	0 g	0 mL	1	
20-NOV-2010	05:54	KR	L9M901AA 0310098 MB	1118-085.	30 g	3 mL	1	
20-NOV-2010	06:23	KR	L9M901AC 0310098 LCS	1118-086.	30 g	3 mL	1	
20-NOV-2010	06:52	KR	L84FD1AN 0310098 J260451-4 200	1118-087.	29.68 g	3 mL	200	see reshots
20-NOV-2010	07:22	KR	L84FD1DN 0310098 J260451-4S 20	1118-088.	30.64 g	3 mL	200	
20-NOV-2010	07:51	KR	L84FD1DP 0310098 J260451-4D 20	1118-089.	30.09 g	3 mL	200	
20-NOV-2010	08:20	KR	L84FF1AN 0310098 J260451-5 10X	1118-090.	30.66 g	3 mL	10	
20-NOV-2010	08:49	KR	L84FL1AN 0310098 J260451-7 20X	1118-091.	29.86 g	3 mL	20	
20-NOV-2010	09:18	KR	L84FN1AN 0310098 J260451-8 200	1118-092.	29.52 g	3 mL	200	See reshot
20-NOV-2010	09:48	KR	L84FQ1AN 0310098 J260451-9 100	1118-093.	29.79 g	3 mL	100	
20-NOV-2010	10:17	KR	L84FR1AN 0310098 J260451-10 50	1118-094.	30.3 g	3 mL	50	

Sequence continued on next page

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page 2 of Batch 111810 on Instrument GC70A
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
20-NOV-2010	10:46	KR	L84FT1AN 0310098 J260451-11 20	1118-095.	30.71 g	3 mL	200	see reshot
20-NOV-2010	11:16	KR	L84FV1AN 0310098 J260451-12 50	1118-096.	29.96 g	3 mL	50	
20-NOV-2010	11:45	KR	L84FW1AN 0310098 J260451-13 50	1118-097.	30.05 g	3 mL	50	
20-NOV-2010	12:14	KR	ALKANE MARKER	1118-098.	0 g	0 mL	1	
20-NOV-2010	12:43	KR	MOT_500 10GCSV0254	1118-099.	0 g	0 mL	1	low
20-NOV-2010	13:13	KR	DSL_500 10GCSV0377	1118-100.	0 g	0 mL	1	MI
20-NOV-2010	13:42	KR	OTP_015 10GCSV0232	1118-101.	0 g	0 mL	1	
20-NOV-2010	14:11	KR	L9WCK1AA 0315241 MB	1118-102.	30 g	3 mL	1	
20-NOV-2010	14:41	KR	L9WCK1AC 0315241 LCS	1118-103.	30 g	3 mL	1	reshoot all
20-NOV-2010	15:10	KR	L9C2M1AC 0315241 J300447-1	1118-104.	29.94 g	3 mL	1	
20-NOV-2010	15:39	KR	L9C2Q1AC 0315241 J300447-2	1118-105.	29.86 g	3 mL	1	
20-NOV-2010	16:08	KR	L9C2T1AC 0315241 J300447-3 50X	1118-106.	29.97 g	3 mL	50	
20-NOV-2010	16:37	KR	L9G2Q1AC 0315241 K030490-1	1118-107.	30.22 g	3 mL	1	
20-NOV-2010	17:07	KR	L9G231AC 0315241 K030490-2	1118-108.	30.17 g	3 mL	1	
20-NOV-2010	17:36	KR	L9G231AL 0315241 K030490-2S	1118-109.	29.88 g	3 mL	1	
20-NOV-2010	18:05	KR	L9G231AM 0315241 K030490-2D	1118-110.	29.95 g	3 mL	1	
20-NOV-2010	18:34	KR	L9L421AC 0315241 K050524-1	1118-111.	29.97 g	3 mL	1	
20-NOV-2010	19:04	KR	L9L5D1AC 0315241 K050524-2	1118-112.	29.96 g	3 mL	1	
20-NOV-2010	19:33	KR	ALKANE MARKER	1118-113.	0 g	0 mL	1	
20-NOV-2010	20:02	KR	MOT_500 10GCSV0254	1118-114.	0 g	0 mL	1	low
20-NOV-2010	20:31	KR	DSL_500 10GCSV0377	1118-115.	0 g	0 mL	1	MI
20-NOV-2010	21:01	KR	OTP_015 10GCSV0232	1118-116.	0 g	0 mL	1	triac low
20-NOV-2010	21:30	KR	L9R3L1AA 0314211 MB	1118-117.	30 g	3 mL	1	
20-NOV-2010	21:59	KR	L9R3L1AC 0314211 LCS	1118-118.	30 g	3 mL	1	
20-NOV-2010	22:28	KR	L9AJ41AC 0314211 J290448-1	1118-119.	30.25 g	3 mL	1	reshoot all
20-NOV-2010	22:57	KR	L9ALP1AC 0314211 J290448-2	1118-120.	29.85 g	3 mL	1	
20-NOV-2010	23:26	KR	L9ALP1AL 0314211 J290448-2S	1118-121.	29.83 g	3 mL	1	
20-NOV-2010	23:56	KR	L9ALP1AM 0314211 J290448-2D	1118-122.	30.34 g	3 mL	1	
21-NOV-2010	00:25	KR	L9AL61AC 0314211 J290448-3	1118-123.	30.05 g	3 mL	1	
21-NOV-2010	00:54	KR	ALKANE MARKER	1118-124.	0 g	0 mL	1	
21-NOV-2010	01:23	KR	MOT_500 10GCSV0254	1118-125.	0 g	0 mL	1	low
21-NOV-2010	01:52	KR	DSL_500 10GCSV0377	1118-126.	0 g	0 mL	1	MI
21-NOV-2010	02:22	KR	OTP_015 10GCSV0232	1118-127.	0 g	0 mL	1	OTP 18% triac low
21-NOV-2010	02:51	KR	L923E1AA 0319220 MB	1118-128.	1000 mL	3 mL	1	
21-NOV-2010	03:20	KR	L923E1AC 0319220 LCS	1118-129.	1000 mL	3 mL	1	
21-NOV-2010	03:49	KR	L9RER1AF 0319220 K090541-1	1118-130.	1049.53 mL	3 mL	1	
21-NOV-2010	04:18	KR	L9RER1CX 0319220 K090541-1S	1118-131.	1067.68 mL	3 mL	1	reshoot
21-NOV-2010	04:47	KR	L9RER1C0 0319220 K090541-1D	1118-132.	1072.43 mL	3 mL	1	
21-NOV-2010	05:17	KR	L9W8P1AE 0319220 K110579-1	1118-133.	1072.35 mL	3 mL	1	
21-NOV-2010	05:46	KR	ALKANE MARKER	1118-134.	0 g	0 mL	1	
21-NOV-2010	06:15	KR	MOT_500 10GCSV0254	1118-135.	0 g	0 mL	1	low
21-NOV-2010	06:44	KR	DSL_500 10GCSV0377	1118-136.	0 g	0 mL	1	MI high 22%
21-NOV-2010	07:13	KR	OTP_015 10GCSV0232	1118-137.	0 g	0 mL	1	OTP 18% triac low

Data File: \\Terastation\share\GCdata\GC70A.I\111810.B\1118-069.D Page 1
Report Date: 22-Nov-2010 13:18

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 19-NOV-2010 22:06
Lab File ID: 1118-069.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: DSL 500 10GCSV0377 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\111810.B\8015.M

COMPOUND	RRF / AMOUNT	RF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 3 Diesel C10 to C24	757	836	0.000	10.52099	15.00000	Averaged
S 5 Diesel C9 to C25	774	860	0.000	11.17885	15.00000	Averaged
S 4 DRO C10 to C28	760	838	0.000	10.22489	15.00000	Averaged
S 6 Diesel C12 to C24	673	740	0.000	9.98981	15.00000	Averaged
S 7 Diesel C12 to C34	691	742	0.010	7.34610	15.00000	Averaged
S 8 DRO AK102 C10 to C25	757	837	0.000	10.46784	15.00000	Averaged

RE-INTEGRATION CODES
1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)
ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

KR 11.22.10

Data File: \\Terastation\share\GCdata\GC70A.I\111810.B\1118-070.D Page 1
Report Date: 22-Nov-2010 12:35

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 19-NOV-2010 22:35
Lab File ID: 1118-070.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: OTP 015 10GCSV0232 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\111810.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 O-Terphenyl	862	991	0.000	14.92699	15.00000	Averaged
$ 2 Triacontane-d62	658	603	0.000	-8.28330	15.00000	Averaged

TestAmerica West Sacramento

Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx

Data file : \\Terastation\share\GCdata\GC70A.I\111810.B\1118-070.D
Lab Smp Id: OTP_015 10GCSV0232
Inj Date : 19-NOV-2010 22:35
Operator : KR Inst ID: GC70A.i
Smp Info : OTP_015 10GCSV0232;2;;4;;;
Misc Info : 3;1SURCAL.sub;;0;
Comment : TPH by GC-FID
Method : \\Terastation\share\GCdata\GC70A.I\111810.B\8015.m
Meth Date : 19-Nov-2010 22:58 tap Quant Type: ESTD
Cal Date : 22-AUG-2010 17:41 Cal File: 0822-009.D
Als bottle: 68 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1SURCAL.sub
Target Version: 4.14
Processing Host: SACP307GC

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 O-Terphenyl	9.702	9.702	0.000	14860437	15000.0	17240
$ 2 Triacontane-d62	13.932	13.932	0.000	9049940	15000.0	13760

Data File: \\Terastation\share\GCdata\GC70A.I\111810.B\1118-083.D Page 1
Report Date: 22-Nov-2010 13:22

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 20-NOV-2010 04:56
Lab File ID: 1118-083.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: DSL 500 10GCSV0377 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\111810.B\8015.M

	COMPOUND	RRF / AMOUNT	RF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S	3 Diesel C10 to C24	757	845	0.000	11.68015	15.00000	Averaged
S	5 Diesel C9 to C25	774	864	0.000	11.67470	15.00000	Averaged
S	4 DRO C10 to C28	760	848	0.000	11.59723	15.00000	Averaged
S	6 Diesel C12 to C24	673	743	0.000	10.46093	15.00000	Averaged
S	7 Diesel C12 to C34	691	747	0.010	8.10788	15.00000	Averaged
S	8 DRO AK102 C10 to C25	757	846	0.000	11.65956	15.00000	Averaged

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

KR 11 22 10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 20-NOV-2010 05:25
Lab File ID: 1118-084.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: OTP_015 10GCSV0232 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\111810.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 O-Terphenyl	862	963	0.000	11.72813	15.00000	Averaged
$ 2 Triacontane-d62	658	577	0.000	-12.28991	15.00000	Averaged

Data File: \\Terastation\share\GCdata\GC70A.I\111810.B\1118-100.D Page 1
Report Date: 22-Nov-2010 13:29

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 20-NOV-2010 13:13
Lab File ID: 1118-100.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: DSL 500 10GCSV0377 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\111810.B\8015.M

COMPOUND	RRF / AMOUNT	RF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 3 Diesel C10 to C24	757	842	0.000	11.33921	15.00000	Averaged
S 5 Diesel C9 to C25	774	863	0.000	11.55348	15.00000	Averaged
S 4 DRO C10 to C28	760	844	0.000	11.05151	15.00000	Averaged
S 6 Diesel C12 to C24	673	746	0.000	10.91106	15.00000	Averaged
S 7 Diesel C12 to C34	691	748	0.010	8.26409	15.00000	Averaged
S 8 DRO AK102 C10 to C25	757	843	0.000	11.25430	15.00000	Averaged

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

1UL 11.22.10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 20-NOV-2010 13:42
Lab File ID: 1118-101.D Init. Cal. Date(s): 09-FEB-2007 04-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:14
Lab Sample ID: OTP 015 10GCSV0232 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\111810.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 O-Terphenyl	862	988	0.000	14.56653	15.00000	Averaged
$ 2 Triacontane-d62	658	567	0.000	-13.82746	15.00000	Averaged

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 57

Inst ID: GC70A Batch ID: 112910B
Method : Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx Test : TPH by GC-FID
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
29-NOV-2010	20:53	KT	ALKANE MARKER	1129-002.	0 g	0 mL	1	
29-NOV-2010	21:22	KT	OTP_001 10GCSV0229	1129-003.	0 g	0 mL	1	
29-NOV-2010	21:51	KT	OTP_005 10GCSV0230	1129-004.	0 g	0 mL	1	
29-NOV-2010	22:20	KT	OTP_010 10GCSV0231	1129-005.	0 g	0 mL	1	
29-NOV-2010	22:49	KT	OTP_015 10GCSV0232	1129-006.	0 g	0 mL	1	
29-NOV-2010	23:18	KT	OTP_020 10GCSV0233	1129-007.	0 g	0 mL	1	
29-NOV-2010	23:47	KT	OTP_025 10GCSV0234	1129-008.	0 g	0 mL	1	
30-NOV-2010	00:16	KT	DSL_010 10GCSV0244	1129-009.	0 g	0 mL	1	
30-NOV-2010	00:45	KT	DSL_050 10GCSV0245	1129-010.	0 g	0 mL	1	
30-NOV-2010	01:14	KT	DSL_100 10GCSV0246	1129-011.	0 g	0 mL	1	
30-NOV-2010	01:44	KT	DSL_300 10GCSV0247	1129-012.	0 g	0 mL	1	
30-NOV-2010	02:13	KT	DSL_500 10GCSV0377	1129-013.	0 g	0 mL	1	
30-NOV-2010	02:42	KT	DSL_1000 10GCSV0248	1129-014.	0 g	0 mL	1	
30-NOV-2010	03:11	KT	DSL_1500 10GCSV0249	1129-015.	0 g	0 mL	1	
30-NOV-2010	03:40	KT	DSL_2000 10GCSV0419	1129-016.	0 g	0 mL	1	
30-NOV-2010	04:09	KT	DSL_300 ICV 10GCSV0251	1129-017.	0 g	0 mL	1	
30-NOV-2010	04:38	KT	DSL_300 10GCSV0247	1129-018.	0 g	0 mL	1	
30-NOV-2010	05:07	KT	OTP_010 10GCSV0231	1129-019.	0 g	0 mL	1	
30-NOV-2010	05:36	KT	L9M901AA 0310098 K060000-098B	1129-020.	30 g	3 mL	1	
30-NOV-2010	06:05	KT	L9M901AC 0310098 K060000-098C	1129-021.	30 g	3 mL	1	
30-NOV-2010	06:34	KT	L84FA1AN 0310098 J260451-3 10X	1129-022.	29.35 g	3 mL	10	
30-NOV-2010	07:04	KT	L84FD1AN 0310098 J260451-4 10X	1129-023.	29.68 g	3 mL	10	
30-NOV-2010	07:33	KT	L84FD1DN 0310098 J260451-4S 10	1129-024.	30.64 g	3 mL	10	
30-NOV-2010	08:02	KT	L84FD1DP 0310098 J260451-4D 10	1129-025.	30.09 g	3 mL	10	
30-NOV-2010	08:31	KT	L84FN1AN 0310098 J260451-8 100	1129-026.	29.52 g	3 mL	100	
30-NOV-2010	09:00	KT	L84FT1AN 0310098 J260451-11 10	1129-027.	30.71 g	3 mL	100	
30-NOV-2010	09:29	KT	ALKANE MARKER	1129-028.	0 g	0 mL	1	
30-NOV-2010	09:58	KT	DSL_500 10GCSV0377	1129-029.	0 g	0 mL	1	
30-NOV-2010	10:27	KT	OTP_015 10GCSV0232	1129-030.	0 g	0 mL	1	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 30-NOV-2010 04:38
Lab File ID: 1129-018.D Init. Cal. Date(s): 09-FEB-2007 30-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:40
Lab Sample ID: DSL_300 10GCSV0247 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 3 Diesel C10 to C24	793	755	0.000	-4.81238	15.00000	Averaged
S 5 Diesel C9 to C25	812	772	0.000	-4.90028	15.00000	Averaged
S 4 DRO C10 to C28	797	756	0.000	-5.05932	15.00000	Averaged
S 6 Diesel C12 to C24	704	670	0.000	-4.82422	15.00000	Averaged
S 7 Diesel C12 to C34	713	672	0.010	-5.71771	15.00000	Averaged
S 8 DRO AK102 C10 to C25	811	772	0.000	-4.86540	15.00000	Averaged

11/30/10

TestAmerica West Sacramento

Methods 8015B-Mod, AK102/103, CA-LUFT and NWTPH-Dx

Data file : \\Terastation\share\GCdata\GC70A.I\112910B.B\1129-018.D
Lab Smp Id: DSL_300 10GCSV0247
Inj Date : 30-NOV-2010 04:38
Operator : KT Inst ID: GC70A.i
Smp Info : DSL_300 10GCSV0247;2;;4;;;
Misc Info : 3;2DSLCAL.sub;;0;
Comment : TPH by GC-FID
Method : \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m
Meth Date : 30-Nov-2010 11:54 truongk Quant Type: ESTD
Cal Date : 30-NOV-2010 03:40 Cal File: 1129-016.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 2DSLCAL.sub
Target Version: 4.14
Processing Host: SACP307UM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 3 Diesel C10 to C24	3.641	11.914		226449086	300000	285600
S 5 Diesel C9 to C25	2.684	12.302		231552120	300000	285300
S 4 DRO C10 to C28	3.641	13.412		226876050	300000	284800
S 6 Diesel C12 to C24	5.293	11.914		201000309	300000	285500
S 7 Diesel C12 to C34	5.293	15.333		201571653	300000	282800
S 8 DRO AK102 C10 to C25	2.684	12.102		231452811	300000	285400

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 30-NOV-2010 05:07
Lab File ID: 1129-019.D Init. Cal. Date(s): 09-FEB-2007 30-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:40
Lab Sample ID: OTP 010 10GCSV0231 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 O-Terphenyl	900	922	0.000	2.45073	15.00000	Averaged
$ 2 Triacontane-d62	667	673	0.000	0.97696	15.00000	Averaged

11/30/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 30-NOV-2010 09:58
Lab File ID: 1129-029.D Init. Cal. Date(s): 09-FEB-2007 30-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:40
Lab Sample ID: DSL 500 10GCSV0377 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m

COMPOUND	RRF / AMOUNT	RF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
S 3 Diesel C10 to C24	793	772	0.000	-2.67190	15.00000	Averaged
S 5 Diesel C9 to C25	812	790	0.000	-2.60556	15.00000	Averaged
S 4 DRO C10 to C28	797	774	0.000	-2.81911	15.00000	Averaged
S 6 Diesel C12 to C24	704	685	0.000	-2.71656	15.00000	Averaged
S 7 Diesel C12 to C34	713	688	0.010	-3.52746	15.00000	Averaged
S 8 DRO AK102 C10 to C25	811	790	0.000	-2.59772	15.00000	Averaged

11/30/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GC70A.i Injection Date: 30-NOV-2010 10:27
Lab File ID: 1129-030.D Init. Cal. Date(s): 09-FEB-2007 30-NOV-2010
Analysis Type: Init. Cal. Times: 18:30 03:40
Lab Sample ID: OTP_015 10GCSV0232 Quant Type: ESTD
Method: \\Terastation\share\GCdata\GC70A.I\112910B.B\8015.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 O-Terphenyl	900	952	0.000	5.73977	15.00000	Averaged
$ 2 Triacontane-d62	667	741	0.000	11.16695	15.00000	Averaged

11/30/10

Due 11/12

TestAmerica West Sacramento
Organic Prep Log
8015 Solids

Box # NA

Shared QC Batch: NA

Shares QC With: NA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	
Inst Receipt:	

Batch: 0310098
MS Run #: 0310062
Prep Date: 11/6/2010
Method: HS 8015 MOD
Matrix: A SOLID
Extraction: 13 SONICATION - Low Level
QC: D4 DOD QSM V4.X
SAC: HS - A - 13 - D4

CR 11-6-10

355013
WS-OP-0004

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	536J14
Na2SO4	Baker	3640-66F
Si Gel	Baker	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 30g nom.	Final Volume 3mL	Final Volume Other	Analysis Hold Time Expires
G0J260451 - 1		L84EX1AC	11/8/2010	29.99	✓		12/16/2010
G0J260451 - 2		L84E91AN	11/8/2010	29.81	✓		12/16/2010
G0J260451 - 3		L84FA1AN	11/8/2010	29.35	✓		12/16/2010
G0J260451 - 4		L84FD1AN	11/8/2010	29.68	✓		12/16/2010
G0J260451 - 4	S	L84FD1DN	11/8/2010	30.64	✓		12/16/2010
G0J260451 - 4	D	L84FD1DP	11/8/2010	30.09	✓		12/16/2010
G0J260451 - 5		L84FF1AN	11/8/2010	30.66	✓		12/16/2010
G0J260451 - 7		L84FL1AN	11/8/2010	29.86	✓		12/16/2010
G0J260451 - 8		L84FN1AN	11/8/2010	29.52	✓		12/16/2010
G0J260451 - 9		L84FQ1AN	11/8/2010	29.79	✓		12/16/2010
G0J260451 - 10		L84FR1AN	11/8/2010	30.30	✓		12/16/2010
G0J260451 - 11		L84FT1AN	11/8/2010	30.71	✓		12/16/2010
G0J260451 - 12		L84FV1AN	11/8/2010	29.96	✓		12/16/2010
G0J260451 - 13		L84FW1AN	11/8/2010	30.05	✓		12/16/2010
G0K060000 - 98	B	L9M901AA	11/8/2010	30.00	✓		12/16/2010
G0K060000 - 98	C	L9M901AC	11/8/2010	30.00	✓		12/16/2010

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: wt sheet 101106D

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	100P282 100mL	5/4/11	AM	CR	11-6-10
Spike Mix LCS/LCSD/MS/MS	100P0210 100mL	3/16/11	AM	CR	11-6-10
Additional Spike or Surrogate					

Extraction Analyst/Date: AM 11/6/10

KD Analyst/Date: NP 11-18-10

Concentration Analyst/Date: NP 11-18-10

KD Temp: 80-85°c

Clean up Analyst/Date: NA

Si clean

Review Analyst/Date: 11-19-10

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/06/10
Time: 14:27:46

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____

Concentrationist: _____
_____

****
* *
* **QC BATCH: 0310098** *
* *
****

PREP DATE: 11/06/10 11:00
COMP DATE: 11/06/10 12:00

Reviewer/Date: _____ / 0/00/00

Hydrocarbons, Extractable Petroleum (8015 MOD)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-001 **L84EX-1-AC**	D	13	HS	SOLID	**29.99g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-002 **L84E9-1-AN**	D	13	HS	SOLID	**29.81g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-003 **L84FA-1-AN**	D	13	HS	SOLID	**29.35g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-AN**	D	13	HS	SOLID	**29.68g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DNS**	D	13	HS	SOLID	**30.64g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0210 100UL DSL SPIKE 100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DPD**	D	13	HS	SOLID	**30.09g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0210 100UL DSL SPIKE 100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-005 **L84FF-1-AN**	D	13	HS	SOLID	**30.66g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/06/10
Time: 14:27:46

QC BATCH: 0310098

PREP DATE: 11/06/10 11:00
COMP DATE: 11/06/10 12:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-007 **L84FL-1-AN**	D	13	HS	SOLID	**29.86g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-008 **L84FN-1-AN**	D	13	HS	SOLID	**29.52g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-009 **L84FQ-1-AN**	D	13	HS	SOLID	**29.79g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-010 **L84FR-1-AN**	D	13	HS	SOLID	**30.30g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-011 **L84FT-1-AN**	D	13	HS	SOLID	**30.71g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-012 **L84FV-1-AN**	D	13	HS	SOLID	**29.96g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-013 **L84FW-1-AN**	D	13	HS	SOLID	**30.05g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	0/00/00	G0K060000-098 **L9M90-1-AAB**		13	HS	SOLID	**30.00g** mL	NA	NA	NA	DCM	300.0		.0	100P0282 100UL OTP SURR
COMMENTS:															
11/08/10	0/00/00	G0K060000-098 **L9M90-1-ACC**		13	HS	SOLID	**30.00g** 3.00mL	NA	NA	NA	DCM	300.0		.0	100P0210 100UL DSL SPIKE 100P0282 100UL OTP SURR
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 16

TestAmerica

West Sacramento

Weight Difference Worksheet

Batch Id: 101106D

Created Date: 11/6/10 9:48:50 AM

Test Date: 11/6/10

Group Comments:

ANALYST: 430255

TEST: 8015

BALANCE ID: QA-036

QuantIMS Batch: 030098

Sample ID:	Initial Weight (g)	Weight after rinse (g)	Weight Diff (g)	Comments:
G0J260451-001	29.99	0.00	0.00	
G0J260451-002	29.81	0.00	0.00	
G0J260451-003	29.35	0.00	0.00	
G0J260451-004	29.68	0.00	0.00	
G0J260451-004S	30.64	0.00	0.00	
G0J260451-004D	30.09	0.00	0.00	
G0J260451-005	30.66	0.00	0.00	
		0.00	0.00	
G0J260451-007	29.86	0.00	0.00	
G0J260451-008	29.52	0.00	0.00	
G0J260451-009	29.79	0.00	0.00	
G0J260451-010	30.30	0.00	0.00	
G0J260451-011	30.71	0.00	0.00	
G0J260451-012	29.96	0.00	0.00	
G0J260451-013	30.05	0.00	0.00	

Water Weight Different Worksheet, Revised 12/31/2008 ERS Printed Saturday, November 06, 2010 10:44:34 AM

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0310098 **Test:** 8015-5

Prep Date: 11-6-10 **Holding Times:** 11/8/10 **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: Chelsie Rosta Date: 11-6-10

2nd Level Reviewer: [signature] Date: 11-19-10

Comments:

TestAmerica **West Sacramento**

GC/HPLC Data **Review** Checklist

Batch: 0310098 **Method ID:** Hydrocarbons, Extractable Petroleum (8015 MOD)

NCM: Y N GTID G0J260451

1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.		✓	✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
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.	✓	✓	
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)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: [signature] Date: 11/30/10

2nd Level Reviewer: [signature] Date: 11-3-10

Comments:

q:\forms\qa-507_gc_review.doc

QA-508 GC Review
3/4/02 ERS

SOLID, 8270C, Semivolatile Organics

ICV/CCV
Run Logs
Prep Log

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

MS SemiVOA ICAL Checklist
Method 8270C

Instrument: SV5

Injection Date: 10/02/10

Initiator/Date: KT-10/03/10

Reviewer/Date: [illegible] 10/4/10

DFTPP Mix ID: 10MSSV0129

STD Mix IDs: 10MSSV0307-0313

2nd Source Mix ID: 10MSSV0314, 342

NCM _____

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

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

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

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dichlorophenol	☒	☑	Fluoranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

III: Other Criteria	Initiated	Reviewed
The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG:_____	☒	☑
Tailing and degradation criteria are met.	☒	☑
The Tune Documentation is present and meets criteria	☒	☑
All Internal Standards within 50-200% of ICAL mid-point.	☒	☑
Calibration History Included.	☒	☑
Manual re-integrations are checked/initialed and hardcopies included.	☒	☑
Standards analyzed with within 12 hours of Tune time.	☒	☑
Retention time correct for isomers and all other analytes.	☒	☑
Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)	☒	☑
The second source standard meets the SSCS criteria	☒	☑

File Name: _____

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

None

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

None

\\SACP104\BRIGHTSIDE\BRIGHTSIDE\8270KEITH\CURVES\8270 COVER PAGES\HSL\SV5_HSL_ICAL_100210.DOC

QA-512 ERS 1/2/2008

TestAmerica West Sacramento Page# 57

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

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

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

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
02-OCT-2010	11:43	KT	Primer	QC001.D	NA	NA	NA		
02-OCT-2010	12:06	KT	DFTPP 50ug/ml	DFT1002.D	NA	NA	NA		
02-OCT-2010	12:27	KT	HSL_005 ug/ml CS-1	HSL1002A.	NA	NA	NA		
02-OCT-2010	12:53	KT	HSL_010 ug/ml CS-2	HSL1002B.	NA	NA	NA		
02-OCT-2010	13:18	KT	HSL_020 ug/ml CS-3	HSL1002C.	NA	NA	NA		
02-OCT-2010	13:44	KT	HSL_050 ug/ml CS-4	HSL1002D.	NA	NA	NA		
02-OCT-2010	14:09	KT	HSL_080 ug/ml CS-5	HSL1002E.	NA	NA	NA		
02-OCT-2010	14:35	KT	HSL_120 ug/ml CS-6	HSL1002F.	NA	NA	NA		
02-OCT-2010	15:00	KT	HSL_160 ug/ml CS-7	HSL1002G.	NA	NA	NA		
02-OCT-2010	16:11	KT	HSL_050 ug/ml ICV	HSL1002H.	NA	NA	NA		
02-OCT-2010	16:36	KT	Benzidines ICV 50ug/mL	HSL1002H1	NA	NA	NA		

SV5 HSL
10/3/10

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 11:09 onishim

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

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 N-Nitrosodimethylamine	0.92899	0.88268	0.91048	0.91970	0.93146	0.93916					
	0.93833						AVRG		0.92154		2.16207
16 Pyridine	1.67117	1.37423	1.59449	1.56610	1.52299	1.53256					
	1.52623						AVRG		1.54111		5.88860
23 Aniline	2.20796	2.15935	2.19988	2.26058	2.29749	2.33400					
	2.33783						AVRG		2.28673		3.09753
24 Phenol	2.04111	1.96212	2.02834	2.03430	2.06683	2.06089					
	2.06740						AVRG		2.03729		1.80250

Manual calculation for 2,4,5-Trichlorophenol @ Level 3:
$\frac{55529}{328608} \times \frac{40}{20} = 0.33796$ by 10/4/10

TestAmerica West Sacramento

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Bis(2-chloroethyl)ether	1.47335	1.38252	1.39491	1.43824	1.42549	1.44300					
	1.44264						AVRG		1.42859		2.17028
27 2-Chlorophenol	1.52099	1.55595	1.56903	1.58168	1.56789	1.58074					
	1.57039						AVRG		1.56381		1.32806
28 1,3-Dichlorobenzene	1.68903	1.69173	1.67754	1.73135	1.68641	1.72299					
	1.72457						AVRG		1.70337		1.29370
29 1,4-Dichlorobenzene	1.77122	1.79861	1.74013	1.76898	1.78200	1.79288					
	1.81444						AVRG		1.78118		1.35229
30 Benzyl Alcohol	1.01643	1.03654	0.99182	1.04980	1.07792	1.08952					
	1.09506						AVRG		1.05101		3.69696
31 1,2-Dichlorobenzene	1.62008	1.63185	1.60455	1.68061	1.63410	1.64415					
	1.64691						AVRG		1.63746		1.45884
32 2-Methylphenol	1.40818	1.38930	1.39110	1.42620	1.45565	1.46154					
	1.47889						AVRG		1.43012		2.50558

TestAmerica West Sacramento

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
33 2,2'-oxybis(1-Chloropropane)	2.29602	2.22080	2.28329	2.27928	2.27018	2.27830					
	2.26770						AVRG		2.27365		1.08468
34 4-Methylphenol	1.48606	1.48913	1.46270	1.52239	1.52653	1.55886					
	1.58763						AVRG		1.51904		2.88378
36 Hexachloroethane	0.60925	0.60836	0.60573	0.61394	0.60427	0.59381					
	0.60919						AVRG		0.60636		1.04319
37 N-Nitrosodinpropylamine	0.94498	0.97005	1.01302	1.02370	1.04700	1.03627					
	1.04757						AVRG		1.01180		3.92615
42 Nitrobenzene	0.32855	0.32602	0.32543	0.33083	0.33379	0.33450					
	0.33901						AVRG		0.33116		1.48904
44 Isophorone	0.63431	0.62291	0.61160	0.63344	0.63648	0.66468					
	0.65411						AVRG		0.63679		2.81109
45 2-Nitrophenol	0.18608	0.18833	0.18840	0.20021	0.20022	0.20702					
	0.20608						AVRG		0.19648		4.42274

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
46 2,4-Dimethyphenol	0.34459	0.34167	0.34307	0.34912	0.34788	0.35962					
	0.35785						AVRG		0.34911		2.02786
47 Bis(2-chloroethoxy)methane	0.41146	0.37494	0.38565	0.38249	0.38500	0.39859					
	0.38545						AVRG		0.38908		3.10601
49 2,4-Dichlorophenol	0.25434	0.26318	0.27019	0.27037	0.27274	0.28180					
	0.27809						AVRG		0.27010		3.39345
50 Benzoic Acid	0.16747	0.16266	0.17423	0.19357	0.21024	0.22272					
	0.22180						AVRG		0.19324		13.25202
51 1,2,4-Trichlorobenzene	0.29430	0.28827	0.28475	0.29747	0.29189	0.29959					
	0.29091						AVRG		0.29246		1.75989
52 Naphthalene	1.09939	1.12462	1.07435	1.09325	1.09870	1.13821					
	1.10247						AVRG		1.10443		1.89960
54 4-Chloroaniline	0.40751	0.42534	0.43264	0.43910	0.43781	0.44905					
	0.43867						AVRG		0.43288		3.06843

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
57 Hexachlorobutadiene	0.14295	0.13812	0.14428	0.14416	0.14386	0.14379					
	0.14473						AVRG		0.14313		1.58904
60 4-Chloro-3-Methylphenol	0.29329	0.28866	0.29079	0.30972	0.30295	0.31766					
	0.30839						AVRG		0.30164		3.64422
63 2-Methylnaphthalene	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172					
	0.69217						AVRG		0.69378		1.79740
66 Hexachlorocyclopentadiene	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262					
	0.33186						AVRG		0.29846		7.64489
69 2,4,6-Trichlorophenol	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225					
	0.33638						AVRG		0.31913		5.15654
70 2,4,5-Trichlorphenol	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480					
	0.36135						AVRG		0.34380		5.80662
71 2-Chloronaphthalene	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447					
	1.15096						AVRG		1.12571		2.05054

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
73 2-Nitroaniline	0.31576	0.31759	0.33397	0.35205	0.34821	0.35794					
	0.36278						AVRG		0.34119		5.57334
76 Dimethylphthalate	1.23388	1.25191	1.29803	1.34569	1.31165	1.32891					
	1.30237						AVRG		1.29606		3.09317
77 Acenaphthylene	1.86531	1.91304	1.91818	2.01646	1.98204	1.99786					
	2.02968						AVRG		1.96037		3.15026
79 2,6-Dinitrotoluene	0.28347	0.27378	0.29890	0.31220	0.31294	0.32140					
	0.31106						AVRG		0.30197		5.78579
80 3-Nitroaniline	0.35362	0.34622	0.35978	0.40036	0.38674	0.39559					
	0.39603						AVRG		0.37691		6.06861
81 Acenaphthene	1.25874	1.22468	1.26733	1.27046	1.21141	1.24781					
	1.25463						AVRG		1.24787		1.76776
82 2,4-Dinitrophenol	4083	7537	23799	58864	110384	199007					
	265666						QUAD	0.10620	5.22413	-0.71963	0.99812

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
83 Dibenzofuran	1.57786	1.62124	1.65200	1.69530	1.65117	1.68460					
	1.71077						AVRG		1.68612		2.77923
84 4-Nitrophenol	0.12712	0.14148	0.15316	0.16076	0.17130	0.16653					
	0.17404						AVRG		0.15634		10.90920
86 2,4-Dinitrotoluene	0.34360	0.35989	0.38479	0.42154	0.41035	0.42305					
	0.43110						AVRG		0.39633		8.61592
91 Fluorene	1.34567	1.33840	1.34292	1.39902	1.38899	1.37835					
	1.40640						AVRG		1.37139		2.08587
92 Diethylphthalate	1.22240	1.29889	1.31549	1.37912	1.31873	1.37345					
	1.38087						AVRG		1.32699		4.31989
93 4-Chlorophenyl-phenylether	0.54964	0.55917	0.56887	0.59265	0.56708	0.57695					
	0.57695						AVRG		0.57019		2.42913
94 4-Nitroaniline	0.33346	0.33747	0.37329	0.38337	0.39216	0.39102					
	0.40452						AVRG		0.37361		7.42395

TestAmerica West Sacramento

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
97 4,6-Dinitro-2-methylphenol	5780	11282	32982	76137	134784	236477					
	324244						LINR	0.10840	0.15581		0.99840
98 N-Nitrosodiphenylamine	0.57756	0.59736	0.60533	0.60433	0.62172	0.61801					
	0.61968						AVRG		0.60628		2.57715
100 Azobenzene	0.77527	0.76968	0.77321	0.79522	0.80064	0.81892					
	0.77331						AVRG		0.78660		2.37146
101 4-Bromophenyl-phenylether	0.18964	0.18507	0.19281	0.19931	0.19607	0.20581					
	0.19818						AVRG		0.19527		3.48752
108 Hexachlorobenzene	0.22958	0.22064	0.20740	0.21605	0.21731	0.21704					
	0.21854						AVRG		0.21807		3.00928
110 Pentachlorophenol	5849	10551	30451	67882	126397	215360					
	293184						LINR	0.09816	0.14122		0.99845
114 Phenanthrene	1.30347	1.26007	1.25408	1.24163	1.24375	1.26610					
	1.26611						AVRG		1.26074		1.64308

TestAmerica West Sacramento

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
115 Anthracene	1.25034	1.21759	1.24206	1.25982	1.27529	1.30214					
	1.26958						AVRG		1.25955		2.12888
118 Carbazole	1.13211	1.12547	1.13694	1.14260	1.17067	1.18192					
	1.16455						AVRG		1.15061		1.87826
120 Di-n-Butylphthalate	1.28492	1.32287	1.36193	1.38164	1.41474	1.43847					
	1.48636						AVRG		1.38442		4.97257
126 Fluoranthene	1.03840	1.07611	1.17216	1.10620	1.15861	1.18294					
	1.17440						AVRG		1.12969		5.01774
127 Benzidine	0.78175	0.76431	0.75250	0.82658	0.82201	0.86375					
	0.86381						AVRG		0.81067		5.60614
128 Pyrene	1.25791	1.23783	1.17078	1.28684	1.25586	1.28463					
	1.25794						AVRG		1.25026		3.12172
134 3,3'-dimethylbenzidine	0.65472	0.64388	0.67361	0.70756	0.73630	0.79414					
	0.79926						AVRG		0.71564		8.88815

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 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233					
	0.64920						AVRG		0.62663		3.95034
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831					
	1.10920						AVRG		1.06548		4.05847
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241					
	1.12246						AVRG		1.08994		2.59426
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717					
	0.42415						AVRG		0.40189		4.83885
141 bis(2-ethylhexyl)Phthalate	0.91826	0.80897	0.84032	0.88193	0.84371	0.89539					
	0.88354						AVRG		0.86316		4.34816
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39356	1.47616					
	1.50770						AVRG		1.37975		6.65055
144 Benzo(b)fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91132					
	1.02672						AVRG		0.90549		10.05836

TestAmerica West Sacramento

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Start Cal Date : 17-AUG-2010 17:32
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Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
145 Benzo(k)fluoranthene	1.22939	1.16528	1.20022	1.09895	1.14223	1.19597					
	1.10447						AVRG		1.16236		4.27893
147 Benzo(e)pyrene	0.90394	0.92734	0.90757	0.95977	0.96997	0.96929					
	0.97185						AVRG		0.94425		3.22007
148 Benzo(a)pyrene	0.98300	0.97686	0.99402	1.02789	1.07610	1.06275					
	1.06523						AVRG		1.02655		4.11137
151 Indeno(1,2,3-cd)pyrene	0.73783	0.73267	0.73671	0.84698	0.84057	0.93730					
	0.97995						AVRG		0.83029		12.15083
152 Dibenzo(a,h)anthracene	0.88099	0.84384	0.87256	0.92240	0.95990	1.00944					
	1.00392						AVRG		0.92758		7.07091
153 Benzo(g,h,i)perylene	0.96025	0.98487	0.97380	0.99974	1.01731	1.05397					
	1.04026						AVRG		1.00427		3.45188
M 162 benzo b,k Fluoranthene Totals	2.03951	1.97605	2.02770	2.09825	2.09596	2.10729					
	2.13019						AVRG		2.06785		2.64859

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
# 7 2-Fluorophenol	1.44503	1.30436	1.38373	1.44170	1.43535	1.42292					
	1.43635						AVRG		1.40992		3.61494
# 8 Phenol-d5	1.72227	1.67335	1.74151	1.79006	1.80863	1.83864					
	1.83627						AVRG		1.77296		3.52001
# 9 2-Chlorophenol-d4	1.47770	1.55530	1.53916	1.59414	1.57486	1.57967					
	1.57804						AVRG		1.55698		2.52388
# 10 1,2-Dichlorobenzene-d4	0.95776	0.98111	0.99827	0.98914	0.99518	0.98547					
	0.98896						AVRG		0.98513		1.35559
# 11 Nitrobenzene-d5	0.33028	0.34256	0.33065	0.34105	0.33606	0.35127					
	0.33970						AVRG		0.33879		2.16217
# 12 2-Fluorobiphenyl	1.28499	1.26007	1.27668	1.34206	1.25854	1.29723					
	1.30010						AVRG		1.28852		2.22622
# 13 2,4,6-Tribromophenol	0.15034	0.16527	0.17466	0.17926	0.17825	0.18501					
	0.18390						AVRG		0.17381		7.05197

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 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
$ 14 Terphenyl-d14	0.78508	0.78616	0.73917	0.80441	0.78047	0.81889					
	0.80107						AVRG		0.78789		3.21384

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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

1	7.582	50.000	50142	7.468	40.000	236662	0.16949742670982
2	7.572	50.000	58864	7.468	40.000	282538	0.16667209366528
3	7.582	50.000	56608	7.468	40.000	239304	0.18924213552636
4	7.589	50.000	98553	7.485	40.000	440855	0.17883975456783
5	7.599	50.000	81881	7.485	40.000	371846	0.17616109894957
6	7.599	50.000	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	226619	0.17714666466625
11	7.610	50.000	44092	7.506	40.000	201923	0.17468837130986
12	7.620	50.000	81056	7.516	40.000	329174	0.19699247206645
13	7.620	50.000	93793	7.516	40.000	378407	0.19829020076267
14	7.630	50.000	68549	7.516	40.000	271629	0.20189007801082
15	7.630	50.000	54835	7.516	40.000	219680	0.19969045884924
16	7.630	50.000	67628	7.527	40.000	267569	0.20219980640508
17	7.630	50.000	94376	7.527	40.000	349016	0.21632475301992
18	7.635	50.000	51607	7.532	40.000	209252	0.19730086211840
19	7.635	50.000	62563	7.531	40.000	260404	0.19220288474831
20	7.646	50.000	80386	7.542	40.000	334425	0.19229662854153
21	7.645	50.000	25473	7.542	40.000	302573	0.06735035842590
22	7.645	50.000	17649	7.542	40.000	223404	0.06320030080034
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	45689	7.697	40.000	246748	0.16110039392417
46	7.801	50.000	83728	7.697	40.000	361851	0.18511044601231
47	7.801	50.000	69470	7.697	40.000	316865	0.17539330629763
48	7.811	50.000	98764	7.708	40.000	448001	0.17636389204488
49	7.811	50.000	65199	7.708	40.000	319060	0.16347771579013
50	7.811	50.000	63819	7.708	40.000	326041	0.15659134894078
51	7.811	50.000	69420	7.708	40.000	325539	0.17059707131864
52	7.822	50.000	66513	7.718	40.000	295770	0.17990465564459
53	7.822	50.000	58901	7.718	40.000	274779	0.17148617616339
54	7.822	50.000	58321	7.718	40.000	264752	0.17622831933281
55	7.816	50.000	90734	7.713	40.000	414154	0.17526620532459
56	7.858	50.000	49564	7.754	40.000	260934	0.15195873285965
57	7.858	50.000	63475	7.754	40.000	318667	0.15935129774969
58	7.889	50.000	58884	7.785	40.000	318462	0.14792094504211
59	7.889	50.000	52456	7.796	40.000	304639	0.13775255302177
60	7.889	50.000	44855	7.796	40.000	283970	0.12636546114026
61	7.889	50.000	40711	7.785	40.000	264293	0.12322990014870
Avg	7.719	50.000	61661	7.615	40.000	4333	0.17364233986573

Ind	Sublist	Calibration File
1	1_8270STD	\\svs\c\chem\svs.i\100210.B\HSL1002H

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\092910.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

Data File: \\SV5\C\chem\sv5.i\100210.B\8270f.m
Report Date: 04-Oct-2010 10:52

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/m1
m1 = 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	0.13227614556582
6	9.240	120.00000	215360	9.406	40.000	515607	0.13922748656761
7	9.250	160.00000	293184	9.406	40.000	532284	0.13770092657303

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

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor

1	9.240	50.000	62906	9.406	40.000	380734	0.13217837125132
2	9.240	50.000	67882	9.406	40.000	462722	0.11736118014704
3	9.257	50.000	111129	9.423	40.000	692643	0.12835356742218
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	0.13391557714699
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	9.465	40.000	350214	0.13973399121680
15	9.309	50.000	72641	9.475	40.000	436116	0.13325078648800
16	9.309	50.000	99213	9.475	40.000	545533	0.14549147347640
17	9.314	50.000	56050	9.480	40.000	341600	0.13126463700234
18	9.314	50.000	67187	9.480	40.000	410196	0.13103394474836
19	9.324	50.000	90596	9.490	40.000	530756	0.13655389670583
20	9.324	50.000	32043	9.490	40.000	484990	0.05285552279428
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	0.14010053218506
32	9.459	50.000	87217	9.625	40.000	539077	0.12943160253544
33	9.459	50.000	77540	9.625	40.000	458679	0.13524054949104

34	9.470	50.000	79232	9.646	40.000	482971	0.13124100618878
35	9.480	50.000	75075	9.656	40.000	465501	0.12902227922174
36	9.480	50.000	69872	9.656	40.000	435300	0.12841167011257
37	9.490	50.000	60626	9.656	40.000	378611	0.12810193047746
38	9.490	50.000	60476	9.666	40.000	383533	0.12614507747704
39	9.490	50.000	68275	9.656	40.000	401081	0.13618196823086
40	9.490	50.000	68275	9.656	40.000	401081	0.13618196823086
41	9.490	50.000	51783	9.666	40.000	337799	0.12263624226241
42	9.501	50.000	70205	9.677	40.000	425699	0.13193359627342
43	9.511	50.000	60939	9.677	40.000	381025	0.12794751000591
44	9.501	50.000	61157	9.677	40.000	380328	0.12864054184809
45	9.500	50.000	98266	9.676	40.000	586969	0.13393007126441
46	9.500	50.000	82460	9.677	40.000	500580	0.13178313156738
47	9.511	50.000	117721	9.687	40.000	687233	0.13703765680635
48	9.511	50.000	77582	9.687	40.000	485585	0.12781613929590
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.B\HSL1002B
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D

3	1_8270STD	\\SVS\C\chem\svs.i\100110.B\HSL1001
4	1_8270STD	\\SVS\C\chem\svs.i\093010.B\HSL0930
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21	1_8270STD	\\SVS\C\chem\svs.i\092210.B\QC001
22	1_8270STD	\\SVS\C\chem\svs.i\092110.B\HSL0921
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24	1_8270STD	\\SVS\C\chem\svs.i\092010.B\HSL0920
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60	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817H

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

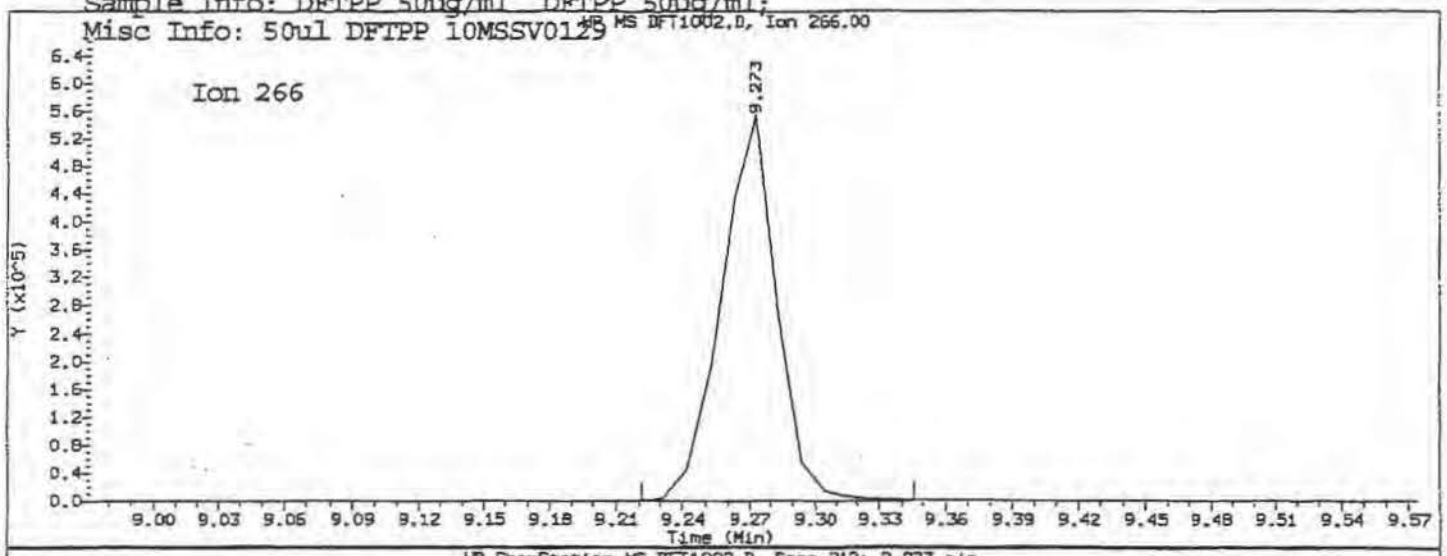
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

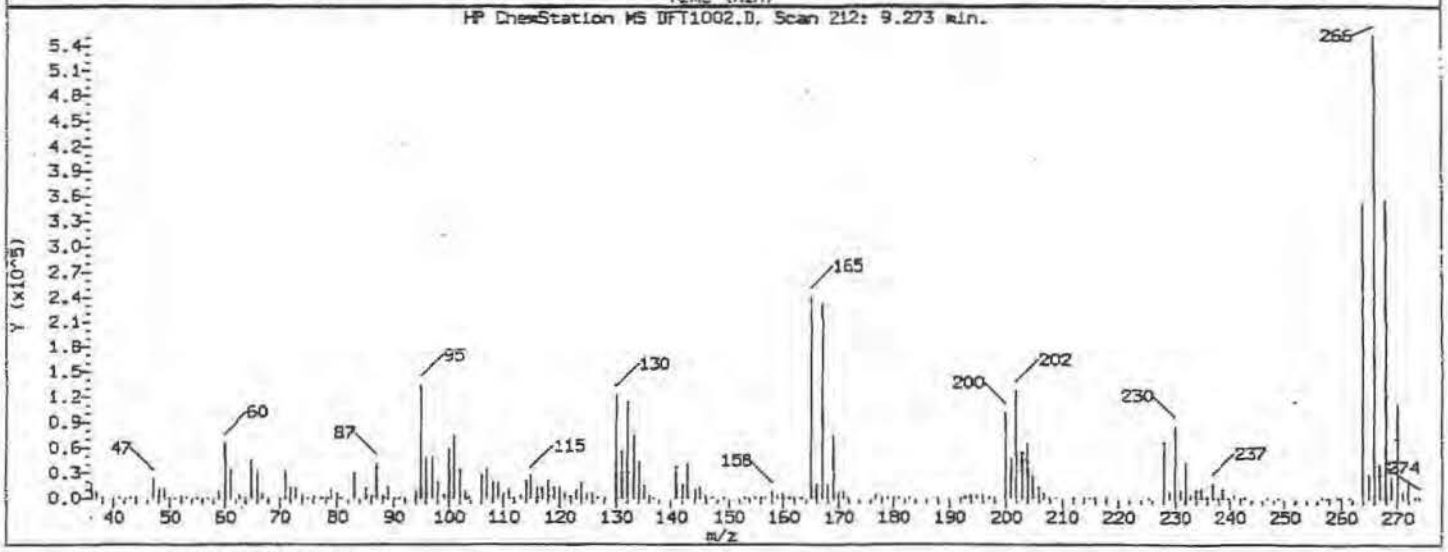
****
*** PASSED ***
****

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

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





Pentachlorophenol
==========
Exp. RT = 9.387
Found RT = 9.273

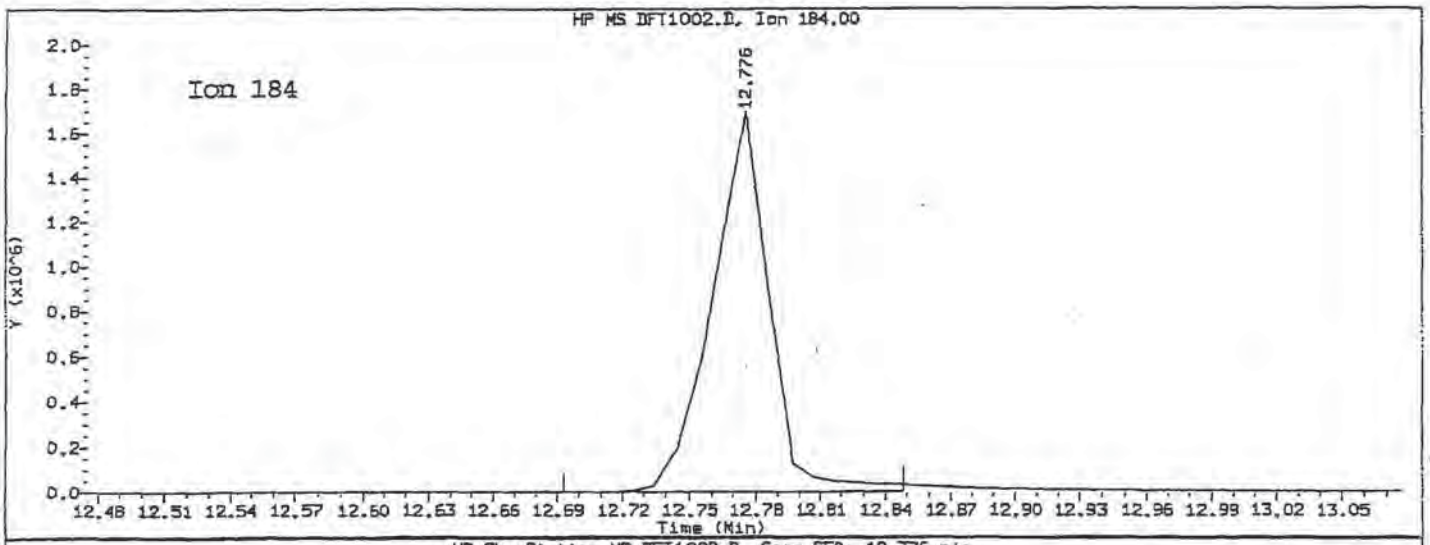
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

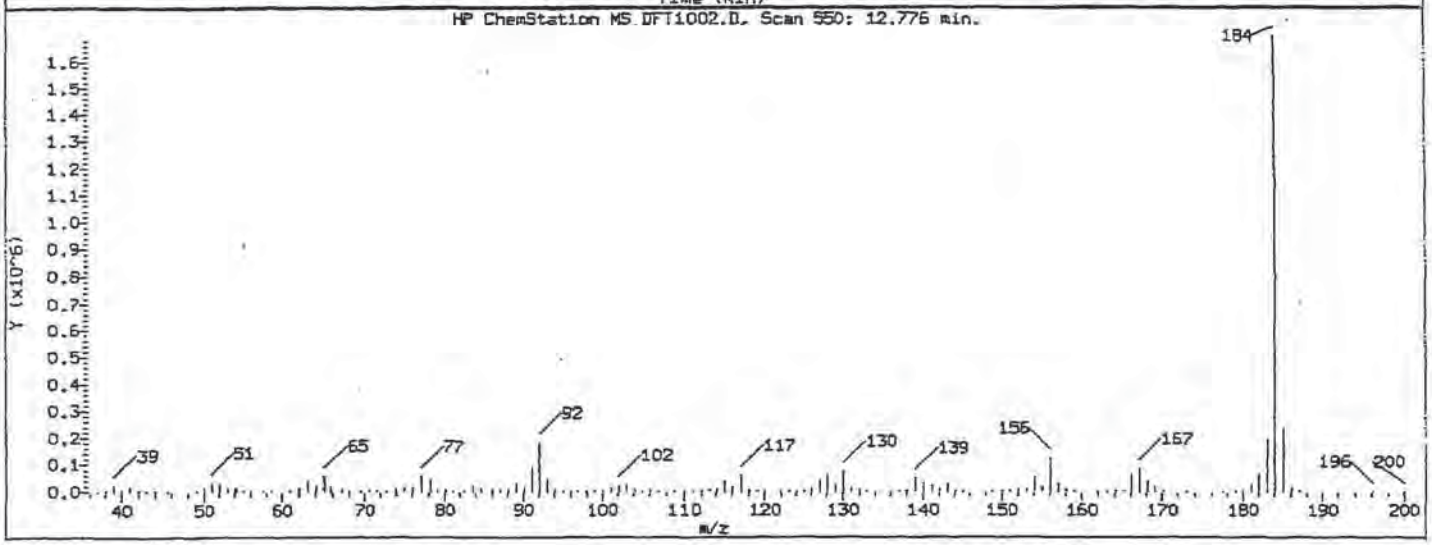
Tailing factor for Pentachlorophenol OK

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

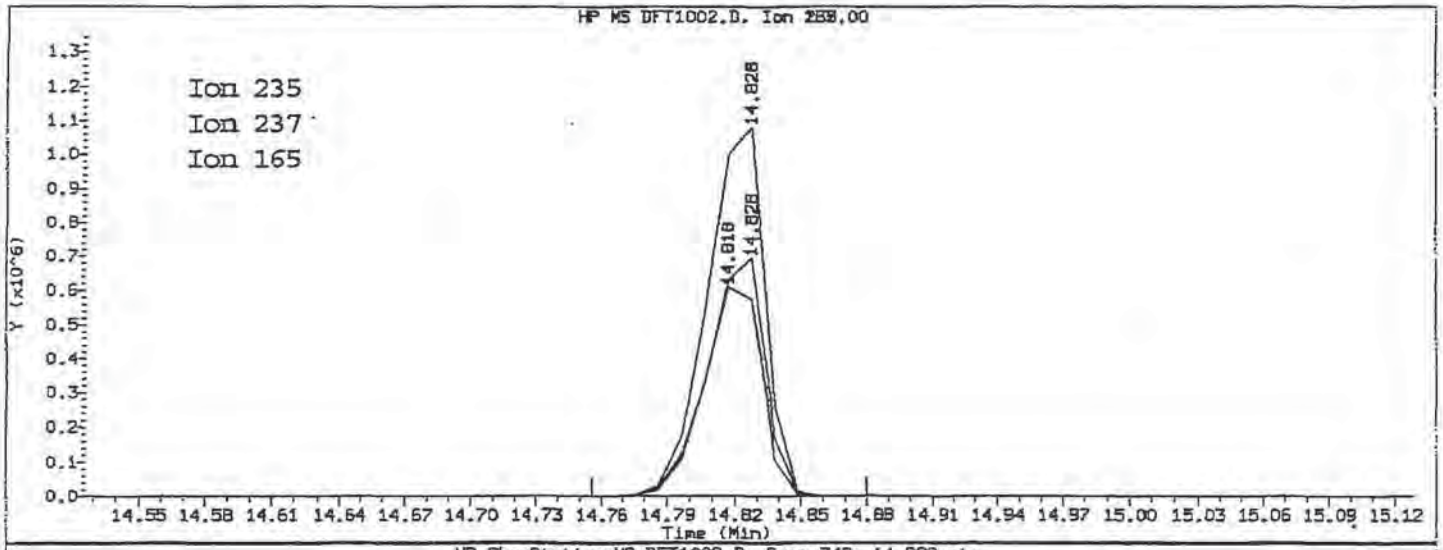
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

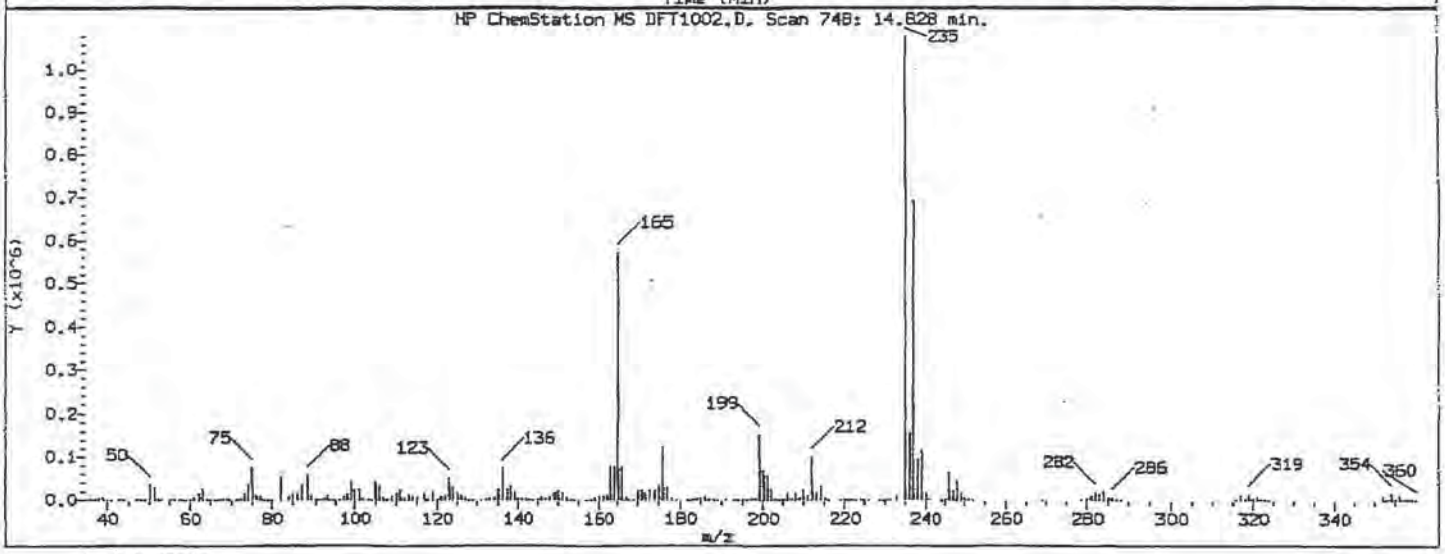
Tailing factor for Benzidine OK

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



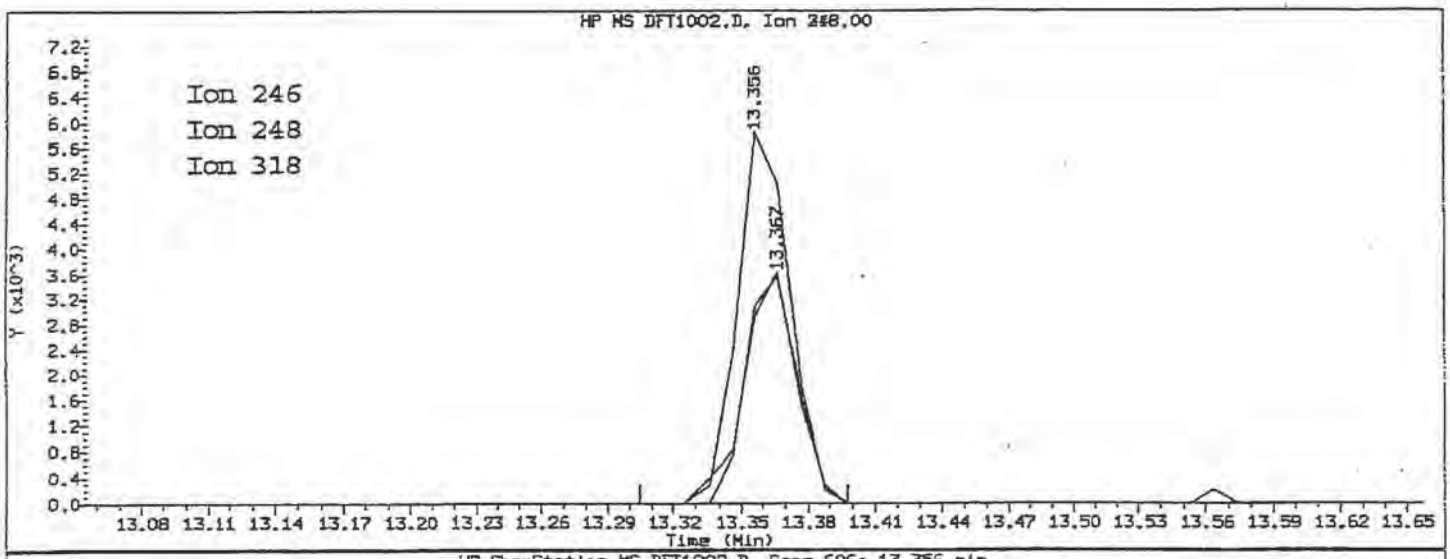


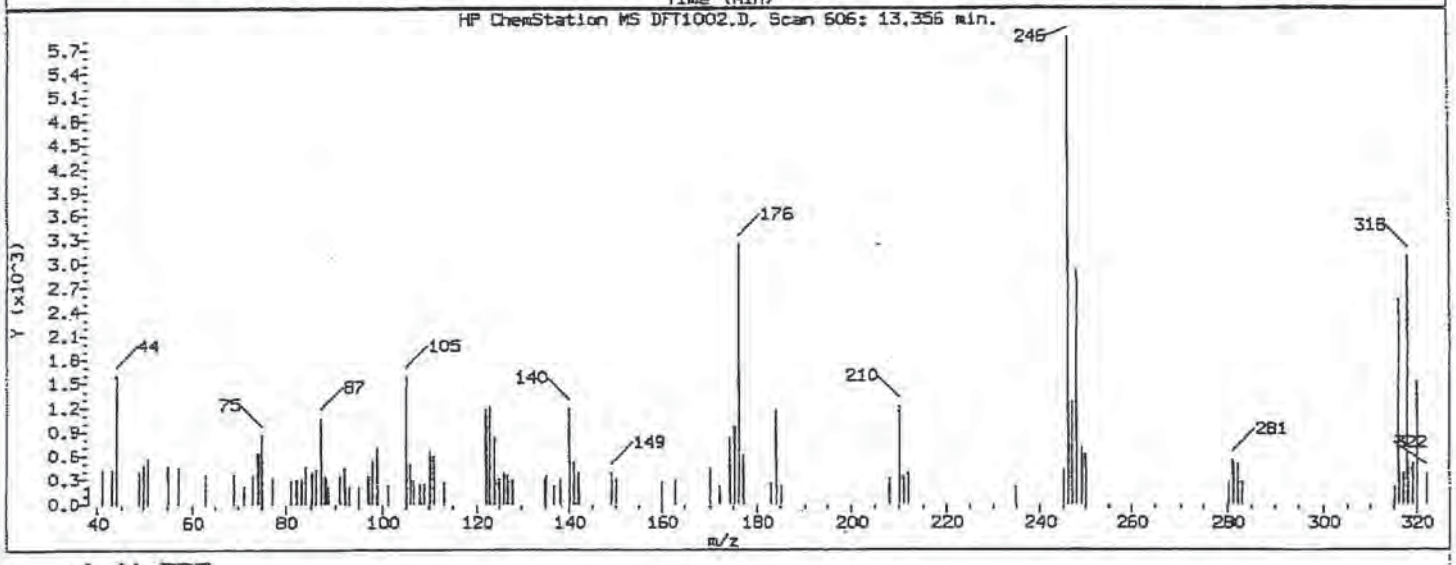
4,4'-DDT
========
Exp. RT = 14.942
Found RT = 14.828

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: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



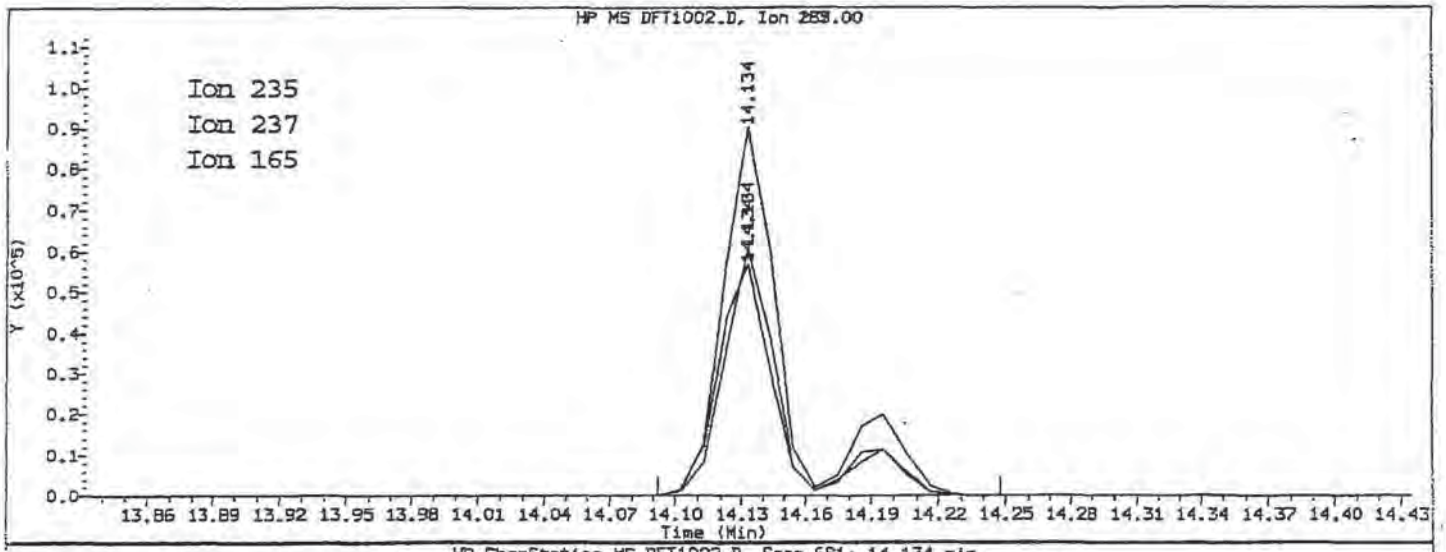


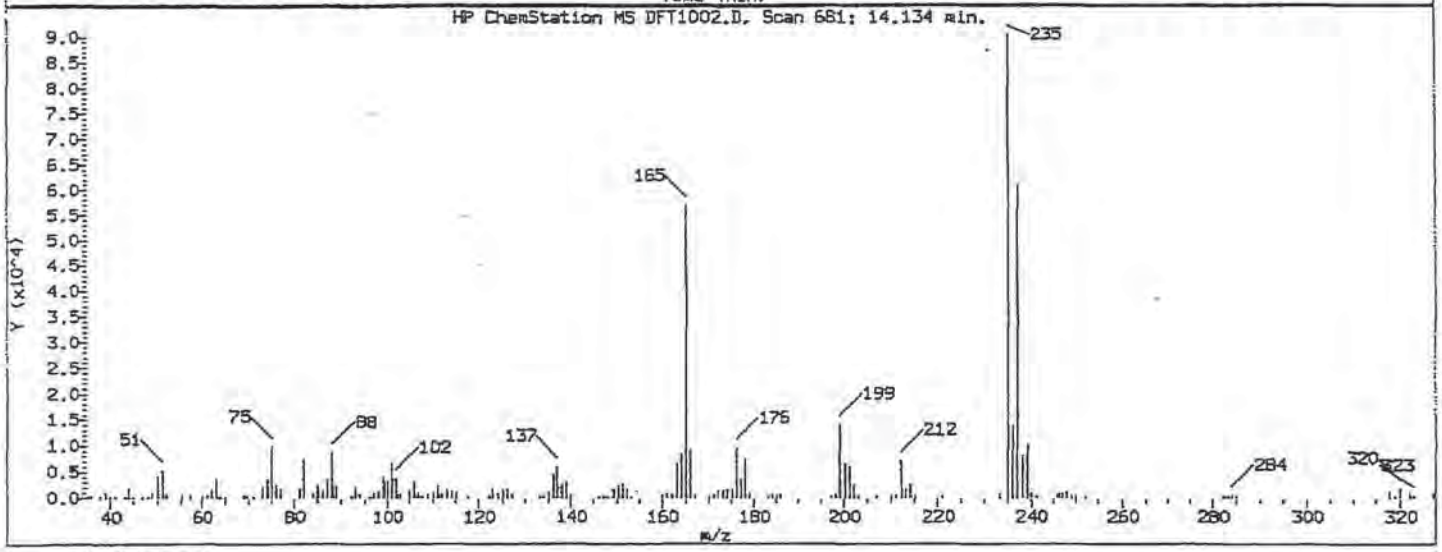
4,4'-DDE
========
Exp. RT = 13.470
Found RT = 13.356

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

Report Date: 10/03/2010 11:04

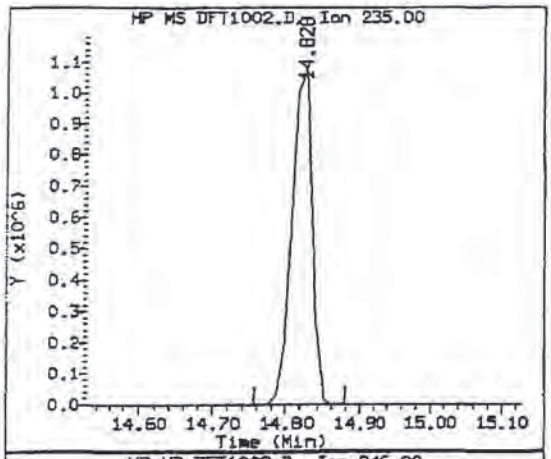
Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



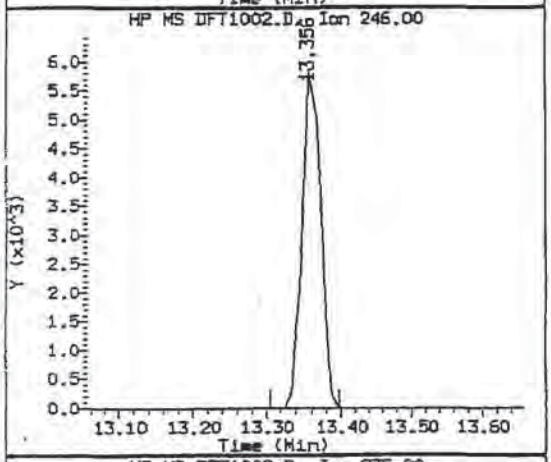


4,4'-DDD
========
Exp. RT = 14.248
Found RT = 14.134

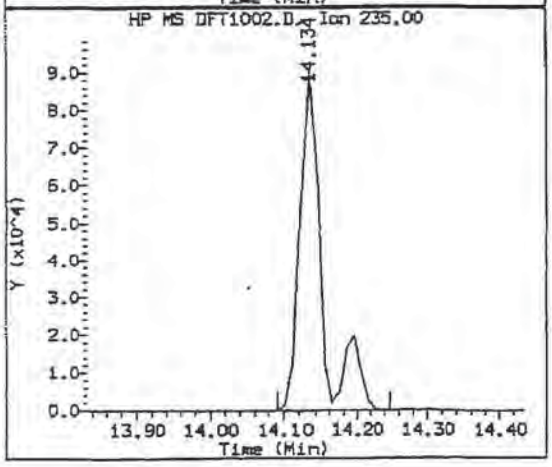
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



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

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
0.000	11.201	(0.000)	198	746688			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

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

Page 2

Date : 02-OCT-2010 12:06

Client ID:

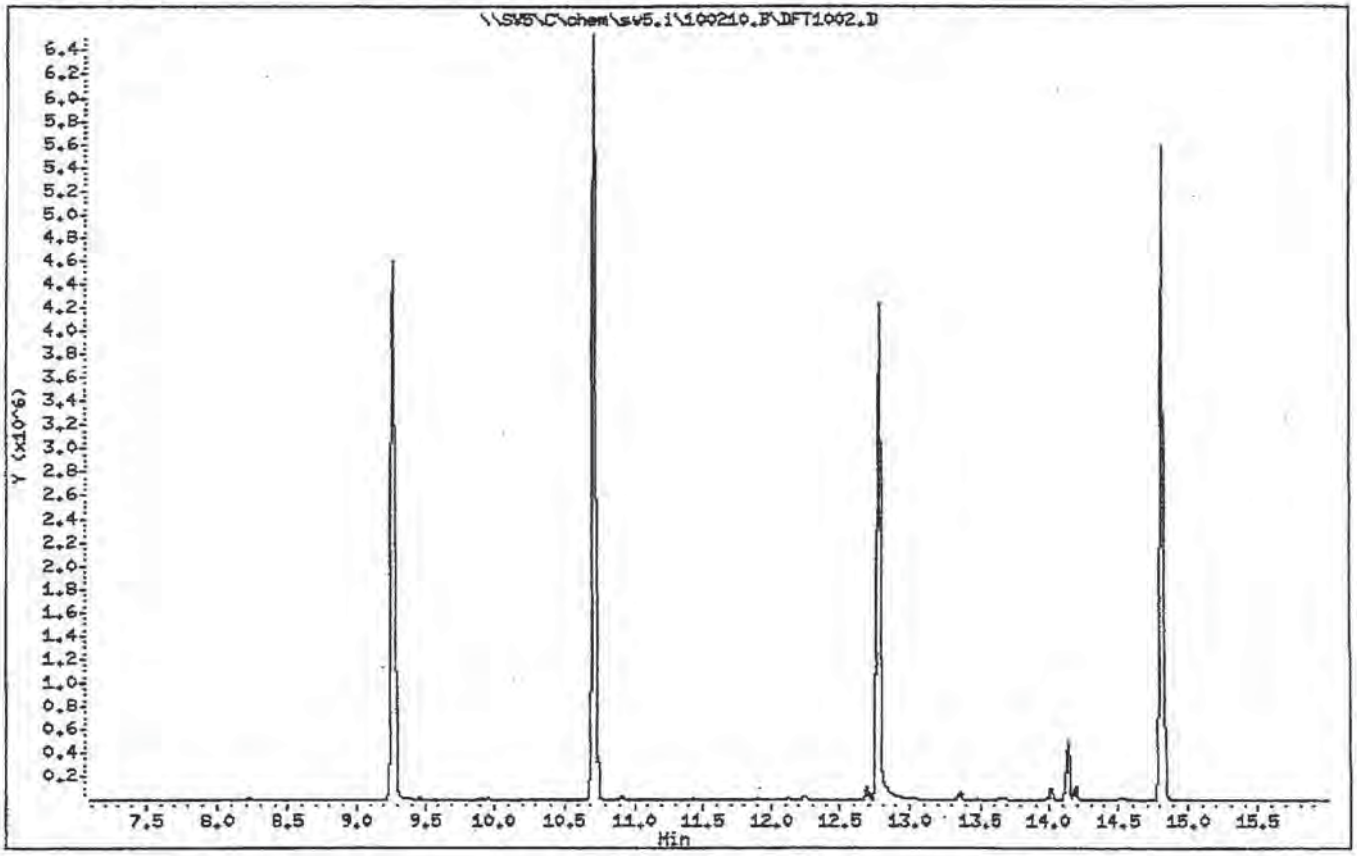
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

Page 3

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

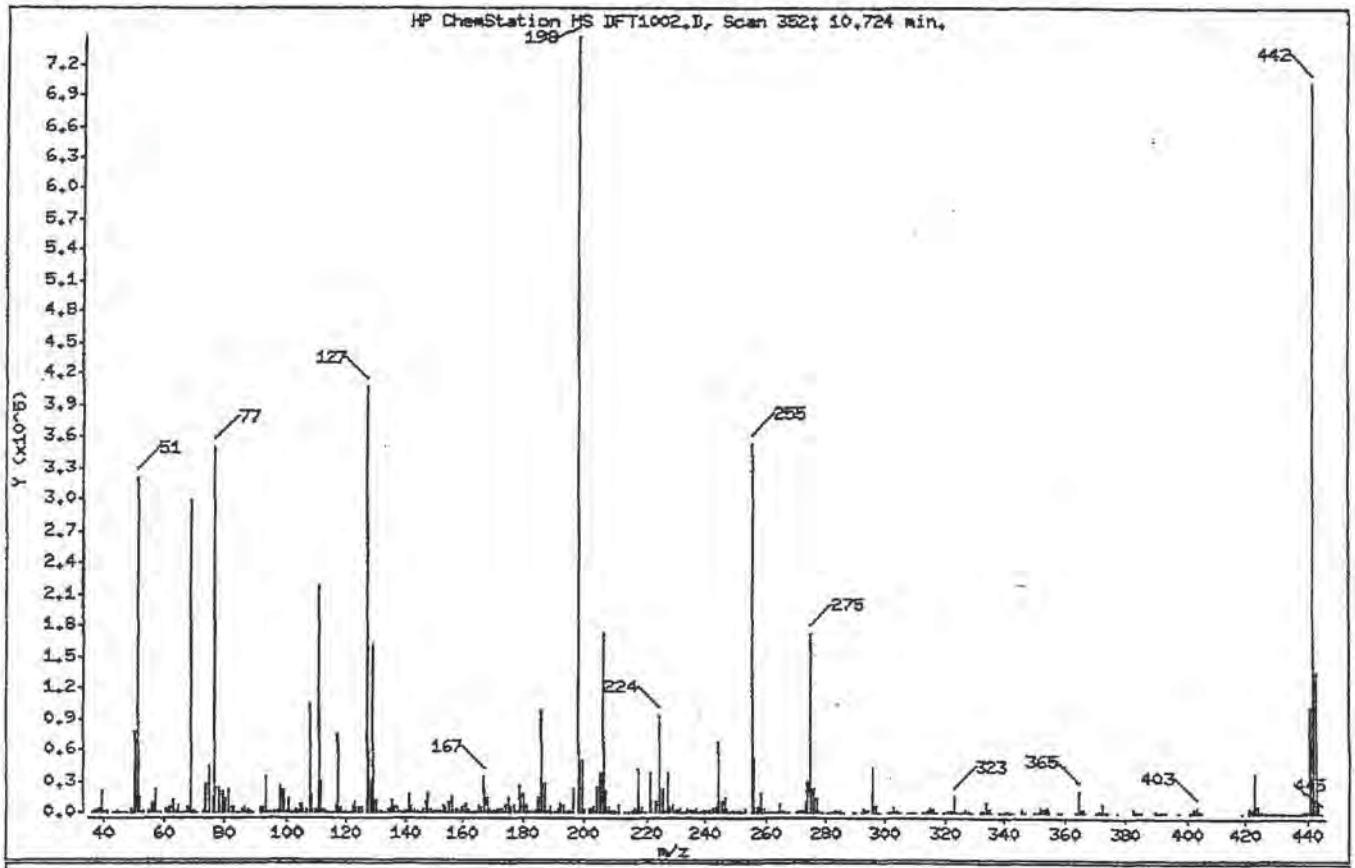
Sample Info: DFTPP 50ug/ml:

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 - 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)

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

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
36.10	203	130.00	12809	219.20	447	321.00	1763
37.10	1216	131.00	2287	221.00	37608	322.10	913
38.10	3314	132.00	1225	223.10	9674	323.10	16294
39.10	21392	133.00	620	224.10	93432	324.10	2245
40.00	1076	134.00	3794	225.10	21544	324.80	382
41.10	949	135.10	11378	226.10	1736	326.00	507
43.10	352	136.00	4886	227.00	37976	327.00	2789
44.00	922	137.00	5203	228.00	4945	328.00	1262
45.00	428	138.00	1265	229.00	7548	329.10	343
47.00	204	139.00	791	230.00	1024	331.90	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	581	342.10	852
58.00	755	148.00	18744	239.00	1185	343.20	220
59.10	372	149.00	4031	240.00	1065	346.00	2819
61.00	3888	150.10	1094	241.00	1870	346.90	608
62.00	4800	151.20	2277	242.00	3682	350.30	205
63.10	11199	152.10	1506	243.10	4924	351.00	283
64.10	1448	153.00	6113	244.10	66438	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

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

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

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	349952	165.00	6962	257.00	4474	372.10	8489
78.10	23464	166.00	5717	258.00	19504	373.10	1814
79.00	20048	167.00	33648	259.10	3095	373.80	348
80.00	14146	168.00	13682	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	814	172.00	3224	264.10	532	390.00	1367
85.00	3848	173.00	4109	265.00	7904	391.00	754
86.00	5985	174.00	7189	266.00	1181	392.10	664
87.00	2652	175.10	13638	267.20	204	393.20	281
88.00	1078	176.10	4293	267.60	232	397.00	230
89.00	472	177.00	6577	270.00	489	400.90	335
91.00	5074	178.10	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	2326	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	1321	292.10	763	432.20	298
109.00	3545	196.00	22448	293.00	3141	432.50	326
110.00	218112	198.00	746628	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

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

Page 6

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	38288	303.10	5810	436.90	846
117.00	75520	206.10	172352	304.00	2035	437.50	828
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	100984
121.00	807	210.00	2002	310.00	839	442.00	702528
122.00	6408	211.10	7473	312.20	271	443.00	136064
123.00	10302	213.00	410	312.90	292	444.00	12344
124.00	4600	214.10	372	314.00	2431	445.10	689
125.00	4447	215.10	1837	315.00	5363		
127.00	406528	216.00	3226	316.00	2900		
128.00	28392	217.00	41648	317.10	363		
129.00	161024	218.00	5388	319.80	287		

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
Report Date: 03-Oct-2010 11:20

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i
Lab File ID: HSL1002H.D
Analysis Type:
Lab Sample ID: HSL_050 ug/ml ICV Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

Injection Date: 02-OCT-2010 16:11
Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Init. Cal. Times: 17:32 15:00

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.40992	1.41047	1.41047	0.010	0.03876	50.00000	Averaged
$ 8 Phenol-d5	1.77296	1.74907	1.74907	0.010	-1.34746	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.55698	1.55303	1.55303	0.010	-0.25385	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98513	0.98502	0.98502	0.010	-0.01093	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.33879	0.32706	0.32706	0.010	-3.46219	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.28852	1.25302	1.25302	0.010	-2.75502	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.17381	0.17822	0.17822	0.010	2.53174	50.00000	Averaged
$ 14 Terphenyl-d14	0.78789	0.74054	0.74054	0.010	-6.00962	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.91645	0.91645	0.010	-0.55265	50.00000	Averaged
16 Pyridine	1.54111	1.49084	1.49084	0.010	-3.26208	50.00000	Averaged
23 Aniline	2.25673	1.90520	1.90520	0.010	-15.57680	50.00000	Averaged
24 Phenol	2.03729	2.01343	2.01343	0.010	-1.17106	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.41690	1.41690	0.010	-0.81844	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.57626	1.57626	0.010	0.79611	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.74104	1.74104	0.010	2.21094	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.77637	1.77637	0.010	-0.26978	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.07153	1.07153	0.010	1.95228	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.64144	1.64144	0.010	0.24267	50.00000	Averaged
32 2-Methylphenol	1.43012	1.41817	1.41817	0.010	-0.83592	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.14153	2.14153	0.010	-5.81096	50.00000	Averaged
34 4-Methylphenol	1.51904	1.42403	1.42403	0.010	-6.25452	50.00000	Averaged
36 Hexachloroethane	0.60636	0.62081	0.62081	0.010	2.38271	50.00000	Averaged
37 N-Nitrosodinpropylamine	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-Dimethyphenol	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	-3.01217	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.40664	0.40664	0.010	-6.06033	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.14742	0.14742	0.010	2.99976	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30154	0.29442	0.29442	0.010	-2.39317	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.71003	0.71003	0.010	2.34296	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.32228	0.32228	0.050	7.98199	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.32462	0.32462	0.010	1.71977	20.00000	Averaged
70 2,4,5-Trichlorphenol	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

10/3/10

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	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	0.39633	0.40639	0.40639	0.010	2.53669	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	0.78660	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	1.38442	1.39149	1.39149	0.010	0.51078	50.00000	Averaged
126 Fluoranthene	1.12969	1.19302	1.19302	0.010	5.60642	20.00000	Averaged
127 Benzidine	0.81067	0.30175	0.30175	0.010	-62.77740	50.00000	Averaged See RI
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 <- See RI
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 10/3/10
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	-0.05663	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 162 benzo b,k Fluoranthene Tota	2.06785	2.12673	2.12673	0.010	2.84748	50.00000	Averaged

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

MS SemiVoa ICAL Checklist (AP9 Mix, Method 8270C)

Instrument: SV5

Injection Date: 08/17/10

Initiator/Date: KT-08/18/10

Reviewer/Date: [illegible] 8/18/10

DFTPP Mix ID: 10MSSV0068

STD Mix IDs: 10MSSV0321-0327

2nd Source Mix ID: 10MSSV0335-0336

NCM _____

I: Criteria

	Initiated	Reviewed
Tailing and degradation criteria are met.	☒	☒
The Tune Documentation is present and meets criteria	☒	☒
All Internal Standards within 50-200% of ICAL mid-point.	☒	☒
Calibration History Included.	☒	☒
Manual re-integrations are checked/initialed and hardcopies included.	☒	☒
Standards analyzed with within 12 hours of Tune time.	☒	☒
Retention time correct for Isomers and all other analytes.	☒	☒
Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)	☒	☒

II: Compounds Over 15% RSD *(Write compound and %RSD)*

None.

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

Methyl methanesulfonate=-23.6%, Kepone-22.7%

IV: Additional Remarks

1,3,5-Trinitrobenzene, 2-sec-Butyl-4,6-dinitrophenol, 4-Nitroquinoline-1-oxide, Kepone and Famphu UCL=120ug.
Aramite (Total) LCL=20ug

\\SACP104\BRIGHTSIDE\BRIGHTSIDE\8270KEITH\CURVES\8270 COVER PAGES\HSL\SV5_AP9_ICAL_081710.DOC QA-512 ERS 1/2/08

TestAmerica West Sacramento Page# 20

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 : 081710.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
17-AUG-2010	15:46	KT	QC	QC001.D	NA	NA	NA		
17-AUG-2010	16:12	KT	QC	QC002.D	NA	NA	NA		
17-AUG-2010	16:38	KT	QC	QC003.D	NA	NA	NA		
17-AUG-2010	17:11	KT	DFTPP 50ug/ml	DFT0817.D	NA	NA	NA		
17-AUG-2010	17:32	KT	HSL_050 ug/ml CS-4	HSL0817D.	NA	NA	NA		
17-AUG-2010	17:58	KT	HSL_005 ug/ml CS-1	HSL0817A.	NA	NA	NA		
17-AUG-2010	18:23	KT	HSL_010 ug/ml CS-2	HSL0817B.	NA	NA	NA		
17-AUG-2010	18:49	KT	HSL_020 ug/ml CS-3	HSL0817C.	NA	NA	NA		
17-AUG-2010	19:15	KT	HSL_080 ug/ml CS-5	HSL0817E.	NA	NA	NA		
17-AUG-2010	19:41	KT	HSL_120 ug/ml CS-6	HSL0817F.	NA	NA	NA		
17-AUG-2010	20:08	KT	HSL_160 ug/ml CS-7	HSL0817G.	NA	NA	NA		
17-AUG-2010	20:34	KT	HSL_050 ug/ml ICV	HSL0817H.	NA	NA	NA		
17-AUG-2010	21:19	KT	AP9_050 ug/ml CS-4	AP90817D.	NA	NA	NA		
17-AUG-2010	21:45	KT	AP9_005 ug/ml CS-1	AP90817A.	NA	NA	NA		
17-AUG-2010	22:11	KT	AP9_010 ug/ml CS-2	AP90817B.	NA	NA	NA		
17-AUG-2010	22:37	KT	AP9_020 ug/ml CS-3	AP90817C.	NA	NA	NA		
17-AUG-2010	23:03	KT	AP9_080 ug/ml CS-5	AP90817E.	NA	NA	NA		
17-AUG-2010	23:29	KT	AP9_120 ug/ml CS-6	AP90817F.	NA	NA	NA		
17-AUG-2010	23:55	KT	AP9_160 ug/ml CS-7	AP90817G.	NA	NA	NA		
18-AUG-2010	00:21	KT	AP9_050 ug/ml ICV	AP90817H.	NA	NA	NA		
18-AUG-2010	00:47	KT	AP9_050 ug/ml ARAMITE ICV	AP90817J.	NA	NA	NA		
18-AUG-2010	01:11	KT	DFTPP 50ug/ml	DFT0817A.	NA	NA	NA		
18-AUG-2010	01:32	KT	HSL_050 ug/ml CS-4	HSL0817.D	NA	NA	NA		
18-AUG-2010	01:58	KT	AP9_050 ug/ml CS-4	AP90817.D	NA	NA	NA		
18-AUG-2010	02:24	KT	L49ET1AA G0H060000-399B	S081701.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	02:50	KT	L49ET1AC G0H060000-399C	S081702.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	03:16	KT	L49ET1AD G0H060000-399L	S081703.D	1000 Sa	1 mL	1	JZ	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
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Quant Method : ISTD
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Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 18-Aug-2010 14:39 sv5.i

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

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
17 2-Picoline	1.71577	1.54858	1.65613	1.59787	1.60690	1.82860					
	1.72445						AVRG		1.66833		5.70291
18 n-Nitrosomethylethylamine	0.78914	0.67869	0.74839	0.74055	0.76823	0.78911					
	0.77595						AVRG		0.75572		5.12909
19 Methyl methanesulfonate	0.58791	0.64421	0.63829	0.62820	0.62670	0.67553					
	0.65647						AVRG		0.63676		4.30559
21 n-Nitrosodiethylamine	0.70698	0.70661	0.77489	0.79916	0.82397	0.82822					
	0.81932						AVRG		0.77988		6.80827

Manual calculation for a-,a-Dimethylphenethylamine @ Level 2:

$\frac{110159}{474451} \times \frac{40}{10} = 1.01424$ KY 8/19/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 18-Aug-2010 14:39 sv5.i

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
22 Ethyl methanesulfonate	1.09949	1.02612	1.12026	1.10205	1.12018	1.14655					
	1.14207						AVRG		1.10810		3.63944
20 Benzaldehyde	1.26800	1.24704	1.35148	1.30355	1.30998	1.34277					
	1.30640						AVRG		1.30417		2.85860
25 Pentachloroethane	0.51320	0.49668	0.53228	0.51017	0.51782	0.54271					
	0.53175						AVRG		0.52066		3.02979
35 Acetophenone	0.44447	0.45078	0.48667	0.46708	0.46889	0.46503					
	0.47781						AVRG		0.46582		3.12615
38 n-Nitrosopyrrolidine	0.81043	0.78134	0.84101	0.85721	0.87264	0.90775					
	0.86814						AVRG		0.84836		4.94741
39 3-Methylphenol	1.45766	1.37015	1.55012	1.55393	1.60822	1.65062					
	1.64670						AVRG		1.54820		6.65675
40 o-Toluidine	2.44397	2.44634	2.53001	2.58045	2.63206	2.67297					
	2.60096						AVRG		2.55811		3.47100

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
41 n-Nitrosomorpholine	1.14444	1.12820	1.16399	1.16253	1.19767	1.20986					
	1.18920						AVRG		1.17084		2.51696
43 N-Nitrosopiperidine	0.24684	0.23963	0.26279	0.27190	0.26971	0.27184					
	0.27351						AVRG		0.26232		5.20170
48 o,o,o-TEPT	0.13210	0.13253	0.13719	0.14402	0.14536	0.14157					
	0.14768						AVRG		0.14007		4.44480
53 a-,a-Dimethylphenethylamine	1.00454	1.01424	1.11451	1.18029	1.18471	1.20565					
	1.24433						AVRG		1.13547		8.31523
56 Hexachloropropene	0.12532	0.11624	0.13691	0.13782	0.14152	0.14660					
	0.15480						AVRG		0.13703		9.40950
58 p-Phenylenediamine	0.39773	0.41166	0.45848	0.49856	0.49491	0.50120					
	0.50979						AVRG		0.46748		9.84459
59 N-Nitroso-di-n-butylamine	0.21444	0.20727	0.22883	0.25062	0.24537	0.24675					
	0.25448						AVRG		0.23539		7.94304

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Last Edit : 18-Aug-2010 14:39 sv5.i

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 2,6-Dichlorophenol	0.24709	0.22506	0.25177	0.25546	0.25679	0.26308					
	0.26499						AVRG		0.25204		5.31494
61 Safrole	0.20835	0.22725	0.25444	0.26741	0.26287	0.26320					
	0.26556						AVRG		0.24987		9.18006
65 1-Methylnaphthalene	0.65074	0.66198	0.69825	0.70116	0.71492	0.70359					
	0.71067						AVRG		0.69162		3.60679
67 1,2,4,5-Tetrachlorobenzene	0.42147	0.42480	0.43091	0.41833	0.42047	0.40684					
	0.42116						AVRG		0.42057		1.73521
68 Isosafrole#1	0.09722	0.07815	0.08393	0.08577	0.08520	0.08346					
	0.08868						AVRG		0.08606		6.81062
72 Isosafrole#2	0.45689	0.46608	0.45744	0.48268	0.49305	0.47369					
	0.51415						AVRG		0.47771		4.34352
64 1-Chloronaphthalene	1.03055	1.13065	1.12118	1.08461	1.08672	1.05848					
	1.10532						AVRG		1.08822		3.22822

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
62 Biphenyl	1.57618	1.55603	1.64111	1.59003	1.59480	1.55136					
	1.63685						AVRG		1.59234		2.23935
74 1,4-Naphthoquinone	0.38503	0.40185	0.44389	0.47545	0.46156	0.45525					
	0.48114						AVRG		0.44345		8.26246
75 1,3-Dinitrobenzene	3390	5677	14097	59791	77108	161379					
	238416						QUAD	0.05629	7.06847	-2.51650	0.99932
78 1,4-Dinitrobenzene	3449	6192	18821	77774	103967	198326					
	278281						QUAD	0.08225	5.05830	-0.74697	0.99969
160 1,2-Dinitrobenzene	3309	5705	14822	60230	71418	139932					
	200992						QUAD	0.02727	7.44980	-1.96213	0.99816
85 Pentachlorobenzene	0.39394	0.39686	0.39693	0.38513	0.38750	0.37608					
	0.39924						AVRG		0.39081		2.12063
87 1-Naphthylamine	1.24749	1.27769	1.35787	1.43749	1.35876	1.42518					
	1.49730						AVRG		1.37168		6.49258

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Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
88 2,3,4,6-Tetrachlorophenol	0.19424	0.22570	0.24847	0.25796	0.25181	0.26383					
	0.26768						AVRG		0.24424		10.62462
89 2-Naphthylamine	1.30236	1.32467	1.44671	1.49008	1.47668	1.47000					
	1.53785						AVRG		1.43548		6.13118
90 2,3,5,6-Tetrachlorophenol	0.18849	0.19947	0.21856	0.24343	0.23531	0.25202					
	0.26427						AVRG		0.22879		12.15940
95 5-Nitro-o-toluidine	7907	15826	40029	155840	207752	394711					
	559816						LINR	0.12476	0.45138		0.99723
96 Thionazin	0.24146	0.23943	0.25721	0.29867	0.29327	0.30548					
	0.32351						AVRG		0.27986		11.95587
99 Diphenylamine	0.60427	0.63588	0.66698	0.69832	0.70819	0.70008					
	0.70362						AVRG		0.67390		5.96122
102 Sulfotepp	0.10576	0.11463	0.12123	0.13530	0.13507	0.13806					
	0.14028						AVRG		0.12719		10.49695

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Last Edit : 18-Aug-2010 14:39 sv5.i

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
103 Diallate 1	0.30881	0.31985	0.33927	0.36372	0.36321	0.35664					
	0.36330						AVRG		0.34497		6.61785
104 1,3,5-Trinitrobenzene	1002	1305	4571	19870	27095	64359					
	+++++						QUAD	0.08453	34.59282	-92.93533	0.99896
105 Phorate	0.55350	0.56976	0.65630	0.76057	0.72701	0.79150					
	0.75621						AVRG		0.68784		13.94826
106 Diallate 2	0.06500	0.06396	0.06249	0.07007	0.06993	0.06934					
	0.07029						AVRG		0.06730		4.97571
107 Phenacetin	14450	28194	72937	265580	339352	666286					
	913620						LINR	0.08857	0.45565		0.99922
109 Dimethoate	0.23576	0.24489	0.26688	0.31188	0.30923	0.29972					
	0.29813						AVRG		0.28093		11.20454
111 4-Aminobiphenyl	0.74458	0.76217	0.83651	0.90959	0.90032	0.89199					
	0.90590						AVRG		0.85015		8.31490

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Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 18-Aug-2010 14:39 sv5.i

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
112 Pentachloronitrobenzene	0.02908	0.02931	0.03463	0.03857	0.03847	0.03821					
	0.03890						AVRG		0.03531		12.51835
113 Pronamide	0.25111	0.25839	0.29710	0.33657	0.33646	0.34613					
	0.34396						AVRG		0.30996		13.27822
116 Disulfoton	0.36018	0.37055	0.41742	0.46903	0.47383	0.48773					
	0.49042						AVRG		0.43845		12.66256
117 2-sec-Butyl-4,6-dinitrophenol	2968	5980	15520	79994	104803	227932					
	+++++						QUAD	0.10673	8.36881	-4.45346	0.99822
119 Methyl Parathion	6189	13273	36263	172082	217968	406124					
	546638						LINR	0.10316	1.08824		0.99726
122 4-Nitroquinoline-1-oxide	1505	2632	8450	47731	61159	151391					
	+++++						QUAD	0.12247	14.63356	-16.93016	0.99684
123 Parathion	3986	7605	25279	109077	135310	279118					
	380290						QUAD	0.11082	5.65356	-0.64713	0.99868

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Last Edit : 18-Aug-2010 14:39 sv5.i

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
124 Methapyrilene	0.47255	0.52025	0.58419	0.69564	0.67587	0.64882					
	0.57165						AVRG		0.59557		13.84722
125 Isodrin	0.11413	0.11544	0.13388	0.12857	0.13309	0.12620					
	0.13721						AVRG		0.12693		7.12760
129 Aramite#1	0.03296	0.03041	0.03678	0.05431	0.05581	0.05824					
	0.06257						AVRG		0.04730		28.31560
130 Aramite#2	0.04605	0.04806	0.06742	0.08232	0.08453	0.08797					
	0.09322						AVRG		0.07280		26.49548
131 p-Dimthylaminoazobenzene	13120	25911	72518	279382	355032	700077					
	945178						LINR	0.08394	0.50278		0.99895
132 p-Chlorobenzilate	8605	16439	44306	173185	217152	442699					
	603274						LINR	0.11530	0.30302		0.99829
137 2-Acetylaminofluorene	9115	18524	55142	251920	329769	726257					
	999495						QUAD	0.10311	2.31175	-0.22481	0.99973

see total.
8/18/10

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Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 18-Aug-2010 14:39 sv5.i

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
143 Benzo(j)fluoranthene	0.82673	0.79433	0.92321	0.98943	1.04750	1.03526					
	1.04705						AVRG		0.95193		11.17254
146 7,12-Dimethylbenz(a)anthracen	0.45448	0.46291	0.52467	0.53586	0.56414	0.55482					
	0.55995						AVRG		0.52240		8.75188
149 3-Methylcholanthrene	0.44675	0.46186	0.52232	0.56695	0.58420	0.61004					
	0.64678						AVRG		0.54842		13.64657
150 Dibenz(a,j)acridine	23053	45031	114744	427962	535292	1193474					
	1612109						LINR	0.11986	0.89547		0.99741
M 154 Diallate (Total)	0.37381	0.38381	0.40177	0.43379	0.43314	0.42598					
	0.43359						AVRG		0.41227		6.21613
M 155 Isosafrole (Total)	0.55411	0.54423	0.54137	0.56845	0.57825	0.55715					
	0.60282						AVRG		0.56377		3.81652
M 156 Aramite (Total)	+++++	+++++	0.10420	0.13663	0.14035	0.14621					
	0.15580						AVRG		0.13664		14.28796

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INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
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Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 18-Aug-2010 14:39 sv5.i

Compound	5.0000 Level 1 / 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 157 3 and 4-methylphenol	1.45766	1.37015	1.55012	1.55393	1.60822	1.65062					
	1.64670						AVRG		1.54820		6.65675
133 Kepone	0.09629	0.10432	0.10406	0.10125	0.09453	+++++					
	+++++						AVRG		0.10009		4.47848
135 Famphur	0.25866	0.26501	0.29114	0.29531	0.26864	+++++					
	+++++						AVRG		0.27575		5.95134

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INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
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Quant Method : ISTD
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Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 18-Aug-2010 15:18

Calibration History

Method : \\sv5\c\chem\sv5.i\081710.B\8270f.m
Start Cal Date: 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 23:55
Last Cal Level: 7
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
17-AUG-2010 21:45	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817A.D
17-AUG-2010 17:58	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817A.D
Cal Level: 2 , Cal Amount: 10.00000		
17-AUG-2010 22:11	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817B.D
17-AUG-2010 18:23	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817B.D
Cal Level: 3 , Cal Amount: 20.00000		
17-AUG-2010 22:37	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817C.D
17-AUG-2010 18:49	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817C.D
Cal Level: 4 , Cal Amount: 50.00000		
17-AUG-2010 21:19	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817D.D
17-AUG-2010 17:32	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817D.D
Cal Level: 5 , Cal Amount: 80.00000		
17-AUG-2010 23:03	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817E.D
17-AUG-2010 19:15	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817E.D
Cal Level: 6 , Cal Amount: 120.00000		
17-AUG-2010 23:29	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817F.D
17-AUG-2010 19:41	1_8270STD	

```
|\\SV5\C\chem\sv5.i\081710.B\HSL0817F.D                                  |
+------------------+-----------------+---------------------------------+

+------------------+-----------------+---------------------------------+
| Cal Level: 7 , Cal Amount: 160.00000                                  |
+=======================================================================+
|17-AUG-2010 23:55 |2AP9STD          |                                 |
|\\SV5\C\chem\sv5.i\081710.B\AP90817G.D                                 |
|17-AUG-2010 20:08 |1_8270STD        |                                 |
|\\SV5\C\chem\sv5.i\081710.B\HSL0817G.D                                 |
+------------------+-----------------+---------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4
+------------------+-----------------+---------------------------------+
|17-AUG-2010 20:34 |1_8270STD        |                                 |
|\\SV5\C\chem\sv5.i\081710.B\HSL0817H.D                                 |
|17-AUG-2010 17:32 |1_8270STD        |                                 |
|\\SV5\C\chem\sv5.i\081710.B\HSL0817D.D                                 |
|17-AUG-2010 21:19 |2AP9STD          |                                 |
|\\SV5\C\chem\sv5.i\081710.B\AP90817D.D                                 |
+------------------+-----------------+---------------------------------+
```

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.5343026	5.000	PASS
Benzidine	0.5228771	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	203020	7.3	20.5	PASS

Sample //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D

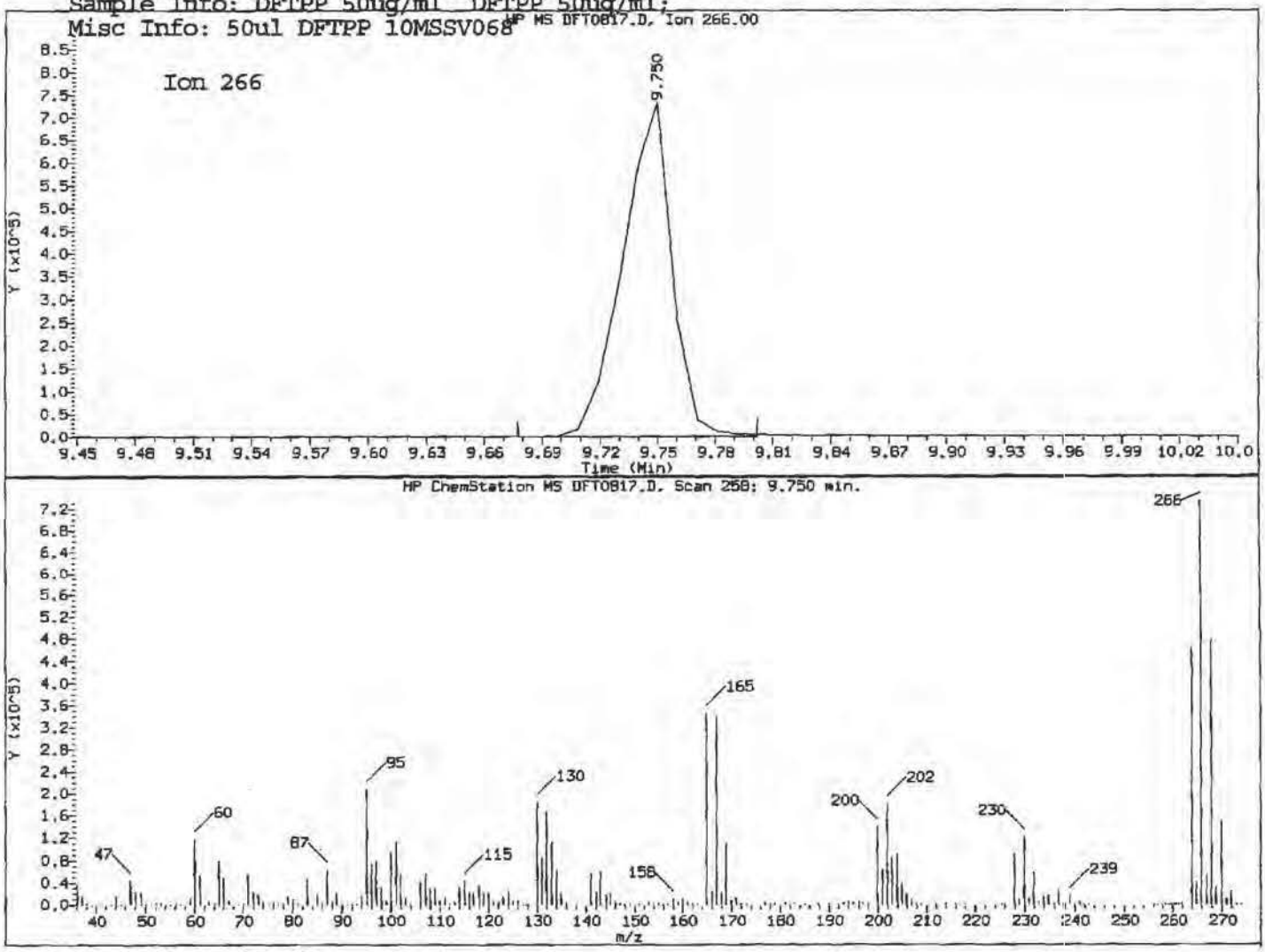
****
*** PASSED ***
****

8/18/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



Pentachlorophenol
==========
Exp. RT = 9.771
Found RT = 9.750

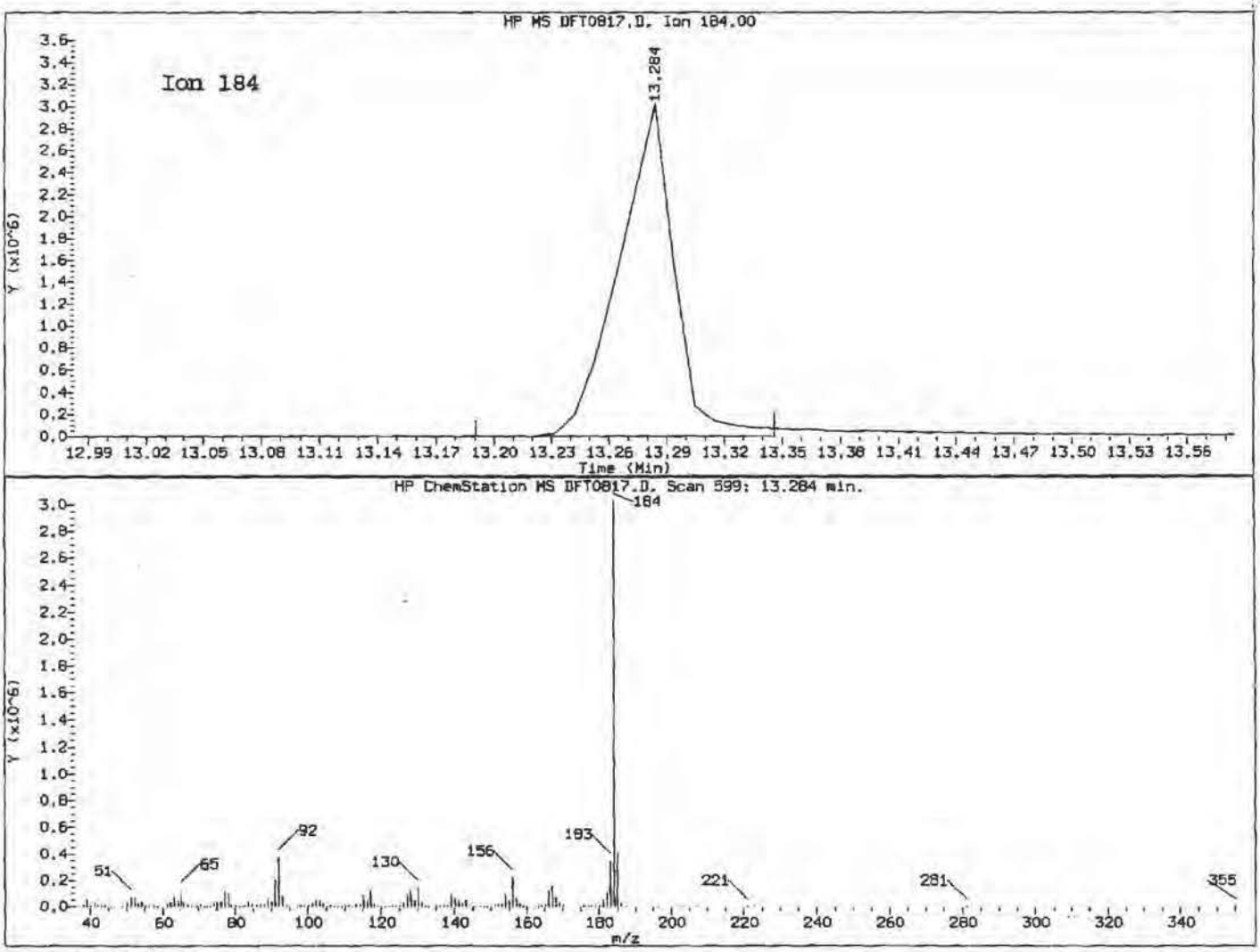
Time1 = 9.714386 Time2 = 9.749983 Time3 = 9.769003
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.534 Maximum Allowed = 5.0

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



Benzidine
=========
Exp. RT = 13.315
Found RT = 13.284

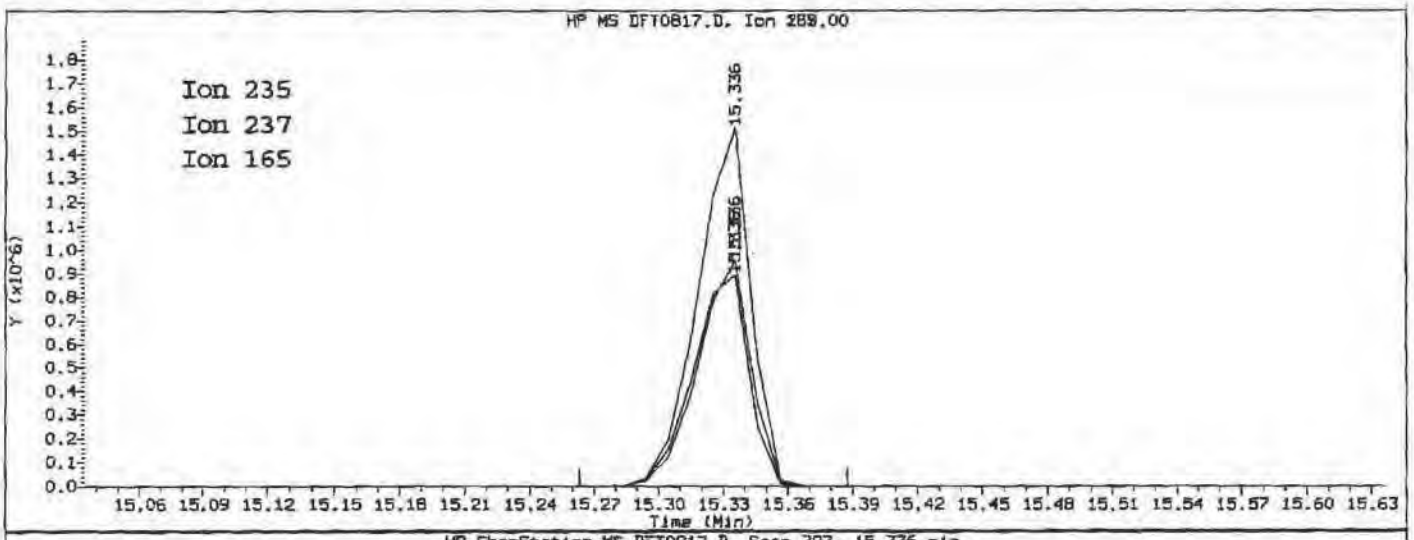
Time1 = 13.24454 Time2 = 13.28377 Time3 = 13.30428
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

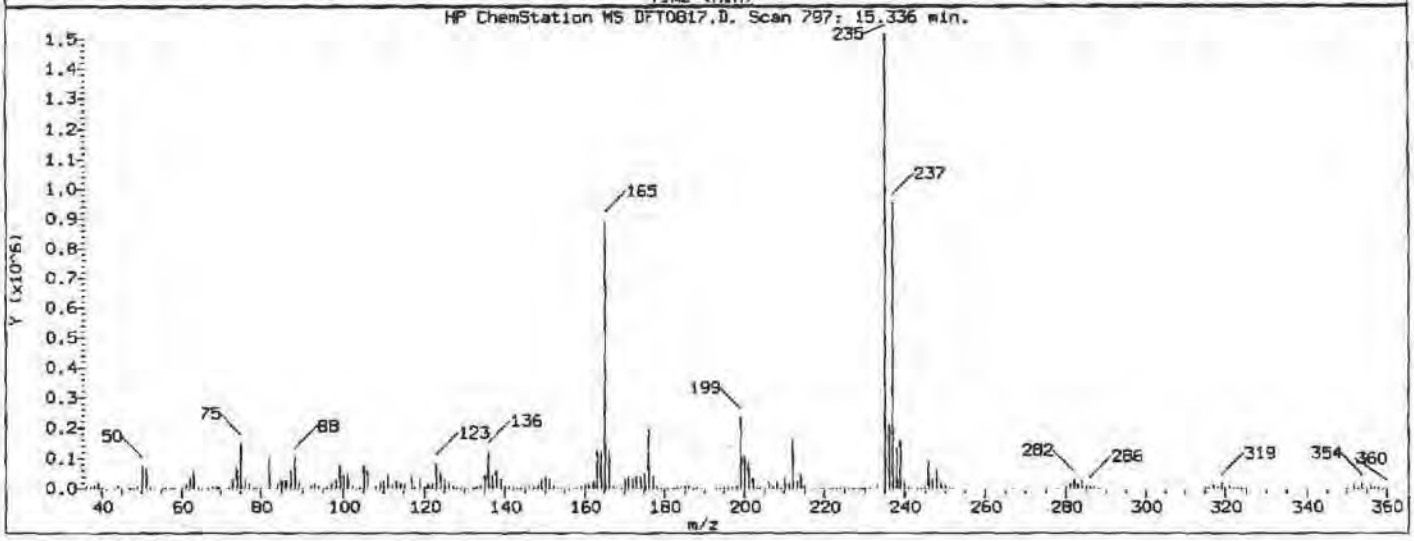
Tailing factor for Benzidine OK

Tail Factor = 0.523 Maximum Allowed = 3.0

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



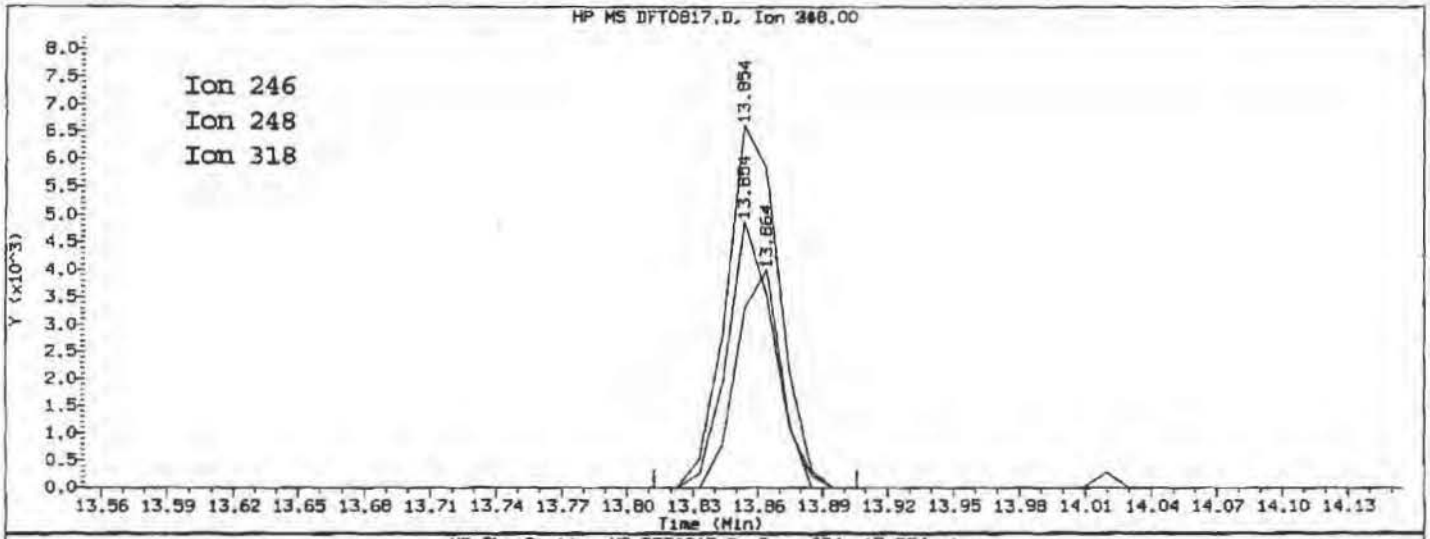


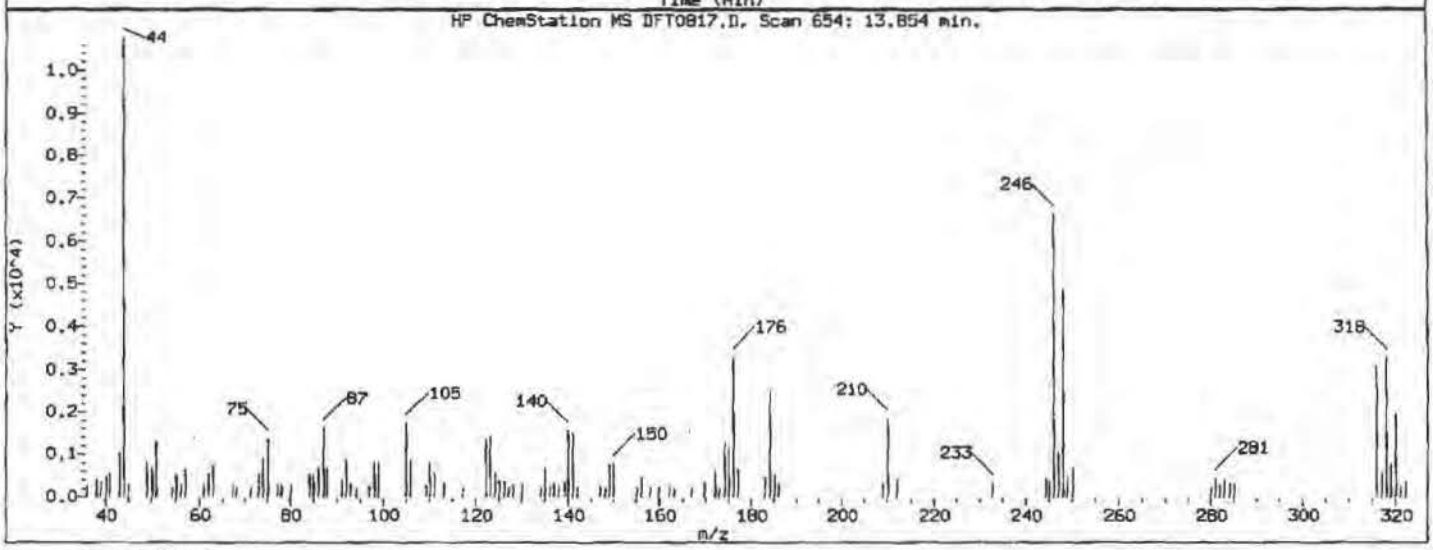
4,4'-DDT
========
Exp. RT = 15.357
Found RT = 15.336

Mass	Area	Ratio
235	2589837	100.00
237	1641475	63.38
165	1612718	62.27

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



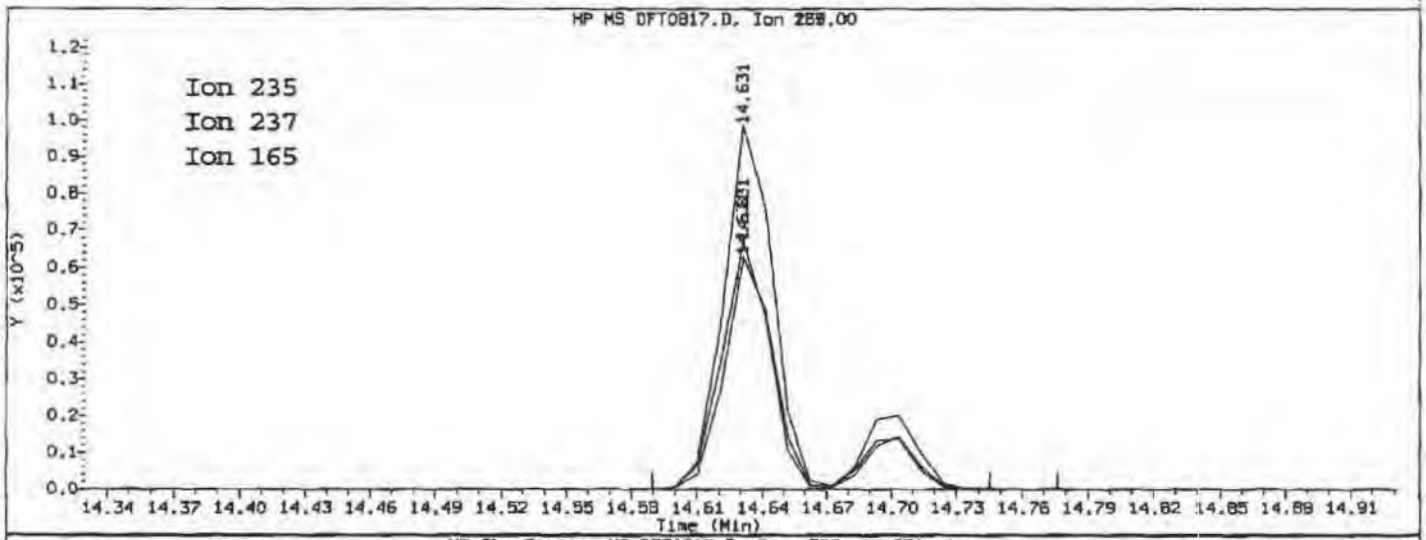


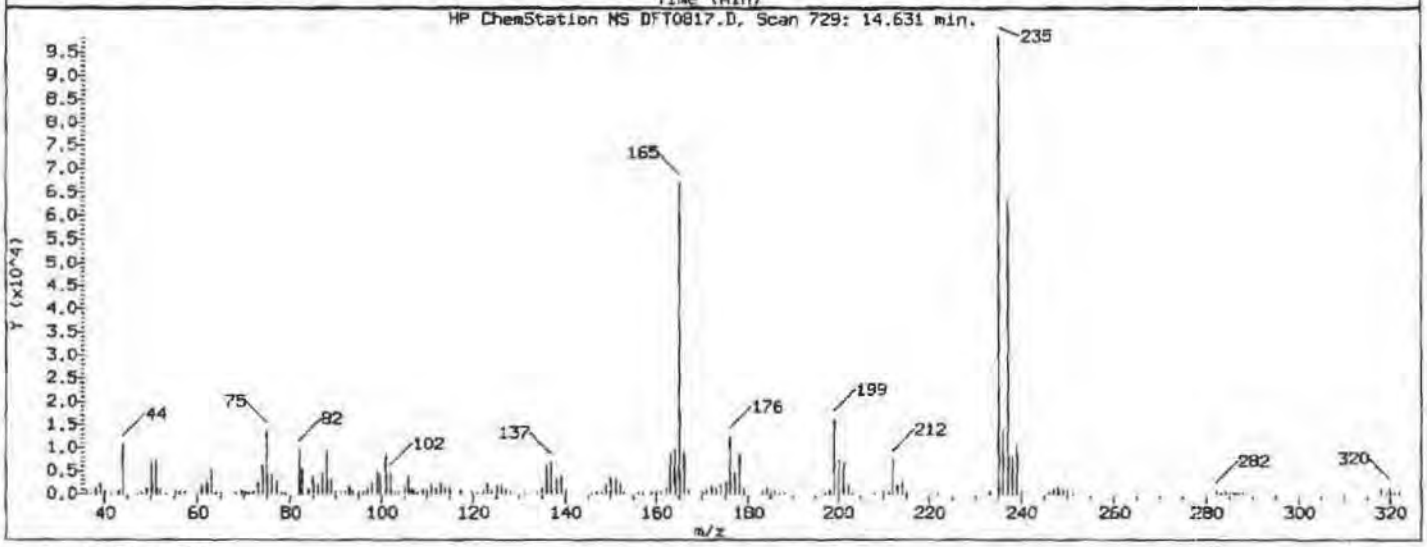
4,4'-DDE
=======
Exp. RT = 13.875
Found RT = 13.854

Mass	Area	Ratio
246	11333	100.00
248	7409	65.38
318	5760	50.83

Report Date: 08/17/2010 19:28

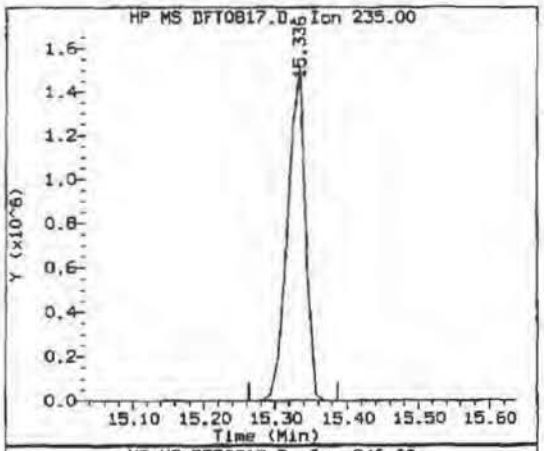
Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



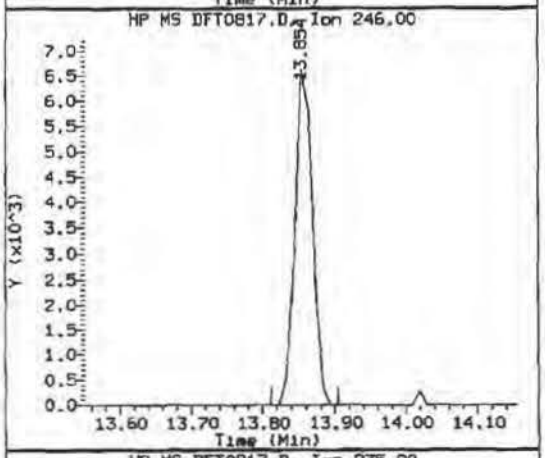


4,4'-DDD
========
Exp. RT = 14.652
Found RT = 14.631

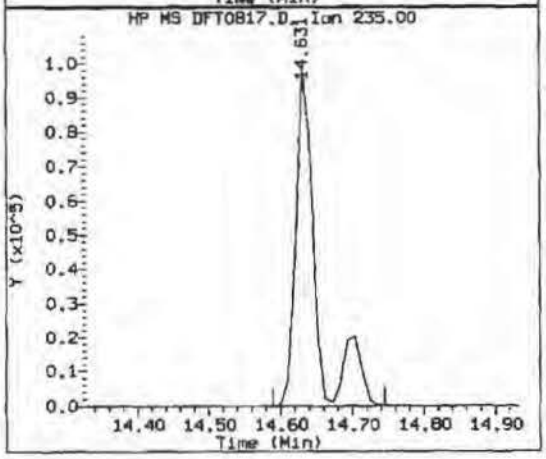
Mass	Area	Ratio
235	191687	100.00
237	122265	63.78
165	128302	66.93



Compound: 4,4'-DDT
Quant Mass: 235
RT: 15.336
Area: 2589837



Compound: 4,4'-DDE
Quant Mass: 246
RT: 13.854
Area: 11333



Compound: 4,4'-DDD
Quant Mass: 235
RT: 14.631
Area: 191687

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	203020	7.3	20.5	PASS

TestAmerica West Sacramento

Data file : \\sv5\c\chem\sv5.i\081710.B\DFT0817.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 17-AUG-2010 17:11
Operator : KT Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV068
Comment :
Method : \\SV5\C\chem\sv5.i\081710.B\DFTPP.m
Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: SV5

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
11.190	11.201	(0.000)	198	795968			0.00- 100.00	100.00
11.190	11.201	(0.000)	51	524672			30.00- 80.00	65.92
11.190	11.201	(0.000)	68	6261			0.00- 2.00	1.49
11.190	11.201	(0.000)	69	419520			0.00- 0.00	52.71
11.190	11.201	(0.000)	70	1755			0.00- 2.00	0.42
11.190	11.201	(0.000)	127	487360			25.00- 75.00	61.23
11.190	11.201	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
11.190	11.201	(0.000)	199	53840			5.00- 9.00	6.76
11.190	11.201	(0.000)	275	157248			10.00- 30.00	19.76
11.190	11.201	(0.000)	365	20248			0.75- 0.00	2.54
11.190	11.201	(0.000)	441	79120			0.01- 99.99	72.72
11.190	11.201	(0.000)	442	534912			40.00- 110.00	67.20
11.190	11.201	(0.000)	443	108800			15.00- 24.00	20.34

Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Page 2

Date : 17-AUG-2010 17:11

Client ID:

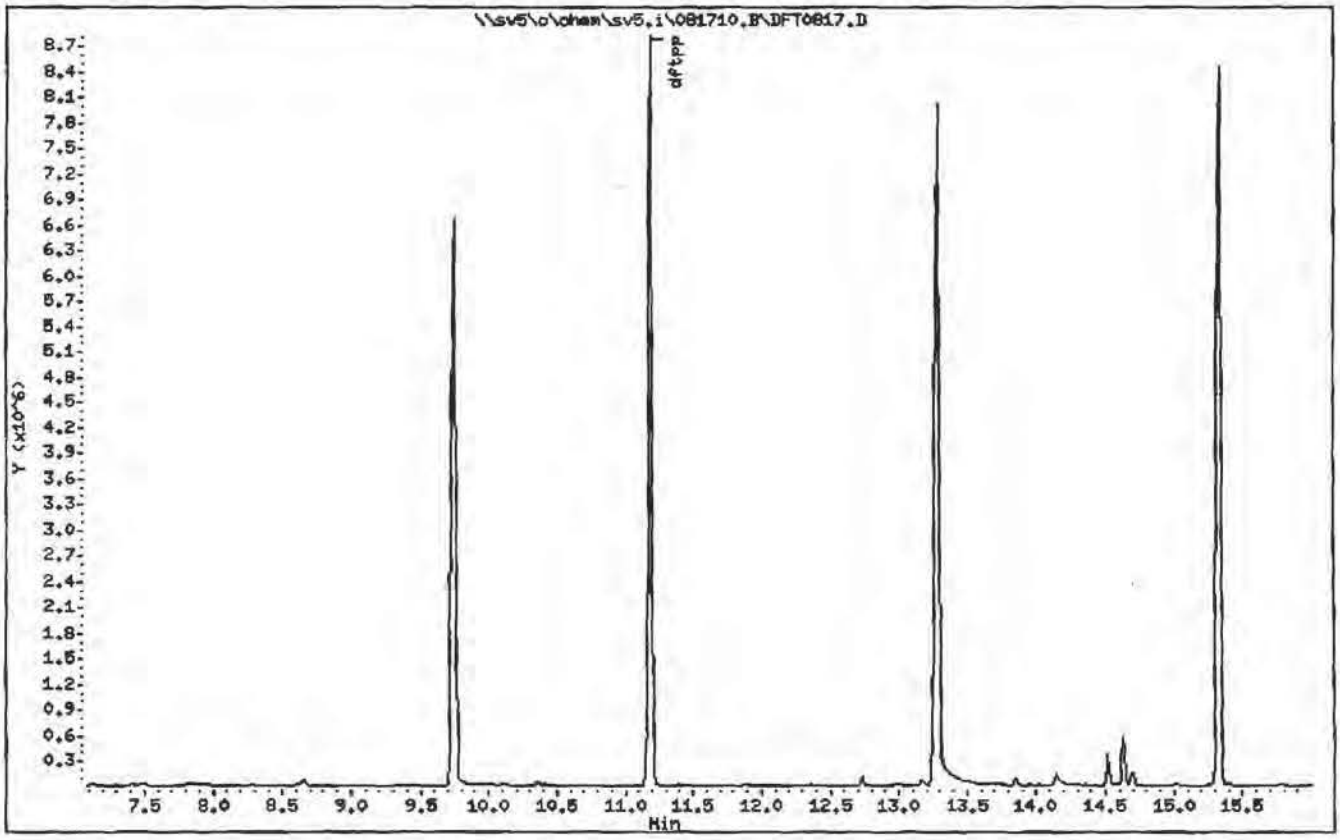
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

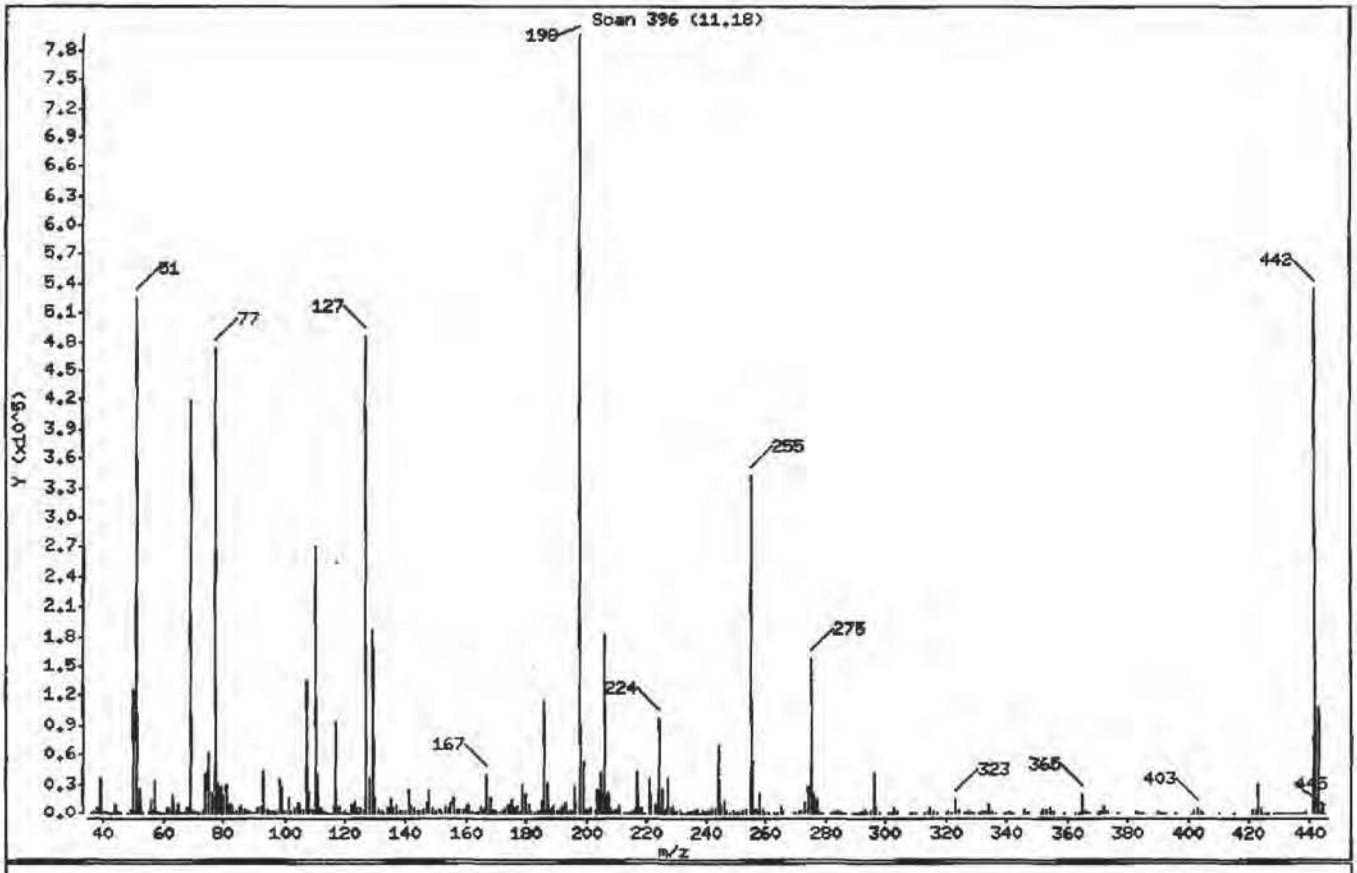
Sample Info: DFTPP 50ug/ml;

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 - 80.00% of mass 198	65.92
68	Less than 2.00% of mass 69	0.79 (1.49)
69	Mass 69 relative abundance	52.71
70	Less than 2.00% of mass 69	0.22 (0.42)
127	25.00 - 75.00% of mass 198	61.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	19.76
365	Greater than 0.75% of mass 198	2.54
441	Present, but less than mass 443	9.94
442	40.00 - 110.00% of mass 198	67.20
443	15.00 - 24.00% of mass 442	13.67 (20.34)

Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Page 4

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0817.D
Spectrum: Scan 396 (11.18)
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	555	124.00	6321	213.00	529	314.10	2378
37.00	1183	125.00	5909	214.10	431	315.00	5419
38.10	4993	126.20	3401	215.10	1771	316.10	2669
39.10	35928	127.00	487360	216.10	4611	317.00	313
40.00	1431	128.00	35984	217.00	44600	320.00	261
41.10	1356	129.00	186496	218.00	5855	321.00	1422
41.90	216	130.00	16315	218.90	367	322.20	781
43.00	416	131.00	3087	219.40	430	323.10	15423
44.00	9499	132.10	1728	221.00	37416	324.10	3275
45.10	1134	133.00	891	223.00	9421	325.90	443
46.00	318	134.00	4973	224.10	96632	327.00	2681
48.10	309	135.00	13949	225.10	24992	328.00	1205
49.10	3183	136.00	5306	226.00	2818	329.00	287
50.10	125952	137.10	6919	227.00	37320	330.80	231
51.10	524672	138.10	1683	228.00	5528	332.00	1145
52.10	26104	139.00	916	229.00	8071	333.10	1218
53.10	950	140.00	2304	230.00	1110	334.10	8989
55.10	2316	141.00	22952	231.00	3759	335.10	2449
56.00	13177	142.00	5219	232.10	508	336.00	281
57.00	32480	143.00	4726	233.10	660	339.00	308
58.00	1139	144.00	1166	234.00	2067	340.10	318
59.00	564	145.00	1380	235.00	2462	341.10	1864
60.20	262	146.00	4383	236.00	2018	342.00	502
61.00	5676	147.00	11476	237.10	3246	346.00	3429
62.10	6356	148.00	23752	238.00	276	347.00	716
63.10	17816	149.00	4970	239.00	1374	351.10	568
64.00	2345	150.00	1537	240.10	1168	352.00	4275
65.10	8431	151.10	2886	241.00	2367	353.10	2921
66.10	464	152.10	1857	242.10	4917	354.00	5500
67.20	740	153.00	6485	243.10	4684	355.10	1126
68.00	6261	154.10	5503	244.10	69952	359.10	295
69.00	419520	155.00	11492	245.10	9771	362.40	276
70.00	1785	156.10	16848	246.00	13489	363.70	334
71.10	291	157.10	4355	247.00	2506	365.00	20248
72.10	223	158.00	3090	248.00	639	366.00	2362

Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0817.D
Spectrum: Scan 396 (11.18)
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2307	159.00	3144	249.10	2524	367.10	249
74.00	39680	160.00	6416	250.10	767	370.10	533
75.00	61964	161.00	8291	251.00	596	371.10	1519
76.10	22440	162.00	2664	252.10	1488	372.10	8197
77.10	473024	163.00	651	253.20	2760	373.10	2315
78.10	31552	164.00	1442	255.00	341504	377.10	285
79.00	27304	165.00	6912	256.00	53744	383.00	2210
80.00	18200	166.10	6269	257.10	4432	384.00	891
81.00	28864	167.00	40488	258.00	19512	385.10	250
82.00	8636	168.00	15649	259.00	3196	390.00	1164
83.00	7037	169.10	3030	259.90	534	391.00	703
84.00	1040	170.10	2052	261.00	648	392.10	448
85.00	5562	171.00	1962	263.10	419	398.90	236
86.00	7853	172.00	3136	264.00	734	401.00	549
87.00	4172	173.00	4587	265.00	7479	402.00	3555
88.10	1397	174.00	9175	266.00	1127	403.00	4648
89.00	524	175.10	15338	269.70	353	404.00	1443
90.10	206	176.10	5398	270.10	474	405.00	226
91.00	6294	177.00	7420	271.10	1007	410.00	211
92.10	8093	178.00	2575	272.00	1290	415.10	387
93.00	44264	179.00	29232	273.00	11465	421.00	4093
94.00	2939	180.00	20208	274.00	27648	422.10	3749
95.00	1081	181.00	8862	275.10	157248	423.00	30992
96.00	2438	182.00	1540	276.00	20256	424.10	6301
97.20	1124	183.10	682	277.00	14618	425.10	720
98.00	34368	184.10	2599	278.00	2654	425.60	339
99.00	27896	185.10	13502	279.00	617	426.10	236
100.00	2476	186.10	115784	282.00	302	426.50	230
101.00	17056	187.10	30336	283.00	1561	428.00	210
102.10	978	188.10	3491	284.00	1035	428.60	425
103.00	4951	189.00	6437	285.10	2412	429.00	478
104.00	10246	190.00	1202	286.00	394	429.60	227
105.00	9990	191.10	2791	287.00	220	430.10	237
106.00	3241	192.00	7345	289.00	480	430.60	348
107.00	135744	193.10	10846	290.00	379	431.30	275

Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0817.D
Spectrum: Scan 396 (11.18)
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	21064	194.00	2647	291.00	495	431.90	451
109.00	3605	195.10	2416	292.10	918	432.80	588
110.00	270080	196.00	27112	293.10	2976	433.90	402
111.00	39744	198.00	795968	294.00	846	434.40	556
112.00	5481	199.00	63840	295.10	1438	435.00	642
113.10	993	200.00	4287	296.00	42016	436.30	844
113.90	331	201.50	4852	297.00	5739	437.00	835
115.10	763	203.00	4435	298.00	589	437.50	656
116.00	7408	204.10	24264	301.00	752	438.10	794
117.00	93584	205.10	42488	302.10	782	439.00	993
118.00	6908	206.10	182848	303.10	4722	441.00	79120
119.10	784	207.10	22392	304.10	1577	442.00	534912
120.00	1981	208.00	6297	308.20	428	443.10	108800
121.00	724	209.10	1370	309.00	457	444.10	11061
122.00	9054	210.10	3012	310.10	679	445.00	544
123.00	12880	211.00	6946	313.10	459		

Data File: \\sv5\c\chem\sv5.i\081710.B\AP90817J.D
Report Date: 18-Aug-2010 14:56

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i
Lab File ID: AP90817J.D
Analysis Type:
Lab Sample ID: AP9_050 ug/ml ARAMI
Method: \\sv5\c\chem\sv5.i\081710.B\8270fap9.m

Injection Date: 18-AUG-2010 00:47
Init. Cal. Date(s): 17-AUG-2010 17-AUG-2010
Init. Cal. Times: 17:32 23:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
17 2-Picoline	1.66833	1.63462	1.63462	0.010	-2.02052	50.00000	Averaged	
18 n-Nitrosomethylethylamine	0.75572	0.77055	0.77055	0.010	1.96183	50.00000	Averaged	
19 Methyl methanesulfonate	0.63676	0.52160	0.52160	0.010	-18.08578	50.00000	Averaged	
21 n-Nitrosodiethylamine	0.77988	0.81779	0.81779	0.010	4.86155	50.00000	Averaged	
22 Ethyl methanesulfonate	1.10810	1.12281	1.12281	0.010	1.32758	50.00000	Averaged	
20 Benzaldehyde	1.30417	0.21371	0.21371	0.010	-83.61346	50.00000	Averaged	<-
25 Pentachloroethane	0.52066	0.54307	0.54307	0.010	4.30385	50.00000	Averaged	
35 Acetophenone	0.46582	0.48264	0.48264	0.010	3.61224	50.00000	Averaged	
38 n-Nitrosopyrrolidine	0.84836	0.88345	0.88345	0.010	4.13590	50.00000	Averaged	
39 3-Methylphenol	1.54820	1.58897	1.58897	0.010	2.63317	50.00000	Averaged	
40 o-Toluidine	2.55611	2.63311	2.63311	0.010	2.93201	50.00000	Averaged	
41 n-Nitrosomorpholine	1.17084	1.19529	1.19529	0.010	2.08808	50.00000	Averaged	
43 N-Nitrosopiperidine	0.26232	0.26545	0.26545	0.010	1.19535	50.00000	Averaged	
48 o,o,o-TEPT	0.14007	0.13603	0.13603	0.010	-2.88229	50.00000	Averaged	
53 a-,a-Dimethylphenethylamine	1.13547	0.39755	0.39755	0.010	-64.98786	50.00000	Averaged	<-
56 Hexachloropropene	0.13703	0.10229	0.10229	0.010	-25.34993	50.00000	Averaged	
58 p-Phenylenediamine	0.46748	0.21058	0.21058	0.010	-54.95474	50.00000	Averaged	<-
59 N-Nitroso-di-n-butylamine	0.23539	0.24067	0.24067	0.010	2.24223	50.00000	Averaged	
55 2,6-Dichlorophenol	0.25204	0.26278	0.26278	0.010	4.26165	50.00000	Averaged	
61 Safrole	0.24987	0.26747	0.26747	0.010	7.04333	50.00000	Averaged	
65 1-Methylnaphthalene	0.69162	0.68891	0.68891	0.010	-0.39137	50.00000	Averaged	
67 1,2,4,5-Tetrachlorobenzene	0.42057	0.42741	0.42741	0.010	1.62579	50.00000	Averaged	
68 Isosafrole#1	0.08606	0.08515	0.08515	0.010	-1.05166	50.00000	Averaged	
72 Isosafrole#2	0.47771	0.49487	0.49487	0.010	3.59218	50.00000	Averaged	
64 1-Chloronaphthalene	1.08822	1.08839	1.08839	0.010	0.01615	50.00000	Averaged	
62 Biphenyl	1.59234	1.59203	1.59203	0.010	-0.01939	50.00000	Averaged	
74 1,4-Naphthoquinone	0.44345	0.48600	0.48600	0.010	9.59460	50.00000	Averaged	
75 1,3-Dinitrobenzene	50.00000	52.42282	0.15228	0.010	4.84564	0.000e+000	Quadratic	
78 1,4-Dinitrobenzene	50.00000	51.99942	0.19997	0.010	3.99884	0.000e+000	Quadratic	
160 1,2-Dinitrobenzene	50.00000	48.18779	0.13219	0.010	-3.62441	0.000e+000	Quadratic	
85 Pentachlorobenzene	0.39081	0.39415	0.39415	0.010	0.85464	50.00000	Averaged	
87 1-Naphthylamine	1.37168	1.21596	1.21596	0.010	-11.35299	50.00000	Averaged	
88 2,3,4,6-Tetrachlorophenol	0.24424	0.25047	0.25047	0.010	2.54774	50.00000	Averaged	
89 2-Naphthylamine	1.43548	1.40692	1.40692	0.010	-1.98977	50.00000	Averaged	
90 2,3,5,6-Tetrachlorophenol	0.22879	0.20108	0.20108	0.010	-12.11089	50.00000	Averaged	
95 5-Nitro-o-toluidine	50.00000	48.52443	0.39301	0.010	-2.95115	0.000e+000	Linear	
96 Thionazin	0.27986	0.26688	0.28688	0.010	2.50748	50.00000	Averaged	
99 Diphenylamine	0.67390	0.72081	0.72081	0.010	6.96052	50.00000	Averaged	
102 Sulfotepp	0.12719	0.12969	0.12969	0.010	1.96238	50.00000	Averaged	
103 Diallate 1	0.34497	0.36330	0.36330	0.010	5.31283	50.00000	Averaged	
104 1,3,5-Trinitrobenzene	50.00000	56.08994	0.03446	0.010	12.17987	0.000e+000	Quadratic	
105 Phorate	0.68784	0.66419	0.66419	0.010	-3.43832	50.00000	Averaged	
106 Diallate 2	0.06730	0.06870	0.06870	0.010	2.08613	50.00000	Averaged	

Aramite only.
~~8/17/10~~ 8/18/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 18-AUG-2010 00:47
Lab File ID: AP90817J.D Init. Cal. Date(s): 17-AUG-2010 17-AUG-2010
Analysis Type: Init. Cal. Times: 17:32 23:55
Lab Sample ID: AP9_050 ug/ml ARAMI Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\081710.B\8270fap9.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
107 Phenacetin	50.00000	51.27646	0.43499	0.010	2.55292	0.000e+000	Linear
109 Dimethoate	0.28093	0.30139	0.30139	0.010	7.28489	50.00000	Averaged
111 4-Aminobiphenyl	0.85015	0.81760	0.81760	0.010	-3.82846	50.00000	Averaged
112 Pentachloronitrobenzene	0.03531	0.03767	0.03767	0.010	6.67267	50.00000	Averaged
113 Pronamide	0.30996	0.33562	0.33562	0.010	8.27719	50.00000	Averaged
116 Disulfoton	0.43845	0.44339	0.44339	0.010	1.12735	50.00000	Averaged
117 2-sec-Butyl-4,6-dinitrophen	50.00000	55.19937	0.13358	0.010	10.39874	0.000e+000	Quadratic
119 Methyl Parathion	50.00000	47.25727	0.93874	0.010	-5.48546	0.000e+000	Linear
122 4-Nitroquinoline-1-oxide	50.00000	57.53675	0.08156	0.010	15.07350	0.000e+000	Quadratic
123 Parathion	50.00000	50.16779	0.16572	0.010	0.33558	0.000e+000	Quadratic
124 Methapyrilene	0.59557	0.44799	0.44799	0.010	-24.78005	50.00000	Averaged
125 Isodrin	0.12693	0.13646	0.13646	0.010	7.50514	50.00000	Averaged
129 Aramite#1	0.04730	0.06805	0.06805	0.010	43.87804	50.00000	Averaged
130 Aramite#2	0.07280	0.08577	0.08577	0.010	17.82327	50.00000	Averaged
131 p-Dimthylaminoazobenzene	50.00000	49.67636	0.46576	0.010	-0.64729	0.000e+000	Linear
132 p-Chlorobenzilate	50.00000	49.45403	0.27176	0.010	-1.09195	0.000e+000	Linear
137 2-Acetylaminofluorene	50.00000	52.07026	0.43814	0.010	4.14053	0.000e+000	Quadratic
143 Benzo(j)fluoranthene	0.95193	0.99701	0.99701	0.010	4.73587	50.00000	Averaged
146 7,12-Dimethylbenz(a)anthrac	0.52240	0.53044	0.53044	0.010	1.53868	50.00000	Averaged
149 3-Methylcholanthrene	0.54842	0.57389	0.57389	0.010	4.64586	50.00000	Averaged
150 Dibenz(a,j)acridine	50.00000	46.43059	0.74568	0.010	-7.13882	0.000e+000	Linear
M 154 Diallate (Total)	0.41227	0.43200	0.43200	0.010	4.78613	50.00000	Averaged
M 155 Isosafrole (Total)	0.56377	0.58002	0.58002	0.010	2.88330	50.00000	Averaged
M 156 Aramite (Total)	0.13664	0.15382	0.15382	0.010	12.57781	50.00000	Averaged
M 157 3 and 4-methylphenol	1.54820	1.58897	1.58897	0.010	2.63317	50.00000	Averaged
133 Kepone	0.10009	0.08913	0.08913	0.010	-10.94928	50.00000	Averaged
135 Famphur	0.27575	0.25911	0.25911	0.010	-6.03558	50.00000	Averaged

See total

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8270C CCV Checklist

Instrument: SV5 _____

ICAL Date: 10/02/10 _____ DFTPP ID: DFT1119

Initiator/Date: SRS-11/20/10 ____ Standard ID: HSL1119

Reviewer/Date: [illegible] 11/21/10 NCM #: _____

I: 8270C Criteria

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

II: 8270C SPCC Check

SPCC RRFs must be greater than 0.050

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

III: 8270C CCC Check

CCC must be ≤ 20%D (If CCC are not targets, all analytes must be <20%D.)

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dinitrophenol	☒	☑	Flouranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-Chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

IV: AFCEE 3.1 and 4.0 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	☒	☑
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☑

V: DOD QSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be ≤ 20% D.	☒	☑
RRFs for SPCCs must meet minimum response factor criteria	☒	☑
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☑
SIM: All analytes must be ≤ 20%	☐NA	~~☑NA~~
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☑

Notes: Benzo(k)fluoranthene (+24%D) high and ND is OK.

TestAmerica West Sacramento Page# _____

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 : 111910.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
19-NOV-2010	11:30	KT	PRIMER	QC001.D	NA	NA	NA		
19-NOV-2010	11:53	KT	DFTPP 50ug/ml	DFT1119.D	NA	NA	NA		
19-NOV-2010	12:14	KT	HSL_050 ug/ml CS-4	HSL1119.D	NA	NA	NA		
19-NOV-2010	12:38	KT	AP9_050 ug/ml CS-4	AP91119.D	NA	NA	NA		
19-NOV-2010	13:44	KT	L9NAR1AA G0K060000-100B	S111901.D	30 g	1 mL	1	QL	
19-NOV-2010	14:08	KT	L9NAR1AC G0K060000-100C	S111902.D	30 g	1 mL	1	QL	
19-NOV-2010	14:33	KT	L84EX1AD G0J260451-1	S111903.D	30.68 g	1 mL	1	QL	
19-NOV-2010	14:58	KT	L84E91AP G0J260451-2	S111904.D	30.21 g	1 mL	1	QL	
19-NOV-2010	15:23	KT	L84FA1AP G0J260451-3	S111905.D	30.4 g	1 mL	1	QL	
19-NOV-2010	15:48	KT	L84FD1AP G0J260451-4	S111906.D	30.21 g	1 mL	1	QL	
19-NOV-2010	16:13	KT	L84FD1AQ G0J260451-4S	S111907.D	30.2 g	1 mL	1	QL	
19-NOV-2010	16:39	KT	L84FD1AR G0J260451-4D	S111908.D	30.39 g	1 mL	1	QL	
19-NOV-2010	17:04	KT	L84FF1AP G0J260451-5	S111909.D	29.62 g	1 mL	1	QL	
19-NOV-2010	17:29	KT	L84FN1AP G0J260451-8	S111910.D	30.38 g	5 mL	1	QL	
19-NOV-2010	17:54	KT	L84FQ1AP G0J260451-9	S111911.D	30.38 g	5 mL	1	QL	
19-NOV-2010	18:19	KT	L84FR1AP G0J260451-10	S111912.D	30.11 g	1 mL	1	QL	
19-NOV-2010	18:44	KT	L84FT1AP G0J260451-11	S111913.D	30.24 g	5 mL	1	QL	
19-NOV-2010	19:09	KT	L84FV1AP G0J260451-12	S111914.D	29.93 g	1 mL	1	QL	
19-NOV-2010	19:34	KT	L84FW1AP G0J260451-13	S111915.D	29.78 g	5 mL	1	QL	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 19-NOV-2010 12:14
Lab File ID: HSL1119.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\111910.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.40992	1.39275	1.39275	0.010	-1.21817	50.00000	Averaged
$ 8 Phenol-d5	1.77296	1.82186	1.82186	0.010	2.75805	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.55698	1.57171	1.57171	0.010	0.94556	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98513	0.98177	0.98177	0.010	-0.34049	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.33879	0.32870	0.32870	0.010	-2.97926	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.28852	1.33282	1.33282	0.010	3.43774	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.17381	0.19204	0.19204	0.010	10.48391	50.00000	Averaged
$ 14 Terphenyl-d14	0.78789	0.78430	0.78430	0.010	-0.45608	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.87074	0.87074	0.010	-5.51289	50.00000	Averaged
16 Pyridine	1.54111	1.46425	1.46425	0.010	-4.98756	50.00000	Averaged
23 Aniline	2.25673	2.28671	2.28671	0.010	1.32857	50.00000	Averaged
24 Phenol	2.03729	2.02210	2.02210	0.010	-0.74554	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.43752	1.43752	0.010	0.62466	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.55701	1.55701	0.010	-0.43493	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.70488	1.70488	0.010	0.08832	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.76778	1.76778	0.010	-0.75249	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.07940	1.07940	0.010	2.70131	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.61803	1.61803	0.010	-1.18666	50.00000	Averaged
32 2-Methylphenol	1.43012	1.39974	1.39974	0.010	-2.12457	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.23967	2.23967	0.010	-1.49447	50.00000	Averaged
34 4-Methylphenol	1.51904	1.50034	1.50034	0.010	-1.23093	50.00000	Averaged
36 Hexachloroethane	0.60636	0.61008	0.61008	0.010	0.61235	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.01180	0.98492	0.98492	0.050	-2.65721	50.00000	Averaged
42 Nitrobenzene	0.33116	0.31731	0.31731	0.010	-4.18307	50.00000	Averaged
44 Isophorone	0.63679	0.62407	0.62407	0.010	-1.99706	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.19936	0.19936	0.010	1.46958	20.00000	Averaged
46 2,4-Dimethyphenol	0.34911	0.33649	0.33649	0.010	-3.61681	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.36743	0.36743	0.010	-5.56659	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.27458	0.27458	0.010	1.65688	20.00000	Averaged
50 Benzoic Acid	0.19324	0.18720	0.18720	0.010	-3.12577	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.29234	0.29234	0.010	-0.03771	50.00000	Averaged
52 Naphthalene	1.10443	1.07266	1.07266	0.010	-2.87590	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.42491	0.42491	0.010	-1.84015	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.15210	0.15210	0.010	6.27276	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.29402	0.29402	0.010	-2.52498	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.68476	0.68476	0.010	-1.29875	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.29930	0.29930	0.050	0.28417	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.35032	0.35032	0.010	9.77091	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.34380	0.38245	0.38245	0.010	11.24169	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.18565	1.18565	0.010	5.32429	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.34763	0.34763	0.010	1.89007	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.32985	1.32985	0.010	2.60664	50.00000	Averaged

Manual calculation for N-Nitrosodimethylamine

$\frac{113036}{103853} \times \frac{40}{50} = 0.87074$ AY 11/21/10

AY 11/20/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 19-NOV-2010 12:14
Lab File ID: HSL1119.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\111910.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	2.00149	2.00149	0.010	2.09763	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.31425	0.31425	0.010	4.06732	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.38935	0.38935	0.010	3.30133	50.00000	Averaged
81 Acenaphthene	1.24787	1.23443	1.23443	0.010	-1.07671	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	47.73265	0.16812	0.050	-4.53470	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.65211	1.65211	0.010	-0.24229	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.15882	0.15882	0.050	1.58651	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.39110	0.39110	0.010	-1.32027	50.00000	Averaged
91 Fluorene	1.37139	1.38650	1.38650	0.010	1.10167	50.00000	Averaged
92 Diethylphthalate	1.32699	1.33883	1.33883	0.010	0.89235	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.57289	0.57289	0.010	0.47310	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.37955	0.37955	0.010	1.58984	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	47.85902	0.13563	0.010	-4.28197	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.61000	0.61000	0.010	0.61356	20.00000	Averaged
100 Azobenzene	0.78660	0.75826	0.75826	0.010	-3.60328	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.20260	0.20260	0.010	3.75460	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22488	0.22488	0.010	3.12345	50.00000	Averaged
110 Pentachlorophenol	50.00000	49.06025	0.12748	0.010	-1.87949	0.000e+000	Linear
114 Phenanthrene	1.26074	1.24120	1.24120	0.010	-1.54982	50.00000	Averaged
115 Anthracene	1.25955	1.23523	1.23523	0.010	-1.93028	50.00000	Averaged
118 Carbazole	1.15061	1.10135	1.10135	0.010	-4.28149	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.38368	1.38368	0.010	-0.05317	50.00000	Averaged
126 Fluoranthene	1.12969	1.09504	1.09504	0.010	-3.06750	20.00000	Averaged
127 Benzidine	0.81067	0.83423	0.83423	0.010	2.90633	50.00000	Averaged
128 Pyrene	1.25025	1.21226	1.21226	0.010	-3.03874	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.69635	0.69635	0.010	-2.69533	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.61860	0.61860	0.010	-1.28215	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	1.06786	1.06786	0.010	0.22336	50.00000	Averaged
139 Chrysene	1.08994	1.06955	1.06955	0.010	-1.87074	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.41469	0.41469	0.010	3.18382	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.85185	0.85185	0.010	-1.31003	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.51751	1.51751	0.010	9.98441	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	1.00170	1.00170	0.010	10.62548	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.08619	1.08619	0.010	-6.55295	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.95897	0.95897	0.010	1.55957	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	1.03711	1.03711	0.010	1.02882	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.90549	0.90549	0.010	9.05770	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	0.94342	0.94342	0.010	1.70787	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.01739	1.01739	0.010	1.30649	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.08789	2.08789	0.010	0.96932	50.00000	Averaged

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.0022235	5.000	PASS
Benzidine	0.5322464	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	214129	11.2	20.5	PASS

Sample //SV5/C/chem/sv5.i/111910.B/DFT1119.D/DFT1119.D

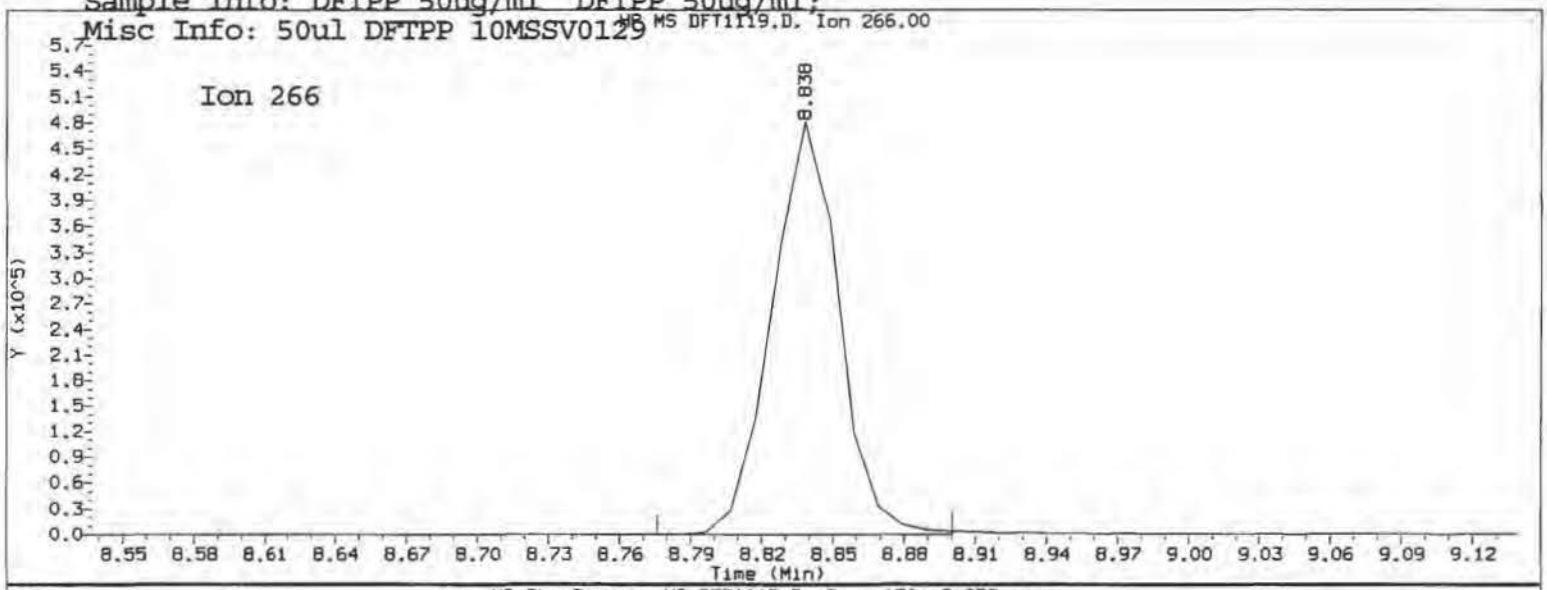
****
*** PASSED ***
****

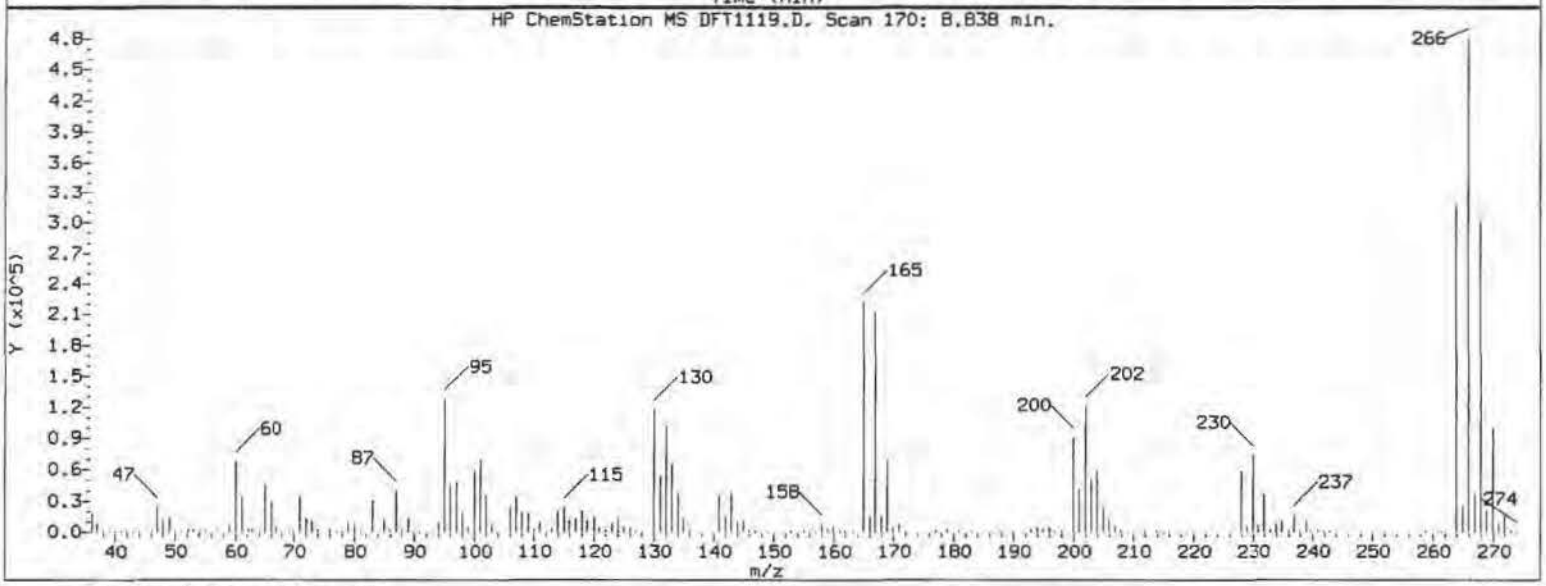
SK 11/20/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/19/2010 15:33

Datafile Analyzed: //SV5/C/chem/sv5.i/111910.B/DFT1119.D/DFT1119.D
Method Used: \\SV5\C\chem\sv5.i\111910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 19-NOV-2010 11:53 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129





Pentachlorophenol
==========
Exp. RT = 9.056
Found RT = 8.838

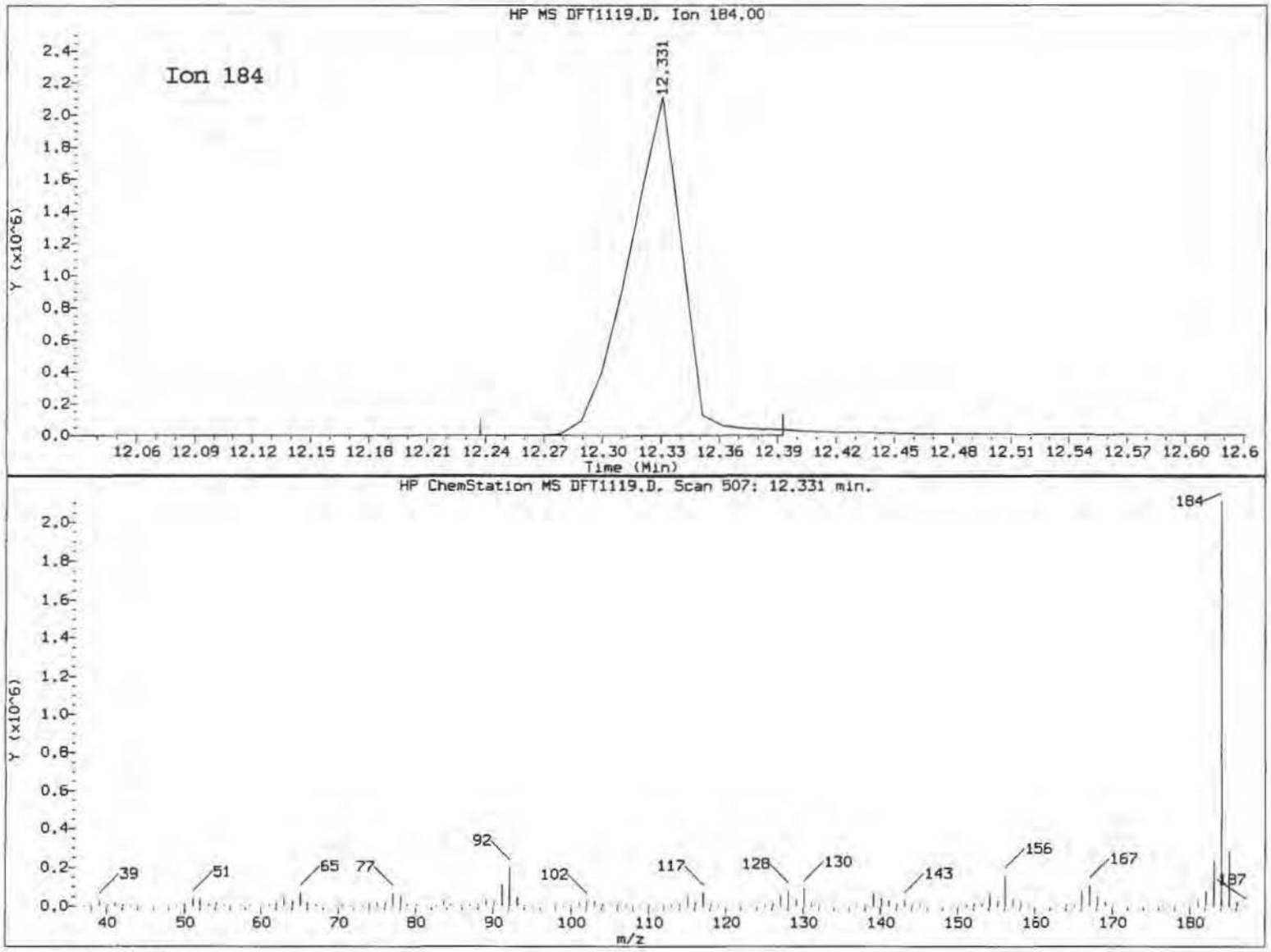
Time1 = 8.809072 Time2 = 8.838233 Time3 = 8.867459
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 1.002 Maximum Allowed = 5.0

Report Date: 11/19/2010 15:33

Datafile Analyzed: //SV5/C/chem/sv5.i/111910.B/DFT1119.D/DFT1119.D
Method Used: \\SV5\C\chem\sv5.i\111910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 19-NOV-2010 11:53 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine
=========
Exp. RT = 12.558
Found RT = 12.331

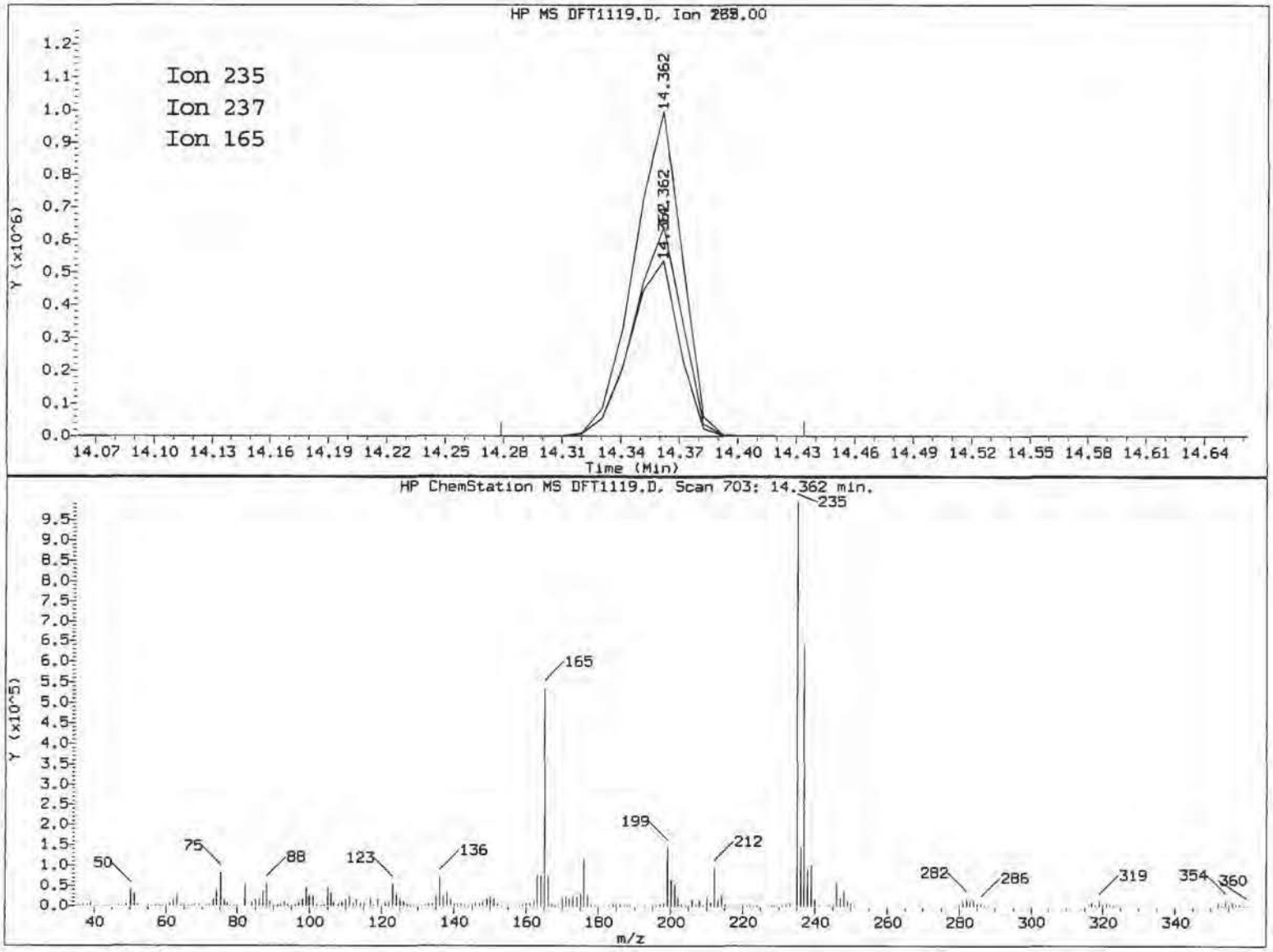
Time1 = 12.29328 Time2 = 12.33058 Time3 = 12.35044
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.532 Maximum Allowed = 3.0

Report Date: 11/19/2010 15:33

Datafile Analyzed: //SV5/C/chem/sv5.i/111910.B/DFT1119.D/DFT1119.D
Method Used: \\SV5\C\chem\sv5.i\111910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 19-NOV-2010 11:53 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

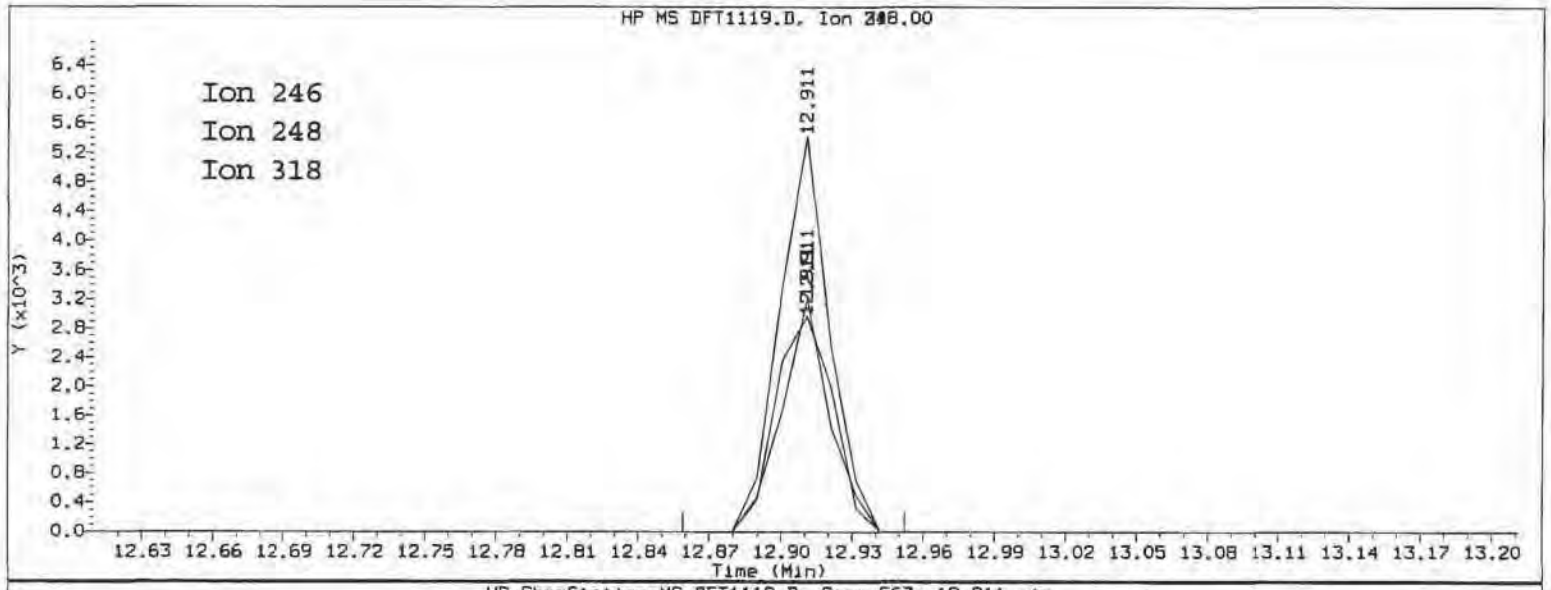


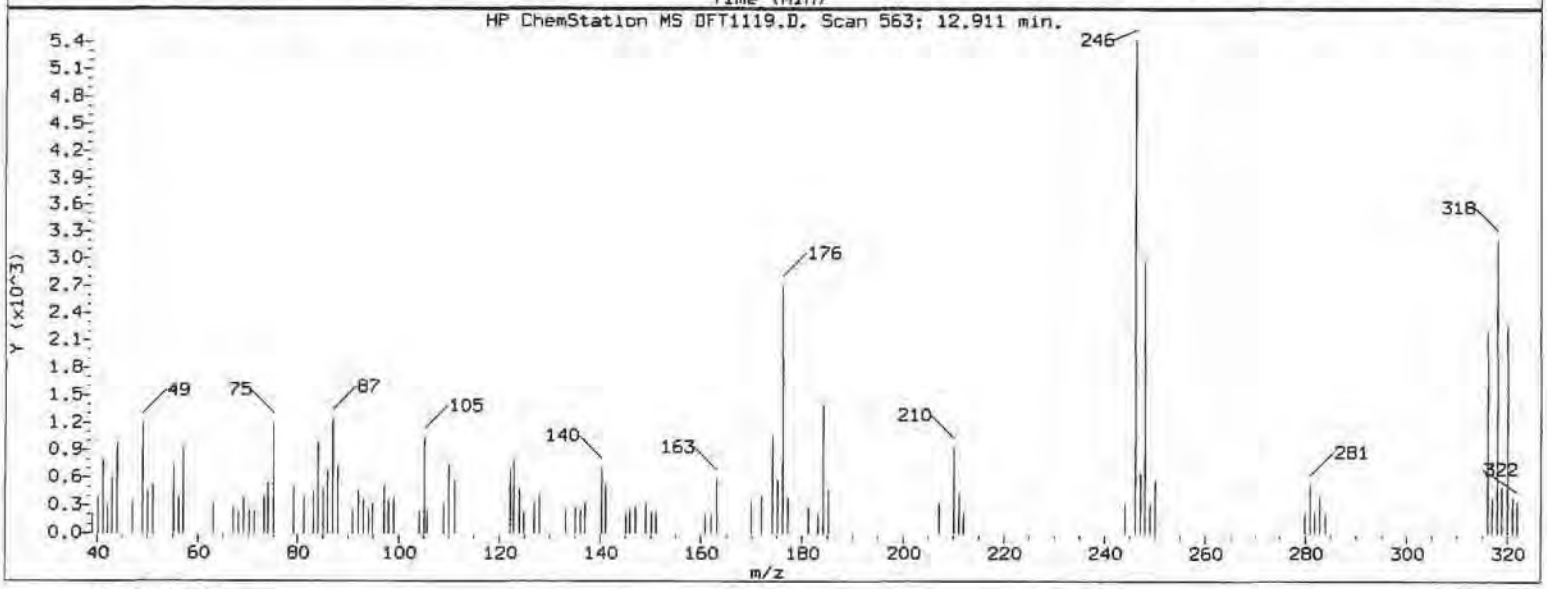
4,4'-DDT
========
Exp. RT = 14.590
Found RT = 14.362

Mass	Area	Ratio
235	1697991	100.00
237	1093317	64.39
165	939297	55.32

Report Date: 11/19/2010 15:33

Datafile Analyzed: //SV5/C/chem/sv5.i/111910.B/DFT1119.D/DFT1119.D
Method Used: \\SV5\C\chem\sv5.i\111910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 19-NOV-2010 11:53 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



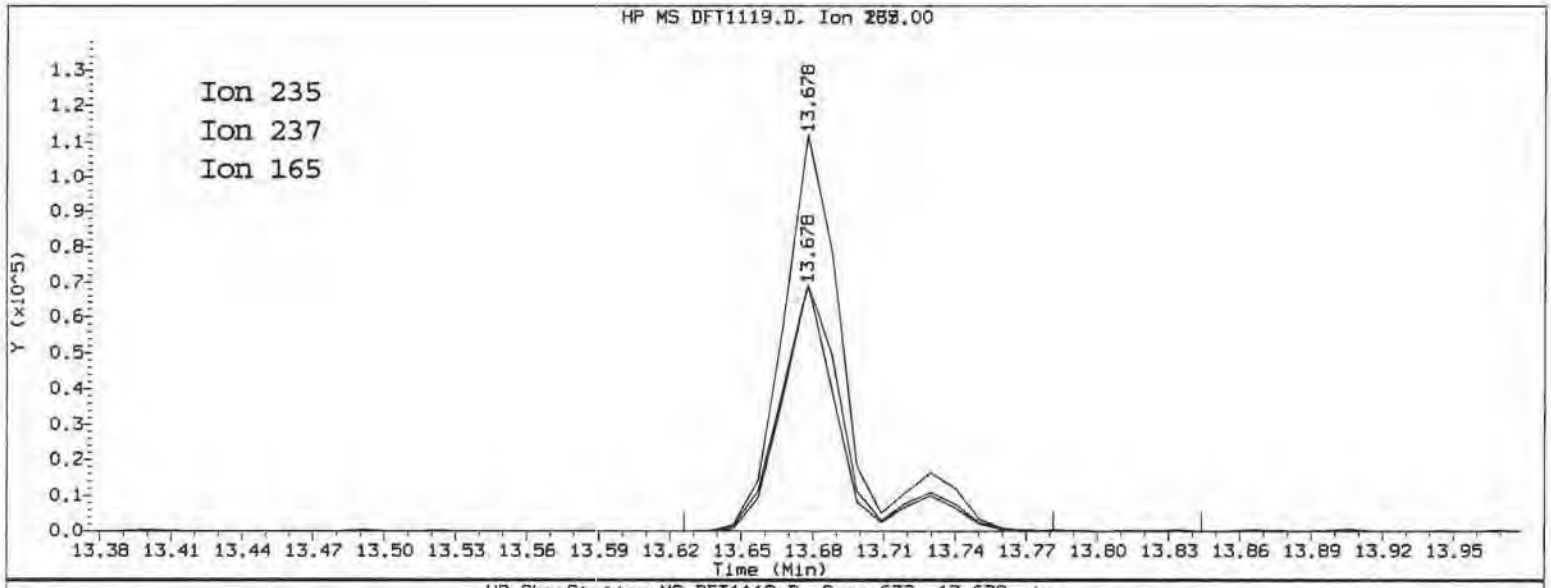


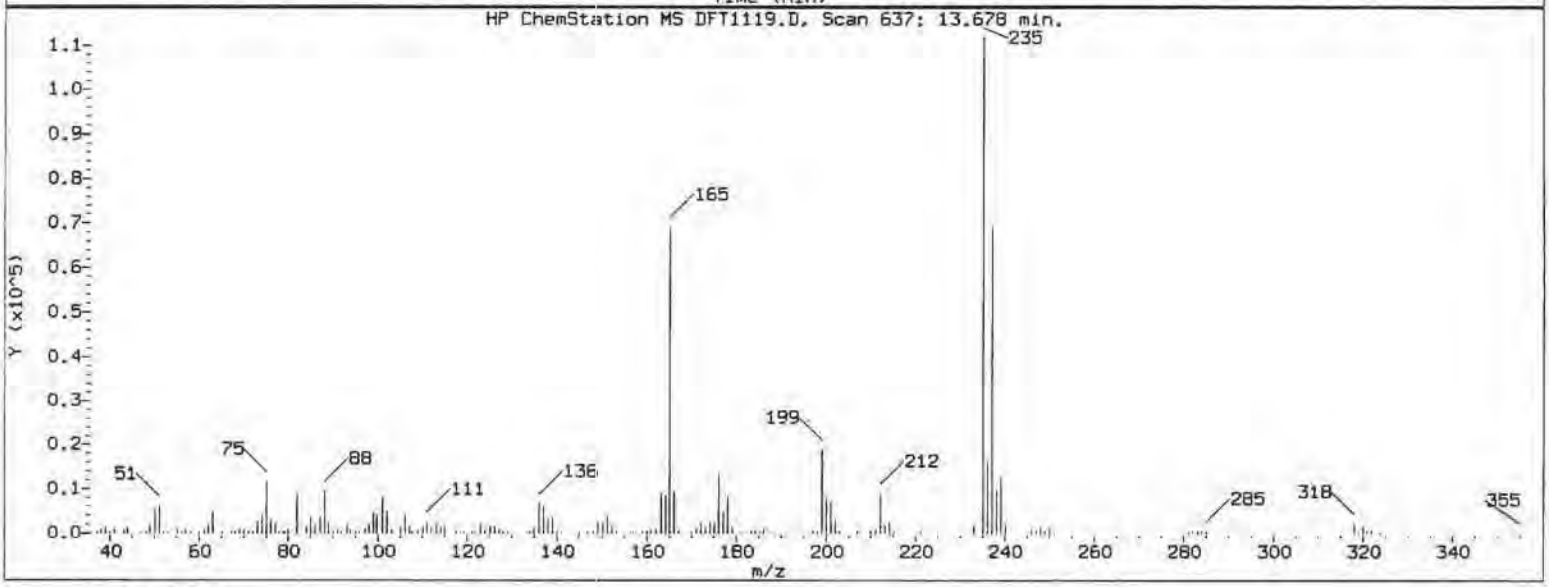
4,4'-DDE
========
Exp. RT = 13.139
Found RT = 12.911

Mass	Area	Ratio
246	7947	100.00
248	5014	63.10
318	4540	57.13

Report Date: 11/19/2010 15:33

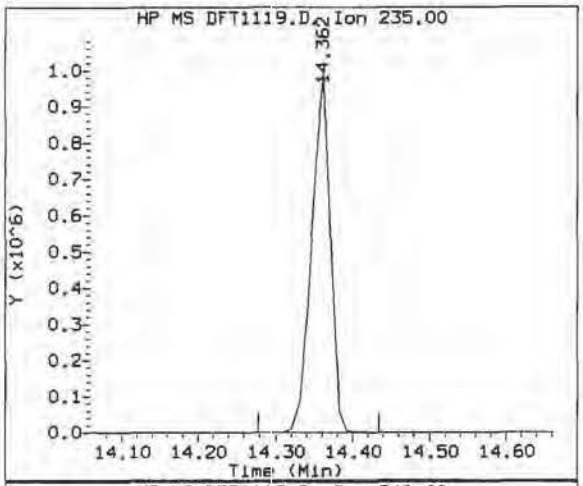
Datafile Analyzed: //SV5/C/chem/sv5.i/111910.B/DFT1119.D/DFT1119.D
Method Used: \\SV5\C\chem\sv5.i\111910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 19-NOV-2010 11:53 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



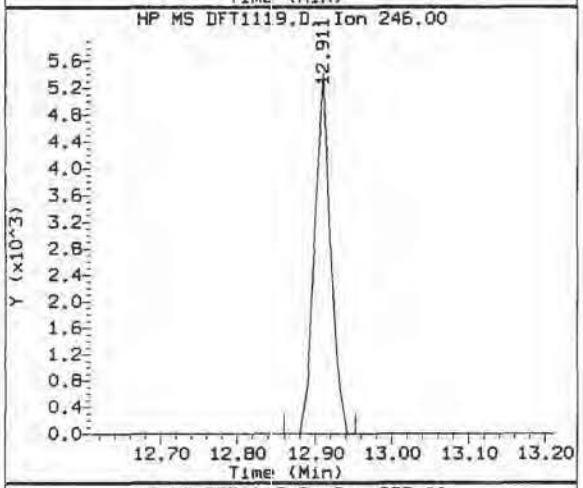


4,4'-DDD
========
Exp. RT = 13.906
Found RT = 13.678

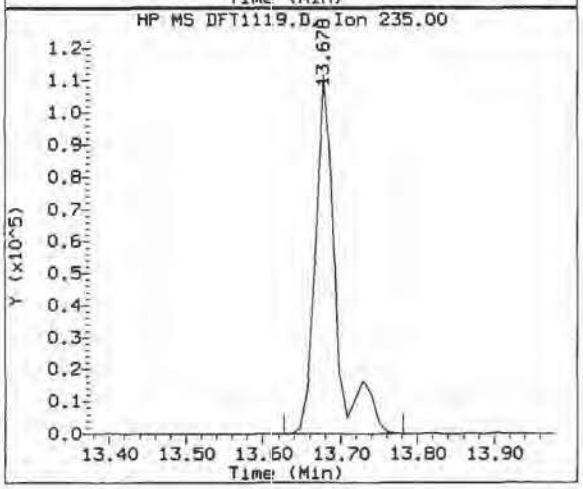
Mass	Area	Ratio
235	206182	100.00
237	131265	63.66
165	123947	60.12



Compound: 4,4'-DDT
Quant Mass: 235
RT: 14.362
Area: 1697991



Compound: 4,4'-DDE
Quant Mass: 246
RT: 12.911
Area: 7947



Compound: 4,4'-DDD
Quant Mass: 235
RT: 13.678
Area: 206182

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	214129	11.2	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\111910.B\DFT1119.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 19-NOV-2010 11:53
Operator : KT Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV0129
Comment :
Method : \\SV5\C\chem\sv5.i\111910.B\DFTPP.m
Meth Date : 29-Oct-2010 10:57 onishim Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: SV5

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
10.309	10.713	(0.000)	198	532672			0.00- 100.00	100.00
10.309	10.713	(0.000)	51	241792			30.00- 80.00	45.39
10.309	10.713	(0.000)	68	3991			0.00- 2.00	1.73
10.309	10.713	(0.000)	69	231040			0.00- 0.00	43.37
10.309	10.713	(0.000)	70	1380			0.00- 2.00	0.60
10.309	10.713	(0.000)	127	308416			25.00- 75.00	57.90
10.309	10.713	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
10.309	10.713	(0.000)	199	35040			5.00- 9.00	6.58
10.309	10.713	(0.000)	275	116024			10.00- 30.00	21.78
10.309	10.713	(0.000)	365	13617			0.75- 0.00	2.56
10.309	10.713	(0.000)	441	67848			0.01- 99.99	75.96
10.309	10.713	(0.000)	442	451904			40.00- 110.00	84.84
10.309	10.713	(0.000)	443	89320			15.00- 24.00	19.77

Data File: \\SV5\C\chem\sv5.i\111910.B\DFT1119.D

Date : 19-NOV-2010 11:53

Client ID:

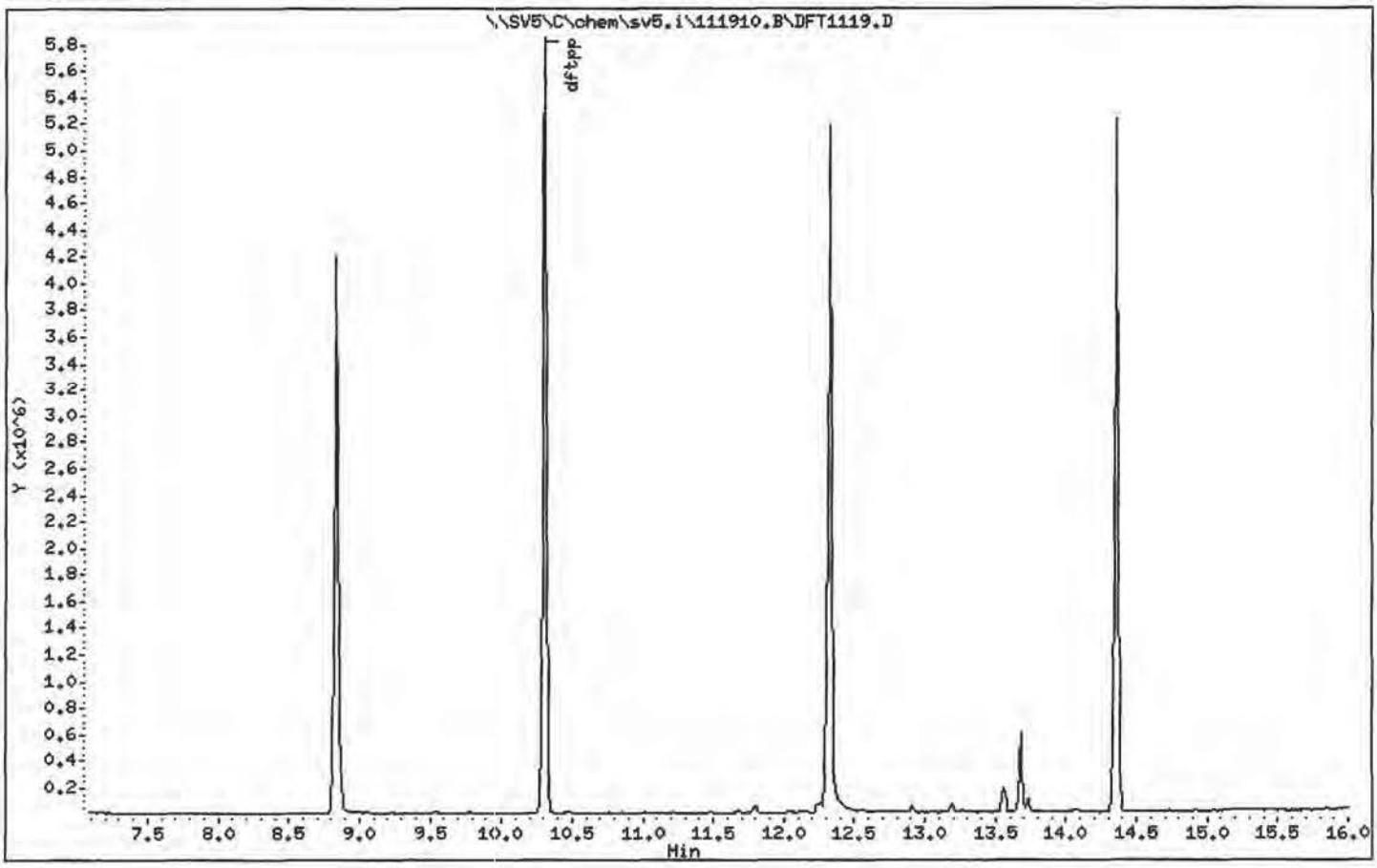
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\111910.B\DFT1119.D

Date : 19-NOV-2010 11:53

Client ID:

Instrument: sv5.i

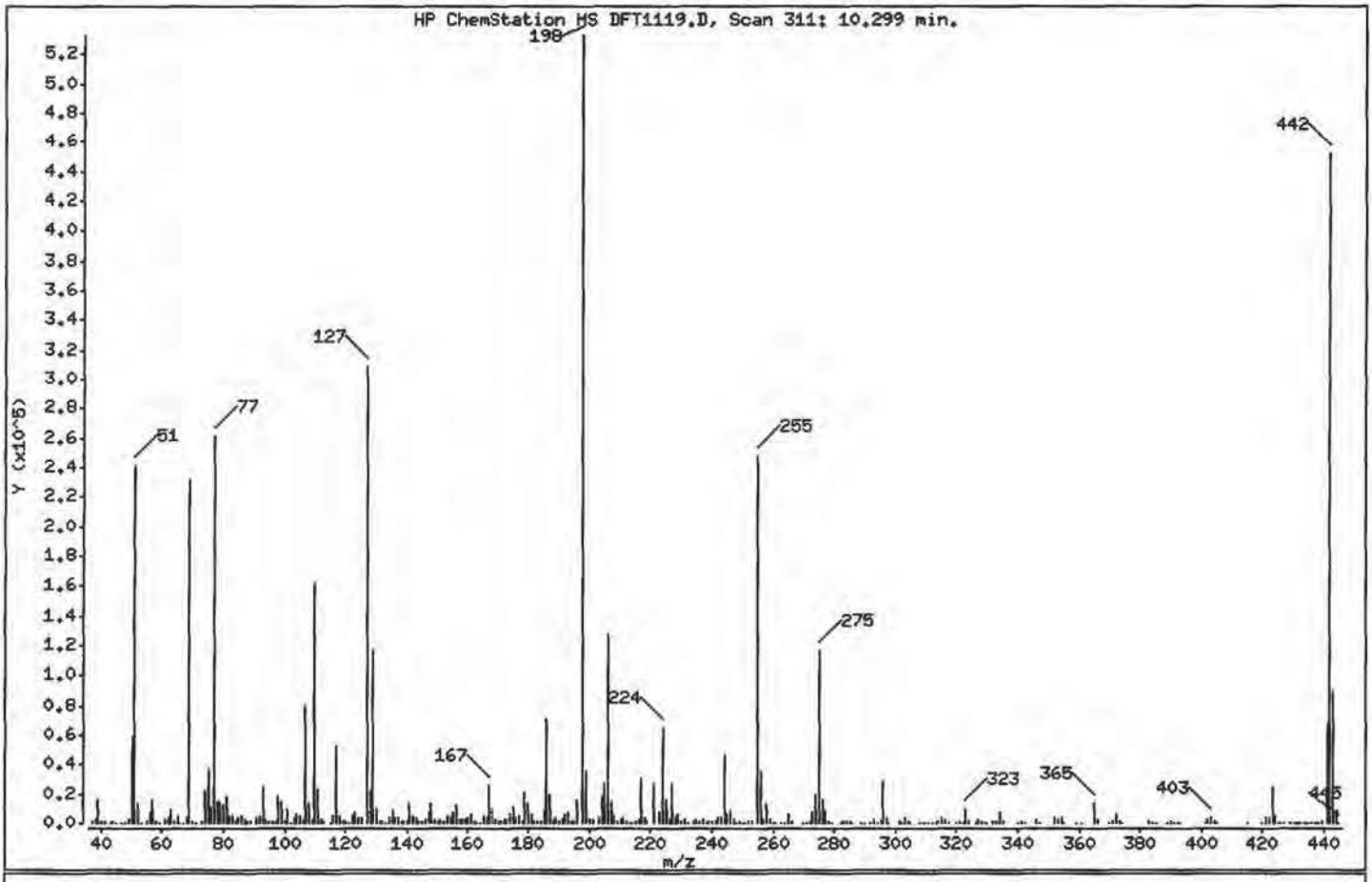
Sample Info: DFTPP 50ug/ml;

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 - 80.00% of mass 198	45.39
68	Less than 2.00% of mass 69	0.75 (1.73)
69	Mass 69 relative abundance	43.37
70	Less than 2.00% of mass 69	0.26 (0.60)
127	25.00 - 75.00% of mass 198	57.90
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	21.78
365	Greater than 0.75% of mass 198	2.56
441	Present, but less than mass 443	12.74
442	40.00 - 110.00% of mass 198	84.84
443	15.00 - 24.00% of mass 442	16.77 (19.77)

Data File: \\SV5\C\chem\sv5.i\111910.B\DFT1119.D

Date : 19-NOV-2010 11:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1119.D
Spectrum: HP ChemStation MS DFT1119.D, Scan 311: 10.299 min.
Location of Maximum: 198.00
Number of points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	843	128.10	22464	213.10	349	313.10	281
38.10	2823	129.00	116752	214.00	400	314.00	1418
39.10	16109	130.00	9828	215.00	1176	315.00	4018
40.10	785	131.00	1573	216.10	2364	316.00	1956
41.10	929	132.00	1243	217.00	30712	317.10	205
43.00	499	132.90	347	218.10	3811	320.00	280
44.00	981	134.00	3564	218.90	622	321.00	1095
45.10	484	135.10	8848	221.00	26352	322.10	497
46.90	201	136.00	3996	223.00	7016	323.00	9337
48.00	320	137.10	4248	224.10	65016	324.10	1818
49.10	2339	138.10	936	225.10	15914	326.20	298
50.10	58304	138.90	657	226.10	1929	327.00	2057
51.10	241792	140.00	1602	227.00	27344	328.00	994
52.10	12860	141.00	13296	228.00	3076	329.20	262
53.20	593	142.00	4930	229.00	5681	329.80	223
55.00	1346	143.00	3305	230.00	645	331.90	619
56.00	7311	143.90	729	231.00	2863	333.10	899
57.00	16496	144.90	710	232.10	339	334.00	7218
58.00	773	146.00	2472	234.00	1309	335.00	1641
59.00	224	147.00	7118	235.00	1910	340.00	281
61.00	2840	148.00	14047	236.10	1432	341.00	1348
62.00	3357	149.00	2876	237.00	2194	342.10	368
63.00	9577	150.10	1521	238.10	415	346.00	2867
64.10	881	151.10	1858	239.00	1299	347.00	496
65.10	5260	151.90	1194	240.00	659	352.00	3294
65.90	267	153.00	4958	241.00	1428	353.00	1994
67.00	422	154.10	3570	242.00	3317	354.10	3585
68.00	3991	155.10	7337	243.10	3775	354.90	472
69.00	231040	156.10	11657	244.10	46432	358.90	346
70.00	1380	157.10	2850	245.10	6558	360.90	258
71.20	378	158.00	2496	246.00	8432	365.00	13617
73.10	1781	159.00	2023	247.00	1936	366.00	2063
74.00	21960	160.00	3516	247.60	342	370.00	466
75.00	37040	161.00	6105	249.00	1636	371.10	749
76.10	10931	162.00	1399	250.20	559	372.00	6384

Date : 19-NOV-2010 11:53

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1119.D
Spectrum: HP ChemStation MS DFT1119.D, Scan 311: 10.299 min.
Location of Maximum: 198.00
Number of points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	260736	163.00	473	251.00	496	373.10	1218
78.10	14955	164.10	591	251.80	764	374.00	366
79.00	15257	165.00	4801	253.10	1019	383.00	1703
80.00	11757	166.10	3902	255.00	247680	384.10	580
81.00	17832	167.00	25136	256.00	36024	385.00	339
82.00	4287	168.00	10240	257.00	2763	388.90	256
83.00	4556	169.00	2053	258.00	13972	390.10	1187
84.00	1151	170.30	1087	259.00	1894	391.00	583
85.00	3393	171.10	1030	260.10	269	392.10	421
86.00	4870	172.00	1888	261.00	502	392.90	230
87.10	2144	173.00	2891	262.90	272	401.10	287
87.90	813	174.10	5552	264.10	434	402.00	2675
88.90	656	175.10	10954	265.00	6003	403.00	3757
91.00	4248	176.10	3782	266.10	925	404.10	1350
92.00	4506	177.00	5407	270.00	290	404.90	256
93.00	24400	178.10	1783	271.10	374	415.00	373
94.00	1903	179.00	20656	271.90	1035	419.80	231
95.00	825	180.00	12951	273.00	7513	421.00	3458
96.00	1498	181.00	5895	274.10	19016	422.00	3337
97.20	646	181.90	982	275.00	116024	423.00	24656
98.00	18896	183.00	656	276.10	16383	424.10	5235
99.00	15071	184.00	1440	277.00	8819	425.10	522
100.00	1804	185.10	8163	278.00	1446	425.90	347
101.00	10235	186.00	71528	279.10	526	426.80	428
102.00	417	187.00	19336	282.00	293	428.50	208
103.00	3262	188.10	2399	283.10	857	429.10	251
104.00	6368	189.10	4118	284.10	706	430.20	504
105.00	5070	190.10	666	285.10	1408	431.20	302
106.10	1960	191.00	2189	286.10	354	431.80	303
107.00	79352	192.00	6114	289.10	261	432.40	227
108.00	13720	193.10	6789	290.00	444	433.30	346
109.00	2269	194.00	1200	292.00	542	433.90	262
110.00	161792	195.10	1044	293.00	2045	434.70	221
111.00	22840	196.00	15778	294.00	608	435.60	321
112.10	2566	198.00	532672	295.10	1507	436.00	343

Data File: \\SV5\C\chem\sv5.i\111910.B\DFT1119.D

Date : 19-NOV-2010 11:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1119.D
Spectrum: HP ChemStation MS DFT1119.D, Scan 311: 10.299 min.
Location of Maximum: 198.00
Number of points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	760	199.00	35040	296.00	27856	436.70	537
115.20	464	200.00	2486	297.00	4140	437.40	448
116.00	4506	201.50	2694	297.90	252	438.10	597
117.00	52408	203.00	3103	301.10	637	439.40	1164
118.10	4486	204.10	17920	302.00	608	441.00	67848
119.10	811	205.10	26840	303.10	3523	442.00	451904
120.10	1288	206.10	127000	304.10	1308	443.00	89320
120.80	373	207.10	14817	305.10	215	444.00	8260
122.00	5207	208.00	4325	308.10	496	444.90	446
123.00	7807	209.00	1590	309.00	315		
124.00	3974	210.10	2227	309.90	417		
125.00	3903	211.10	3731	311.10	222		
127.00	308416	212.10	677	312.10	214		

Due 11/12

TestAmerica West Sacramento
Organic Prep Log
8270 Solids

Box # 1110KM ECJ 11/18/10

Shared QC Batch: NA

Shares QC With: NA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	11/8/10
Inst Receipt:	

Batch: 0310100
MS Run #: 0310056
Prep Date: 11/6/2010
Method: QL 8270C
Matrix: A SOLID
Extraction: 13 SONICATION - Low Level
QC: D4 DOD QSM V4.X
SAC: QL - A - 13 - D4

CR 11-6-10
3550B
WS-OP-0001

Prep Reagents		
Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	3640-67B
DCM	Baker	~~J29E52~~ NR 11-18-10 J38E46
Na2SO4	Baker	3640-66F

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 30g nom.	Final Volume 1mL	Final Volume Other	Analysis Hold Time Expires
G0J260451 - 1		L84EX1AD	11/8/2010	29.68	✓		12/16/2010
G0J260451 - 2		L84E91AP	11/8/2010	30.21	✓		12/16/2010
G0J260451 - 3		L84FA1AP	11/8/2010	30.40	✓		12/16/2010
G0J260451 - 4		L84FD1AP	11/8/2010	30.21	✓		12/16/2010
G0J260451 - 4	S	L84FD1DQ	11/8/2010	30.20	✓		12/16/2010
G0J260451 - 4	D	L84FD1DR	11/8/2010	30.39	✓		12/16/2010
G0J260451 - 5		L84FF1AP	11/8/2010	29.62	✓		12/16/2010
~~G0J260451 - 7~~		~~L84FL1AP~~	~~11/8/2010~~	~~29.70~~			~~12/16/2010~~
G0J260451 - 8		L84FN1AP	11/8/2010	30.38		5mL	12/16/2010
G0J260451 - 9		L84FQ1AP	11/8/2010	30.38		5mL	12/16/2010
G0J260451 - 10		L84FR1AP	11/8/2010	30.11	✓		12/16/2010
G0J260451 - 11		L84FT1AP	11/8/2010	30.24		5mL	12/16/2010
G0J260451 - 12		L84FV1AP	11/8/2010	29.93	✓		12/16/2010
G0J260451 - 13		L84FW1AP	11/8/2010	29.78		5mL	12/16/2010
G0K060000 - 100	B	L9NAR1AA	11/8/2010	30.00	✓		12/16/2010
G0K060000 - 100	C	L9NAR1AC	11/8/2010	30.00	✓		12/16/2010

Lost at KP, Not on batch AM 11/18/10

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: wt sheet 101106H
Samples #8, 9, 11, 13 were brought to 5mL (final volume) because they looked dark and thick. ECJ 11/18/10 → 1mL aliquot brought over to inst. ECJ 11/18/10 ~~tint.~~

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:	
Surrogate Spike All Samples	100P0263 500mL	4/20/11	AM	BB	~~11-5-10~~	11/6/10
Spike Mix LCS/LCSD/MS/MS	100P0280 1.0mL	5/4/11	AM	BB	~~11-5-10~~	11/6/10
Internal Standard All Samples	20ml 10mISSV0438	11-19-~~10~~ 11			11-12-10	AM 11/6/10

Extraction Analyst/Date: AM 11/6/10
KD Analyst/Date: NP 11-18-10
Concentration Analyst/Date: NP/ECJ 11-18-10
KD Temp: 80-85°C
Review Analyst/Date: 11-18-10

TestAmerica

West Sacramento
Soil Weight Worksheet

Batch Id: 101106H

Created date: 11/6/2010 11:13:37

Test Date: 11/6/2010

Group Comments:

ANALYST: ZW
TEST: QL
BALANCE ID: QA-063

QuantIMS BATCH: 0310100

Sample Id:	Weight (g)	Comments:
G0J260451-001	29.68	
G0J260451-0010	30.11	
G0J260451-0011	30.24	
G0J260451-0012	29.93	
G0J260451-0013	29.78	
G0J260451-002	30.21	
G0J260451-003	30.40	
G0J260451-004	30.21	
G0J260451-004D	30.39	
G0J260451-004S	30.20	
G0J260451-005	29.62	
G0J260451-007	29.70	
G0J260451-008	30.38	
G0J260451-009	30.38	

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/18/10
Time: 18:09:11

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

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 430255 Anil Mantri

Concentrationist: 002413 Nieca Palmore
403162 erica X. larson

QC BATCH: 0310100

PREP DATE: 11/06/10 12:00
COMP DATE: 11/06/10 13:00

Reviewer/Date: LARSONE / 11/18/10

Base/Neutrals and Acids (8270C)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-001 **L84KX-1-AD**	D	13	QL	SOLID	**29.68g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-002 **L84E9-1-AP**	D	13	QL	SOLID	**30.21g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-003 **L84FA-1-AP**	D	13	QL	SOLID	**30.40g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-AP**	D	13	QL	SOLID	**30.21g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DQS**	D	13	QL	SOLID	**30.20g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0280 1.0ML QL SPIKE 100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-004 **L84FD-1-DRD**	D	13	QL	SOLID	**30.39g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0280 1.0ML QL SPIKE 100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-005 **L84FF-1-AP**	D	13	QL	SOLID	**29.62g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/18/10
Time: 18:09:11

QC BATCH: 0310100

PREP DATE: 11/06/10 12:00
COMP DATE: 11/06/10 13:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
11/08/10	11/12/10	G0J260451-008 **L84FN-1-AP**	D	13	QL	SOLID	**30.38g** 5.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-009 **L84FQ-1-AP**	D	13	QL	SOLID	**30.38g** 5.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-010 **L84FR-1-AP**	D	13	QL	SOLID	**30.11g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-011 **L84FT-1-AP**	D	13	QL	SOLID	**30.24g** 5.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-012 **L84FV-1-AP**	D	13	QL	SOLID	**29.93g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	11/12/10	G0J260451-013 **L84FW-1-AP**	D	13	QL	SOLID	**29.78g** 5.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	0/00/00	G0K060000-100 **L9NAR-1-AAB**		13	QL	SOLID	**30.00g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0263 500UL QL SURR
COMMENTS:															
11/08/10	0/00/00	G0K060000-100 **L9NAR-1-ACC**		13	QL	SOLID	**30.00g** 1.00mL	NA	NA	NA	DCM ACE	300.0		.0	100P0280 1.0ML QL SPIKE 100P0263 500UL QL SURR
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0310100 **Test:** 8270 QL

Prep Date: 11-6-10 **Holding Times:** 11/8/10 **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: [signature] Date: 11/6/10

2nd Level Reviewer: [signature] Date: 11-18-10

Comments:

TestAmerica West Sacramento

GC/MS Data Review Checklist

Batch: 0310100 **Method ID:** Base/Neutrals and Acids (8270C)

NCM: (Y) N Lot ID G0J260451

A. Instrument Performance Check	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: [signature] Date: 11/21/10

2nd Level Reviewer: [signature] Date: 11/21/10

Comments:

QA-508 12/2/2006 MAF

SOLID, 6010 & 7471, Metals

Calibration Verification Summary

TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv

Analyst: ionesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_'				1.0	11/09/10 15:50		☐
2	Calib_Std_1				1.0	11/09/10 15:54		☐
3	Calib_Std_2				1.0	11/09/10 15:56		☐
4	Calib_Std_3				1.0	11/09/10 15:59		☐
5	Calib_Std_4				1.0	11/09/10 16:03		☐
6	LR Std				1.0	11/09/10 16:06		☐
7	ICV4				1.0	11/09/10 16:11		☐
8	ICV2A				1.0	11/09/10 16:15		☐
9	ICB				1.0	11/09/10 16:21		☐
10	LL1				1.0	11/09/10 16:25		☐
11	LL2				1.0	11/09/10 16:29		☐
12	ICSA				1.0	11/09/10 16:33		☐
13	ICSAB_4.0				1.0	11/09/10 16:39		☐
14	Al 1000ppm				1.0	11/09/10 16:44		☐
15	Ca 1000ppm				1.0	11/09/10 16:51		☐
16	Fe 1000ppm				1.0	11/09/10 16:56		☐
17	Mg 1000ppm				1.0	11/09/10 17:02		☐
18	Na 500ppm				1.0	11/09/10 17:08		☐
19	CCV				1.0	11/09/10 17:12		☐
20	CCV_P_S				1.0	11/09/10 17:15		☐
21	CCB				1.0	11/09/10 17:19		☐
22	MB-LOD-LOC				1.0	11/09/10 17:23		☐
23	LCS-LOD-LO				1.0	11/09/10 17:26		☐
24	LOD-AQ-Q4				1.0	11/09/10 17:32		☐
25	LOD-Pb-AQ-(				1.0	11/09/10 17:36		☐
26	LOQ-AQ-Q4				1.0	11/09/10 17:40		☐
27	MB-LOD-LOC				1.0	11/09/10 17:46		☐
28	LCS-LOD-LO				1.0	11/09/10 17:50		☐
29	LOD-S-Q4				1.0	11/09/10 17:56		☐
30	LOD-Pb-S-Q4				1.0	11/09/10 18:00		☐
31	LOD-Sn-S-Q4				1.0	11/09/10 18:03		☐
32	CCV				1.0	11/09/10 18:09		☐
33	CCV_P_S				1.0	11/09/10 18:13		☐
34	CCB				1.0	11/09/10 18:17		☐
35	LOQ-S-Q4				1.0	11/09/10 18:21		☐
36	3861-40				1.0	11/09/10 18:25		☐
37	L89T0	G0J280601-1	0307304	46	1.0	11/09/10 18:31		☐
38	L89T0 2X	G0J280601-1	0307304	46	2.0	11/09/10 18:34		☐
39	L9CNX	G0J290609-3	0307304	46	1.0	11/09/10 18:38		☐
40	L9CNX 2X	G0J290609-3	0307304	46	2.0	11/09/10 18:42		☐
41	L89V4	G0J280605-3	0306191	46	1.0	11/09/10 18:46		☐
42	L9E0WL	G0K020000	0306191	46	1.0	11/09/10 18:50		☐
43	L9E6QB	G0K020000	0306236	46	1.0	11/09/10 18:57		☐
44	L9E6QC	G0K020000	0306236	46	1.0	11/09/10 19:01		☐
45	CCV				1.0	11/09/10 19:07		☐
46	CCV_P_S				1.0	11/09/10 19:11		☐

Method: 6010 PE ICP2 (P05) Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv Analyst: jonesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	CCB				1.0	11/09/10 19:15		☐
48	L8VDN	G0J210467-4	0306236	46	1.0	11/09/10 19:18		☐
49	L8VDNP5	G0J210467	0306236		5.0	11/09/10 19:22		☐
50	L8VDNZ	G0J210467-4	0306236		1.0	11/09/10 19:26		☐
51	L8VDNS	G0J210467-4	0306236	46	1.0	11/09/10 19:30		☐
52	L8VDND	G0J210467-4	0306236	46	1.0	11/09/10 19:33		☐
53	L8VC3	G0J210467-1	0306236	46	1.0	11/09/10 19:39		☐
54	L8VDF	G0J210467-2	0306236	46	1.0	11/09/10 19:43		☐
55	L8VDK	G0J210467-3	0306236	46	1.0	11/09/10 19:46		☐
56	L8VD2	G0J210467-5	0306236	46	1.0	11/09/10 19:50		☐
57	L8VD5	G0J210467-6	0306236	46	1.0	11/09/10 19:53		☐
58	CCV				1.0	11/09/10 19:59		☐
59	CCB				1.0	11/09/10 20:03		☐
60	L9E01B	G0K020000	0306195	46	1.0	11/09/10 20:06		☐
61	L9E01C	G0K020000	0306195	46	1.0	11/09/10 20:10		☐
62	L84FD	G0J260451-4	0306195	46	1.0	11/09/10 20:16		☐
63	L84FDP5	G0J260451	0306195		5.0	11/09/10 20:19		☐
64	L84FDZ	G0J260451-4	0306195		1.0	11/09/10 20:23		☐
65	L84FDS	G0J260451-4	0306195	46	1.0	11/09/10 20:27		☐
66	L84FDD	G0J260451-4	0306195	46	1.0	11/09/10 20:30		☐
67	L84EX	G0J260451-1	0306195	46	1.0	11/09/10 20:36		☐
68	L84E9	G0J260451-2	0306195	46	1.0	11/09/10 20:40		☐
69	L84FA	G0J260451-3	0306195	46	1.0	11/09/10 20:43		☐
70	CCV				1.0	11/09/10 20:49		☐
71	CCB				1.0	11/09/10 20:52		☐
72	L84FF	G0J260451-5	0306195	46	1.0	11/09/10 20:56		☐
73	L84FL	G0J260451-7	0306195	46	1.0	11/09/10 21:00		☐
74	L84FN	G0J260451-8	0306195	46	1.0	11/09/10 21:03		☐
75	L84FQ	G0J260451-9	0306195	46	1.0	11/09/10 21:06		☐
76	L84FR	G0J260451-10	0306195	46	1.0	11/09/10 21:10		☐
77	L84FT	G0J260451-11	0306195	46	1.0	11/09/10 21:13		☐
78	L84FV	G0J260451-12	0306195	46	1.0	11/09/10 21:17		☐
79	L84FW	G0J260451-13	0306195	46	1.0	11/09/10 21:20		☐
80	L9LDAB	G0K050000	0309194	05	1.0	11/09/10 21:26		☐
81	L9LDAC	G0K050000	0309194	05	1.0	11/09/10 21:29		☐
82	CCV				1.0	11/09/10 21:35		☐
83	CCB				1.0	11/09/10 21:39		☐
84	L9CE6	G0J290569-3	0309194	05	1.0	11/09/10 21:43		☐
85	L9CE6P5	G0J290569	0309194		5.0	11/09/10 21:47		☐
86	L9CE6Z	G0J290569-3	0309194		1.0	11/09/10 21:50		☐
87	L9CE6S	G0J290569-3	0309194	05	1.0	11/09/10 21:54		☐
88	L9CE6D	G0J290569-3	0309194	05	1.0	11/09/10 21:57		☐
89	L89PJ	G0J280596-1	0309194	05	1.0	11/09/10 22:03		☐
90	L81JK	G0J220600-1	0302164	46	5.0	11/09/10 22:08		☐
91	L81JKP25	G0J220600	0302164		25.0	11/09/10 22:12		☐
92	L81JKZ	G0J220600-1	0302164		5.0	11/09/10 22:16		☐

Method: 6010 PE ICP2 (P05) Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv Analyst: jonesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
93	L81JKS	G0J220600-1	0302164	46	5.0	11/09/10 22:20		☐
94	CCV				1.0	11/09/10 22:27		☐
95	CCB				1.0	11/09/10 22:31		☐
96	L81JKD	G0J220600-1	0302164	46	5.0	11/09/10 22:35		☐
97	L84N1	G0J260491-1	0302164	46	5.0	11/09/10 22:41		☐
98	L84PW	G0J260491-3	0302164	46	5.0	11/09/10 22:45		☐
99	L8T8NB	G0J210000	0294185	46	1.0	11/09/10 22:53		☐
100	L8T8NC	G0J210000	0294185	46	1.0	11/09/10 22:57		☐
101	L8T8NL	G0J210000	0294185	46	1.0	11/09/10 23:00		☐
102	L8L2H	G0J160466-1	0294185	46	5.0	11/09/10 23:06		☐
103	L8L2HP25	G0J160466	0294185		25.0	11/09/10 23:10		☐
104	L8L2HZ	G0J160466-1	0294185		5.0	11/09/10 23:15		☐
105	L8L2K	G0J160466-3	0294185	46	5.0	11/09/10 23:21		☐
106	CCV				1.0	11/09/10 23:29		☐
107	CCB				1.0	11/09/10 23:32		☐
108	L8Q44B	G0J200000	0293209	46	1.0	11/09/10 23:36		☐
109	L8Q44C	G0J200000	0293209	46	1.0	11/09/10 23:40		☐
110	L8JTH 5X	G0J150483-3	0293209	46	5.0	11/09/10 23:45		☐
111	L8JTHP25	G0J150483	0293209		25.0	11/09/10 23:50		☐
112	L8JTHZ 5X	G0J150483-3	0293209		5.0	11/09/10 23:54		☐
113	L8JTHS 5X	G0J150483-3	0293209	46	5.0	11/09/10 23:59		☐
114	L8JTHD 5X	G0J150483-3	0293209	46	5.0	11/10/10 00:03		☐
115	L8JRW 5X	G0J150483-1	0293209	46	5.0	11/10/10 00:10		☐
116	L8JVC 5X	G0J150483-5	0293209	46	5.0	11/10/10 00:14		☐
117	L8JV4 5X	G0J150483-7	0293209	46	5.0	11/10/10 00:19		☐
118	CCV				1.0	11/10/10 00:28		☐
119	CCB				1.0	11/10/10 00:32		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv Analyst: jonesb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
1	Calib_Blank_	11/09/10 15:50	0.0	0.0	☑
2	Calib_Std_1	11/09/10 15:54	0.0	0.0	☑
3	Calib_Std_2	11/09/10 15:56	0.0	0.0	☑
4	Calib_Std_3	11/09/10 15:59	0.0	0.0	☑
5	Calib_Std_4	11/09/10 16:03	0.0	0.0	☑
6	LR Std	11/09/10 16:06	97.9	97.0	☑
7	ICV4	11/09/10 16:11	100.6	99.7	☑
8	ICV2A	11/09/10 16:15	100.9	100.9	☑
9	ICB	11/09/10 16:21	100.7	100.6	☑
10	LL1	11/09/10 16:25	100.3	100.2	☑
11	LL2	11/09/10 16:29	100.8	99.5	☑
12	ICSA	11/09/10 16:33	90.5	97.2	☑
13	ICSAB_4.0	11/09/10 16:39	91.9	97.5	☑
14	Al 1000ppm	11/09/10 16:44	95.0	102.4	☑
15	Ca 1000ppm	11/09/10 16:51	96.1	97.7	☑
16	Fe 1000ppm	11/09/10 16:56	97.3	100.6	☑
17	Mg 1000ppm	11/09/10 17:02	95.4	97.8	☑
18	Na 500ppm	11/09/10 17:08	94.5	98.7	☑
19	CCV	11/09/10 17:12	98.5	99.2	☑
20	CCV_P_S	11/09/10 17:15	102.8	102.8	☑
21	CCB	11/09/10 17:19	98.5	99.7	☑
22	MB-LOD-LOC	11/09/10 17:23	101.7	101.7	☑
23	LCS-LOD-LO	11/09/10 17:26	99.4	101.3	☑
24	LOD-AQ-Q4	11/09/10 17:32	101.3	101.8	☑
25	LOD-Pb-AQ-(	11/09/10 17:36	101.1	102.0	☑
26	LOQ-AQ-Q4	11/09/10 17:40	101.3	101.8	☑
27	MB-LOD-LOC	11/09/10 17:46	100.2	102.0	☑
28	LCS-LOD-LO	11/09/10 17:50	102.9	102.0	☑
29	LOD-S-Q4	11/09/10 17:56	101.7	102.2	☑
30	LOD-Pb-S-Q4	11/09/10 18:00	102.0	105.3	☑
31	LOD-Sn-S-Q4	11/09/10 18:03	102.4	102.2	☑
32	CCV	11/09/10 18:09	97.8	97.6	☑
33	CCV_P_S	11/09/10 18:13	101.7	102.5	☑
34	CCB	11/09/10 18:17	101.2	99.5	☑
35	LOQ-S-Q4	11/09/10 18:21	103.3	101.6	☑
36	3861-40	11/09/10 18:25	101.9	100.3	☑
37	L89T0	11/09/10 18:31	102.0	109.3	☑
38	L89T0 2X	11/09/10 18:34	99.8	102.9	☑
39	L9CNX	11/09/10 18:38	100.1	102.6	☑
40	L9CNX 2X	11/09/10 18:42	99.5	101.0	☑
41	L89V4	11/09/10 18:46	100.2	104.9	☑
42	L9E0WL	11/09/10 18:50	99.7	101.4	☑
43	L9E6QB	11/09/10 18:57	101.6	103.4	☑
44	L9E6QC	11/09/10 19:01	99.1	102.1	☑
45	CCV	11/09/10 19:07	96.3	97.9	☑
46	CCV_P_S	11/09/10 19:11	101.2	103.6	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv Analyst: ionesb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
47	CCB	11/09/10 19:15	100.4	95.0	☑
48	L8VDN	11/09/10 19:18	98.5	104.4	☑
49	L8VDNP5	11/09/10 19:22	97.7	98.4	☑
50	L8VDNZ	11/09/10 19:26	98.3	105.4	☑
51	L8VDNS	11/09/10 19:30	99.9	107.5	☑
52	L8VDND	11/09/10 19:33	99.6	108.7	☑
53	L8VC3	11/09/10 19:39	102.9	109.7	☑
54	L8VDF	11/09/10 19:43	105.7	110.4	☑
55	L8VDK	11/09/10 19:46	101.3	108.4	☑
56	L8VD2	11/09/10 19:50	103.2	110.4	☑
57	L8VD5	11/09/10 19:53	98.4	105.1	☑
58	CCV	11/09/10 19:59	96.4	100.2	☑
59	CCB	11/09/10 20:03	99.5	103.3	☑
60	L9E01B	11/09/10 20:06	102.9	105.6	☑
61	L9E01C	11/09/10 20:10	100.2	101.7	☑
62	L84FD	11/09/10 20:16	99.6	107.4	☑
63	L84FDP5	11/09/10 20:19	99.0	103.8	☑
64	L84FDZ	11/09/10 20:23	99.2	107.5	☑
65	L84FDS	11/09/10 20:27	100.1	109.0	☑
66	L84FDD	11/09/10 20:30	99.8	108.9	☑
67	L84EX	11/09/10 20:36	98.9	106.7	☑
68	L84E9	11/09/10 20:40	99.7	108.6	☑
69	L84FA	11/09/10 20:43	100.3	109.1	☑
70	CCV	11/09/10 20:49	97.9	102.8	☑
71	CCB	11/09/10 20:52	99.5	107.0	☑
72	L84FF	11/09/10 20:56	100.3	110.0	☑
73	L84FL	11/09/10 21:00	98.6	106.0	☑
74	L84FN	11/09/10 21:03	98.2	108.2	☑
75	L84FQ	11/09/10 21:06	100.1	109.3	☑
76	L84FR	11/09/10 21:10	100.9	110.1	☑
77	L84FT	11/09/10 21:13	99.6	109.9	☑
78	L84FV	11/09/10 21:17	100.9	112.3	☑
79	L84FW	11/09/10 21:20	100.9	111.5	☑
80	L9LDAB	11/09/10 21:26	101.9	110.0	☑
81	L9LDAC	11/09/10 21:29	99.6	106.4	☑
82	CCV	11/09/10 21:35	98.6	102.5	☑
83	CCB	11/09/10 21:39	98.5	106.7	☑
84	L9CE6	11/09/10 21:43	90.2	102.0	☑
85	L9CE6P5	11/09/10 21:47	93.7	103.4	☑
86	L9CE6Z	11/09/10 21:50	88.5	101.7	☑
87	L9CE6S	11/09/10 21:54	89.2	101.5	☑
88	L9CE6D	11/09/10 21:57	89.5	101.3	☑
89	L89PJ	11/09/10 22:03	82.0	105.0	☑
90	L81JK	11/09/10 22:08	99.8	107.0	☑
91	L81JKP25	11/09/10 22:12	100.4	105.3	☑
92	L81JKZ	11/09/10 22:16	98.8	105.1	☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv Analyst: jonesb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
93	L81JKS	11/09/10 22:20	97.4	103.9	☑
94	CCV	11/09/10 22:27	97.3	94.0	☑
95	CCB	11/09/10 22:31	97.6	103.0	☑
96	L81JKD	11/09/10 22:35	97.4	102.9	☑
97	L84N1	11/09/10 22:41	98.8	101.2	☑
98	L84PW	11/09/10 22:45	98.8	103.5	☑
99	L8T8NB	11/09/10 22:53	100.6	107.0	☑
100	L8T8NC	11/09/10 22:57	100.1	106.5	☑
101	L8T8NL	11/09/10 23:00	95.7	99.4	☑
102	L8L2H	11/09/10 23:06	98.5	103.0	☑
103	L8L2HP25	11/09/10 23:10	98.0	101.8	☑
104	L8L2HZ	11/09/10 23:15	97.6	99.3	☑
105	L8L2K	11/09/10 23:21	98.0	103.7	☑
106	CCV	11/09/10 23:29	96.1	101.1	☑
107	CCB	11/09/10 23:32	97.7	97.1	☑
108	L8Q44B	11/09/10 23:36	102.2	103.9	☑
109	L8Q44C	11/09/10 23:40	98.9	103.4	☑
110	L8JTH 5X	11/09/10 23:45	97.1	101.9	☑
111	L8JTHP25	11/09/10 23:50	99.0	102.3	☑
112	L8JTHZ 5X	11/09/10 23:54	98.0	103.8	☑
113	L8JTHS 5X	11/09/10 23:59	98.6	102.3	☑
114	L8JTHD 5X	11/10/10 00:03	97.6	94.9	☑
115	L8JRW 5X	11/10/10 00:10	98.0	104.4	☑
116	L8JVC 5X	11/10/10 00:14	97.6	101.8	☑
117	L8JV4 5X	11/10/10 00:19	97.9	101.9	☑
118	CCV	11/10/10 00:28	96.2	99.9	☑
119	CCB	11/10/10 00:32	98.7	101.3	☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:48:45

Method: 6010 **Instrument: PE ICP2** **Batch: NOV0910AX2.csv**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV4	ICV	NOV0910AX2.csv, 7	11/09/2010 16:11:54	☐
ICV2A	ICV	NOV0910AX2.csv, 8	11/09/2010 16:15:47	☐
ICB	ICB	NOV0910AX2.csv, 9	11/09/2010 16:21:58	☐
ICSA	ICSA	NOV0910AX2.csv, 12	11/09/2010 16:33:23	☐
ICSAB_4.0	ICSAB	NOV0910AX2.csv, 13	11/09/2010 16:39:08	☐
CCV	CCV	NOV0910AX2.csv, 19	11/09/2010 17:12:13	☐
CCV_P_S	CCV	NOV0910AX2.csv, 20	11/09/2010 17:15:36	☐
CCB	CCB	NOV0910AX2.csv, 21	11/09/2010 17:19:23	☐
CCV	CCV	NOV0910AX2.csv, 32	11/09/2010 18:09:53	☐
CCV_P_S	CCV	NOV0910AX2.csv, 33	11/09/2010 18:13:49	☐
CCB	CCB	NOV0910AX2.csv, 34	11/09/2010 18:17:37	☐
CCV	CCV	NOV0910AX2.csv, 45	11/09/2010 19:07:20	☐
CCV_P_S	CCV	NOV0910AX2.csv, 46	11/09/2010 19:11:16	☐
CCB	CCB	NOV0910AX2.csv, 47	11/09/2010 19:15:03	☐
CCV	CCV	NOV0910AX2.csv, 58	11/09/2010 19:59:42	☐
CCB	CCB	NOV0910AX2.csv, 59	11/09/2010 20:03:02	☐
CCV	CCV	NOV0910AX2.csv, 70	11/09/2010 20:49:22	☐
CCB	CCB	NOV0910AX2.csv, 71	11/09/2010 20:52:42	☐
CCV	CCV	NOV0910AX2.csv, 82	11/09/2010 21:35:30	☐
CCB	CCB	NOV0910AX2.csv, 83	11/09/2010 21:39:27	☐
CCV	CCV	NOV0910AX2.csv, 94	11/09/2010 22:27:42	☐
CCB	CCB	NOV0910AX2.csv, 95	11/09/2010 22:31:40	☐
CCV	CCV	NOV0910AX2.csv, 106	11/09/2010 23:29:14	☐
CCB	CCB	NOV0910AX2.csv, 107	11/09/2010 23:32:34	☐
CCV	CCV	NOV0910AX2.csv, 118	11/10/2010 00:28:50	☐
CCB	CCB	NOV0910AX2.csv, 119	11/10/2010 00:32:47	☐

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:48:45

Department: 120 (Metals) | Source: OPTIMA

Sample: **ICV4 (ICV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 7 | Method 6010O
Acquired: 11/09/2010 16:11:54 | PE ICP2
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.24842	0.25000	99.4	☑
7440-38-2	Arsenic		0.24300	0.25000	97.2	☑
7440-42-8	Boron		0.48980	0.50000	98.0	☑
7440-39-3	Barium		0.98388	1.0000	98.4	☑
7440-70-2	Calcium		10.317	10.000	103	☑
7440-47-3	Chromium		0.99003	1.0000	99.0	☑
7440-50-8	Copper		0.96587	1.0000	96.6	☑
7440-09-7	Potassium		9.1891	10.000	91.9	☑
7439-93-2	Lithium		1.1885	1.0000	119	☐
7439-95-4	Magnesium		10.449	10.000	104	☑
7439-96-5	Manganese		1.0368	1.0000	104	☑
7439-98-7	Molybdenum		0.49166	0.50000	98.3	☑
7440-02-0	Nickel		0.99046	1.0000	99.0	☑
7439-92-1	Lead		0.24715	0.25000	98.9	☑
7440-36-0	Antimony		0.25368	0.25000	101	☑
7782-49-2	Selenium		0.25127	0.25000	101	☑
7440-21-3	Silicon		0.97160		*	
7440-31-5	Tin		0.98315	1.0000	98.3	☑
7440-28-0	Thallium		0.26338	0.25000	105	☑
7440-66-6	Zinc		0.97669	1.0000	97.7	☑
7429-90-5	Aluminum		10.210	10.000	102	☑
7440-41-7	Beryllium		0.25164	0.25000	101	☑
7440-43-9	Cadmium		0.24879	0.25000	99.5	☑
7440-48-4	Cobalt		0.98056	1.0000	98.1	☑
7439-89-6	Iron		10.171	10.000	102	☑
7439-89-6	Iron		10.497	10.000	105	☑
7440-23-5	Sodium		9.8974	10.000	99.0	☑
7440-23-5	Sodium		13.328	10.000	133	☑
7723-14-0	Phosphorus		0.95760	1.0000	95.8	☑
7723-14-0	Phosphorus		0.96703	1.0000	96.7	☑
7704-34-9	Sulfur		0.44120		*	
7704-34-9	Sulfur		0.66936		*	
7704-34-9	Sulfur		0.30868		*	
7704-34-9	Sulfur		0.63196		*	
7440-21-3	Silicon		1.0394		*	
7440-24-6	Strontium		0.94213	1.0000	94.2	☑
7440-24-6	Strontium		1.0092	1.0000	101	☑
7440-32-6	Titanium		0.51053	0.50000	102	☑
7440-32-6	Titanium		0.50692	0.50000	101	☑
7440-62-2	Vanadium		0.97585	1.0000	97.6	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		100.56	☑
R7440655	Y_ Radial		99.729	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:48:45

Department: 120 (Metals) | Source: OPTIMA

Sample: **ICV2A (ICV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 8 | Method 6010O
Acquired: 11/09/2010 16:15:47 | PE ICP2
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.00045		*	
7440-38-2	Arsenic		-0.01454		*	
7440-42-8	Boron		0.00888		*	
7440-39-3	Barium		0.00025		*	
7440-70-2	Calcium		0.00493		*	
7440-47-3	Chromium		0.00019		*	
7440-50-8	Copper		0.00093		*	
7440-09-7	Potassium		0.29870		*	
7439-93-2	Lithium		-0.01070		*	
7439-95-4	Magnesium		0.00287		*	
7439-96-5	Manganese		0.00044		*	
7439-98-7	Molybdenum		0.00040		*	
7440-02-0	Nickel		-0.00038		*	
7439-92-1	Lead		-0.00105		*	
7440-36-0	Antimony		0.23777	0.25000	95.1	☑
7782-49-2	Selenium		0.00025		*	
7440-21-3	Silicon		0.97210	1.0000	97.2	☑
7440-31-5	Tin		0.00141		*	
7440-28-0	Thallium		-0.00503		*	
7440-66-6	Zinc		0.00187		*	
7429-90-5	Aluminum		0.03567		*	
7440-41-7	Beryllium		0.00027		*	
7440-43-9	Cadmium		0.00013		*	
7440-48-4	Cobalt		0.00119		*	
7439-89-6	Iron		0.00471		*	
7439-89-6	Iron		0.00917		*	
7440-23-5	Sodium		25.021	25.000	100	☑
7440-23-5	Sodium		26.112	25.000	104	☑
7723-14-0	Phosphorus		1.9730	2.0000	98.6	☑
7723-14-0	Phosphorus		1.9721	2.0000	98.6	☑
7704-34-9	Sulfur		1.9340	2.0000	96.7	☑
7704-34-9	Sulfur		2.1460	2.0000	107	☑
7704-34-9	Sulfur		1.9962	2.0000	99.8	☑
7704-34-9	Sulfur		2.1822	2.0000	109	☑
7440-21-3	Silicon		0.95561	1.0000	95.6	☑
7440-24-6	Strontium		0.22983		*	
7440-24-6	Strontium		0.00061		*	
7440-32-6	Titanium		0.00062		*	
7440-32-6	Titanium		0.00447		*	
7440-62-2	Vanadium		0.00019		*	

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		100.91	☑
R7440655	Y_ Radial		100.93	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 9 Method 6010O
Acquired: 11/09/2010 16:21:58 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00048	0.0050	0.0010	0.00022	☑
7440-38-2	Arsenic		-0.00875	0.010	0.0070	0.00093	☑
7440-42-8	Boron		0.00190	0.10	0.010	0.00020	☑
7440-39-3	Barium		0.00004	0.0050	0.0040	0.00012	☑
7440-70-2	Calcium		0.00095	0.50	0.10	0.0059	☑
7440-47-3	Chromium		0.00025	0.0050	0.0040	0.00032	☑
7440-50-8	Copper		0.00032	0.0050	0.0050	0.00048	☑
7440-09-7	Potassium		-0.08599	1.0	0.25	0.028	☑
7439-93-2	Lithium		-0.00041	0.010	0.0060	0.012	☑
7439-95-4	Magnesium		0.00051	0.50	0.075	0.0048	☑
7439-96-5	Manganese		0.00050	0.0050	0.0010	0.00035	☑
7439-98-7	Molybdenum		0.00045	0.010	0.010	0.00059	☑
7440-02-0	Nickel		-0.00015	0.0050	0.0030	0.00043	☑
7439-92-1	Lead		0.00053	0.0030	0.0030	0.00047	☑
7440-36-0	Antimony		0.00207	0.010	0.0050	0.0030	☑
7782-49-2	Selenium		0.00434	0.0050	0.0070	0.0058	☐
7440-21-3	Silicon		0.00682	0.10	0.0050	0.00046	☐
7440-31-5	Tin		0.00153	0.020	0.012	0.0012	☑
7440-28-0	Thallium		0.00214	0.010	0.0050	0.0042	☑
7440-66-6	Zinc		0.00012	0.0050	0.0070	0.00042	☑
7429-90-5	Aluminum		-0.01981	0.10	0.035	0.015	☑
7440-41-7	Beryllium		0.00033	0.0020	0.0010	0.00016	☑
7440-43-9	Cadmium		0.00006	0.0020	0.0010	0.000021	☑
7440-48-4	Cobalt		0.00020	0.0050	0.0020	0.00088	☑
7439-89-6	Iron		0.00115	0.050	0.016	0.00055	☑
7439-89-6	Iron		0.00372	0.050	0.016	0.0030	☑
7440-23-5	Sodium		0.02597	0.50	0.25	0.00043	☑
7440-23-5	Sodium		-2.0702	0.50	0.25	0.94	☐
7723-14-0	Phosphorus		-0.00435	0.30	0.013	0.00080	☑
7723-14-0	Phosphorus		-0.00263	0.30	0.013	0.0023	☑
7704-34-9	Sulfur		-0.02196	0.10	0.074	0.0097	☑
7704-34-9	Sulfur		0.26488	0.10	0.074	0.16	☐
7704-34-9	Sulfur		0.00928	0.10	0.074	0.0044	☑
7704-34-9	Sulfur		0.30672	0.10	0.074	0.050	☐
7440-21-3	Silicon		-0.00935	0.10	0.0050	0.0011	☑
7440-24-6	Strontium		0.08616	0.050	0.0050	0.0040	☐
7440-24-6	Strontium		0.00006	0.050	0.0050	0.00021	☑
7440-32-6	Titanium		-0.00000	0.010	0.0030	0.00034	☑
7440-32-6	Titanium		0.00459	0.010	0.0030	0.0029	☐
7440-62-2	Vanadium		-0.00015	0.0050	0.0020	0.00060	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		100.72	☑
R7440655	Y_ Radial		100.56	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 12 Method 6010O
Acquired: 11/09/2010 16:33:23 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		-0.00079		*	☑
7440-38-2	Arsenic		0.00315		*	☑
7440-42-8	Boron		-0.00822		*	☑
7440-39-3	Barium		0.00254		*	☑
7440-70-2	Calcium		488.22	500.00	97.6	☑
7440-47-3	Chromium		0.00372		*	☑
7440-50-8	Copper		-0.00075		*	☑
7440-09-7	Potassium		-0.26990		*	☑
7439-93-2	Lithium		-0.00196		*	☑
7439-95-4	Magnesium		488.60	500.00	97.7	☑
7439-96-5	Manganese		-0.00020		*	☑
7439-98-7	Molybdenum		0.00433		*	☑
7440-02-0	Nickel		0.00129		*	☑
7439-92-1	Lead		-0.00138		*	☑
7440-36-0	Antimony		0.00048		*	☑
7782-49-2	Selenium		0.00536		*	
7440-21-3	Silicon		0.03413		*	☑
7440-31-5	Tin		0.00556		*	☑
7440-28-0	Thallium		-0.00395		*	☑
7440-66-6	Zinc		0.00054		*	☑
7429-90-5	Aluminum		491.59	500.00	98.3	☑
7440-41-7	Beryllium		0.00028		*	☑
7440-43-9	Cadmium		0.00025		*	☑
7440-48-4	Cobalt		-0.00198		*	☑
7439-89-6	Iron		195.57	200.00	97.8	☑
7439-89-6	Iron		196.37	200.00	98.2	☑
7440-23-5	Sodium		-0.01476		*	☑
7440-23-5	Sodium		-1.6859		*	☑
7723-14-0	Phosphorus		-0.08875		*	☑
7723-14-0	Phosphorus		0.03124		*	☑
7704-34-9	Sulfur		2.5509		*	
7704-34-9	Sulfur		6.4742		*	
7704-34-9	Sulfur		1.1110		*	
7704-34-9	Sulfur		-1.2348		*	☑
7440-21-3	Silicon		0.05097		*	☑
7440-24-6	Strontium		0.09977		*	
7440-24-6	Strontium		0.02741		*	☑
7440-32-6	Titanium		0.00309		*	☑
7440-32-6	Titanium		0.00105		*	☑
7440-62-2	Vanadium		0.00209		*	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		90.538	☑
R7440655	Y_ Radial		97.232	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:48:45

Department: 120 (Metals) | Source: OPTIMA

Sample: **ICSAB_4.0** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 13 | Method 6010O
Acquired: 11/09/2010 16:39:08 | PE ICP2
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.21233	0.20000	106	☑
7440-38-2	Arsenic		0.11629	0.10000	116	☑
7440-42-8	Boron		-0.01065		*	
7440-39-3	Barium		0.45879	0.50000	91.8	☑
7440-70-2	Calcium		491.78	500.00	98.4	☑
7440-47-3	Chromium		0.49441	0.50000	98.9	☑
7440-50-8	Copper		0.52072	0.50000	104	☑
7440-09-7	Potassium		-0.29132		*	
7439-93-2	Lithium		-0.00322		*	
7439-95-4	Magnesium		490.28	500.00	98.1	☑
7439-96-5	Manganese		0.48464	0.50000	96.9	☑
7439-98-7	Molybdenum		0.00589		*	
7440-02-0	Nickel		0.94886	1.0000	94.9	☑
7439-92-1	Lead		0.04058	0.050000	81.2	☑
7440-36-0	Antimony		0.60793	0.60000	101	☑
7782-49-2	Selenium		0.04009	0.050000	80.2	☑
7440-21-3	Silicon		0.03234		*	
7440-31-5	Tin		0.00513		*	
7440-28-0	Thallium		0.08844	0.10000	88.4	☑
7440-66-6	Zinc		0.92982	1.0000	93.0	☑
7429-90-5	Aluminum		493.56	500.00	98.7	☑
7440-41-7	Beryllium		0.49047	0.50000	98.1	☑
7440-43-9	Cadmium		0.96210	1.0000	96.2	☑
7440-48-4	Cobalt		0.47838	0.50000	95.7	☑
7439-89-6	Iron		194.68	200.00	97.3	☑
7439-89-6	Iron		197.36	200.00	98.7	☑
7440-23-5	Sodium		-0.03198		*	
7440-23-5	Sodium		2.7460		*	
7723-14-0	Phosphorus		-0.09894		*	
7723-14-0	Phosphorus		0.02634		*	
7704-34-9	Sulfur		2.1971		*	
7704-34-9	Sulfur		6.0525		*	
7704-34-9	Sulfur		1.0856		*	
7704-34-9	Sulfur		-1.4871		*	
7440-21-3	Silicon		0.05566		*	
7440-24-6	Strontium		0.03921		*	
7440-24-6	Strontium		0.02745		*	
7440-32-6	Titanium		0.00233		*	
7440-32-6	Titanium		-0.00397		*	
7440-62-2	Vanadium		0.49615	0.50000	99.2	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		91.935	☑
R7440655	Y_ Radial		97.549	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 19 Method 6010O
Acquired: 11/09/2010 17:12:13 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.49171	0.50000	98.3	☑
7440-38-2	Arsenic		0.49519	0.50000	99.0	☑
7440-42-8	Boron		0.95073	1.0000	95.1	☑
7440-39-3	Barium		2.4899	2.5000	99.6	☑
7440-70-2	Calcium		25.536	25.000	102	☑
7440-47-3	Chromium		2.4813	2.5000	99.3	☑
7440-50-8	Copper		2.4513	2.5000	98.1	☑
7440-09-7	Potassium		23.473	25.000	93.9	☑
7439-93-2	Lithium		2.4696	2.5000	98.8	☑
7439-95-4	Magnesium		25.584	25.000	102	☑
7439-96-5	Manganese		2.5262	2.5000	101	☑
7439-98-7	Molybdenum		1.0065	1.0000	101	☑
7440-02-0	Nickel		2.4953	2.5000	99.8	☑
7439-92-1	Lead		0.50097	0.50000	100	☑
7440-36-0	Antimony		0.49875	0.50000	99.7	☑
7782-49-2	Selenium		0.51774	0.50000	104	☑
7440-21-3	Silicon		2.5160	2.5000	101	☑
7440-31-5	Tin		2.4844	2.5000	99.4	☑
7440-28-0	Thallium		0.54196	0.50000	108	☑
7440-66-6	Zinc		2.4923	2.5000	99.7	☑
7429-90-5	Aluminum		25.153	25.000	101	☑
7440-41-7	Beryllium		0.50215	0.50000	100	☑
7440-43-9	Cadmium		0.49272	0.50000	98.5	☑
7440-48-4	Cobalt		2.4952	2.5000	99.8	☑
7439-89-6	Iron		25.126	25.000	101	☑
7439-89-6	Iron		25.542	25.000	102	☑
7440-23-5	Sodium		24.813	25.000	99.3	☑
7440-23-5	Sodium		32.888	25.000	132	☑
7723-14-0	Phosphorus		2.4454	2.5000	97.8	☑
7723-14-0	Phosphorus		2.5185	2.5000	101	☑
7704-34-9	Sulfur		3.4948	25.000	14.0	☐
7704-34-9	Sulfur		3.9302	25.000	15.7	☐
7704-34-9	Sulfur		3.1178	25.000	12.5	☐
7704-34-9	Sulfur		3.9148	25.000	15.7	☐
7440-21-3	Silicon		2.6191	2.5000	105	☑
7440-24-6	Strontium		2.4960	2.5000	99.8	☑
7440-24-6	Strontium		2.4939	2.5000	99.8	☑
7440-32-6	Titanium		0.99538	1.0000	99.5	☑
7440-32-6	Titanium		0.98496	1.0000	98.5	☑
7440-62-2	Vanadium		2.4695	2.5000	98.8	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.521	☑
R7440655	Y_ Radial		99.220	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV_P_S (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 20 Method 6010O
Acquired: 11/09/2010 17:15:36 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.00034		*	
7440-38-2	Arsenic		-0.01292		*	
7440-42-8	Boron		0.00899		*	
7440-39-3	Barium		-0.00015		*	
7440-70-2	Calcium		0.00162		*	
7440-47-3	Chromium		0.00037		*	
7440-50-8	Copper		-0.00021		*	
7440-09-7	Potassium		-0.15868		*	
7439-93-2	Lithium		0.00223		*	
7439-95-4	Magnesium		0.02941		*	
7439-96-5	Manganese		0.00059		*	
7439-98-7	Molybdenum		0.00111		*	
7440-02-0	Nickel		-0.00192		*	
7439-92-1	Lead		-0.00229		*	
7440-36-0	Antimony		-0.00018		*	
7782-49-2	Selenium		0.00364		*	
7440-21-3	Silicon		0.00304		*	
7440-31-5	Tin		-0.00042		*	
7440-28-0	Thallium		0.00471		*	
7440-66-6	Zinc		-0.00033		*	
7429-90-5	Aluminum		-0.01079		*	
7440-41-7	Beryllium		0.00038		*	
7440-43-9	Cadmium		-0.00001		*	
7440-48-4	Cobalt		0.00195		*	
7439-89-6	Iron		0.00622		*	
7439-89-6	Iron		0.01343		*	
7440-23-5	Sodium		0.04193		*	
7440-23-5	Sodium		-3.3675		*	
7723-14-0	Phosphorus		23.115		*	
7723-14-0	Phosphorus		23.829		*	
7704-34-9	Sulfur		23.220		*	
7704-34-9	Sulfur		23.955		*	
7704-34-9	Sulfur		23.401		*	
7704-34-9	Sulfur		24.089		*	
7440-21-3	Silicon		-0.01335		*	
7440-24-6	Strontium		0.07728		*	
7440-24-6	Strontium		-0.00009		*	
7440-32-6	Titanium		0.00014		*	
7440-32-6	Titanium		0.00289		*	
7440-62-2	Vanadium		0.00125		*	

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		102.80	☑
R7440655	Y_ Radial		102.75	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 21 Method 6010O
Acquired: 11/09/2010 17:19:23 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00090	0.0050	0.0010	0.00022	☑
7440-38-2	Arsenic		-0.00213	0.010	0.0070	0.0055	☑
7440-42-8	Boron		0.00306	0.10	0.010	0.00074	☑
7440-39-3	Barium		0.00022	0.0050	0.0040	0.0000020	☑
7440-70-2	Calcium		0.00530	0.50	0.10	0.00049	☑
7440-47-3	Chromium		0.00056	0.0050	0.0040	0.00046	☑
7440-50-8	Copper		0.00109	0.0050	0.0050	0.00039	☑
7440-09-7	Potassium		-0.12052	1.0	0.25	0.041	☑
7439-93-2	Lithium		-0.00202	0.010	0.0060	0.0031	☑
7439-95-4	Magnesium		-0.00052	0.50	0.075	0.038	☑
7439-96-5	Manganese		0.00048	0.0050	0.0010	0.00017	☑
7439-98-7	Molybdenum		0.00098	0.010	0.010	0.00049	☑
7440-02-0	Nickel		0.00097	0.0050	0.0030	0.00017	☑
7439-92-1	Lead		0.00148	0.0030	0.0030	0.00020	☑
7440-36-0	Antimony		0.00336	0.010	0.0050	0.0013	☐
7782-49-2	Selenium		0.00577	0.0050	0.0070	0.0024	☐
7440-21-3	Silicon		0.00508	0.10	0.0050	0.00027	☐
7440-31-5	Tin		0.00329	0.020	0.012	0.00097	☑
7440-28-0	Thallium		0.01092	0.010	0.0050	0.0019	☐
7440-66-6	Zinc		0.00037	0.0050	0.0070	0.000097	☑
7429-90-5	Aluminum		-0.01991	0.10	0.035	0.0094	☑
7440-41-7	Beryllium		0.00015	0.0020	0.0010	0.000077	☑
7440-43-9	Cadmium		-0.00007	0.0020	0.0010	0.00012	☑
7440-48-4	Cobalt		-0.00074	0.0050	0.0020	0.00011	☑
7439-89-6	Iron		-0.00188	0.050	0.016	0.00072	☑
7439-89-6	Iron		0.00534	0.050	0.016	0.00018	☑
7440-23-5	Sodium		0.06268	0.50	0.25	0.013	☑
7440-23-5	Sodium		-3.9084	0.50	0.25	0.94	☐
7723-14-0	Phosphorus		-0.00251	0.30	0.013	0.0053	☑
7723-14-0	Phosphorus		-0.00396	0.30	0.013	0.0058	☑
7704-34-9	Sulfur		0.02391	0.10	0.074	0.033	☑
7704-34-9	Sulfur		0.16600	0.10	0.074	0.65	☐
7704-34-9	Sulfur		0.02102	0.10	0.074	0.0066	☑
7704-34-9	Sulfur		0.15469	0.10	0.074	0.13	☐
7440-21-3	Silicon		0.01070	0.10	0.0050	0.010	☐
7440-24-6	Strontium		0.05788	0.050	0.0050	0.012	☐
7440-24-6	Strontium		0.00005	0.050	0.0050	0.000040	☑
7440-32-6	Titanium		0.00012	0.010	0.0030	0.00097	☑
7440-32-6	Titanium		0.00419	0.010	0.0030	0.0019	☐
7440-62-2	Vanadium		-0.00064	0.0050	0.0020	0.00023	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.459	☑
R7440655	Y_ Radial		99.683	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 32 Method 6010O
Acquired: 11/09/2010 18:09:53 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.50078	0.50000	100	☑
7440-38-2	Arsenic		0.49702	0.50000	99.4	☑
7440-42-8	Boron		0.94879	1.0000	94.9	☑
7440-39-3	Barium		2.4856	2.5000	99.4	☑
7440-70-2	Calcium		25.708	25.000	103	☑
7440-47-3	Chromium		2.4696	2.5000	98.8	☑
7440-50-8	Copper		2.4648	2.5000	98.6	☑
7440-09-7	Potassium		23.619	25.000	94.5	☑
7439-93-2	Lithium		2.4736	2.5000	98.9	☑
7439-95-4	Magnesium		26.088	25.000	104	☑
7439-96-5	Manganese		2.5820	2.5000	103	☑
7439-98-7	Molybdenum		1.0098	1.0000	101	☑
7440-02-0	Nickel		2.4781	2.5000	99.1	☑
7439-92-1	Lead		0.49955	0.50000	99.9	☑
7440-36-0	Antimony		0.50438	0.50000	101	☑
7782-49-2	Selenium		0.49533	0.50000	99.1	☑
7440-21-3	Silicon		2.5143	2.5000	101	☑
7440-31-5	Tin		2.5019	2.5000	100	☑
7440-28-0	Thallium		0.52577	0.50000	105	☑
7440-66-6	Zinc		2.4824	2.5000	99.3	☑
7429-90-5	Aluminum		25.350	25.000	101	☑
7440-41-7	Beryllium		0.50008	0.50000	100	☑
7440-43-9	Cadmium		0.49598	0.50000	99.2	☑
7440-48-4	Cobalt		2.4844	2.5000	99.4	☑
7439-89-6	Iron		25.184	25.000	101	☑
7439-89-6	Iron		26.098	25.000	104	☑
7440-23-5	Sodium		24.913	25.000	99.7	☑
7440-23-5	Sodium		33.733	25.000	135	☑
7723-14-0	Phosphorus		2.4028	2.5000	96.1	☑
7723-14-0	Phosphorus		2.5147	2.5000	101	☑
7704-34-9	Sulfur		3.5393	25.000	14.2	☐
7704-34-9	Sulfur		3.3624	25.000	13.4	☐
7704-34-9	Sulfur		3.1340	25.000	12.5	☐
7704-34-9	Sulfur		3.7160	25.000	14.9	☐
7440-21-3	Silicon		2.6752	2.5000	107	☑
7440-24-6	Strontium		2.5127	2.5000	101	☑
7440-24-6	Strontium		2.5110	2.5000	100	☑
7440-32-6	Titanium		1.0166	1.0000	102	☑
7440-32-6	Titanium		1.0002	1.0000	100	☑
7440-62-2	Vanadium		2.4916	2.5000	99.7	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.846	☑
R7440655	Y_ Radial		97.623	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV_P_S (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 33 Method 6010O
Acquired: 11/09/2010 18:13:49 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		-0.00021		*	
7440-38-2	Arsenic		-0.01074		*	
7440-42-8	Boron		0.00813		*	
7440-39-3	Barium		-0.00004		*	
7440-70-2	Calcium		0.00314		*	
7440-47-3	Chromium		0.00068		*	
7440-50-8	Copper		-0.00007		*	
7440-09-7	Potassium		-0.17292		*	
7439-93-2	Lithium		0.00122		*	
7439-95-4	Magnesium		-0.00287		*	
7439-96-5	Manganese		0.00042		*	
7439-98-7	Molybdenum		0.00052		*	
7440-02-0	Nickel		-0.00177		*	
7439-92-1	Lead		-0.00277		*	
7440-36-0	Antimony		-0.00339		*	
7782-49-2	Selenium		0.00241		*	
7440-21-3	Silicon		0.00678		*	
7440-31-5	Tin		0.00041		*	
7440-28-0	Thallium		0.00508		*	
7440-66-6	Zinc		-0.00035		*	
7429-90-5	Aluminum		-0.03029		*	
7440-41-7	Beryllium		0.00029		*	
7440-43-9	Cadmium		0.00002		*	
7440-48-4	Cobalt		0.00172		*	
7439-89-6	Iron		0.00530		*	
7439-89-6	Iron		0.01208		*	
7440-23-5	Sodium		-0.01421		*	
7440-23-5	Sodium		-1.4339		*	
7723-14-0	Phosphorus		24.353		*	
7723-14-0	Phosphorus		23.765		*	
7704-34-9	Sulfur		22.982		*	
7704-34-9	Sulfur		23.813		*	
7704-34-9	Sulfur		23.461		*	
7704-34-9	Sulfur		23.461		*	
7440-21-3	Silicon		-0.01315		*	
7440-24-6	Strontium		0.03764		*	
7440-24-6	Strontium		0.00012		*	
7440-32-6	Titanium		-0.00130		*	
7440-32-6	Titanium		-0.00240		*	
7440-62-2	Vanadium		-0.00042		*	

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		101.72	☑
R7440655	Y_ Radial		102.46	☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 34 Method 6010O
Acquired: 11/09/2010 18:17:37 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00008	0.0050	0.0010	0.00015	☑
7440-38-2	Arsenic		-0.01269	0.010	0.0070	0.0018	☑
7440-42-8	Boron		0.00595	0.10	0.010	0.00052	☑
7440-39-3	Barium		-0.00015	0.0050	0.0040	0.000018	☑
7440-70-2	Calcium		0.00796	0.50	0.10	0.0036	☑
7440-47-3	Chromium		0.00010	0.0050	0.0040	0.00050	☑
7440-50-8	Copper		-0.00013	0.0050	0.0050	0.000010	☑
7440-09-7	Potassium		-0.13972	1.0	0.25	0.0075	☑
7439-93-2	Lithium		-0.00251	0.010	0.0060	0.0076	☑
7439-95-4	Magnesium		-0.00418	0.50	0.075	0.0074	☑
7439-96-5	Manganese		0.00017	0.0050	0.0010	0.00050	☑
7439-98-7	Molybdenum		0.00065	0.010	0.010	0.00023	☑
7440-02-0	Nickel		-0.00168	0.0050	0.0030	0.00056	☑
7439-92-1	Lead		-0.00299	0.0030	0.0030	0.00048	☑
7440-36-0	Antimony		-0.00293	0.010	0.0050	0.00018	☑
7782-49-2	Selenium		0.00242	0.0050	0.0070	0.0033	☑
7440-21-3	Silicon		0.00195	0.10	0.0050	0.00051	☑
7440-31-5	Tin		-0.00135	0.020	0.012	0.0011	☑
7440-28-0	Thallium		0.00704	0.010	0.0050	0.0011	☐
7440-66-6	Zinc		-0.00059	0.0050	0.0070	0.00036	☑
7429-90-5	Aluminum		-0.01490	0.10	0.035	0.015	☑
7440-41-7	Beryllium		0.00029	0.0020	0.0010	0.00014	☑
7440-43-9	Cadmium		-0.00006	0.0020	0.0010	0.000075	☑
7440-48-4	Cobalt		0.00143	0.0050	0.0020	0.00064	☐
7439-89-6	Iron		0.00063	0.050	0.016	0.00057	☑
7439-89-6	Iron		-0.00047	0.050	0.016	0.0038	☑
7440-23-5	Sodium		0.01373	0.50	0.25	0.021	☑
7440-23-5	Sodium		0.16173	0.50	0.25	2.4	☑
7723-14-0	Phosphorus		-0.00621	0.30	0.013	0.0014	☑
7723-14-0	Phosphorus		-0.01211	0.30	0.013	0.0027	☑
7704-34-9	Sulfur		0.03042	0.10	0.074	0.030	☑
7704-34-9	Sulfur		0.15823	0.10	0.074	0.21	☐
7704-34-9	Sulfur		0.02441	0.10	0.074	0.016	☑
7704-34-9	Sulfur		0.25951	0.10	0.074	0.10	☐
7440-21-3	Silicon		0.00324	0.10	0.0050	0.014	☑
7440-24-6	Strontium		0.06747	0.050	0.0050	0.051	☐
7440-24-6	Strontium		0.00020	0.050	0.0050	0.000034	☑
7440-32-6	Titanium		-0.00004	0.010	0.0030	0.00045	☑
7440-32-6	Titanium		0.00236	0.010	0.0030	0.0011	☑
7440-62-2	Vanadium		-0.00035	0.0050	0.0020	0.000047	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		101.17	☑
R7440655	Y_ Radial		99.537	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 45 Method 6010O
Acquired: 11/09/2010 19:07:20 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.52039	0.50000	104	☑
7440-38-2	Arsenic		0.51560	0.50000	103	☑
7440-42-8	Boron		0.99337	1.0000	99.3	☑
7440-39-3	Barium		2.5871	2.5000	103	☑
7440-70-2	Calcium		26.197	25.000	105	☑
7440-47-3	Chromium		2.5850	2.5000	103	☑
7440-50-8	Copper		2.5160	2.5000	101	☑
7440-09-7	Potassium		23.703	25.000	94.8	☑
7439-93-2	Lithium		2.5431	2.5000	102	☑
7439-95-4	Magnesium		26.475	25.000	106	☑
7439-96-5	Manganese		2.6123	2.5000	104	☑
7439-98-7	Molybdenum		1.0213	1.0000	102	☑
7440-02-0	Nickel		2.5924	2.5000	104	☑
7439-92-1	Lead		0.50974	0.50000	102	☑
7440-36-0	Antimony		0.51033	0.50000	102	☑
7782-49-2	Selenium		0.51549	0.50000	103	☑
7440-21-3	Silicon		2.6538	2.5000	106	☑
7440-31-5	Tin		2.5415	2.5000	102	☑
7440-28-0	Thallium		0.53208	0.50000	106	☑
7440-66-6	Zinc		2.5988	2.5000	104	☑
7429-90-5	Aluminum		25.652	25.000	103	☑
7440-41-7	Beryllium		0.51468	0.50000	103	☑
7440-43-9	Cadmium		0.51721	0.50000	103	☑
7440-48-4	Cobalt		2.5998	2.5000	104	☑
7439-89-6	Iron		25.922	25.000	104	☑
7439-89-6	Iron		26.478	25.000	106	☑
7440-23-5	Sodium		25.199	25.000	101	☑
7440-23-5	Sodium		36.015	25.000	144	☑
7723-14-0	Phosphorus		2.5205	2.5000	101	☑
7723-14-0	Phosphorus		2.5609	2.5000	102	☑
7704-34-9	Sulfur		3.6603	25.000	14.6	☐
7704-34-9	Sulfur		3.4509	25.000	13.8	☐
7704-34-9	Sulfur		3.1639	25.000	12.7	☐
7704-34-9	Sulfur		3.7109	25.000	14.8	☐
7440-21-3	Silicon		2.7091	2.5000	108	☑
7440-24-6	Strontium		2.5206	2.5000	101	☑
7440-24-6	Strontium		2.5502	2.5000	102	☑
7440-32-6	Titanium		1.0312	1.0000	103	☑
7440-32-6	Titanium		1.0336	1.0000	103	☑
7440-62-2	Vanadium		2.5483	2.5000	102	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.255	☑
R7440655	Y_ Radial		97.940	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV_P_S (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 46 Method 6010O
Acquired: 11/09/2010 19:11:16 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.00010		*	
7440-38-2	Arsenic		-0.00957		*	
7440-42-8	Boron		0.01164		*	
7440-39-3	Barium		-0.00003		*	
7440-70-2	Calcium		-0.00000		*	
7440-47-3	Chromium		0.00073		*	
7440-50-8	Copper		0.00050		*	
7440-09-7	Potassium		-0.19231		*	
7439-93-2	Lithium		0.00433		*	
7439-95-4	Magnesium		0.00821		*	
7439-96-5	Manganese		0.00049		*	
7439-98-7	Molybdenum		0.00097		*	
7440-02-0	Nickel		-0.00140		*	
7439-92-1	Lead		-0.00246		*	
7440-36-0	Antimony		-0.00326		*	
7782-49-2	Selenium		0.00639		*	
7440-21-3	Silicon		0.00599		*	
7440-31-5	Tin		0.00089		*	
7440-28-0	Thallium		0.00556		*	
7440-66-6	Zinc		-0.00030		*	
7429-90-5	Aluminum		-0.02131		*	
7440-41-7	Beryllium		0.00029		*	
7440-43-9	Cadmium		0.00005		*	
7440-48-4	Cobalt		0.00132		*	
7439-89-6	Iron		0.00524		*	
7439-89-6	Iron		0.01635		*	
7440-23-5	Sodium		-0.02784		*	
7440-23-5	Sodium		-2.1925		*	
7723-14-0	Phosphorus		23.793		*	
7723-14-0	Phosphorus		23.767		*	
7704-34-9	Sulfur		23.133		*	
7704-34-9	Sulfur		23.886		*	
7704-34-9	Sulfur		23.379		*	
7704-34-9	Sulfur		23.128		*	
7440-21-3	Silicon		-0.01311		*	
7440-24-6	Strontium		0.05457		*	
7440-24-6	Strontium		0.00012		*	
7440-32-6	Titanium		-0.00125		*	
7440-32-6	Titanium		0.00056		*	
7440-62-2	Vanadium		0.00002		*	

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		101.16	☑
R7440655	Y_ Radial		103.63	☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 47 Method 6010O
Acquired: 11/09/2010 19:15:03 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00039	0.0050	0.0010	0.00011	☑
7440-38-2	Arsenic		-0.00987	0.010	0.0070	0.0020	☑
7440-42-8	Boron		0.00550	0.10	0.010	0.00062	☑
7440-39-3	Barium		0.00003	0.0050	0.0040	0.000098	☑
7440-70-2	Calcium		0.00851	0.50	0.10	0.011	☑
7440-47-3	Chromium		0.00100	0.0050	0.0040	0.00030	☑
7440-50-8	Copper		0.00052	0.0050	0.0050	0.00014	☑
7440-09-7	Potassium		-0.06202	1.0	0.25	0.14	☑
7439-93-2	Lithium		0.00748	0.010	0.0060	0.0018	☐
7439-95-4	Magnesium		0.05215	0.50	0.075	0.041	☐
7439-96-5	Manganese		0.00064	0.0050	0.0010	0.00089	☑
7439-98-7	Molybdenum		0.00120	0.010	0.010	0.00039	☑
7440-02-0	Nickel		-0.00097	0.0050	0.0030	0.00032	☑
7439-92-1	Lead		-0.00199	0.0030	0.0030	0.00012	☑
7440-36-0	Antimony		0.00086	0.010	0.0050	0.0047	☑
7782-49-2	Selenium		0.00501	0.0050	0.0070	0.0072	☐
7440-21-3	Silicon		0.00200	0.10	0.0050	0.000038	☑
7440-31-5	Tin		0.00095	0.020	0.012	0.0010	☑
7440-28-0	Thallium		0.00708	0.010	0.0050	0.0019	☐
7440-66-6	Zinc		-0.00034	0.0050	0.0070	0.00028	☑
7429-90-5	Aluminum		-0.01248	0.10	0.035	0.012	☑
7440-41-7	Beryllium		0.00002	0.0020	0.0010	0.00033	☑
7440-43-9	Cadmium		-0.00004	0.0020	0.0010	0.000032	☑
7440-48-4	Cobalt		0.00074	0.0050	0.0020	0.00013	☐
7439-89-6	Iron		0.00116	0.050	0.016	0.00064	☑
7439-89-6	Iron		-0.01987	0.050	0.016	0.023	☑
7440-23-5	Sodium		0.06926	0.50	0.25	0.082	☑
7440-23-5	Sodium		-1.1401	0.50	0.25	1.4	☐
7723-14-0	Phosphorus		-0.00308	0.30	0.013	0.0014	☑
7723-14-0	Phosphorus		0.00893	0.30	0.013	0.031	☑
7704-34-9	Sulfur		-0.02946	0.10	0.074	0.040	☑
7704-34-9	Sulfur		1.0252	0.10	0.074	0.10	☐
7704-34-9	Sulfur		0.01952	0.10	0.074	0.011	☑
7704-34-9	Sulfur		0.19569	0.10	0.074	0.11	☐
7440-21-3	Silicon		-0.01332	0.10	0.0050	0.00086	☑
7440-24-6	Strontium		0.06103	0.050	0.0050	0.024	☐
7440-24-6	Strontium		0.00009	0.050	0.0050	0.00012	☑
7440-32-6	Titanium		0.00095	0.010	0.0030	0.00016	☑
7440-32-6	Titanium		0.00614	0.010	0.0030	0.0029	☐
7440-62-2	Vanadium		-0.00030	0.0050	0.0020	0.00080	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		100.39	☑
R7440655	Y_ Radial		95.007	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 58 Method 6010O
Acquired: 11/09/2010 19:59:42 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.50040	0.50000	100	☑
7440-38-2	Arsenic		0.50976	0.50000	102	☑
7440-42-8	Boron		0.96324	1.0000	96.3	☑
7440-39-3	Barium		2.5252	2.5000	101	☑
7440-70-2	Calcium		26.208	25.000	105	☑
7440-47-3	Chromium		2.5291	2.5000	101	☑
7440-50-8	Copper		2.4858	2.5000	99.4	☑
7440-09-7	Potassium		23.232	25.000	92.9	☑
7439-93-2	Lithium		2.4745	2.5000	99.0	☑
7439-95-4	Magnesium		26.545	25.000	106	☑
7439-96-5	Manganese		2.6211	2.5000	105	☑
7439-98-7	Molybdenum		1.0168	1.0000	102	☑
7440-02-0	Nickel		2.5332	2.5000	101	☑
7439-92-1	Lead		0.50332	0.50000	101	☑
7440-36-0	Antimony		0.51069	0.50000	102	☑
7782-49-2	Selenium		0.51714	0.50000	103	☑
7440-21-3	Silicon		2.5726	2.5000	103	☑
7440-31-5	Tin		2.5044	2.5000	100	☑
7440-28-0	Thallium		0.54290	0.50000	109	☑
7440-66-6	Zinc		2.5261	2.5000	101	☑
7429-90-5	Aluminum		25.570	25.000	102	☑
7440-41-7	Beryllium		0.51685	0.50000	103	☑
7440-43-9	Cadmium		0.49877	0.50000	99.8	☑
7440-48-4	Cobalt		2.5350	2.5000	101	☑
7439-89-6	Iron		25.570	25.000	102	☑
7439-89-6	Iron		26.644	25.000	107	☑
7440-23-5	Sodium		24.505	25.000	98.0	☑
7440-23-5	Sodium		31.285	25.000	125	☑
7723-14-0	Phosphorus		2.4818	2.5000	99.3	☑
7723-14-0	Phosphorus		2.6314	2.5000	105	☑
7704-34-9	Sulfur		3.7176	25.000	14.9	☐
7704-34-9	Sulfur		4.3338	25.000	17.3	☐
7704-34-9	Sulfur		3.1069	25.000	12.4	☐
7704-34-9	Sulfur		3.8608	25.000	15.4	☐
7440-21-3	Silicon		2.6964	2.5000	108	☑
7440-24-6	Strontium		2.4766	2.5000	99.1	☑
7440-24-6	Strontium		2.5417	2.5000	102	☑
7440-32-6	Titanium		1.0336	1.0000	103	☑
7440-32-6	Titanium		1.0154	1.0000	102	☑
7440-62-2	Vanadium		2.5096	2.5000	100	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.375	☑
R7440655	Y_ Radial		100.20	☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 59 Method 6010O
Acquired: 11/09/2010 20:03:02 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00018	0.0050	0.0010	0.00034	☑
7440-38-2	Arsenic		-0.00527	0.010	0.0070	0.0010	☑
7440-42-8	Boron		0.01268	0.10	0.010	0.00059	☑
7440-39-3	Barium		0.00006	0.0050	0.0040	0.00024	☑
7440-70-2	Calcium		-0.00018	0.50	0.10	0.0019	☑
7440-47-3	Chromium		0.00085	0.0050	0.0040	0.00070	☑
7440-50-8	Copper		0.00087	0.0050	0.0050	0.000093	☑
7440-09-7	Potassium		-0.19359	1.0	0.25	0.029	☑
7439-93-2	Lithium		-0.00144	0.010	0.0060	0.011	☑
7439-95-4	Magnesium		0.02677	0.50	0.075	0.00017	☑
7439-96-5	Manganese		0.00012	0.0050	0.0010	0.00033	☑
7439-98-7	Molybdenum		0.00066	0.010	0.010	0.00012	☑
7440-02-0	Nickel		-0.00011	0.0050	0.0030	0.00022	☑
7439-92-1	Lead		-0.00089	0.0030	0.0030	0.00072	☑
7440-36-0	Antimony		0.00177	0.010	0.0050	0.0045	☑
7782-49-2	Selenium		0.00378	0.0050	0.0070	0.0033	☑
7440-21-3	Silicon		0.00336	0.10	0.0050	0.000015	☑
7440-31-5	Tin		0.00185	0.020	0.012	0.0021	☑
7440-28-0	Thallium		0.01073	0.010	0.0050	0.0092	☐
7440-66-6	Zinc		0.00011	0.0050	0.0070	0.00010	☑
7429-90-5	Aluminum		-0.01478	0.10	0.035	0.0017	☑
7440-41-7	Beryllium		0.00004	0.0020	0.0010	0.0000010	☑
7440-43-9	Cadmium		0.00004	0.0020	0.0010	0.000020	☑
7440-48-4	Cobalt		0.00023	0.0050	0.0020	0.00049	☑
7439-89-6	Iron		0.00165	0.050	0.016	0.00035	☑
7439-89-6	Iron		0.00969	0.050	0.016	0.0025	☑
7440-23-5	Sodium		-0.02678	0.50	0.25	0.035	☑
7440-23-5	Sodium		-0.78204	0.50	0.25	2.4	☑
7723-14-0	Phosphorus		-0.00060	0.30	0.013	0.0011	☑
7723-14-0	Phosphorus		-0.01481	0.30	0.013	0.023	☑
7704-34-9	Sulfur		0.03688	0.10	0.074	0.050	☑
7704-34-9	Sulfur		0.61518	0.10	0.074	0.17	☐
7704-34-9	Sulfur		0.00871	0.10	0.074	0.0015	☑
7704-34-9	Sulfur		0.32883	0.10	0.074	0.019	☐
7440-21-3	Silicon		-0.00676	0.10	0.0050	0.0082	☑
7440-24-6	Strontium		0.04020	0.050	0.0050	0.029	☐
7440-24-6	Strontium		-0.00001	0.050	0.0050	0.000013	☑
7440-32-6	Titanium		-0.00102	0.010	0.0030	0.00079	☑
7440-32-6	Titanium		0.00681	0.010	0.0030	0.0033	☐
7440-62-2	Vanadium		0.00038	0.0050	0.0020	0.00024	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.461	☑
R7440655	Y_ Radial		103.31	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 70 Method 6010O
Acquired: 11/09/2010 20:49:22 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.49717	0.50000	99.4	☑
7440-38-2	Arsenic		0.48081	0.50000	96.2	☑
7440-42-8	Boron		0.94843	1.0000	94.8	☑
7440-39-3	Barium		2.4973	2.5000	99.9	☑
7440-70-2	Calcium		25.587	25.000	102	☑
7440-47-3	Chromium		2.4959	2.5000	99.8	☑
7440-50-8	Copper		2.4679	2.5000	98.7	☑
7440-09-7	Potassium		22.366	25.000	89.5	☐
7439-93-2	Lithium		2.4051	2.5000	96.2	☑
7439-95-4	Magnesium		25.716	25.000	103	☑
7439-96-5	Manganese		2.5405	2.5000	102	☑
7439-98-7	Molybdenum		0.97351	1.0000	97.4	☑
7440-02-0	Nickel		2.4998	2.5000	100	☑
7439-92-1	Lead		0.48622	0.50000	97.2	☑
7440-36-0	Antimony		0.48666	0.50000	97.3	☑
7782-49-2	Selenium		0.48919	0.50000	97.8	☑
7440-21-3	Silicon		2.5280	2.5000	101	☑
7440-31-5	Tin		2.4267	2.5000	97.1	☑
7440-28-0	Thallium		0.52437	0.50000	105	☑
7440-66-6	Zinc		2.4904	2.5000	99.6	☑
7429-90-5	Aluminum		24.954	25.000	99.8	☑
7440-41-7	Beryllium		0.50458	0.50000	101	☑
7440-43-9	Cadmium		0.49177	0.50000	98.4	☑
7440-48-4	Cobalt		2.5109	2.5000	100	☑
7439-89-6	Iron		25.216	25.000	101	☑
7439-89-6	Iron		25.840	25.000	103	☑
7440-23-5	Sodium		23.667	25.000	94.7	☑
7440-23-5	Sodium		31.446	25.000	126	☑
7723-14-0	Phosphorus		2.4417	2.5000	97.7	☑
7723-14-0	Phosphorus		2.5567	2.5000	102	☑
7704-34-9	Sulfur		3.3910	25.000	13.6	☐
7704-34-9	Sulfur		3.8828	25.000	15.5	☐
7704-34-9	Sulfur		3.0143	25.000	12.1	☐
7704-34-9	Sulfur		3.6645	25.000	14.7	☐
7440-21-3	Silicon		2.6235	2.5000	105	☑
7440-24-6	Strontium		2.3682	2.5000	94.7	☑
7440-24-6	Strontium		2.4932	2.5000	99.7	☑
7440-32-6	Titanium		1.0097	1.0000	101	☑
7440-32-6	Titanium		1.0146	1.0000	101	☑
7440-62-2	Vanadium		2.4818	2.5000	99.3	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.905	☑
R7440655	Y_ Radial		102.83	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV0910AX2.csv # 71 Method 6010O
Acquired: 11/09/2010 20:52:42 PE ICP2
Calibrated: 11/09/2010 15:50:23 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		-0.00022	0.0050	0.0010	0.00044	☑
7440-38-2	Arsenic		-0.01128	0.010	0.0070	0.0059	☑
7440-42-8	Boron		0.01095	0.10	0.010	0.00026	☑
7440-39-3	Barium		-0.00005	0.0050	0.0040	0.000060	☑
7440-70-2	Calcium		0.00378	0.50	0.10	0.0028	☑
7440-47-3	Chromium		0.00028	0.0050	0.0040	0.00031	☑
7440-50-8	Copper		0.00022	0.0050	0.0050	0.00081	☑
7440-09-7	Potassium		-0.26299	1.0	0.25	0.036	☑
7439-93-2	Lithium		0.00036	0.010	0.0060	0.00054	☑
7439-95-4	Magnesium		0.01886	0.50	0.075	0.014	☑
7439-96-5	Manganese		0.00026	0.0050	0.0010	0.00030	☑
7439-98-7	Molybdenum		0.00135	0.010	0.010	0.00020	☑
7440-02-0	Nickel		-0.00076	0.0050	0.0030	0.00063	☑
7439-92-1	Lead		-0.00123	0.0030	0.0030	0.0026	☑
7440-36-0	Antimony		0.00398	0.010	0.0050	0.0014	☐
7782-49-2	Selenium		0.00556	0.0050	0.0070	0.00086	☐
7440-21-3	Silicon		0.00151	0.10	0.0050	0.0018	☑
7440-31-5	Tin		0.00075	0.020	0.012	0.0017	☑
7440-28-0	Thallium		0.01340	0.010	0.0050	0.0050	☐
7440-66-6	Zinc		-0.00008	0.0050	0.0070	0.00027	☑
7429-90-5	Aluminum		-0.01278	0.10	0.035	0.0082	☑
7440-41-7	Beryllium		0.00027	0.0020	0.0010	0.00018	☑
7440-43-9	Cadmium		0.00004	0.0020	0.0010	0.000080	☑
7440-48-4	Cobalt		0.00079	0.0050	0.0020	0.00017	☐
7439-89-6	Iron		0.00177	0.050	0.016	0.00028	☑
7439-89-6	Iron		0.00470	0.050	0.016	0.00032	☑
7440-23-5	Sodium		-0.06049	0.50	0.25	0.0055	☑
7440-23-5	Sodium		-1.1047	0.50	0.25	1.0	☐
7723-14-0	Phosphorus		-0.00332	0.30	0.013	0.0048	☑
7723-14-0	Phosphorus		-0.02878	0.30	0.013	0.0076	☑
7704-34-9	Sulfur		-0.00616	0.10	0.074	0.086	☑
7704-34-9	Sulfur		0.10866	0.10	0.074	0.27	☐
7704-34-9	Sulfur		0.01509	0.10	0.074	0.0024	☑
7704-34-9	Sulfur		0.25149	0.10	0.074	0.052	☐
7440-21-3	Silicon		-0.02743	0.10	0.0050	0.0089	☑
7440-24-6	Strontium		0.08473	0.050	0.0050	0.030	☐
7440-24-6	Strontium		0.00031	0.050	0.0050	0.00021	☑
7440-32-6	Titanium		-0.00113	0.010	0.0030	0.00060	☑
7440-32-6	Titanium		0.00538	0.010	0.0030	0.0047	☐
7440-62-2	Vanadium		0.00082	0.0050	0.0020	0.00013	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.511	☑
R7440655	Y_ Radial		107.03	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:48:45

Department: 120 (Metals) | Source: OPTIMA

Sample: **CCV (CCV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 82 | Method 6010O
Acquired: 11/09/2010 21:35:30 | PE ICP2
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.49812	0.50000	99.6	☑
7440-38-2	Arsenic		0.49102	0.50000	98.2	☑
7440-42-8	Boron		0.93966	1.0000	94.0	☑
7440-39-3	Barium		2.4749	2.5000	99.0	☑
7440-70-2	Calcium		26.047	25.000	104	☑
7440-47-3	Chromium		2.4741	2.5000	99.0	☑
7440-50-8	Copper		2.4372	2.5000	97.5	☑
7440-09-7	Potassium		22.677	25.000	90.7	☑
7439-93-2	Lithium		2.4427	2.5000	97.7	☑
7439-95-4	Magnesium		26.094	25.000	104	☑
7439-96-5	Manganese		2.5839	2.5000	103	☑
7439-98-7	Molybdenum		0.99724	1.0000	99.7	☑
7440-02-0	Nickel		2.4774	2.5000	99.1	☑
7439-92-1	Lead		0.49611	0.50000	99.2	☑
7440-36-0	Antimony		0.49578	0.50000	99.2	☑
7782-49-2	Selenium		0.49269	0.50000	98.5	☑
7440-21-3	Silicon		2.4617	2.5000	98.5	☑
7440-31-5	Tin		2.4749	2.5000	99.0	☑
7440-28-0	Thallium		0.52770	0.50000	106	☑
7440-66-6	Zinc		2.4705	2.5000	98.8	☑
7429-90-5	Aluminum		25.685	25.000	103	☑
7440-41-7	Beryllium		0.51888	0.50000	104	☑
7440-43-9	Cadmium		0.49435	0.50000	98.9	☑
7440-48-4	Cobalt		2.4696	2.5000	98.8	☑
7439-89-6	Iron		24.726	25.000	98.9	☑
7439-89-6	Iron		26.125	25.000	105	☑
7440-23-5	Sodium		24.147	25.000	96.6	☑
7440-23-5	Sodium		33.775	25.000	135	☑
7723-14-0	Phosphorus		2.4088	2.5000	96.4	☑
7723-14-0	Phosphorus		2.5330	2.5000	101	☑
7704-34-9	Sulfur		3.4349	25.000	13.7	☐
7704-34-9	Sulfur		2.9064	25.000	11.6	☐
7704-34-9	Sulfur		3.0894	25.000	12.4	☐
7704-34-9	Sulfur		3.6128	25.000	14.5	☐
7440-21-3	Silicon		2.6571	2.5000	106	☑
7440-24-6	Strontium		2.3884	2.5000	95.5	☑
7440-24-6	Strontium		2.5631	2.5000	103	☑
7440-32-6	Titanium		1.0327	1.0000	103	☑
7440-32-6	Titanium		1.0022	1.0000	100	☑
7440-62-2	Vanadium		2.4672	2.5000	98.7	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.562	☑
R7440655	Y_ Radial		102.48	☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:48:45

Department: 120 (Metals) | Source: OPTIMA

Sample: **CCB** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 83 | Method 6010O
Acquired: 11/09/2010 21:39:27 | PE ICP2
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00044	0.0050	0.0010	0.00048	☑
7440-38-2	Arsenic		-0.00755	0.010	0.0070	0.0034	☑
7440-42-8	Boron		0.01145	0.10	0.010	0.00028	☑
7440-39-3	Barium		0.00011	0.0050	0.0040	0.000021	☑
7440-70-2	Calcium		-0.00127	0.50	0.10	0.0024	☑
7440-47-3	Chromium		0.00104	0.0050	0.0040	0.00014	☐
7440-50-8	Copper		0.00041	0.0050	0.0050	0.000073	☑
7440-09-7	Potassium		-0.23179	1.0	0.25	0.065	☑
7439-93-2	Lithium		0.00008	0.010	0.0060	0.00092	☑
7439-95-4	Magnesium		0.02304	0.50	0.075	0.0090	☑
7439-96-5	Manganese		0.00132	0.0050	0.0010	0.000070	☐
7439-98-7	Molybdenum		0.00058	0.010	0.010	0.000027	☑
7440-02-0	Nickel		-0.00063	0.0050	0.0030	0.00011	☑
7439-92-1	Lead		-0.00161	0.0030	0.0030	0.00012	☑
7440-36-0	Antimony		-0.00023	0.010	0.0050	0.0043	☑
7782-49-2	Selenium		0.00059	0.0050	0.0070	0.013	☑
7440-21-3	Silicon		0.00183	0.10	0.0050	0.00028	☑
7440-31-5	Tin		0.00211	0.020	0.012	0.00074	☑
7440-28-0	Thallium		0.01345	0.010	0.0050	0.0056	☐
7440-66-6	Zinc		0.00004	0.0050	0.0070	0.00010	☑
7429-90-5	Aluminum		-0.01714	0.10	0.035	0.0023	☑
7440-41-7	Beryllium		0.00030	0.0020	0.0010	0.00028	☑
7440-43-9	Cadmium		0.00010	0.0020	0.0010	0.000023	☑
7440-48-4	Cobalt		0.00039	0.0050	0.0020	0.000067	☑
7439-89-6	Iron		0.00070	0.050	0.016	0.00015	☑
7439-89-6	Iron		0.01205	0.050	0.016	0.0033	☑
7440-23-5	Sodium		-0.02656	0.50	0.25	0.000086	☑
7440-23-5	Sodium		-2.3793	0.50	0.25	1.0	☐
7723-14-0	Phosphorus		-0.00117	0.30	0.013	0.00074	☑
7723-14-0	Phosphorus		-0.03504	0.30	0.013	0.037	☑
7704-34-9	Sulfur		0.00855	0.10	0.074	0.0065	☑
7704-34-9	Sulfur		0.08058	0.10	0.074	0.12	☑
7704-34-9	Sulfur		0.01213	0.10	0.074	0.0075	☑
7704-34-9	Sulfur		0.21984	0.10	0.074	0.072	☐
7440-21-3	Silicon		-0.01591	0.10	0.0050	0.0026	☑
7440-24-6	Strontium		0.02410	0.050	0.0050	0.038	☐
7440-24-6	Strontium		0.00027	0.050	0.0050	0.000073	☑
7440-32-6	Titanium		0.00019	0.010	0.0030	0.00030	☑
7440-32-6	Titanium		0.00219	0.010	0.0030	0.00085	☑
7440-62-2	Vanadium		0.00046	0.0050	0.0020	0.00025	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:48:45

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.543	☑
R7440655	Y_ Radial		106.68	☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:49:57

Department: 120 (Metals) | Source: OPTIMA

Sample: **L84FDP5** | Serial Dilution: **5.00** | Sample Dilution: **1.00**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 63 | Method 6010O
Acquired: 11/09/2010 20:19:52 | PE ICP2 | Matrix: SOLID
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-22-4	Silver		-0.00116	0.00055	312	0.00090	NC	☑
7440-38-2	Arsenic		0.05986	0.02915	105	0.013	NC	☑
7440-42-8	Boron		0.11532	0.08246	39.8		*	
7440-39-3	Barium		1.5115	1.4393	5.02	0.0012	5.0	☑
7440-70-2	Calcium		106.85	101.04	5.76	0.045	5.8	☑
7440-47-3	Chromium		2.4733	2.3535	5.09	0.0014	5.1	☑
7440-50-8	Copper		1.1283	1.1173	0.991	0.0022	1.0	☑
7440-09-7	Potassium		12.877	13.346	3.52	0.10	3.5	☑
7439-93-2	Lithium		0.07716	0.09823	21.5		*	
7439-95-4	Magnesium		366.39	345.74	5.97	0.045	6.0	☑
7439-96-5	Manganese		5.5757	5.2584	6.03	0.0025	6.0	☑
7439-98-7	Molybdenum		0.02415	0.01307	84.8	0.0075	NC	☑
7440-02-0	Nickel		4.1767	3.9220	6.49	0.0024	6.5	☑
7439-92-1	Lead		1.1746	1.1123	5.60	0.0026	5.6	☑
7440-36-0	Antimony		0.04416	-0.00638		0.0094	NC	☑
7782-49-2	Selenium		-0.02764	-0.00850		0.014	NC	☑
7440-21-3	Silicon		1.2137	1.1157	8.78		*	
7440-31-5	Tin		0.15054	0.13698	9.90		*	
7440-28-0	Thallium		0.04079	0.01617	152	0.0084	NC	☑
7440-66-6	Zinc		1.4584	1.3559	7.56	0.0019	7.6	☑
7429-90-5	Aluminum		107.29	101.49	5.71	0.056	5.7	☑
7440-41-7	Beryllium		0.00500	0.00423	18.3	0.00030	NC	☑
7440-43-9	Cadmium		0.00071	0.00181	60.9	0.00030	NC	☑
7440-48-4	Cobalt		0.26063	0.24251	7.47	0.0025	7.5	☑
7439-89-6	Iron		292.70	265.92	10.1	0.011	E	☐
7439-89-6	Iron		303.52	284.82	6.57	0.011	6.6	☑
7440-23-5	Sodium		23.236	21.968	5.78	0.11	5.8	☑
7440-23-5	Sodium		20.350	27.560	26.2	0.11	26.2	☑
7723-14-0	Phosphorus		3.0437	2.9408	3.50		*	
7723-14-0	Phosphorus		3.0882	3.0178	2.33		*	
7704-34-9	Sulfur		11.960	10.055	19.0		*	
7704-34-9	Sulfur		14.795	13.928	6.23		*	
7704-34-9	Sulfur		14.977	10.251	46.1		*	
7704-34-9	Sulfur		21.882	10.581	107		*	
7440-21-3	Silicon		1.3589	1.2560	8.20		*	
7440-24-6	Strontium		0.82658	0.42361	95.1		*	
7440-24-6	Strontium		0.42494	0.40190	5.73		*	
7440-32-6	Titanium		8.5372	8.1461	4.80		*	
7440-32-6	Titanium		8.3033	8.0131	3.62		*	
7440-62-2	Vanadium		0.43587	0.42115	3.49	0.0019	3.5	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/10/10 11:49:57

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.025	☑
R7440655	Y_ Radial		103.76	☑

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 50 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

TAL West Sac

SAMPLE SPIKE

Method: 6010 | PE ICP2 | Reported: 11/10/10 11:50:04

Department: 120 (Metals) | Source: OPTIMA

Sample: **L84FDZ** | Spike Dilution: **1.00** | Sample Dilution: **1.00**

Instrument: **PE 4300** | Channel 268
File: NOV0910AX2.csv # 64 | Method 6010O
Acquired: 11/09/2010 20:23:41 | PE ICP2 | Matrix: SOLID
Calibrated: 11/09/2010 15:50:23 | Units: mg/L

CASN	Analyte Name	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-22-4	Silver		0.04505	0.00055	89.0	0.0500		☑
7440-38-2	Arsenic		1.8860	0.02915	92.8	2.00		☑
7440-42-8	Boron		0.97768	0.08246	89.5	1.00		☑
7440-39-3	Barium		3.2484	1.4393	90.5	2.00		☑
7440-70-2	Calcium		145.81	101.04	89.5	50.0		☑
7440-47-3	Chromium		2.4596	2.3535	53.0	0.200	*	☐
7440-50-8	Copper		1.3246	1.1173	82.9	0.250	*	☑
7440-09-7	Potassium		58.865	13.346	91.0	50.0		☑
7439-93-2	Lithium		1.0433	0.09823	94.5	1.00		☑
7439-95-4	Magnesium		380.70	345.74	69.9	50.0	*	☐
7439-96-5	Manganese		5.5848	5.2584	65.3	0.500	*	☐
7439-98-7	Molybdenum		0.94862	0.01307	93.6	1.00		☑
7440-02-0	Nickel		4.2502	3.9220	65.6	0.500	*	☐
7439-92-1	Lead		1.5122	1.1123	80.0	0.500		☑
7440-36-0	Antimony		0.46948	-0.00638	93.9	0.500		☑
7782-49-2	Selenium		1.7830	-0.00850	89.1	2.00		☑
7440-21-3	Silicon		1.1280	1.1157	0.123	10.0		☐
7440-31-5	Tin		1.9333	0.13698	89.8	2.00		☑
7440-28-0	Thallium		1.9663	0.01617	97.5	2.00		☑
7440-66-6	Zinc		1.7650	1.3559	81.8	0.500		☑
7429-90-5	Aluminum		100.99	101.49	0.00	2.00	*	☐
7440-41-7	Beryllium		0.05135	0.00423	94.2	0.0500		☑
7440-43-9	Cadmium		0.04886	0.00181	94.1	0.0500		☑
7440-48-4	Cobalt		0.70239	0.24251	92.0	0.500		☑
7439-89-6	Iron		261.77	265.92	0.00	1.00	*	☐
7439-89-6	Iron		277.27	284.82	0.00	1.00	*	☐
7440-23-5	Sodium		66.889	21.968	89.8	50.0		☑
7440-23-5	Sodium		73.759	27.560	92.4	50.0		☑
7723-14-0	Phosphorus		12.251	2.9408	93.1	10.0		☑
7723-14-0	Phosphorus		12.653	3.0178	96.4	10.0		☑
7704-34-9	Sulfur		19.900	10.055	98.5	10.0		☑
7704-34-9	Sulfur		22.983	13.928	90.6	10.0		☑
7704-34-9	Sulfur		19.457	10.251	92.1	10.0		☑
7704-34-9	Sulfur		19.116	10.581	85.4	10.0		☑
7440-21-3	Silicon		1.2668	1.2560	0.108	10.0		☐
7440-24-6	Strontium		1.3770	0.42361	95.3	1.00		☑
7440-24-6	Strontium		1.3445	0.40190	94.3	1.00		☑
7440-32-6	Titanium		8.8661	8.1461	72.0	1.00	*	☐
7440-32-6	Titanium		8.7290	8.0131	71.6	1.00	*	☐
7440-62-2	Vanadium		0.88277	0.42115	92.3	0.500		☑

Reviewed by: | Date:

IDB Reports | TestAmerica, Inc. | Version: 6.02.068

View Page 1 of 2

Method: 6010 PE ICP2 Reported: 11/10/10 11:50:04

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.212	☑
R7440655	Y_ Radial		107.54	☑

Reviewed by: Date:

TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/13/10 20:21:57

File ID: NOV1210BX.csv

Analyst: VOTAWB

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_				1.0	11/12/10 16:39		☐
2	Calib_Std_1				1.0	11/12/10 16:43		☐
3	Calib_Std_2				1.0	11/12/10 16:46		☐
4	Calib_Std_3				1.0	11/12/10 16:48		☐
5	Calib_Std_4				1.0	11/12/10 16:52		☐
6	LR Std				1.0	11/12/10 16:55		☐
7	ICV4				1.0	11/12/10 17:00		☐
8	ICV2A				1.0	11/12/10 17:04		☐
9	ICB				1.0	11/12/10 17:11		☐
10	LL1				1.0	11/12/10 17:14		☐
11	LL2				1.0	11/12/10 17:18		☐
12	ICSA				1.0	11/12/10 17:22		☐
13	LL1				1.0	11/12/10 17:29		☐
14	LL2				1.0	11/12/10 17:33		☐
15	ICSAB_4.0				1.0	11/12/10 17:44		☐
16	Al 1000ppm				1.0	11/12/10 17:50		☐
17	Ca 1000ppm				1.0	11/12/10 17:57		☐
18	Fe 1000ppm				1.0	11/12/10 18:03		☐
19	Mg 1000ppm				1.0	11/12/10 18:09		☐
20	Na 500ppm				1.0	11/12/10 18:15		☐
21	CCV				1.0	11/12/10 18:23		☐
22	CCB				1.0	11/12/10 18:27		☐
23	L8VD2	G0J210467-5	0306236	46	1.0	11/12/10 18:47		☐
24	L8VD5	G0J210467-6	0306236	46	1.0	11/12/10 18:51		☐
25	L9E01B	G0K020000	0306195	46	1.0	11/12/10 18:57		☐
26	L9E01C	G0K020000	0306195	46	1.0	11/12/10 19:01		☐
27	L84FD	G0J260451-4	0306195	46	1.0	11/12/10 19:04		☐
28	L84FDP5	G0J260451	0306195		5.0	11/12/10 19:10		☐
29	L84FDZ	G0J260451-4	0306195		1.0	11/12/10 19:14		☐
30	L84FDS	G0J260451-4	0306195	46	1.0	11/12/10 19:17		☐
31	L84FDD	G0J260451-4	0306195	46	1.0	11/12/10 19:21		☐
32	L84EX	G0J260451-1	0306195	46	1.0	11/12/10 19:27		☐
33	CCV				1.0	11/12/10 19:31		☐
34	CCB				1.0	11/12/10 19:35		☐
35	L84E9	G0J260451-2	0306195	46	1.0	11/12/10 19:39		☐
36	L84FA	G0J260451-3	0306195	46	1.0	11/12/10 19:42		☐
37	L84FF	G0J260451-5	0306195	46	1.0	11/12/10 19:45		☐
38	L84FL	G0J260451-7	0306195	46	1.0	11/12/10 19:49		☐
39	L84FN	G0J260451-8	0306195	46	1.0	11/12/10 19:52		☐
40	L84FQ	G0J260451-9	0306195	46	1.0	11/12/10 19:56		☐
41	L84FR	G0J260451-10	0306195	46	1.0	11/12/10 19:59		☐
42	L84FT	G0J260451-11	0306195	46	1.0	11/12/10 20:03		☐
43	L84FV	G0J260451-12	0306195	46	1.0	11/12/10 20:06		☐
44	L84FW	G0J260451-13	0306195	46	1.0	11/12/10 20:09		☐
45	CCV				1.0	11/12/10 20:21		☐
46	CCB				1.0	11/12/10 20:25		☐

Method: 6010 PE ICP2 (P05) Reported: 11/13/10 20:21:57

File ID: NOV1210BX.csv Analyst: VOTAWB

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	L819K	G0J230499-18	0305227	05	1.0	11/12/10 20:29		☐
48	L9DXDB	G0K010000	0305280	46	1.0	11/12/10 20:35		☐
49	L9DXDC	G0K010000	0305280	46	1.0	11/12/10 20:39		☐
50	L85JL	G0J260587-1	0305280	46	1.0	11/12/10 20:44		☐
51	L85JLP5	G0J260587	0305280		5.0	11/12/10 20:48		☐
52	L85JLZ	G0J260587-1	0305280		1.0	11/12/10 20:52		☐
53	L85JLS	G0J260587-1	0305280	46	1.0	11/12/10 20:56		☐
54	L85JLD	G0J260587-1	0305280	46	1.0	11/12/10 20:59		☐
55	L85J4	G0J260587-2	0305280	46	1.0	11/12/10 21:05		☐
56	L85J5	G0J260587-3	0305280	46	1.0	11/12/10 21:08		☐
57	CCV				1.0	11/12/10 21:12		☐
58	CCB				1.0	11/12/10 21:16		☐
59	L85J7	G0J260587-4	0305280	46	1.0	11/12/10 21:20		☐
60	L85KA	G0J260587-6	0305280	46	1.0	11/12/10 21:24		☐
61	L85KC	G0J260587-7	0305280	46	1.0	11/12/10 21:28		☐
62	L85KD	G0J260587-8	0305280	46	1.0	11/12/10 21:31		☐
63	L85KE	G0J260587-9	0305280	46	1.0	11/12/10 21:35		☐
64	L85KF	G0J260587-10	0305280	46	1.0	11/12/10 21:39		☐
65	L85KG	G0J260587-11	0305280	46	1.0	11/12/10 21:42		☐
66	L85KH	G0J260587-12	0305280	46	1.0	11/12/10 21:46		☐
67	L85KL	G0J260587-14	0305280	46	1.0	11/12/10 21:49		☐
68	L85KM	G0J260587-15	0305280	46	1.0	11/12/10 21:52		☐
69	CCV				1.0	11/12/10 21:58		☐
70	CCB				1.0	11/12/10 22:02		☐
71	L9DPWB	G0K010000	0305244	46	1.0	11/12/10 22:06		☐
72	L9DPWC	G0K010000	0305244	46	1.0	11/12/10 22:10		☐
73	L85KN	G0J260587-16	0305244	46	1.0	11/12/10 22:15		☐
74	L85KNP5	G0J260587	0305244		5.0	11/12/10 22:19		☐
75	L85KN	G0J260587-16	0305244	46	1.0	11/12/10 22:23		☐
76	L85KNS	G0J260587-16	0305244	46	1.0	11/12/10 22:27		☐
77	L85KND	G0J260587-16	0305244	46	1.0	11/12/10 22:30		☐
78	L85KP	G0J260587-17	0305244	46	1.0	11/12/10 22:36		☐
79	L85KR	G0J260587-18	0305244	46	1.0	11/12/10 22:39		☐
80	L85KT	G0J260587-19	0305244	46	1.0	11/12/10 22:43		☐
81	CCV				1.0	11/12/10 22:46		☐
82	CCB				1.0	11/12/10 22:50		☐
83	L85KW	G0J260587-21	0305244	46	1.0	11/12/10 22:54		☐
84	L85KX	G0J260587-22	0305244	46	1.0	11/12/10 22:58		☐
85	L85K0	G0J260587-23	0305244	46	1.0	11/12/10 23:02		☐
86	L85K1	G0J260587-24	0305244	46	1.0	11/12/10 23:06		☐
87	CCV				1.0	11/12/10 23:10		☐
88	CCB				1.0	11/12/10 23:14		☐
89	L9EV9B	G0K020000	0306176	46	1.0	11/12/10 23:18		☐
90	L9EV9C	G0K020000	0306176	46	1.0	11/12/10 23:21		☐
91	L85LR	G0J260590-11	0306176	46	1.0	11/12/10 23:27		☐
92	L85LRP5	G0J260590	0306176		5.0	11/12/10 23:31		☐

Method: 6010 PE ICP2 (P05) Reported: 11/13/10 20:21:57

File ID: NOV1210BX.csv Analyst: VOTAWB

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
93	L85LRZ	G0J260590-11	0306176		1.0	11/12/10 23:35		☐
94	L85LRS	G0J260590-11	0306176	46	1.0	11/12/10 23:38		☐
95	L85LRD	G0J260590-11	0306176	46	1.0	11/12/10 23:42		☐
96	L85LE	G0J260590-1	0306176	46	1.0	11/12/10 23:48		☐
97	L85LF	G0J260590-2	0306176	46	1.0	11/12/10 23:51		☐
98	L85LG	G0J260590-3	0306176	46	1.0	11/12/10 23:55		☐
99	CCV				1.0	11/12/10 23:59		☐
100	CCB				1.0	11/13/10 00:02		☐
101	L85LJ	G0J260590-4	0306176	46	1.0	11/13/10 00:06		☐
102	L85LK	G0J260590-5	0306176	46	1.0	11/13/10 00:10		☐
103	L85LL	G0J260590-6	0306176	46	1.0	11/13/10 00:14		☐
104	L85LM	G0J260590-7	0306176	46	1.0	11/13/10 00:18		☐
105	L85LN	G0J260590-8	0306176	46	1.0	11/13/10 00:22		☐
106	L85LP	G0J260590-9	0306176	46	1.0	11/13/10 00:26		☐
107	L85LQ	G0J260590-10	0306176	46	1.0	11/13/10 00:29		☐
108	L85LV	G0J260590-13	0306176	46	1.0	11/13/10 00:33		☐
109	L85LW	G0J260590-14	0306176	46	1.0	11/13/10 00:37		☐
110	L85LX	G0J260590-15	0306176	46	1.0	11/13/10 00:40		☐
111	CCV				1.0	11/13/10 00:44		☐
112	CCB				1.0	11/13/10 00:48		☐
113	L85L0	G0J260590-16	0306176	46	1.0	11/13/10 00:52		☐
114	L85L1	G0J260590-17	0306176	46	1.0	11/13/10 00:56		☐
115	L85L2	G0J260590-18	0306176	46	1.0	11/13/10 01:00		☐
116	CCV				1.0	11/13/10 01:04		☐
117	CCB				1.0	11/13/10 01:08		☐
118	L9TFHB	G0K100000	0314282	DE	1.0	11/13/10 01:12		☐
119	L9TFHC	G0K100000	0314282	DE	1.0	11/13/10 01:16		☐
120	L9TFHL	G0K100000	0314282	DE	1.0	11/13/10 01:19		☐
121	L9PD0	G0K080435-1	0314282	DE	1.0	11/13/10 01:25		☐
122	L9PD0P5	G0K080435	0314282		5.0	11/13/10 01:28		☐
123	L9PD0Z	G0K080435-1	0314282		1.0	11/13/10 01:32		☐
124	L9PD0X	G0K080435-1	0314282	DE	1.0	11/13/10 01:36		☐
125	L9PD7	G0K080435-3	0314282	DE	1.0	11/13/10 01:39		☐
126	L9PEA	G0K080435-5	0314282	DE	1.0	11/13/10 01:43		☐
127	L9PED	G0K080435-7	0314282	DE	1.0	11/13/10 01:47		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 11/13/10 20:21:57

File ID: NOV1210BX.csv **Analyst: VOTAWB**

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
1	Calib_Blank_'	11/12/10 16:39	0.0	0.0	☑
2	Calib_Std_1	11/12/10 16:43	0.0	0.0	☑
3	Calib_Std_2	11/12/10 16:46	0.0	0.0	☑
4	Calib_Std_3	11/12/10 16:48	0.0	0.0	☑
5	Calib_Std_4	11/12/10 16:52	0.0	0.0	☑
6	LR Std	11/12/10 16:55	95.6	98.4	☑
7	ICV4	11/12/10 17:00	97.5	101.0	☑
8	ICV2A	11/12/10 17:04	98.7	101.4	☑
9	ICB	11/12/10 17:11	99.1	100.5	☑
10	LL1	11/12/10 17:14	98.7	100.2	☑
11	LL2	11/12/10 17:18	97.8	99.4	☑
12	ICSA	11/12/10 17:22	88.8	97.3	☑
13	LL1	11/12/10 17:29	97.8	101.1	☑
14	LL2	11/12/10 17:33	97.9	100.6	☑
15	ICSAB_4.0	11/12/10 17:44	89.5	98.6	☑
16	Al 1000ppm	11/12/10 17:50	92.3	100.8	☑
17	Ca 1000ppm	11/12/10 17:57	92.9	99.6	☑
18	Fe 1000ppm	11/12/10 18:03	97.0	101.7	☑
19	Mg 1000ppm	11/12/10 18:09	93.2	100.0	☑
20	Na 500ppm	11/12/10 18:15	92.8	100.1	☑
21	CCV	11/12/10 18:23	94.4	99.2	☑
22	CCB	11/12/10 18:27	99.5	101.9	☑
23	L8VD2	11/12/10 18:47	102.2	109.5	☑
24	L8VD5	11/12/10 18:51	95.2	104.4	☑
25	L9E01B	11/12/10 18:57	99.6	104.7	☑
26	L9E01C	11/12/10 19:01	96.6	101.8	☑
27	L84FD	11/12/10 19:04	97.5	105.9	☑
28	L84FDP5	11/12/10 19:10	96.9	102.9	☑
29	L84FDZ	11/12/10 19:14	96.3	104.8	☑
30	L84FDS	11/12/10 19:17	97.0	105.9	☑
31	L84FDD	11/12/10 19:21	96.3	106.3	☑
32	L84EX	11/12/10 19:27	95.7	105.8	☑
33	CCV	11/12/10 19:31	96.1	102.0	☑
34	CCB	11/12/10 19:35	98.7	103.9	☑
35	L84E9	11/12/10 19:39	97.4	105.7	☑
36	L84FA	11/12/10 19:42	98.7	107.7	☑
37	L84FF	11/12/10 19:45	96.8	107.5	☑
38	L84FL	11/12/10 19:49	98.1	105.7	☑
39	L84FN	11/12/10 19:52	95.4	105.8	☑
40	L84FQ	11/12/10 19:56	98.3	108.1	☑
41	L84FR	11/12/10 19:59	99.2	108.4	☑
42	L84FT	11/12/10 20:03	99.2	107.2	☑
43	L84FV	11/12/10 20:06	98.8	107.6	☑
44	L84FW	11/12/10 20:09	98.6	107.8	☑
45	CCV	11/12/10 20:21	94.8	101.4	☑
46	CCB	11/12/10 20:25	96.3	103.0	☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 11/13/10 20:21:57

File ID: NOV1210BX.csv Analyst: VOTAWB

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
47	L819K	11/12/10 20:29	96.3	103.1	☑
48	L9DXDB	11/12/10 20:35	100.8	107.0	☑
49	L9DXDC	11/12/10 20:39	96.5	103.8	☑
50	L85JL	11/12/10 20:44	98.6	106.0	☑
51	L85JLP5	11/12/10 20:48	97.2	102.1	☑
52	L85JLZ	11/12/10 20:52	95.5	102.8	☑
53	L85JLS	11/12/10 20:56	95.0	102.8	☑
54	L85JLD	11/12/10 20:59	95.7	104.6	☑
55	L85J4	11/12/10 21:05	99.2	106.6	☑
56	L85J5	11/12/10 21:08	96.3	105.1	☑
57	CCV	11/12/10 21:12	95.0	102.7	☑
58	CCB	11/12/10 21:16	97.8	102.9	☑
59	L85J7	11/12/10 21:20	98.1	105.8	☑
60	L85KA	11/12/10 21:24	96.3	105.4	☑
61	L85KC	11/12/10 21:28	97.9	106.1	☑
62	L85KD	11/12/10 21:31	97.4	105.6	☑
63	L85KE	11/12/10 21:35	95.7	102.6	☑
64	L85KF	11/12/10 21:39	96.4	106.2	☑
65	L85KG	11/12/10 21:42	96.9	106.8	☑
66	L85KH	11/12/10 21:46	97.3	105.0	☑
67	L85KL	11/12/10 21:49	96.3	105.5	☑
68	L85KM	11/12/10 21:52	94.1	102.3	☑
69	CCV	11/12/10 21:58	93.0	102.4	☑
70	CCB	11/12/10 22:02	97.3	102.5	☑
71	L9DPWB	11/12/10 22:06	99.6	103.4	☑
72	L9DPWC	11/12/10 22:10	96.5	101.8	☑
73	L85KN	11/12/10 22:15	97.5	104.9	☑
74	L85KNP5	11/12/10 22:19	95.7	101.5	☑
75	L85KN	11/12/10 22:23	93.8	103.7	☑
76	L85KNS	11/12/10 22:27	95.9	103.1	☑
77	L85KND	11/12/10 22:30	95.6	104.2	☑
78	L85KP	11/12/10 22:36	96.5	104.7	☑
79	L85KR	11/12/10 22:39	96.3	103.1	☑
80	L85KT	11/12/10 22:43	95.0	105.5	☑
81	CCV	11/12/10 22:46	93.0	98.0	☑
82	CCB	11/12/10 22:50	95.4	100.6	☑
83	L85KW	11/12/10 22:54	95.5	103.5	☑
84	L85KX	11/12/10 22:58	96.6	103.2	☑
85	L85K0	11/12/10 23:02	98.1	103.8	☑
86	L85K1	11/12/10 23:06	95.6	102.8	☑
87	CCV	11/12/10 23:10	93.6	98.8	☑
88	CCB	11/12/10 23:14	94.9	98.6	☑
89	L9EV9B	11/12/10 23:18	100.7	102.1	☑
90	L9EV9C	11/12/10 23:21	96.1	100.7	☑
91	L85LR	11/12/10 23:27	97.3	103.8	☑
92	L85LRP5	11/12/10 23:31	95.4	100.4	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/13/10 20:21:57

File ID: NOV1210BX.csv Analyst: VOTAWB

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
93	L85LRZ	11/12/10 23:35	94.6	102.3	☑
94	L85LRS	11/12/10 23:38	95.4	101.9	☑
95	L85LRD	11/12/10 23:42	93.8	100.8	☑
96	L85LE	11/12/10 23:48	94.1	100.1	☑
97	L85LF	11/12/10 23:51	99.6	107.8	☑
98	L85LG	11/12/10 23:55	98.2	102.1	☑
99	CCV	11/12/10 23:59	93.4	98.0	☑
100	CCB	11/13/10 00:02	96.3	98.3	☑
101	L85LJ	11/13/10 00:06	96.7	102.8	☑
102	L85LK	11/13/10 00:10	96.0	101.6	☑
103	L85LL	11/13/10 00:14	96.9	102.4	☑
104	L85LM	11/13/10 00:18	96.6	103.5	☑
105	L85LN	11/13/10 00:22	96.4	102.0	☑
106	L85LP	11/13/10 00:26	93.6	99.4	☑
107	L85LQ	11/13/10 00:29	97.8	103.7	☑
108	L85LV	11/13/10 00:33	103.8	108.1	☑
109	L85LW	11/13/10 00:37	97.6	102.2	☑
110	L85LX	11/13/10 00:40	97.0	101.6	☑
111	CCV	11/13/10 00:44	92.7	96.6	☑
112	CCB	11/13/10 00:48	95.0	97.8	☑
113	L85L0	11/13/10 00:52	96.8	102.2	☑
114	L85L1	11/13/10 00:56	95.6	102.1	☑
115	L85L2	11/13/10 01:00	96.7	101.5	☑
116	CCV	11/13/10 01:04	93.2	95.1	☑
117	CCB	11/13/10 01:08	96.3	98.1	☑
118	L9TFHB	11/13/10 01:12	98.2	98.4	☑
119	L9TFHC	11/13/10 01:16	94.4	98.0	☑
120	L9TFHL	11/13/10 01:19	94.8	99.9	☑
121	L9PD0	11/13/10 01:25	97.5	100.5	☑
122	L9PD0P5	11/13/10 01:28	97.7	102.1	☑
123	L9PD0Z	11/13/10 01:32	95.1	98.2	☑
124	L9PD0X	11/13/10 01:36	97.8	98.8	☑
125	L9PD7	11/13/10 01:39	97.9	100.5	☑
126	L9PEA	11/13/10 01:43	99.2	100.5	☑
127	L9PED	11/13/10 01:47	98.0	101.2	☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:31:28

Method: 6010 **Instrument: PE ICP2** **Batch: NOV1210BX.csv**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV4	ICV	NOV1210BX.csv, 7	11/12/2010 17:00:59	☐
ICV2A	ICV	NOV1210BX.csv, 8	11/12/2010 17:04:53	☐
ICB	ICB	NOV1210BX.csv, 9	11/12/2010 17:11:04	☐
ICSA	ICSA	NOV1210BX.csv, 12	11/12/2010 17:22:28	☐
ICSAB_4.0	ICSAB	NOV1210BX.csv, 15	11/12/2010 17:44:59	☐
CCV	CCV	NOV1210BX.csv, 21	11/12/2010 18:23:23	☐
CCB	CCB	NOV1210BX.csv, 22	11/12/2010 18:27:20	☐
CCV	CCV	NOV1210BX.csv, 33	11/12/2010 19:31:19	☐
CCB	CCB	NOV1210BX.csv, 34	11/12/2010 19:35:14	☐
CCV	CCV	NOV1210BX.csv, 45	11/12/2010 20:21:27	☐
CCB	CCB	NOV1210BX.csv, 46	11/12/2010 20:25:23	☐
CCV	CCV	NOV1210BX.csv, 57	11/12/2010 21:12:49	☐
CCB	CCB	NOV1210BX.csv, 58	11/12/2010 21:16:52	☐
CCV	CCV	NOV1210BX.csv, 69	11/12/2010 21:58:37	☐
CCB	CCB	NOV1210BX.csv, 70	11/12/2010 22:02:32	☐
CCV	CCV	NOV1210BX.csv, 81	11/12/2010 22:46:38	☐
CCB	CCB	NOV1210BX.csv, 82	11/12/2010 22:50:33	☐
CCV	CCV	NOV1210BX.csv, 87	11/12/2010 23:10:24	☐
CCB	CCB	NOV1210BX.csv, 88	11/12/2010 23:14:20	☐
CCV	CCV	NOV1210BX.csv, 99	11/12/2010 23:59:03	☐
CCB	CCB	NOV1210BX.csv, 100	11/13/2010 00:02:59	☐
CCV	CCV	NOV1210BX.csv, 111	11/13/2010 00:44:40	☐
CCB	CCB	NOV1210BX.csv, 112	11/13/2010 00:48:36	☐
CCV	CCV	NOV1210BX.csv, 116	11/13/2010 01:04:24	☐
CCB	CCB	NOV1210BX.csv, 117	11/13/2010 01:08:22	☐

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:31:28

Department: 120 (Metals) | Source: OPTIMA

Sample: **ICV4 (ICV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV1210BX.csv # 7 | Method 6010O
Acquired: 11/12/2010 17:00:59 | PE ICP2
Calibrated: 11/12/2010 16:39:30 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.25202	0.25000	101	☑
7440-38-2	Arsenic		0.26123	0.25000	104	☑
7440-42-8	Boron		0.48777	0.50000	97.6	☑
7440-39-3	Barium		1.0042	1.0000	100	☑
7440-70-2	Calcium		10.207	10.000	102	☑
7440-47-3	Chromium		1.0008	1.0000	100	☑
7440-50-8	Copper		0.98245	1.0000	98.2	☑
7440-09-7	Potassium		9.4544	10.000	94.5	☑
7439-93-2	Lithium		1.0934	1.0000	109	☑
7439-95-4	Magnesium		10.315	10.000	103	☑
7439-96-5	Manganese		1.0213	1.0000	102	☑
7439-98-7	Molybdenum		0.50067	0.50000	100	☑
7440-02-0	Nickel		1.0138	1.0000	101	☑
7439-92-1	Lead		0.25636	0.25000	103	☑
7440-36-0	Antimony		0.26238	0.25000	105	☑
7782-49-2	Selenium		0.24452	0.25000	97.8	☑
7440-21-3	Silicon		1.0056		*	
7440-31-5	Tin		1.0047	1.0000	100	☑
7440-28-0	Thallium		0.25423	0.25000	102	☑
7440-66-6	Zinc		0.99709	1.0000	99.7	☑
7429-90-5	Aluminum		10.174	10.000	102	☑
7440-41-7	Beryllium		0.25169	0.25000	101	☑
7440-43-9	Cadmium		0.25397	0.25000	102	☑
7440-48-4	Cobalt		1.0109	1.0000	101	☑
7439-89-6	Iron		10.528	10.000	105	☑
7439-89-6	Iron		10.421	10.000	104	☑
7440-23-5	Sodium		9.4946	10.000	94.9	☑
7440-23-5	Sodium		11.641	10.000	116	☑
7723-14-0	Phosphorus		1.0217	1.0000	102	☑
7723-14-0	Phosphorus		0.96699	1.0000	96.7	☑
7704-34-9	Sulfur		0.63854		*	
7704-34-9	Sulfur		0.39638		*	
7704-34-9	Sulfur		0.32818		*	
7704-34-9	Sulfur		0.45305		*	
7440-21-3	Silicon		0.97492		*	
7440-24-6	Strontium		0.90636	1.0000	90.6	☑
7440-24-6	Strontium		1.0006	1.0000	100	☑
7440-32-6	Titanium		0.49704	0.50000	99.4	☑
7440-32-6	Titanium		0.50176	0.50000	100	☑
7440-62-2	Vanadium		0.99079	1.0000	99.1	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.537	☑
R7440655	Y_ Radial		101.03	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **ICV2A (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 8 Method 6010O
Acquired: 11/12/2010 17:04:53 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.00028		*	
7440-38-2	Arsenic		0.00910		*	
7440-42-8	Boron		-0.00022		*	
7440-39-3	Barium		0.00022		*	
7440-70-2	Calcium		0.00547		*	
7440-47-3	Chromium		0.00039		*	
7440-50-8	Copper		0.00091		*	
7440-09-7	Potassium		0.31068		*	
7439-93-2	Lithium		-0.00836		*	
7439-95-4	Magnesium		0.01516		*	
7439-96-5	Manganese		-0.00024		*	
7439-98-7	Molybdenum		0.00016		*	
7440-02-0	Nickel		0.00092		*	
7439-92-1	Lead		0.00121		*	
7440-36-0	Antimony		0.24322	0.25000	97.3	☑
7782-49-2	Selenium		0.00744		*	
7440-21-3	Silicon		0.96413	1.0000	96.4	☑
7440-31-5	Tin		0.00137		*	
7440-28-0	Thallium		0.00360		*	
7440-66-6	Zinc		0.00198		*	
7429-90-5	Aluminum		0.05733		*	
7440-41-7	Beryllium		0.00006		*	
7440-43-9	Cadmium		0.00006		*	
7440-48-4	Cobalt		-0.00055		*	
7439-89-6	Iron		0.00204		*	
7439-89-6	Iron		-0.01573		*	
7440-23-5	Sodium		24.221	25.000	96.9	☑
7440-23-5	Sodium		23.449	25.000	93.8	☑
7723-14-0	Phosphorus		2.0598	2.0000	103	☑
7723-14-0	Phosphorus		2.0036	2.0000	100	☑
7704-34-9	Sulfur		2.0737	2.0000	104	☑
7704-34-9	Sulfur		1.9232	2.0000	96.2	☑
7704-34-9	Sulfur		2.0308	2.0000	102	☑
7704-34-9	Sulfur		1.9332	2.0000	96.7	☑
7440-21-3	Silicon		0.95776	1.0000	95.8	☑
7440-24-6	Strontium		0.26360		*	
7440-24-6	Strontium		0.00056		*	
7440-32-6	Titanium		0.00089		*	
7440-32-6	Titanium		0.00451		*	
7440-62-2	Vanadium		0.00008		*	

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.697	☑
R7440655	Y_ Radial		101.42	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 9 Method 6010O
Acquired: 11/12/2010 17:11:04 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00011	0.0050	0.0010	0.00023	☑
7440-38-2	Arsenic		0.00340	0.010	0.0070	0.0022	☑
7440-42-8	Boron		-0.00754	0.10	0.010	0.00047	☑
7440-39-3	Barium		0.00014	0.0050	0.0040	0.00010	☑
7440-70-2	Calcium		-0.00647	0.50	0.10	0.0029	☑
7440-47-3	Chromium		-0.00037	0.0050	0.0040	0.00054	☑
7440-50-8	Copper		0.00029	0.0050	0.0050	0.00091	☑
7440-09-7	Potassium		-0.10098	1.0	0.25	0.011	☑
7439-93-2	Lithium		-0.00734	0.010	0.0060	0.0073	☑
7439-95-4	Magnesium		0.00541	0.50	0.075	0.0052	☑
7439-96-5	Manganese		0.00043	0.0050	0.0010	0.00058	☑
7439-98-7	Molybdenum		-0.00102	0.010	0.010	0.000023	☑
7440-02-0	Nickel		0.00043	0.0050	0.0030	0.00028	☑
7439-92-1	Lead		0.00078	0.0030	0.0030	0.00062	☑
7440-36-0	Antimony		0.00216	0.010	0.0050	0.0012	☑
7782-49-2	Selenium		0.00700	0.0050	0.0070	0.0066	☑
7440-21-3	Silicon		0.00193	0.10	0.0050	0.00029	☑
7440-31-5	Tin		0.00066	0.020	0.012	0.00011	☑
7440-28-0	Thallium		0.00028	0.010	0.0050	0.0071	☑
7440-66-6	Zinc		0.00055	0.0050	0.0070	0.000067	☑
7429-90-5	Aluminum		-0.00140	0.10	0.035	0.017	☑
7440-41-7	Beryllium		-0.00000	0.0020	0.0010	0.000094	☑
7440-43-9	Cadmium		0.00001	0.0020	0.0010	0.000047	☑
7440-48-4	Cobalt		-0.00051	0.0050	0.0020	0.000055	☑
7439-89-6	Iron		-0.00104	0.050	0.016	0.00066	☑
7439-89-6	Iron		-0.02421	0.050	0.016	0.017	☑
7440-23-5	Sodium		0.00912	0.50	0.25	0.029	☑
7440-23-5	Sodium		-0.09230	0.50	0.25	1.7	☑
7723-14-0	Phosphorus		0.00122	0.30	0.013	0.00033	☑
7723-14-0	Phosphorus		-0.00258	0.30	0.013	0.0078	☑
7704-34-9	Sulfur		0.00148	0.10	0.074	0.031	☑
7704-34-9	Sulfur		-0.16199	0.10	0.074	0.32	☑
7704-34-9	Sulfur		-0.02153	0.10	0.074	0.0080	☑
7704-34-9	Sulfur		-0.10317	0.10	0.074	0.11	☑
7440-21-3	Silicon		-0.00981	0.10	0.0050	0.0053	☑
7440-24-6	Strontium		0.11676	0.050	0.0050	0.0081	☐
7440-24-6	Strontium		0.00009	0.050	0.0050	0.0000050	☑
7440-32-6	Titanium		0.00006	0.010	0.0030	0.0019	☑
7440-32-6	Titanium		0.00095	0.010	0.0030	0.000047	☑
7440-62-2	Vanadium		0.00022	0.0050	0.0020	0.00022	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.118	☑
R7440655	Y_ Radial		100.46	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 12 Method 6010O
Acquired: 11/12/2010 17:22:28 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		-0.00143		*	☑
7440-38-2	Arsenic		0.00242		*	☑
7440-42-8	Boron		-0.01836		*	☑
7440-39-3	Barium		0.00241		*	☑
7440-70-2	Calcium		494.30	500.00	98.9	☑
7440-47-3	Chromium		0.00411		*	☑
7440-50-8	Copper		0.00106		*	☑
7440-09-7	Potassium		-0.25886		*	☑
7439-93-2	Lithium		-0.00237		*	☑
7439-95-4	Magnesium		521.80	500.00	104	☑
7439-96-5	Manganese		-0.00090		*	☑
7439-98-7	Molybdenum		0.00112		*	☑
7440-02-0	Nickel		0.00193		*	☑
7439-92-1	Lead		-0.00410		*	☑
7440-36-0	Antimony		0.01392		*	
7782-49-2	Selenium		-0.01024		*	☑
7440-21-3	Silicon		0.03107		*	☑
7440-31-5	Tin		0.00849		*	☑
7440-28-0	Thallium		-0.01999		*	☑
7440-66-6	Zinc		0.00230		*	☑
7429-90-5	Aluminum		503.30	500.00	101	☑
7440-41-7	Beryllium		0.00002		*	☑
7440-43-9	Cadmium		-0.00073		*	☑
7440-48-4	Cobalt		-0.00288		*	☑
7439-89-6	Iron		206.74	200.00	103	☑
7439-89-6	Iron		209.10	200.00	105	☑
7440-23-5	Sodium		-0.03453		*	☑
7440-23-5	Sodium		-0.96968		*	☑
7723-14-0	Phosphorus		-0.08212		*	☑
7723-14-0	Phosphorus		0.03444		*	☑
7704-34-9	Sulfur		2.8102		*	
7704-34-9	Sulfur		4.1914		*	
7704-34-9	Sulfur		1.1664		*	
7704-34-9	Sulfur		-5.9048		*	☑
7440-21-3	Silicon		0.05366		*	☑
7440-24-6	Strontium		0.06949		*	
7440-24-6	Strontium		0.02772		*	☑
7440-32-6	Titanium		0.00325		*	☑
7440-32-6	Titanium		0.00258		*	☑
7440-62-2	Vanadium		0.00342		*	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		88.829	☑
R7440655	Y_ Radial		97.336	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **ICSAB_4.0** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 15 Method 6010O
Acquired: 11/12/2010 17:44:59 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.21814	0.20000	109	☑
7440-38-2	Arsenic		0.09711	0.10000	97.1	☑
7440-42-8	Boron		-0.02600		*	
7440-39-3	Barium		0.47050	0.50000	94.1	☑
7440-70-2	Calcium		500.50	500.00	100	☑
7440-47-3	Chromium		0.50613	0.50000	101	☑
7440-50-8	Copper		0.53434	0.50000	107	☑
7440-09-7	Potassium		-0.27116		*	
7439-93-2	Lithium		-0.00375		*	
7439-95-4	Magnesium		515.06	500.00	103	☑
7439-96-5	Manganese		0.49667	0.50000	99.3	☑
7439-98-7	Molybdenum		0.00585		*	
7440-02-0	Nickel		0.97601	1.0000	97.6	☑
7439-92-1	Lead		0.04669	0.050000	93.4	☑
7440-36-0	Antimony		0.58423	0.60000	97.4	☑
7782-49-2	Selenium		0.08234	0.050000	165	☐
7440-21-3	Silicon		0.03531		*	
7440-31-5	Tin		0.00847		*	
7440-28-0	Thallium		0.10955	0.10000	110	☑
7440-66-6	Zinc		0.95712	1.0000	95.7	☑
7429-90-5	Aluminum		509.92	500.00	102	☑
7440-41-7	Beryllium		0.51006	0.50000	102	☑
7440-43-9	Cadmium		0.98960	1.0000	99.0	☑
7440-48-4	Cobalt		0.49387	0.50000	98.8	☑
7439-89-6	Iron		201.20	200.00	101	☑
7439-89-6	Iron		206.05	200.00	103	☑
7440-23-5	Sodium		-0.03757		*	
7440-23-5	Sodium		5.0013		*	
7723-14-0	Phosphorus		-0.08640		*	
7723-14-0	Phosphorus		-0.00347		*	
7704-34-9	Sulfur		3.1018		*	
7704-34-9	Sulfur		5.5384		*	
7704-34-9	Sulfur		1.1964		*	
7704-34-9	Sulfur		-5.7186		*	
7440-21-3	Silicon		0.05832		*	
7440-24-6	Strontium		0.13363		*	
7440-24-6	Strontium		0.02762		*	
7440-32-6	Titanium		0.00239		*	
7440-32-6	Titanium		-0.00146		*	
7440-62-2	Vanadium		0.51333	0.50000	103	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		89.500	☑
R7440655	Y_ Radial		98.618	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:31:28

Department: 120 (Metals) | Source: OPTIMA

Sample: **CCV (CCV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV1210BX.csv # 21 | Method 6010O
Acquired: 11/12/2010 18:23:23 | PE ICP2
Calibrated: 11/12/2010 16:39:30 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.51734	0.50000	103	☑
7440-38-2	Arsenic		0.51881	0.50000	104	☑
7440-42-8	Boron		0.97263	1.0000	97.3	☑
7440-39-3	Barium		2.5828	2.5000	103	☑
7440-70-2	Calcium		26.203	25.000	105	☑
7440-47-3	Chromium		2.5755	2.5000	103	☑
7440-50-8	Copper		2.5232	2.5000	101	☑
7440-09-7	Potassium		24.813	25.000	99.3	☑
7439-93-2	Lithium		2.4801	2.5000	99.2	☑
7439-95-4	Magnesium		26.557	25.000	106	☑
7439-96-5	Manganese		2.5968	2.5000	104	☑
7439-98-7	Molybdenum		1.0273	1.0000	103	☑
7440-02-0	Nickel		2.5807	2.5000	103	☑
7439-92-1	Lead		0.51132	0.50000	102	☑
7440-36-0	Antimony		0.52453	0.50000	105	☑
7782-49-2	Selenium		0.51633	0.50000	103	☑
7440-21-3	Silicon		2.6248	2.5000	105	☑
7440-31-5	Tin		2.5593	2.5000	102	☑
7440-28-0	Thallium		0.50989	0.50000	102	☑
7440-66-6	Zinc		2.5711	2.5000	103	☑
7429-90-5	Aluminum		26.226	25.000	105	☑
7440-41-7	Beryllium		0.52495	0.50000	105	☑
7440-43-9	Cadmium		0.51312	0.50000	103	☑
7440-48-4	Cobalt		2.5947	2.5000	104	☑
7439-89-6	Iron		26.203	25.000	105	☑
7439-89-6	Iron		26.125	25.000	105	☑
7440-23-5	Sodium		24.606	25.000	98.4	☑
7440-23-5	Sodium		34.586	25.000	138	☑
7723-14-0	Phosphorus		2.5920	2.5000	104	☑
7723-14-0	Phosphorus		2.4817	2.5000	99.3	☑
7704-34-9	Sulfur		4.2205	25.000	16.9	☐
7704-34-9	Sulfur		2.8864	25.000	11.5	☐
7704-34-9	Sulfur		3.2818	25.000	13.1	☐
7704-34-9	Sulfur		3.0630	25.000	12.3	☐
7440-21-3	Silicon		2.6067	2.5000	104	☑
7440-24-6	Strontium		2.5593	2.5000	102	☑
7440-24-6	Strontium		2.5606	2.5000	102	☑
7440-32-6	Titanium		1.0046	1.0000	100	☑
7440-32-6	Titanium		1.0024	1.0000	100	☑
7440-62-2	Vanadium		2.5577	2.5000	102	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		94.404	☑
R7440655	Y_ Radial		99.241	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 22 Method 6010O
Acquired: 11/12/2010 18:27:20 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		-0.00018	0.0050	0.0010	0.00029	☑
7440-38-2	Arsenic		0.00017	0.010	0.0070	0.00062	☑
7440-42-8	Boron		-0.01370	0.10	0.010	0.0013	☑
7440-39-3	Barium		-0.00007	0.0050	0.0040	0.00015	☑
7440-70-2	Calcium		-0.00527	0.50	0.10	0.00059	☑
7440-47-3	Chromium		-0.00064	0.0050	0.0040	0.00027	☑
7440-50-8	Copper		0.00010	0.0050	0.0050	0.00034	☑
7440-09-7	Potassium		-0.05566	1.0	0.25	0.059	☑
7439-93-2	Lithium		-0.00140	0.010	0.0060	0.00062	☑
7439-95-4	Magnesium		0.01003	0.50	0.075	0.013	☑
7439-96-5	Manganese		-0.00000	0.0050	0.0010	0.000085	☑
7439-98-7	Molybdenum		0.00056	0.010	0.010	0.00044	☑
7440-02-0	Nickel		0.00044	0.0050	0.0030	0.00021	☑
7439-92-1	Lead		-0.00011	0.0030	0.0030	0.00037	☑
7440-36-0	Antimony		0.00166	0.010	0.0050	0.0023	☑
7782-49-2	Selenium		-0.00025	0.0050	0.0070	0.0069	☑
7440-21-3	Silicon		0.00380	0.10	0.0050	0.000065	☑
7440-31-5	Tin		0.00138	0.020	0.012	0.000017	☑
7440-28-0	Thallium		0.00317	0.010	0.0050	0.0023	☑
7440-66-6	Zinc		0.00015	0.0050	0.0070	0.00012	☑
7429-90-5	Aluminum		-0.02105	0.10	0.035	0.021	☑
7440-41-7	Beryllium		-0.00003	0.0020	0.0010	0.00020	☑
7440-43-9	Cadmium		0.00006	0.0020	0.0010	0.0000060	☑
7440-48-4	Cobalt		0.00015	0.0050	0.0020	0.00016	☑
7439-89-6	Iron		-0.00068	0.050	0.016	0.00094	☑
7439-89-6	Iron		0.00167	0.050	0.016	0.017	☑
7440-23-5	Sodium		0.01802	0.50	0.25	0.020	☑
7440-23-5	Sodium		0.56735	0.50	0.25	0.52	☐
7723-14-0	Phosphorus		-0.00164	0.30	0.013	0.0010	☑
7723-14-0	Phosphorus		-0.02434	0.30	0.013	0.00075	☑
7704-34-9	Sulfur		0.01361	0.10	0.074	0.037	☑
7704-34-9	Sulfur		-0.08616	0.10	0.074	0.68	☑
7704-34-9	Sulfur		-0.04788	0.10	0.074	0.0045	☑
7704-34-9	Sulfur		-0.00946	0.10	0.074	0.080	☑
7440-21-3	Silicon		0.00271	0.10	0.0050	0.023	☑
7440-24-6	Strontium		0.01634	0.050	0.0050	0.047	☐
7440-24-6	Strontium		0.00024	0.050	0.0050	0.000049	☑
7440-32-6	Titanium		-0.00017	0.010	0.0030	0.00062	☑
7440-32-6	Titanium		0.00111	0.010	0.0030	0.0051	☑
7440-62-2	Vanadium		0.00064	0.0050	0.0020	0.00033	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.471	☑
R7440655	Y_ Radial		101.88	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:31:28

Department: 120 (Metals) | Source: OPTIMA

Sample: **CCV (CCV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV1210BX.csv # 33 | Method 6010O
Acquired: 11/12/2010 19:31:19 | PE ICP2
Calibrated: 11/12/2010 16:39:30 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.50687	0.50000	101	☑
7440-38-2	Arsenic		0.48998	0.50000	98.0	☑
7440-42-8	Boron		0.95751	1.0000	95.8	☑
7440-39-3	Barium		2.5391	2.5000	102	☑
7440-70-2	Calcium		25.683	25.000	103	☑
7440-47-3	Chromium		2.5268	2.5000	101	☑
7440-50-8	Copper		2.5008	2.5000	100	☑
7440-09-7	Potassium		24.081	25.000	96.3	☑
7439-93-2	Lithium		2.4694	2.5000	98.8	☑
7439-95-4	Magnesium		26.576	25.000	106	☑
7439-96-5	Manganese		2.5415	2.5000	102	☑
7439-98-7	Molybdenum		0.99297	1.0000	99.3	☑
7440-02-0	Nickel		2.5343	2.5000	101	☑
7439-92-1	Lead		0.49845	0.50000	99.7	☑
7440-36-0	Antimony		0.49593	0.50000	99.2	☑
7782-49-2	Selenium		0.49340	0.50000	98.7	☑
7440-21-3	Silicon		2.5772	2.5000	103	☑
7440-31-5	Tin		2.4896	2.5000	99.6	☑
7440-28-0	Thallium		0.49233	0.50000	98.5	☑
7440-66-6	Zinc		2.5014	2.5000	100	☑
7429-90-5	Aluminum		25.841	25.000	103	☑
7440-41-7	Beryllium		0.51675	0.50000	103	☑
7440-43-9	Cadmium		0.50215	0.50000	100	☑
7440-48-4	Cobalt		2.5370	2.5000	101	☑
7439-89-6	Iron		25.968	25.000	104	☑
7439-89-6	Iron		25.015	25.000	100	☑
7440-23-5	Sodium		23.807	25.000	95.2	☑
7440-23-5	Sodium		31.411	25.000	126	☑
7723-14-0	Phosphorus		2.5198	2.5000	101	☑
7723-14-0	Phosphorus		2.1800	2.5000	87.2	☐
7704-34-9	Sulfur		3.9731	25.000	15.9	☐
7704-34-9	Sulfur		2.6634	25.000	10.7	☐
7704-34-9	Sulfur		3.1959	25.000	12.8	☐
7704-34-9	Sulfur		3.1004	25.000	12.4	☐
7440-21-3	Silicon		2.5471	2.5000	102	☑
7440-24-6	Strontium		2.5102	2.5000	100	☑
7440-24-6	Strontium		2.5390	2.5000	102	☑
7440-32-6	Titanium		1.0221	1.0000	102	☑
7440-32-6	Titanium		0.98774	1.0000	98.8	☑
7440-62-2	Vanadium		2.5437	2.5000	102	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.084	☑
R7440655	Y_ Radial		101.97	☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:31:28

Department: 120 (Metals) | Source: OPTIMA

Sample: **CCB** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV1210BX.csv # 34 | Method 6010O
Acquired: 11/12/2010 19:35:14 | PE ICP2
Calibrated: 11/12/2010 16:39:30 | Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00011	0.0050	0.0010	0.00065	☑
7440-38-2	Arsenic		-0.00016	0.010	0.0070	0.0029	☑
7440-42-8	Boron		-0.01389	0.10	0.010	0.0011	☑
7440-39-3	Barium		-0.00010	0.0050	0.0040	0.000041	☑
7440-70-2	Calcium		-0.00060	0.50	0.10	0.0062	☑
7440-47-3	Chromium		-0.00026	0.0050	0.0040	0.00045	☑
7440-50-8	Copper		-0.00038	0.0050	0.0050	0.000093	☑
7440-09-7	Potassium		-0.13848	1.0	0.25	0.021	☑
7439-93-2	Lithium		-0.00455	0.010	0.0060	0.0030	☑
7439-95-4	Magnesium		0.00365	0.50	0.075	0.0044	☑
7439-96-5	Manganese		0.00088	0.0050	0.0010	0.00073	☑
7439-98-7	Molybdenum		-0.00004	0.010	0.010	0.00084	☑
7440-02-0	Nickel		0.00032	0.0050	0.0030	0.000088	☑
7439-92-1	Lead		-0.00064	0.0030	0.0030	0.00093	☑
7440-36-0	Antimony		-0.00057	0.010	0.0050	0.0020	☑
7782-49-2	Selenium		0.00657	0.0050	0.0070	0.0014	☑
7440-21-3	Silicon		0.00532	0.10	0.0050	0.00080	☐
7440-31-5	Tin		0.00014	0.020	0.012	0.000030	☑
7440-28-0	Thallium		0.00385	0.010	0.0050	0.0062	☑
7440-66-6	Zinc		-0.00031	0.0050	0.0070	0.00017	☑
7429-90-5	Aluminum		-0.00383	0.10	0.035	0.017	☑
7440-41-7	Beryllium		0.00025	0.0020	0.0010	0.0000080	☑
7440-43-9	Cadmium		0.00004	0.0020	0.0010	0.000025	☑
7440-48-4	Cobalt		0.00045	0.0050	0.0020	0.000063	☑
7439-89-6	Iron		0.00038	0.050	0.016	0.00033	☑
7439-89-6	Iron		-0.00716	0.050	0.016	0.012	☑
7440-23-5	Sodium		-0.03317	0.50	0.25	0.0098	☑
7440-23-5	Sodium		-0.62339	0.50	0.25	0.20	☑
7723-14-0	Phosphorus		-0.00224	0.30	0.013	0.0011	☑
7723-14-0	Phosphorus		-0.07901	0.30	0.013	0.012	☑
7704-34-9	Sulfur		-0.04766	0.10	0.074	0.0070	☑
7704-34-9	Sulfur		-0.23109	0.10	0.074	0.039	☐
7704-34-9	Sulfur		-0.04765	0.10	0.074	0.0015	☑
7704-34-9	Sulfur		0.02451	0.10	0.074	0.15	☑
7440-21-3	Silicon		0.00004	0.10	0.0050	0.0060	☑
7440-24-6	Strontium		0.08978	0.050	0.0050	0.045	☐
7440-24-6	Strontium		0.00000	0.050	0.0050	0.000074	☑
7440-32-6	Titanium		-0.00121	0.010	0.0030	0.0020	☑
7440-32-6	Titanium		-0.00081	0.010	0.0030	0.00065	☑
7440-62-2	Vanadium		0.00036	0.0050	0.0020	0.0013	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.726	☑
R7440655	Y_ Radial		103.87	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 45 Method 6010O
Acquired: 11/12/2010 20:21:27 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.51287	0.50000	103	☑
7440-38-2	Arsenic		0.49836	0.50000	99.7	☑
7440-42-8	Boron		0.95627	1.0000	95.6	☑
7440-39-3	Barium		2.5557	2.5000	102	☑
7440-70-2	Calcium		25.340	25.000	101	☑
7440-47-3	Chromium		2.5466	2.5000	102	☑
7440-50-8	Copper		2.5061	2.5000	100	☑
7440-09-7	Potassium		24.057	25.000	96.2	☑
7439-93-2	Lithium		2.4798	2.5000	99.2	☑
7439-95-4	Magnesium		25.945	25.000	104	☑
7439-96-5	Manganese		2.4482	2.5000	97.9	☑
7439-98-7	Molybdenum		0.99362	1.0000	99.4	☑
7440-02-0	Nickel		2.5480	2.5000	102	☑
7439-92-1	Lead		0.50127	0.50000	100	☑
7440-36-0	Antimony		0.49496	0.50000	99.0	☑
7782-49-2	Selenium		0.50355	0.50000	101	☑
7440-21-3	Silicon		2.6164	2.5000	105	☑
7440-31-5	Tin		2.4962	2.5000	99.8	☑
7440-28-0	Thallium		0.48711	0.50000	97.4	☑
7440-66-6	Zinc		2.5025	2.5000	100	☑
7429-90-5	Aluminum		25.770	25.000	103	☑
7440-41-7	Beryllium		0.50715	0.50000	101	☑
7440-43-9	Cadmium		0.50195	0.50000	100	☑
7440-48-4	Cobalt		2.5606	2.5000	102	☑
7439-89-6	Iron		25.742	25.000	103	☑
7439-89-6	Iron		23.678	25.000	94.7	☑
7440-23-5	Sodium		23.867	25.000	95.5	☑
7440-23-5	Sodium		33.487	25.000	134	☑
7723-14-0	Phosphorus		2.5060	2.5000	100	☑
7723-14-0	Phosphorus		2.1161	2.5000	84.6	☐
7704-34-9	Sulfur		4.0547	25.000	16.2	☐
7704-34-9	Sulfur		3.0296	25.000	12.1	☐
7704-34-9	Sulfur		3.1893	25.000	12.8	☐
7704-34-9	Sulfur		3.1719	25.000	12.7	☐
7440-21-3	Silicon		2.4654	2.5000	98.6	☑
7440-24-6	Strontium		2.3875	2.5000	95.5	☑
7440-24-6	Strontium		2.5471	2.5000	102	☑
7440-32-6	Titanium		1.0203	1.0000	102	☑
7440-32-6	Titanium		0.98599	1.0000	98.6	☑
7440-62-2	Vanadium		2.5140	2.5000	101	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		94.808	☑
R7440655	Y_ Radial		101.42	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 46 Method 6010O
Acquired: 11/12/2010 20:25:23 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00053	0.0050	0.0010	0.00056	☑
7440-38-2	Arsenic		0.00414	0.010	0.0070	0.0025	☑
7440-42-8	Boron		-0.01694	0.10	0.010	0.0017	☑
7440-39-3	Barium		0.00037	0.0050	0.0040	0.00012	☑
7440-70-2	Calcium		-0.00367	0.50	0.10	0.0028	☑
7440-47-3	Chromium		-0.00008	0.0050	0.0040	0.00053	☑
7440-50-8	Copper		0.00042	0.0050	0.0050	0.00064	☑
7440-09-7	Potassium		-0.11747	1.0	0.25	0.046	☑
7439-93-2	Lithium		-0.00291	0.010	0.0060	0.0014	☑
7439-95-4	Magnesium		-0.00729	0.50	0.075	0.012	☑
7439-96-5	Manganese		-0.00008	0.0050	0.0010	0.00014	☑
7439-98-7	Molybdenum		0.00046	0.010	0.010	0.00019	☑
7440-02-0	Nickel		0.00145	0.0050	0.0030	0.00084	☑
7439-92-1	Lead		0.00120	0.0030	0.0030	0.0023	☑
7440-36-0	Antimony		-0.00510	0.010	0.0050	0.0022	☑
7782-49-2	Selenium		0.01158	0.0050	0.0070	0.0025	☑
7440-21-3	Silicon		0.01010	0.10	0.0050	0.000089	☑
7440-31-5	Tin		0.00047	0.020	0.012	0.0011	☑
7440-28-0	Thallium		0.00138	0.010	0.0050	0.0071	☑
7440-66-6	Zinc		0.00025	0.0050	0.0070	0.00052	☑
7429-90-5	Aluminum		0.00270	0.10	0.035	0.013	☑
7440-41-7	Beryllium		0.00006	0.0020	0.0010	0.000059	☑
7440-43-9	Cadmium		0.00004	0.0020	0.0010	0.000010	☑
7440-48-4	Cobalt		-0.00082	0.0050	0.0020	0.00089	☑
7439-89-6	Iron		-0.00007	0.050	0.016	0.00018	☑
7439-89-6	Iron		-0.00434	0.050	0.016	0.0012	☑
7440-23-5	Sodium		-0.02339	0.50	0.25	0.0023	☑
7440-23-5	Sodium		1.1365	0.50	0.25	1.9	☐
7723-14-0	Phosphorus		-0.00318	0.30	0.013	0.0044	☑
7723-14-0	Phosphorus		-0.07308	0.30	0.013	0.0074	☑
7704-34-9	Sulfur		0.02365	0.10	0.074	0.0080	☑
7704-34-9	Sulfur		-0.20738	0.10	0.074	0.053	☐
7704-34-9	Sulfur		-0.05037	0.10	0.074	0.0011	☑
7704-34-9	Sulfur		-0.14134	0.10	0.074	0.14	☑
7440-21-3	Silicon		-0.02224	0.10	0.0050	0.012	☑
7440-24-6	Strontium		0.04670	0.050	0.0050	0.099	☐
7440-24-6	Strontium		0.00024	0.050	0.0050	0.000030	☑
7440-32-6	Titanium		0.00011	0.010	0.0030	0.00054	☑
7440-32-6	Titanium		0.00266	0.010	0.0030	0.00016	☑
7440-62-2	Vanadium		0.00006	0.0050	0.0020	0.0012	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.307	☑
R7440655	Y_ Radial		102.99	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:31:28

Department: 120 (Metals) | Source: OPTIMA

Sample: **CCV (CCV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV1210BX.csv # 57 | Method 6010O
Acquired: 11/12/2010 21:12:49 | PE ICP2
Calibrated: 11/12/2010 16:39:30 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.51295	0.50000	103	☑
7440-38-2	Arsenic		0.47972	0.50000	95.9	☑
7440-42-8	Boron		0.95281	1.0000	95.3	☑
7440-39-3	Barium		2.5306	2.5000	101	☑
7440-70-2	Calcium		25.125	25.000	101	☑
7440-47-3	Chromium		2.5469	2.5000	102	☑
7440-50-8	Copper		2.4947	2.5000	99.8	☑
7440-09-7	Potassium		23.942	25.000	95.8	☑
7439-93-2	Lithium		2.5113	2.5000	100	☑
7439-95-4	Magnesium		24.569	25.000	98.3	☑
7439-96-5	Manganese		2.3307	2.5000	93.2	☑
7439-98-7	Molybdenum		0.97933	1.0000	97.9	☑
7440-02-0	Nickel		2.5166	2.5000	101	☑
7439-92-1	Lead		0.49791	0.50000	99.6	☑
7440-36-0	Antimony		0.48859	0.50000	97.7	☑
7782-49-2	Selenium		0.48846	0.50000	97.7	☑
7440-21-3	Silicon		2.5505	2.5000	102	☑
7440-31-5	Tin		2.4769	2.5000	99.1	☑
7440-28-0	Thallium		0.48623	0.50000	97.2	☑
7440-66-6	Zinc		2.4603	2.5000	98.4	☑
7429-90-5	Aluminum		25.534	25.000	102	☑
7440-41-7	Beryllium		0.50035	0.50000	100	☑
7440-43-9	Cadmium		0.49502	0.50000	99.0	☑
7440-48-4	Cobalt		2.5283	2.5000	101	☑
7439-89-6	Iron		25.280	25.000	101	☑
7439-89-6	Iron		22.676	25.000	90.7	☑
7440-23-5	Sodium		23.888	25.000	95.6	☑
7440-23-5	Sodium		29.972	25.000	120	☑
7723-14-0	Phosphorus		2.4666	2.5000	98.7	☑
7723-14-0	Phosphorus		2.1114	2.5000	84.5	☐
7704-34-9	Sulfur		3.9471	25.000	15.8	☐
7704-34-9	Sulfur		2.8768	25.000	11.5	☐
7704-34-9	Sulfur		3.1689	25.000	12.7	☐
7704-34-9	Sulfur		3.2743	25.000	13.1	☐
7440-21-3	Silicon		2.3290	2.5000	93.2	☑
7440-24-6	Strontium		2.3993	2.5000	96.0	☑
7440-24-6	Strontium		2.5398	2.5000	102	☑
7440-32-6	Titanium		0.98664	1.0000	98.7	☑
7440-32-6	Titanium		0.93635	1.0000	93.6	☑
7440-62-2	Vanadium		2.4978	2.5000	99.9	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		94.994	☑
R7440655	Y_ Radial		102.74	☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 58 Method 6010O
Acquired: 11/12/2010 21:16:52 PE ICP2
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00018	0.0050	0.0010	0.000063	☑
7440-38-2	Arsenic		-0.00112	0.010	0.0070	0.0018	☑
7440-42-8	Boron		-0.01282	0.10	0.010	0.00055	☑
7440-39-3	Barium		0.00005	0.0050	0.0040	0.00031	☑
7440-70-2	Calcium		-0.00122	0.50	0.10	0.0047	☑
7440-47-3	Chromium		-0.00021	0.0050	0.0040	0.000099	☑
7440-50-8	Copper		0.00041	0.0050	0.0050	0.00072	☑
7440-09-7	Potassium		-0.12046	1.0	0.25	0.066	☑
7439-93-2	Lithium		-0.00501	0.010	0.0060	0.0039	☑
7439-95-4	Magnesium		-0.00292	0.50	0.075	0.0075	☑
7439-96-5	Manganese		0.00030	0.0050	0.0010	0.00062	☑
7439-98-7	Molybdenum		0.00022	0.010	0.010	0.00019	☑
7440-02-0	Nickel		-0.00039	0.0050	0.0030	0.0013	☑
7439-92-1	Lead		-0.00076	0.0030	0.0030	0.0015	☑
7440-36-0	Antimony		0.00156	0.010	0.0050	0.0029	☑
7782-49-2	Selenium		0.00412	0.0050	0.0070	0.0022	☑
7440-21-3	Silicon		0.00625	0.10	0.0050	0.00080	☐
7440-31-5	Tin		-0.00110	0.020	0.012	0.0013	☑
7440-28-0	Thallium		-0.00126	0.010	0.0050	0.0014	☑
7440-66-6	Zinc		-0.00064	0.0050	0.0070	0.00078	☑
7429-90-5	Aluminum		0.00557	0.10	0.035	0.0035	☑
7440-41-7	Beryllium		0.00010	0.0020	0.0010	0.00028	☑
7440-43-9	Cadmium		0.00013	0.0020	0.0010	0.0000050	☑
7440-48-4	Cobalt		0.00093	0.0050	0.0020	0.00088	☑
7439-89-6	Iron		0.00280	0.050	0.016	0.00062	☑
7439-89-6	Iron		-0.00356	0.050	0.016	0.0011	☑
7440-23-5	Sodium		-0.02732	0.50	0.25	0.0085	☑
7440-23-5	Sodium		-2.2143	0.50	0.25	1.2	☐
7723-14-0	Phosphorus		-0.00582	0.30	0.013	0.0031	☑
7723-14-0	Phosphorus		-0.07180	0.30	0.013	0.011	☑
7704-34-9	Sulfur		-0.00670	0.10	0.074	0.023	☑
7704-34-9	Sulfur		0.03593	0.10	0.074	0.17	☑
7704-34-9	Sulfur		-0.06041	0.10	0.074	0.0078	☑
7704-34-9	Sulfur		-0.17976	0.10	0.074	0.13	☑
7440-21-3	Silicon		-0.00959	0.10	0.0050	0.000053	☑
7440-24-6	Strontium		0.04482	0.050	0.0050	0.046	☐
7440-24-6	Strontium		0.00020	0.050	0.0050	0.000068	☑
7440-32-6	Titanium		0.00153	0.010	0.0030	0.00019	☑
7440-32-6	Titanium		0.00382	0.010	0.0030	0.000049	☐
7440-62-2	Vanadium		0.00072	0.0050	0.0020	0.00034	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:31:28

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.793	☑
R7440655	Y_ Radial		102.91	☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:23:01

Department: 120 (Metals) | Source: OPTIMA

Sample: **L84FDP5** | Serial Dilution: **5.00** | Sample Dilution: **1.00**

Instrument: **PE 4300**
File: NOV1210BX.csv # 28
Acquired: 11/12/2010 19:10:25
Calibrated: 11/12/2010 16:39:30

Channel 268
Method 6010O
PE ICP2

Matrix: SOLID
Units: mg/L

CASN	Analyte Name	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-22-4	Silver		0.00032	-0.00001		0.00090	NC	☑
7440-38-2	Arsenic		0.11177	0.04073	174	0.013	NC	☑
7440-42-8	Boron		-0.01419	0.05919	124		*	
7440-39-3	Barium		1.5718	1.4885	5.59	0.0012	5.6	☑
7440-70-2	Calcium		108.57	103.28	5.12	0.045	5.1	☑
7440-47-3	Chromium		2.5677	2.4340	5.49	0.0014	5.5	☑
7440-50-8	Copper		1.1730	1.1478	2.19	0.0022	2.2	☑
7440-09-7	Potassium		14.497	14.160	2.38	0.10	2.4	☑
7439-93-2	Lithium		0.09601	0.10000	4.00		*	
7439-95-4	Magnesium		379.80	362.31	4.83	0.045	4.8	☑
7439-96-5	Manganese		5.6634	5.3958	4.96	0.0025	5.0	☑
7439-98-7	Molybdenum		0.01930	0.01581	22.1	0.0075	NC	☑
7440-02-0	Nickel		4.3710	4.0228	8.65	0.0024	8.7	☑
7439-92-1	Lead		1.2066	1.1240	7.35	0.0026	7.3	☑
7440-36-0	Antimony		0.03839	-0.02260		0.0094	NC	☑
7782-49-2	Selenium		0.05233	-0.00663		0.014	NC	☑
7440-21-3	Silicon		1.9489	1.5279	27.6		*	
7440-31-5	Tin		0.15018	0.14005	7.23		*	
7440-28-0	Thallium		-0.03153	0.00645	589	0.0084	NC	☑
7440-66-6	Zinc		1.5087	1.3891	8.61	0.0019	8.6	☑
7429-90-5	Aluminum		111.63	106.62	4.69	0.056	4.7	☑
7440-41-7	Beryllium		0.00481	0.00418	15.0	0.00030	NC	☑
7440-43-9	Cadmium		0.00148	0.00216	31.3	0.00030	NC	☑
7440-48-4	Cobalt		0.26080	0.24901	4.73	0.0025	4.7	☑
7439-89-6	Iron		305.00	279.61	9.08	0.011	9.1	☑
7439-89-6	Iron		303.49	288.66	5.14	0.011	5.1	☑
7440-23-5	Sodium		23.480	22.333	5.14	0.11	5.1	☑
7440-23-5	Sodium		36.792	27.614	33.2	0.11	33.2	☑
7723-14-0	Phosphorus		3.2129	3.0966	3.76		*	
7723-14-0	Phosphorus		2.8216	2.8613	1.39		*	
7704-34-9	Sulfur		12.619	10.520	20.0		*	
7704-34-9	Sulfur		15.864	12.205	30.0		*	
7704-34-9	Sulfur		15.840	10.893	45.4		*	
7704-34-9	Sulfur		17.290	6.8674	152		*	
7440-21-3	Silicon		2.1113	1.6119	31.0		*	
7440-24-6	Strontium		1.0091	0.43918	130		*	
7440-24-6	Strontium		0.43417	0.41627	4.30		*	
7440-32-6	Titanium		8.6335	8.3179	3.79		*	
7440-32-6	Titanium		8.5126	8.1693	4.20		*	
7440-62-2	Vanadium		0.45903	0.43804	4.79	0.0019	4.8	☑

Reviewed by: | Date:

IDB Reports | TestAmerica, Inc. | Version: 6.02.068

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TAL West Sac

SERIAL DILUTION

Method: 6010 | PE ICP2 | Reported: 11/13/10 20:23:01

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.927	☑
R7440655	Y_ Radial		102.89	☑

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 50 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

IDB Reports TestAmerica, Inc. Version: 6.02.068

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TAL West Sac

SAMPLE SPIKE

Method: 6010 PE ICP2 Reported: 11/13/10 20:23:17

Department: 120 (Metals) Source: OPTIMA

Sample: **L84FDZ** Spike Dilution: **1.00** Sample Dilution: **1.00**

Instrument: **PE 4300** Channel 268
File: NOV1210BX.csv # 29 Method 6010O
Acquired: 11/12/2010 19:14:14 PE ICP2 Matrix: SOLID
Calibrated: 11/12/2010 16:39:30 Units: mg/L

CASN	Analyte Name	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-22-4	Silver		0.04622	-0.00001	92.4	0.0500		☑
7440-38-2	Arsenic		1.8215	0.04073	89.0	2.00		☑
7440-42-8	Boron		1.0152	0.05919	95.6	1.00		☑
7440-39-3	Barium		3.3814	1.4885	94.6	2.00		☑
7440-70-2	Calcium		149.40	103.28	92.2	50.0		☑
7440-47-3	Chromium		2.5710	2.4340	68.5	0.200	*	☐
7440-50-8	Copper		1.3785	1.1478	92.3	0.250	*	☑
7440-09-7	Potassium		64.505	14.160	101	50.0		☑
7439-93-2	Lithium		1.1164	0.10000	102	1.00		☑
7439-95-4	Magnesium		398.00	362.31	71.4	50.0	*	☐
7439-96-5	Manganese		5.7144	5.3958	63.7	0.500	*	☐
7439-98-7	Molybdenum		0.95338	0.01581	93.8	1.00		☑
7440-02-0	Nickel		4.4025	4.0228	75.9	0.500	*	☑
7439-92-1	Lead		1.5461	1.1240	84.4	0.500		☑
7440-36-0	Antimony		0.45172	-0.02260	90.3	0.500		☑
7782-49-2	Selenium		1.7785	-0.00663	88.9	2.00		☑
7440-21-3	Silicon		1.8208	1.5279	2.93	10.0		☐
7440-31-5	Tin		1.9757	0.14005	91.8	2.00		☑
7440-28-0	Thallium		1.9214	0.00645	95.7	2.00		☑
7440-66-6	Zinc		1.8153	1.3891	85.2	0.500		☑
7429-90-5	Aluminum		105.56	106.62	0.00	2.00	*	☐
7440-41-7	Beryllium		0.05354	0.00418	98.7	0.0500		☑
7440-43-9	Cadmium		0.04980	0.00216	95.3	0.0500		☑
7440-48-4	Cobalt		0.72408	0.24901	95.0	0.500		☑
7439-89-6	Iron		274.06	279.61	0.00	1.00	*	☐
7439-89-6	Iron		279.74	288.66	0.00	1.00	*	☐
7440-23-5	Sodium		68.555	22.333	92.4	50.0		☑
7440-23-5	Sodium		77.894	27.614	101	50.0		☑
7723-14-0	Phosphorus		13.008	3.0966	99.1	10.0		☑
7723-14-0	Phosphorus		12.244	2.8613	93.8	10.0		☑
7704-34-9	Sulfur		21.375	10.520	109	10.0		☑
7704-34-9	Sulfur		21.005	12.205	88.0	10.0		☑
7704-34-9	Sulfur		20.639	10.893	97.5	10.0		☑
7704-34-9	Sulfur		15.198	6.8674	83.3	10.0		☑
7440-21-3	Silicon		1.9137	1.6119	3.02	10.0		☐
7440-24-6	Strontium		1.4036	0.43918	96.4	1.00		☑
7440-24-6	Strontium		1.4032	0.41627	98.7	1.00		☑
7440-32-6	Titanium		9.0643	8.3179	74.6	1.00	*	☐
7440-32-6	Titanium		8.9014	8.1693	73.2	1.00	*	☐
7440-62-2	Vanadium		0.92110	0.43804	96.6	0.500		☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/13/10 20:23:17

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.336	☑
R7440655	Y_ Radial		104.84	☑

Reviewed by: Date:

TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv

Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_				1.0	11/15/10 15:33		☐
2	Calib_Std_1				1.0	11/15/10 15:37		☐
3	Calib_Std_2				1.0	11/15/10 15:39		☐
4	Calib_Std_3				1.0	11/15/10 15:42		☐
5	Calib_Std_4				1.0	11/15/10 15:45		☐
6	LR Std				1.0	11/15/10 15:52		☐
7	ICV4				1.0	11/15/10 15:57		☐
8	ICV2A				1.0	11/15/10 16:01		☐
9	ICB				1.0	11/15/10 16:07		☐
10	LL1				1.0	11/15/10 16:11		☐
11	LL2				1.0	11/15/10 16:15		☐
12	ICSA				1.0	11/15/10 16:19		☐
13	ICSAB_4.0				1.0	11/15/10 16:24		☐
14	Al 1000ppm				1.0	11/15/10 16:33		☐
15	Ca 1000ppm				1.0	11/15/10 16:39		☐
16	Fe 1000ppm				1.0	11/15/10 16:45		☐
17	Mg 1000ppm				1.0	11/15/10 16:51		☐
18	Na 500ppm				1.0	11/15/10 16:57		☐
19	CCV				1.0	11/15/10 17:03		☐
20	CCB				1.0	11/15/10 17:07		☐
21	L9E01B	G0K020000	0306195	46	1.0	11/15/10 17:13		☐
22	L9E01C	G0K020000	0306195	46	1.0	11/15/10 17:17		☐
23	L84FD 2X	G0J260451-4	0306195	46	2.0	11/15/10 17:20		☐
24	L84FDS	G0J260451-4	0306195	46	1.0	11/15/10 17:24		☐
25	L84FDD	G0J260451-4	0306195	46	1.0	11/15/10 17:28		☐
26	L84EX	G0J260451-1	0306195	46	1.0	11/15/10 17:34		☐
27	L84EXP5	G0J260451	0306195		5.0	11/15/10 17:37		☐
28	L84E9 5X	G0J260451-2	0306195	46	5.0	11/15/10 17:41		☐
29	L84EXZ	G0J260451-1	0306195		1.0	11/15/10 17:45		☐
30	L84E9	G0J260451-2	0306195	46	1.0	11/15/10 17:49		☐
31	CCV				1.0	11/15/10 17:52		☐
32	CCB				1.0	11/15/10 17:56		☐
33	L84FA	G0J260451-3	0306195	46	1.0	11/15/10 18:00		☐
34	L84FF	G0J260451-5	0306195	46	1.0	11/15/10 18:03		☐
35	L84FL	G0J260451-7	0306195	46	1.0	11/15/10 18:07		☐
36	L84FN	G0J260451-8	0306195	46	1.0	11/15/10 18:10		☐
37	L84FQ	G0J260451-9	0306195	46	1.0	11/15/10 18:14		☐
38	L84FR	G0J260451-10	0306195	46	1.0	11/15/10 18:17		☐
39	L84FT	G0J260451-11	0306195	46	1.0	11/15/10 18:20		☐
40	L84FV	G0J260451-12	0306195	46	1.0	11/15/10 18:24		☐
41	L84FW	G0J260451-13	0306195	46	1.0	11/15/10 18:28		☐
42	CCV				1.0	11/15/10 18:31		☐
43	CCB				1.0	11/15/10 18:35		☐
44	L85KA 5X	G0J260587-6	0305280	46	5.0	11/15/10 18:39		☐
45	L85KA	G0J260587-6	0305280	46	1.0	11/15/10 18:43		☐
46	L85KC 5X	G0J260587-7	0305280	46	5.0	11/15/10 18:46		☐

Method: 6010 PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	L85KC	G0J260587-7	0305280	46	1.0	11/15/10 18:50		☐
48	L85KF 5X	G0J260587-10	0305280	46	5.0	11/15/10 18:53		☐
49	L85KF	G0J260587-10	0305280	46	1.0	11/15/10 18:58		☐
50	L85KG 5X	G0J260587-11	0305280	46	5.0	11/15/10 19:04		☐
51	L85KG	G0J260587-11	0305280	46	1.0	11/15/10 19:17		☐
52	L85KH 5X	G0J260587-12	0305280	46	5.0	11/15/10 19:21		☐
53	L85KH	G0J260587-12	0305280	46	1.0	11/15/10 19:25		☐
54	CCV				1.0	11/15/10 19:28		☐
55	CCB				1.0	11/15/10 19:32		☐
56	L85KH	G0J260587-12	0305280	46	1.0	11/15/10 19:36		☐
57	L85KL 5X	G0J260587-14	0305280	46	5.0	11/15/10 19:39		☐
58	L85KL	G0J260587-14	0305280	46	1.0	11/15/10 19:43		☐
59	L85KT 5X	G0J260587-19	0305244	46	5.0	11/15/10 19:46		☐
60	L85KT	G0J260587-19	0305244	46	1.0	11/15/10 19:50		☐
61	L85K1 5X	G0J260587-24	0305244	46	5.0	11/15/10 19:54		☐
62	L85K1	G0J260587-24	0305244	46	1.0	11/15/10 19:58		☐
63	L85LW 5X	G0J260590-14	0306176	46	5.0	11/15/10 20:02		☐
64	L85LW	G0J260590-14	0306176	46	1.0	11/15/10 20:06		☐
65	CCV				1.0	11/15/10 20:10		☐
66	CCB				1.0	11/15/10 20:14		☐
67	L92W9B	G0K150000	0319150	46	1.0	11/15/10 20:18		☐
68	L92W9C	G0K150000	0319150	46	1.0	11/15/10 20:22		☐
69	L86P9	G0J270523-3	0319150	46	1.0	11/15/10 20:27		☐
70	L86P9P5	G0J270523	0319150		5.0	11/15/10 20:31		☐
71	L86P9Z	G0J270523-3	0319150		1.0	11/15/10 20:35		☐
72	L86P9S	G0J270523-3	0319150	46	1.0	11/15/10 20:38		☐
73	L86P9D	G0J270523-3	0319150	46	1.0	11/15/10 20:42		☐
74	L86P2	G0J270523-1	0319150	46	1.0	11/15/10 20:47		☐
75	L86P8	G0J270523-2	0319150	46	1.0	11/15/10 20:51		☐
76	L86QA	G0J270523-4	0319150	46	1.0	11/15/10 20:55		☐
77	CCV				1.0	11/15/10 20:59		☐
78	CCB				1.0	11/15/10 21:03		☐
79	L86QC	G0J270523-5	0319150	46	1.0	11/15/10 21:07		☐
80	L86QD	G0J270523-6	0319150	46	1.0	11/15/10 21:11		☐
81	L86QE	G0J270523-7	0319150	46	1.0	11/15/10 21:15		☐
82	L86QG	G0J270523-8	0319150	46	1.0	11/15/10 21:19		☐
83	L86QH	G0J270523-9	0319150	46	1.0	11/15/10 21:23		☐
84	L86QJ	G0J270523-10	0319150	46	1.0	11/15/10 21:27		☐
85	L86QK	G0J270523-11	0319150	46	1.0	11/15/10 21:31		☐
86	CCV				1.0	11/15/10 21:35		☐
87	CCB				1.0	11/15/10 21:39		☐
88	L9JG0B	G0K040000	0308236	46	1.0	11/15/10 21:42		☐
89	L9JG0C	G0K040000	0308236	46	1.0	11/15/10 21:46		☐
90	L88A0	G0J280447-22	0308236	46	1.0	11/15/10 21:52		☐
91	L88A0P5	G0J280447	0308236		5.0	11/15/10 21:56		☐
92	L88A0Z	G0J280447-22	0308236		1.0	11/15/10 22:00		☐

Method: 6010 PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
93	L88A0S	G0J280447-22	0308236	46	1.0	11/15/10 22:03		☐
94	L88A0D	G0J280447-22	0308236	46	1.0	11/15/10 22:06		☐
95	L879P	G0J280447-5	0308236	46	1.0	11/15/10 22:12		☐
96	L879R	G0J280447-6	0308236	46	1.0	11/15/10 22:15		☐
97	L8790	G0J280447-7	0308236	46	1.0	11/15/10 22:19		☐
98	CCV				1.0	11/15/10 22:23		☐
99	CCB				1.0	11/15/10 22:27		☐
100	L8795	G0J280447-8	0308236	46	1.0	11/15/10 22:31		☐
101	L8797	G0J280447-9	0308236	46	1.0	11/15/10 22:35		☐
102	L8798	G0J280447-10	0308236	46	1.0	11/15/10 22:38		☐
103	L88AA	G0J280447-11	0308236	46	1.0	11/15/10 22:42		☐
104	L88AD	G0J280447-12	0308236	46	1.0	11/15/10 22:45		☐
105	L88AJ	G0J280447-14	0308236	46	1.0	11/15/10 22:48		☐
106	L88AK	G0J280447-15	0308236	46	1.0	11/15/10 22:52		☐
107	L88AL	G0J280447-16	0308236	46	1.0	11/15/10 22:56		☐
108	L88AM	G0J280447-17	0308236	46	1.0	11/15/10 23:00		☐
109	L88AN	G0J280447-18	0308236	46	1.0	11/15/10 23:04		☐
110	CCV				1.0	11/15/10 23:08		☐
111	CCB				1.0	11/15/10 23:12		☐
112	L88AT	G0J280447-19	0308236	46	1.0	11/15/10 23:16		☐
113	L88AV	G0J280447-20	0308236	46	1.0	11/15/10 23:19		☐
114	L88AX	G0J280447-21	0308236	46	1.0	11/15/10 23:23		☐
115	L88A1	G0J280447-23	0308236	46	1.0	11/15/10 23:27		☐
116	L88A3	G0J280447-24	0308236	46	1.0	11/15/10 23:31		☐
117	CCV				1.0	11/15/10 23:35		☐
118	CCB				1.0	11/15/10 23:39		☐
119	L9JJTB	G0K040000	0308240	46	1.0	11/15/10 23:42		☐
120	L9JJTC	G0K040000	0308240	46	1.0	11/15/10 23:46		☐
121	L88CQ	G0J280451-4	0308240	46	1.0	11/15/10 23:52		☐
122	L88CQP5	G0J280451	0308240		5.0	11/15/10 23:55		☐
123	L88CQZ	G0J280451-4	0308240		1.0	11/15/10 23:59		☐
124	L88CQS	G0J280451-4	0308240	46	1.0	11/16/10 00:03		☐
125	L88CQD	G0J280451-4	0308240	46	1.0	11/16/10 00:06		☐
126	L878R	G0J280447-2	0308240	46	1.0	11/16/10 00:12		☐
127	L879F	G0J280447-3	0308240	46	1.0	11/16/10 00:16		☐
128	L879M	G0J280447-4	0308240	46	1.0	11/16/10 00:19		☐
129	CCV				1.0	11/16/10 00:23		☐
130	CCB				1.0	11/16/10 00:27		☐
131	L88CL	G0J280451-2	0308240	46	1.0	11/16/10 00:31		☐
132	L88CN	G0J280451-3	0308240	46	1.0	11/16/10 00:35		☐
133	L88CV	G0J280451-5	0308240	46	1.0	11/16/10 00:39		☐
134	L88CX	G0J280451-6	0308240	46	1.0	11/16/10 00:43		☐
135	L88C0	G0J280451-7	0308240	46	1.0	11/16/10 00:47		☐
136	L88C1	G0J280451-8	0308240	46	1.0	11/16/10 00:51		☐
137	L88C3	G0J280451-9	0308240	46	1.0	11/16/10 00:55		☐
138	L88C4	G0J280451-10	0308240	46	1.0	11/16/10 00:59		☐

Method: 6010 PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
139	L88C6	G0J280451-11	0308240	46	1.0	11/16/10 01:03		☐
140	L88C7	G0J280451-12	0308240	46	1.0	11/16/10 01:07		☐
141	CCV				1.0	11/16/10 01:11		☐
142	CCB				1.0	11/16/10 01:15		☐
143	L880Q	G0J280529-3	0309194	05	1.0	11/16/10 01:19		☐
144	L880QP5	G0J280529	0309194		5.0	11/16/10 01:22		☐
145	L880QZ	G0J280529-3	0309194		1.0	11/16/10 01:26		☐
146	L880QS	G0J280529-3	0309194	05	1.0	11/16/10 01:30		☐
147	L880QD	G0J280529-3	0309194	05	1.0	11/16/10 01:33		☐
148	L880P	G0J280529-2	0309194	05	1.0	11/16/10 01:39		☐
149	L880R	G0J280529-4	0309194	05	1.0	11/16/10 01:42		☐
150	L880T	G0J280529-5	0309194	05	1.0	11/16/10 01:46		☐
151	L880V	G0J280529-6	0309194	05	1.0	11/16/10 08:02		☐
152	L880W	G0J280529-7	0309194	05	1.0	11/16/10 08:06		☐
153	CCV				1.0	11/16/10 08:16		☐
154	CCB				1.0	11/16/10 08:20		☐
155	L880W	G0J280529-7	0309194	05	1.0	11/16/10 08:24		☐
156	L880X	G0J280529-8	0309194	05	1.0	11/16/10 08:28		☐
157	L8801	G0J280529-9	0309194	05	1.0	11/16/10 08:32		☐
158	L8802	G0J280529-10	0309194	05	1.0	11/16/10 08:35		☐
159	L8804	G0J280529-11	0309194	05	1.0	11/16/10 08:39		☐
160	CCV				1.0	11/16/10 08:43		☐
161	CCB				1.0	11/16/10 08:47		☐
162	L92W3B	G0K150000	0319146	46	1.0	11/16/10 08:51		☐
163	L92W3C	G0K150000	0319146	46	1.0	11/16/10 08:55		☐
164	L9P12	G0K080481-1	0319146	46	1.0	11/16/10 09:00		☐
165	L9P12P5	G0K080481	0319146		5.0	11/16/10 09:04		☐
166	L9P12Z	G0K080481-1	0319146		1.0	11/16/10 09:08		☐
167	L9P12S	G0K080481-1	0319146	46	1.0	11/16/10 09:11		☐
168	L9P12D	G0K080481-1	0319146	46	1.0	11/16/10 09:15		☐
169	L880V	G0J280529-6	0309194	05	1.0	11/16/10 09:20		☐
170	CCV				1.0	11/16/10 09:24		☐
171	CCB				1.0	11/16/10 09:28		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
1	Calib_Blank_'	11/15/10 15:33	0.0	0.0	☑
2	Calib_Std_1	11/15/10 15:37	0.0	0.0	☑
3	Calib_Std_2	11/15/10 15:39	0.0	0.0	☑
4	Calib_Std_3	11/15/10 15:42	0.0	0.0	☑
5	Calib_Std_4	11/15/10 15:45	0.0	0.0	☑
6	LR Std	11/15/10 15:52	97.0	92.1	☑
7	ICV4	11/15/10 15:57	98.2	99.6	☑
8	ICV2A	11/15/10 16:01	99.6	98.6	☑
9	ICB	11/15/10 16:07	98.9	96.9	☑
10	LL1	11/15/10 16:11	100.6	91.2	☑
11	LL2	11/15/10 16:15	101.0	97.5	☑
12	ICSA	11/15/10 16:19	92.5	95.8	☑
13	ICSAB_4.0	11/15/10 16:24	89.8	95.1	☑
14	Al 1000ppm	11/15/10 16:33	92.9	101.4	☑
15	Ca 1000ppm	11/15/10 16:39	93.1	97.3	☑
16	Fe 1000ppm	11/15/10 16:45	98.2	99.4	☑
17	Mg 1000ppm	11/15/10 16:51	95.2	98.8	☑
18	Na 500ppm	11/15/10 16:57	95.7	97.6	☑
19	CCV	11/15/10 17:03	98.0	98.0	☑
20	CCB	11/15/10 17:07	99.4	100.3	☑
21	L9E01B	11/15/10 17:13	104.2	102.7	☑
22	L9E01C	11/15/10 17:17	98.8	86.9	☑
23	L84FD 2X	11/15/10 17:20	99.0	97.6	☑
24	L84FDS	11/15/10 17:24	97.6	99.0	☑
25	L84FDD	11/15/10 17:28	97.9	100.1	☑
26	L84EX	11/15/10 17:34	98.0	102.7	☑
27	L84EXP5	11/15/10 17:37	97.8	101.1	☑
28	L84E9 5X	11/15/10 17:41	99.1	99.7	☑
29	L84EXZ	11/15/10 17:45	96.2	100.5	☑
30	L84E9	11/15/10 17:49	98.5	99.9	☑
31	CCV	11/15/10 17:52	97.2	99.2	☑
32	CCB	11/15/10 17:56	100.1	98.6	☑
33	L84FA	11/15/10 18:00	99.8	103.9	☑
34	L84FF	11/15/10 18:03	98.9	103.3	☑
35	L84FL	11/15/10 18:07	99.6	102.5	☑
36	L84FN	11/15/10 18:10	98.1	104.1	☑
37	L84FQ	11/15/10 18:14	100.7	102.0	☑
38	L84FR	11/15/10 18:17	99.6	93.8	☑
39	L84FT	11/15/10 18:20	100.7	106.1	☑
40	L84FV	11/15/10 18:24	101.9	104.4	☑
41	L84FW	11/15/10 18:28	101.0	104.8	☑
42	CCV	11/15/10 18:31	98.1	98.6	☑
43	CCB	11/15/10 18:35	99.5	99.9	☑
44	L85KA 5X	11/15/10 18:39	99.8	102.4	☑
45	L85KA	11/15/10 18:43	100.7	101.1	☑
46	L85KC 5X	11/15/10 18:46	100.7	101.1	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
47	L85KC	11/15/10 18:50	101.0	103.5	☑
48	L85KF 5X	11/15/10 18:53	101.4	104.2	☑
49	L85KF	11/15/10 18:58	99.8	107.2	☑
50	L85KG 5X	11/15/10 19:04	100.6	103.5	☑
51	L85KG	11/15/10 19:17	101.1	104.3	☑
52	L85KH 5X	11/15/10 19:21	99.3	101.9	☑
53	L85KH	11/15/10 19:25	100.5	102.7	☑
54	CCV	11/15/10 19:28	96.7	100.2	☑
55	CCB	11/15/10 19:32	99.3	97.9	☑
56	L85KH	11/15/10 19:36	99.5	104.1	☑
57	L85KL 5X	11/15/10 19:39	99.1	103.0	☑
58	L85KL	11/15/10 19:43	99.8	105.2	☑
59	L85KT 5X	11/15/10 19:46	99.0	104.7	☑
60	L85KT	11/15/10 19:50	99.2	105.1	☑
61	L85K1 5X	11/15/10 19:54	100.9	104.2	☑
62	L85K1	11/15/10 19:58	99.5	105.8	☑
63	L85LW 5X	11/15/10 20:02	100.2	103.5	☑
64	L85LW	11/15/10 20:06	101.4	104.9	☑
65	CCV	11/15/10 20:10	96.2	100.3	☑
66	CCB	11/15/10 20:14	100.6	103.3	☑
67	L92W9B	11/15/10 20:18	101.8	104.3	☑
68	L92W9C	11/15/10 20:22	97.7	94.4	☑
69	L86P9	11/15/10 20:27	101.1	106.7	☑
70	L86P9P5	11/15/10 20:31	100.6	102.2	☑
71	L86P9Z	11/15/10 20:35	99.9	106.2	☑
72	L86P9S	11/15/10 20:38	98.1	106.3	☑
73	L86P9D	11/15/10 20:42	99.7	107.0	☑
74	L86P2	11/15/10 20:47	100.7	106.2	☑
75	L86P8	11/15/10 20:51	100.2	106.8	☑
76	L86QA	11/15/10 20:55	101.0	106.5	☑
77	CCV	11/15/10 20:59	96.7	101.9	☑
78	CCB	11/15/10 21:03	100.0	102.1	☑
79	L86QC	11/15/10 21:07	99.3	106.6	☑
80	L86QD	11/15/10 21:11	102.3	107.1	☑
81	L86QE	11/15/10 21:15	103.0	106.8	☑
82	L86QG	11/15/10 21:19	100.5	105.6	☑
83	L86QH	11/15/10 21:23	102.2	107.5	☑
84	L86QJ	11/15/10 21:27	102.7	108.0	☑
85	L86QK	11/15/10 21:31	101.6	105.0	☑
86	CCV	11/15/10 21:35	97.5	101.3	☑
87	CCB	11/15/10 21:39	100.2	103.5	☑
88	L9JG0B	11/15/10 21:42	102.6	107.1	☑
89	L9JG0C	11/15/10 21:46	98.3	104.3	☑
90	L88A0	11/15/10 21:52	100.2	106.9	☑
91	L88A0P5	11/15/10 21:56	100.2	103.2	☑
92	L88A0Z	11/15/10 22:00	99.2	105.6	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
93	L88A0S	11/15/10 22:03	99.0	105.8	☑
94	L88A0D	11/15/10 22:06	98.9	105.8	☑
95	L879P	11/15/10 22:12	96.2	103.0	☑
96	L879R	11/15/10 22:15	99.2	102.3	☑
97	L8790	11/15/10 22:19	100.9	104.1	☑
98	CCV	11/15/10 22:23	98.5	102.7	☑
99	CCB	11/15/10 22:27	99.7	102.6	☑
100	L8795	11/15/10 22:31	101.3	106.5	☑
101	L8797	11/15/10 22:35	100.1	106.7	☑
102	L8798	11/15/10 22:38	102.1	108.0	☑
103	L88AA	11/15/10 22:42	100.1	106.5	☑
104	L88AD	11/15/10 22:45	100.0	107.5	☑
105	L88AJ	11/15/10 22:48	102.2	110.3	☑
106	L88AK	11/15/10 22:52	99.7	107.4	☑
107	L88AL	11/15/10 22:56	103.7	104.5	☑
108	L88AM	11/15/10 23:00	104.0	110.5	☑
109	L88AN	11/15/10 23:04	100.9	107.1	☑
110	CCV	11/15/10 23:08	97.6	103.0	☑
111	CCB	11/15/10 23:12	99.7	106.2	☑
112	L88AT	11/15/10 23:16	99.6	107.5	☑
113	L88AV	11/15/10 23:19	101.9	108.5	☑
114	L88AX	11/15/10 23:23	102.6	107.1	☑
115	L88A1	11/15/10 23:27	100.4	107.3	☑
116	L88A3	11/15/10 23:31	100.3	108.6	☑
117	CCV	11/15/10 23:35	97.5	102.9	☑
118	CCB	11/15/10 23:39	100.3	104.4	☑
119	L9JJTB	11/15/10 23:42	106.1	109.1	☑
120	L9JJTC	11/15/10 23:46	99.1	100.8	☑
121	L88CQ	11/15/10 23:52	99.4	102.8	☑
122	L88CQP5	11/15/10 23:55	101.0	107.0	☑
123	L88CQZ	11/15/10 23:59	100.0	107.5	☑
124	L88CQS	11/16/10 00:03	100.3	106.5	☑
125	L88CQD	11/16/10 00:06	99.2	107.2	☑
126	L878R	11/16/10 00:12	101.5	107.4	☑
127	L879F	11/16/10 00:16	99.7	106.1	☑
128	L879M	11/16/10 00:19	98.8	108.2	☑
129	CCV	11/16/10 00:23	98.1	103.5	☑
130	CCB	11/16/10 00:27	99.4	104.5	☑
131	L88CL	11/16/10 00:31	100.7	104.5	☑
132	L88CN	11/16/10 00:35	102.5	107.8	☑
133	L88CV	11/16/10 00:39	100.1	106.2	☑
134	L88CX	11/16/10 00:43	101.0	106.1	☑
135	L88C0	11/16/10 00:47	96.8	109.1	☑
136	L88C1	11/16/10 00:51	101.8	109.1	☑
137	L88C3	11/16/10 00:55	101.2	108.5	☑
138	L88C4	11/16/10 00:59	101.1	109.1	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
139	L88C6	11/16/10 01:03	102.9	110.0	☑
140	L88C7	11/16/10 01:07	100.2	99.1	☑
141	CCV	11/16/10 01:11	97.0	100.4	☑
142	CCB	11/16/10 01:15	98.0	97.5	☑
143	L880Q	11/16/10 01:19	100.5	103.7	☑
144	L880QP5	11/16/10 01:22	99.3	105.3	☑
145	L880QZ	11/16/10 01:26	96.7	99.9	☑
146	L880QS	11/16/10 01:30	96.9	101.4	☑
147	L880QD	11/16/10 01:33	96.4	102.5	☑
148	L880P	11/16/10 01:39	99.3	104.3	☑
149	L880R	11/16/10 01:42	99.6	107.8	☑
150	L880T	11/16/10 01:46	98.8	104.5	☑
151	L880V	11/16/10 08:02	194.1	178.3	☐
152	L880W	11/16/10 08:06	98.2	98.7	☑
153	CCV	11/16/10 08:16	96.3	96.0	☑
154	CCB	11/16/10 08:20	98.2	98.5	☑
155	L880W	11/16/10 08:24	99.0	102.2	☑
156	L880X	11/16/10 08:28	98.9	100.9	☑
157	L8801	11/16/10 08:32	99.1	104.4	☑
158	L8802	11/16/10 08:35	101.0	102.2	☑
159	L8804	11/16/10 08:39	100.2	102.7	☑
160	CCV	11/16/10 08:43	98.8	102.5	☑
161	CCB	11/16/10 08:47	99.3	103.7	☑
162	L92W3B	11/16/10 08:51	103.4	107.1	☑
163	L92W3C	11/16/10 08:55	99.3	105.1	☑
164	L9P12	11/16/10 09:00	103.3	109.5	☑
165	L9P12P5	11/16/10 09:04	103.1	107.4	☑
166	L9P12Z	11/16/10 09:08	101.4	108.9	☑
167	L9P12S	11/16/10 09:11	102.6	109.9	☑
168	L9P12D	11/16/10 09:15	103.9	111.0	☑
169	L880V	11/16/10 09:20	106.3	109.2	☑
170	CCV	11/16/10 09:24	102.8	107.8	☑
171	CCB	11/16/10 09:28	106.4	105.5	☑

TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv

Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_				1.0	11/15/10 15:33		☐
2	Calib_Std_1				1.0	11/15/10 15:37		☐
3	Calib_Std_2				1.0	11/15/10 15:39		☐
4	Calib_Std_3				1.0	11/15/10 15:42		☐
5	Calib_Std_4				1.0	11/15/10 15:45		☐
6	LR Std				1.0	11/15/10 15:52		☐
7	ICV4				1.0	11/15/10 15:57		☐
8	ICV2A				1.0	11/15/10 16:01		☐
9	ICB				1.0	11/15/10 16:07		☐
10	LL1				1.0	11/15/10 16:11		☐
11	LL2				1.0	11/15/10 16:15		☐
12	ICSA				1.0	11/15/10 16:19		☐
13	ICSAB_4.0				1.0	11/15/10 16:24		☐
14	Al 1000ppm				1.0	11/15/10 16:33		☐
15	Ca 1000ppm				1.0	11/15/10 16:39		☐
16	Fe 1000ppm				1.0	11/15/10 16:45		☐
17	Mg 1000ppm				1.0	11/15/10 16:51		☐
18	Na 500ppm				1.0	11/15/10 16:57		☐
19	CCV				1.0	11/15/10 17:03		☐
20	CCB				1.0	11/15/10 17:07		☐
21	L9E01B	G0K020000	0306195	46	1.0	11/15/10 17:13		☐
22	L9E01C	G0K020000	0306195	46	1.0	11/15/10 17:17		☐
23	L84FD 2X	G0J260451-4	0306195	46	2.0	11/15/10 17:20		☐
24	L84FDS	G0J260451-4	0306195	46	1.0	11/15/10 17:24		☐
25	L84FDD	G0J260451-4	0306195	46	1.0	11/15/10 17:28		☐
26	L84EX	G0J260451-1	0306195	46	1.0	11/15/10 17:34		☐
27	L84EXP5	G0J260451	0306195		5.0	11/15/10 17:37		☐
28	L84E9 5X	G0J260451-2	0306195	46	5.0	11/15/10 17:41		☐
29	L84EXZ	G0J260451-1	0306195		1.0	11/15/10 17:45		☐
30	L84E9	G0J260451-2	0306195	46	1.0	11/15/10 17:49		☐
31	CCV				1.0	11/15/10 17:52		☐
32	CCB				1.0	11/15/10 17:56		☐
33	L84FA	G0J260451-3	0306195	46	1.0	11/15/10 18:00		☐
34	L84FF	G0J260451-5	0306195	46	1.0	11/15/10 18:03		☐
35	L84FL	G0J260451-7	0306195	46	1.0	11/15/10 18:07		☐
36	L84FN	G0J260451-8	0306195	46	1.0	11/15/10 18:10		☐
37	L84FQ	G0J260451-9	0306195	46	1.0	11/15/10 18:14		☐
38	L84FR	G0J260451-10	0306195	46	1.0	11/15/10 18:17		☐
39	L84FT	G0J260451-11	0306195	46	1.0	11/15/10 18:20		☐
40	L84FV	G0J260451-12	0306195	46	1.0	11/15/10 18:24		☐
41	L84FW	G0J260451-13	0306195	46	1.0	11/15/10 18:28		☐
42	CCV				1.0	11/15/10 18:31		☐
43	CCB				1.0	11/15/10 18:35		☐
44	L85KA 5X	G0J260587-6	0305280	46	5.0	11/15/10 18:39		☐
45	L85KA	G0J260587-6	0305280	46	1.0	11/15/10 18:43		☐
46	L85KC 5X	G0J260587-7	0305280	46	5.0	11/15/10 18:46		☐

Method: 6010 PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	L85KC	G0J260587-7	0305280	46	1.0	11/15/10 18:50		☐
48	L85KF 5X	G0J260587-10	0305280	46	5.0	11/15/10 18:53		☐
49	L85KF	G0J260587-10	0305280	46	1.0	11/15/10 18:58		☐
50	L85KG 5X	G0J260587-11	0305280	46	5.0	11/15/10 19:04		☐
51	L85KG	G0J260587-11	0305280	46	1.0	11/15/10 19:17		☐
52	L85KH 5X	G0J260587-12	0305280	46	5.0	11/15/10 19:21		☐
53	L85KH	G0J260587-12	0305280	46	1.0	11/15/10 19:25		☐
54	CCV				1.0	11/15/10 19:28		☐
55	CCB				1.0	11/15/10 19:32		☐
56	L85KH	G0J260587-12	0305280	46	1.0	11/15/10 19:36		☐
57	L85KL 5X	G0J260587-14	0305280	46	5.0	11/15/10 19:39		☐
58	L85KL	G0J260587-14	0305280	46	1.0	11/15/10 19:43		☐
59	L85KT 5X	G0J260587-19	0305244	46	5.0	11/15/10 19:46		☐
60	L85KT	G0J260587-19	0305244	46	1.0	11/15/10 19:50		☐
61	L85K1 5X	G0J260587-24	0305244	46	5.0	11/15/10 19:54		☐
62	L85K1	G0J260587-24	0305244	46	1.0	11/15/10 19:58		☐
63	L85LW 5X	G0J260590-14	0306176	46	5.0	11/15/10 20:02		☐
64	L85LW	G0J260590-14	0306176	46	1.0	11/15/10 20:06		☐
65	CCV				1.0	11/15/10 20:10		☐
66	CCB				1.0	11/15/10 20:14		☐
67	L92W9B	G0K150000	0319150	46	1.0	11/15/10 20:18		☐
68	L92W9C	G0K150000	0319150	46	1.0	11/15/10 20:22		☐
69	L86P9	G0J270523-3	0319150	46	1.0	11/15/10 20:27		☐
70	L86P9P5	G0J270523	0319150		5.0	11/15/10 20:31		☐
71	L86P9Z	G0J270523-3	0319150		1.0	11/15/10 20:35		☐
72	L86P9S	G0J270523-3	0319150	46	1.0	11/15/10 20:38		☐
73	L86P9D	G0J270523-3	0319150	46	1.0	11/15/10 20:42		☐
74	L86P2	G0J270523-1	0319150	46	1.0	11/15/10 20:47		☐
75	L86P8	G0J270523-2	0319150	46	1.0	11/15/10 20:51		☐
76	L86QA	G0J270523-4	0319150	46	1.0	11/15/10 20:55		☐
77	CCV				1.0	11/15/10 20:59		☐
78	CCB				1.0	11/15/10 21:03		☐
79	L86QC	G0J270523-5	0319150	46	1.0	11/15/10 21:07		☐
80	L86QD	G0J270523-6	0319150	46	1.0	11/15/10 21:11		☐
81	L86QE	G0J270523-7	0319150	46	1.0	11/15/10 21:15		☐
82	L86QG	G0J270523-8	0319150	46	1.0	11/15/10 21:19		☐
83	L86QH	G0J270523-9	0319150	46	1.0	11/15/10 21:23		☐
84	L86QJ	G0J270523-10	0319150	46	1.0	11/15/10 21:27		☐
85	L86QK	G0J270523-11	0319150	46	1.0	11/15/10 21:31		☐
86	CCV				1.0	11/15/10 21:35		☐
87	CCB				1.0	11/15/10 21:39		☐
88	L9JG0B	G0K040000	0308236	46	1.0	11/15/10 21:42		☐
89	L9JG0C	G0K040000	0308236	46	1.0	11/15/10 21:46		☐
90	L88A0	G0J280447-22	0308236	46	1.0	11/15/10 21:52		☐
91	L88A0P5	G0J280447	0308236		5.0	11/15/10 21:56		☐
92	L88A0Z	G0J280447-22	0308236		1.0	11/15/10 22:00		☐

Method: 6010 PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
93	L88A0S	G0J280447-22	0308236	46	1.0	11/15/10 22:03		☐
94	L88A0D	G0J280447-22	0308236	46	1.0	11/15/10 22:06		☐
95	L879P	G0J280447-5	0308236	46	1.0	11/15/10 22:12		☐
96	L879R	G0J280447-6	0308236	46	1.0	11/15/10 22:15		☐
97	L8790	G0J280447-7	0308236	46	1.0	11/15/10 22:19		☐
98	CCV				1.0	11/15/10 22:23		☐
99	CCB				1.0	11/15/10 22:27		☐
100	L8795	G0J280447-8	0308236	46	1.0	11/15/10 22:31		☐
101	L8797	G0J280447-9	0308236	46	1.0	11/15/10 22:35		☐
102	L8798	G0J280447-10	0308236	46	1.0	11/15/10 22:38		☐
103	L88AA	G0J280447-11	0308236	46	1.0	11/15/10 22:42		☐
104	L88AD	G0J280447-12	0308236	46	1.0	11/15/10 22:45		☐
105	L88AJ	G0J280447-14	0308236	46	1.0	11/15/10 22:48		☐
106	L88AK	G0J280447-15	0308236	46	1.0	11/15/10 22:52		☐
107	L88AL	G0J280447-16	0308236	46	1.0	11/15/10 22:56		☐
108	L88AM	G0J280447-17	0308236	46	1.0	11/15/10 23:00		☐
109	L88AN	G0J280447-18	0308236	46	1.0	11/15/10 23:04		☐
110	CCV				1.0	11/15/10 23:08		☐
111	CCB				1.0	11/15/10 23:12		☐
112	L88AT	G0J280447-19	0308236	46	1.0	11/15/10 23:16		☐
113	L88AV	G0J280447-20	0308236	46	1.0	11/15/10 23:19		☐
114	L88AX	G0J280447-21	0308236	46	1.0	11/15/10 23:23		☐
115	L88A1	G0J280447-23	0308236	46	1.0	11/15/10 23:27		☐
116	L88A3	G0J280447-24	0308236	46	1.0	11/15/10 23:31		☐
117	CCV				1.0	11/15/10 23:35		☐
118	CCB				1.0	11/15/10 23:39		☐
119	L9JJTB	G0K040000	0308240	46	1.0	11/15/10 23:42		☐
120	L9JJTC	G0K040000	0308240	46	1.0	11/15/10 23:46		☐
121	L88CQ	G0J280451-4	0308240	46	1.0	11/15/10 23:52		☐
122	L88CQP5	G0J280451	0308240		5.0	11/15/10 23:55		☐
123	L88CQZ	G0J280451-4	0308240		1.0	11/15/10 23:59		☐
124	L88CQS	G0J280451-4	0308240	46	1.0	11/16/10 00:03		☐
125	L88CQD	G0J280451-4	0308240	46	1.0	11/16/10 00:06		☐
126	L878R	G0J280447-2	0308240	46	1.0	11/16/10 00:12		☐
127	L879F	G0J280447-3	0308240	46	1.0	11/16/10 00:16		☐
128	L879M	G0J280447-4	0308240	46	1.0	11/16/10 00:19		☐
129	CCV				1.0	11/16/10 00:23		☐
130	CCB				1.0	11/16/10 00:27		☐
131	L88CL	G0J280451-2	0308240	46	1.0	11/16/10 00:31		☐
132	L88CN	G0J280451-3	0308240	46	1.0	11/16/10 00:35		☐
133	L88CV	G0J280451-5	0308240	46	1.0	11/16/10 00:39		☐
134	L88CX	G0J280451-6	0308240	46	1.0	11/16/10 00:43		☐
135	L88C0	G0J280451-7	0308240	46	1.0	11/16/10 00:47		☐
136	L88C1	G0J280451-8	0308240	46	1.0	11/16/10 00:51		☐
137	L88C3	G0J280451-9	0308240	46	1.0	11/16/10 00:55		☐
138	L88C4	G0J280451-10	0308240	46	1.0	11/16/10 00:59		☐

Method: 6010 PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
139	L88C6	G0J280451-11	0308240	46	1.0	11/16/10 01:03		☐
140	L88C7	G0J280451-12	0308240	46	1.0	11/16/10 01:07		☐
141	CCV				1.0	11/16/10 01:11		☐
142	CCB				1.0	11/16/10 01:15		☐
143	L880Q	G0J280529-3	0309194	05	1.0	11/16/10 01:19		☐
144	L880QP5	G0J280529	0309194		5.0	11/16/10 01:22		☐
145	L880QZ	G0J280529-3	0309194		1.0	11/16/10 01:26		☐
146	L880QS	G0J280529-3	0309194	05	1.0	11/16/10 01:30		☐
147	L880QD	G0J280529-3	0309194	05	1.0	11/16/10 01:33		☐
148	L880P	G0J280529-2	0309194	05	1.0	11/16/10 01:39		☐
149	L880R	G0J280529-4	0309194	05	1.0	11/16/10 01:42		☐
150	L880T	G0J280529-5	0309194	05	1.0	11/16/10 01:46		☐
151	L880V	G0J280529-6	0309194	05	1.0	11/16/10 08:02		☐
152	L880W	G0J280529-7	0309194	05	1.0	11/16/10 08:06		☐
153	CCV				1.0	11/16/10 08:16		☐
154	CCB				1.0	11/16/10 08:20		☐
155	L880W	G0J280529-7	0309194	05	1.0	11/16/10 08:24		☐
156	L880X	G0J280529-8	0309194	05	1.0	11/16/10 08:28		☐
157	L8801	G0J280529-9	0309194	05	1.0	11/16/10 08:32		☐
158	L8802	G0J280529-10	0309194	05	1.0	11/16/10 08:35		☐
159	L8804	G0J280529-11	0309194	05	1.0	11/16/10 08:39		☐
160	CCV				1.0	11/16/10 08:43		☐
161	CCB				1.0	11/16/10 08:47		☐
162	L92W3B	G0K150000	0319146	46	1.0	11/16/10 08:51		☐
163	L92W3C	G0K150000	0319146	46	1.0	11/16/10 08:55		☐
164	L9P12	G0K080481-1	0319146	46	1.0	11/16/10 09:00		☐
165	L9P12P5	G0K080481	0319146		5.0	11/16/10 09:04		☐
166	L9P12Z	G0K080481-1	0319146		1.0	11/16/10 09:08		☐
167	L9P12S	G0K080481-1	0319146	46	1.0	11/16/10 09:11		☐
168	L9P12D	G0K080481-1	0319146	46	1.0	11/16/10 09:15		☐
169	L880V	G0J280529-6	0309194	05	1.0	11/16/10 09:20		☐
170	CCV				1.0	11/16/10 09:24		☐
171	CCB				1.0	11/16/10 09:28		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6010 () | PE ICP2 (P05) | Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv | Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
1	Calib_Blank_'	11/15/10 15:33	0.0	0.0	☑
2	Calib_Std_1	11/15/10 15:37	0.0	0.0	☑
3	Calib_Std_2	11/15/10 15:39	0.0	0.0	☑
4	Calib_Std_3	11/15/10 15:42	0.0	0.0	☑
5	Calib_Std_4	11/15/10 15:45	0.0	0.0	☑
6	LR Std	11/15/10 15:52	97.0	92.1	☑
7	ICV4	11/15/10 15:57	98.2	99.6	☑
8	ICV2A	11/15/10 16:01	99.6	98.6	☑
9	ICB	11/15/10 16:07	98.9	96.9	☑
10	LL1	11/15/10 16:11	100.6	91.2	☑
11	LL2	11/15/10 16:15	101.0	97.5	☑
12	ICSA	11/15/10 16:19	92.5	95.8	☑
13	ICSAB_4.0	11/15/10 16:24	89.8	95.1	☑
14	Al 1000ppm	11/15/10 16:33	92.9	101.4	☑
15	Ca 1000ppm	11/15/10 16:39	93.1	97.3	☑
16	Fe 1000ppm	11/15/10 16:45	98.2	99.4	☑
17	Mg 1000ppm	11/15/10 16:51	95.2	98.8	☑
18	Na 500ppm	11/15/10 16:57	95.7	97.6	☑
19	CCV	11/15/10 17:03	98.0	98.0	☑
20	CCB	11/15/10 17:07	99.4	100.3	☑
21	L9E01B	11/15/10 17:13	104.2	102.7	☑
22	L9E01C	11/15/10 17:17	98.8	86.9	☑
23	L84FD 2X	11/15/10 17:20	99.0	97.6	☑
24	L84FDS	11/15/10 17:24	97.6	99.0	☑
25	L84FDD	11/15/10 17:28	97.9	100.1	☑
26	L84EX	11/15/10 17:34	98.0	102.7	☑
27	L84EXP5	11/15/10 17:37	97.8	101.1	☑
28	L84E9 5X	11/15/10 17:41	99.1	99.7	☑
29	L84EXZ	11/15/10 17:45	96.2	100.5	☑
30	L84E9	11/15/10 17:49	98.5	99.9	☑
31	CCV	11/15/10 17:52	97.2	99.2	☑
32	CCB	11/15/10 17:56	100.1	98.6	☑
33	L84FA	11/15/10 18:00	99.8	103.9	☑
34	L84FF	11/15/10 18:03	98.9	103.3	☑
35	L84FL	11/15/10 18:07	99.6	102.5	☑
36	L84FN	11/15/10 18:10	98.1	104.1	☑
37	L84FQ	11/15/10 18:14	100.7	102.0	☑
38	L84FR	11/15/10 18:17	99.6	93.8	☑
39	L84FT	11/15/10 18:20	100.7	106.1	☑
40	L84FV	11/15/10 18:24	101.9	104.4	☑
41	L84FW	11/15/10 18:28	101.0	104.8	☑
42	CCV	11/15/10 18:31	98.1	98.6	☑
43	CCB	11/15/10 18:35	99.5	99.9	☑
44	L85KA 5X	11/15/10 18:39	99.8	102.4	☑
45	L85KA	11/15/10 18:43	100.7	101.1	☑
46	L85KC 5X	11/15/10 18:46	100.7	101.1	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
47	L85KC	11/15/10 18:50	101.0	103.5	☑
48	L85KF 5X	11/15/10 18:53	101.4	104.2	☑
49	L85KF	11/15/10 18:58	99.8	107.2	☑
50	L85KG 5X	11/15/10 19:04	100.6	103.5	☑
51	L85KG	11/15/10 19:17	101.1	104.3	☑
52	L85KH 5X	11/15/10 19:21	99.3	101.9	☑
53	L85KH	11/15/10 19:25	100.5	102.7	☑
54	CCV	11/15/10 19:28	96.7	100.2	☑
55	CCB	11/15/10 19:32	99.3	97.9	☑
56	L85KH	11/15/10 19:36	99.5	104.1	☑
57	L85KL 5X	11/15/10 19:39	99.1	103.0	☑
58	L85KL	11/15/10 19:43	99.8	105.2	☑
59	L85KT 5X	11/15/10 19:46	99.0	104.7	☑
60	L85KT	11/15/10 19:50	99.2	105.1	☑
61	L85K1 5X	11/15/10 19:54	100.9	104.2	☑
62	L85K1	11/15/10 19:58	99.5	105.8	☑
63	L85LW 5X	11/15/10 20:02	100.2	103.5	☑
64	L85LW	11/15/10 20:06	101.4	104.9	☑
65	CCV	11/15/10 20:10	96.2	100.3	☑
66	CCB	11/15/10 20:14	100.6	103.3	☑
67	L92W9B	11/15/10 20:18	101.8	104.3	☑
68	L92W9C	11/15/10 20:22	97.7	94.4	☑
69	L86P9	11/15/10 20:27	101.1	106.7	☑
70	L86P9P5	11/15/10 20:31	100.6	102.2	☑
71	L86P9Z	11/15/10 20:35	99.9	106.2	☑
72	L86P9S	11/15/10 20:38	98.1	106.3	☑
73	L86P9D	11/15/10 20:42	99.7	107.0	☑
74	L86P2	11/15/10 20:47	100.7	106.2	☑
75	L86P8	11/15/10 20:51	100.2	106.8	☑
76	L86QA	11/15/10 20:55	101.0	106.5	☑
77	CCV	11/15/10 20:59	96.7	101.9	☑
78	CCB	11/15/10 21:03	100.0	102.1	☑
79	L86QC	11/15/10 21:07	99.3	106.6	☑
80	L86QD	11/15/10 21:11	102.3	107.1	☑
81	L86QE	11/15/10 21:15	103.0	106.8	☑
82	L86QG	11/15/10 21:19	100.5	105.6	☑
83	L86QH	11/15/10 21:23	102.2	107.5	☑
84	L86QJ	11/15/10 21:27	102.7	108.0	☑
85	L86QK	11/15/10 21:31	101.6	105.0	☑
86	CCV	11/15/10 21:35	97.5	101.3	☑
87	CCB	11/15/10 21:39	100.2	103.5	☑
88	L9JG0B	11/15/10 21:42	102.6	107.1	☑
89	L9JG0C	11/15/10 21:46	98.3	104.3	☑
90	L88A0	11/15/10 21:52	100.2	106.9	☑
91	L88A0P5	11/15/10 21:56	100.2	103.2	☑
92	L88A0Z	11/15/10 22:00	99.2	105.6	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
93	L88A0S	11/15/10 22:03	99.0	105.8	☑
94	L88A0D	11/15/10 22:06	98.9	105.8	☑
95	L879P	11/15/10 22:12	96.2	103.0	☑
96	L879R	11/15/10 22:15	99.2	102.3	☑
97	L8790	11/15/10 22:19	100.9	104.1	☑
98	CCV	11/15/10 22:23	98.5	102.7	☑
99	CCB	11/15/10 22:27	99.7	102.6	☑
100	L8795	11/15/10 22:31	101.3	106.5	☑
101	L8797	11/15/10 22:35	100.1	106.7	☑
102	L8798	11/15/10 22:38	102.1	108.0	☑
103	L88AA	11/15/10 22:42	100.1	106.5	☑
104	L88AD	11/15/10 22:45	100.0	107.5	☑
105	L88AJ	11/15/10 22:48	102.2	110.3	☑
106	L88AK	11/15/10 22:52	99.7	107.4	☑
107	L88AL	11/15/10 22:56	103.7	104.5	☑
108	L88AM	11/15/10 23:00	104.0	110.5	☑
109	L88AN	11/15/10 23:04	100.9	107.1	☑
110	CCV	11/15/10 23:08	97.6	103.0	☑
111	CCB	11/15/10 23:12	99.7	106.2	☑
112	L88AT	11/15/10 23:16	99.6	107.5	☑
113	L88AV	11/15/10 23:19	101.9	108.5	☑
114	L88AX	11/15/10 23:23	102.6	107.1	☑
115	L88A1	11/15/10 23:27	100.4	107.3	☑
116	L88A3	11/15/10 23:31	100.3	108.6	☑
117	CCV	11/15/10 23:35	97.5	102.9	☑
118	CCB	11/15/10 23:39	100.3	104.4	☑
119	L9JJTB	11/15/10 23:42	106.1	109.1	☑
120	L9JJTC	11/15/10 23:46	99.1	100.8	☑
121	L88CQ	11/15/10 23:52	99.4	102.8	☑
122	L88CQP5	11/15/10 23:55	101.0	107.0	☑
123	L88CQZ	11/15/10 23:59	100.0	107.5	☑
124	L88CQS	11/16/10 00:03	100.3	106.5	☑
125	L88CQD	11/16/10 00:06	99.2	107.2	☑
126	L878R	11/16/10 00:12	101.5	107.4	☑
127	L879F	11/16/10 00:16	99.7	106.1	☑
128	L879M	11/16/10 00:19	98.8	108.2	☑
129	CCV	11/16/10 00:23	98.1	103.5	☑
130	CCB	11/16/10 00:27	99.4	104.5	☑
131	L88CL	11/16/10 00:31	100.7	104.5	☑
132	L88CN	11/16/10 00:35	102.5	107.8	☑
133	L88CV	11/16/10 00:39	100.1	106.2	☑
134	L88CX	11/16/10 00:43	101.0	106.1	☑
135	L88C0	11/16/10 00:47	96.8	109.1	☑
136	L88C1	11/16/10 00:51	101.8	109.1	☑
137	L88C3	11/16/10 00:55	101.2	108.5	☑
138	L88C4	11/16/10 00:59	101.1	109.1	☑

Method: 6010 () PE ICP2 (P05) Reported: 11/16/10 16:26:26

File ID: NOV1510EX.csv Analyst: votawb

#	Sample ID	Analyzed Date	Y_ Axial	Y_ Radial	Q
139	L88C6	11/16/10 01:03	102.9	110.0	☑
140	L88C7	11/16/10 01:07	100.2	99.1	☑
141	CCV	11/16/10 01:11	97.0	100.4	☑
142	CCB	11/16/10 01:15	98.0	97.5	☑
143	L880Q	11/16/10 01:19	100.5	103.7	☑
144	L880QP5	11/16/10 01:22	99.3	105.3	☑
145	L880QZ	11/16/10 01:26	96.7	99.9	☑
146	L880QS	11/16/10 01:30	96.9	101.4	☑
147	L880QD	11/16/10 01:33	96.4	102.5	☑
148	L880P	11/16/10 01:39	99.3	104.3	☑
149	L880R	11/16/10 01:42	99.6	107.8	☑
150	L880T	11/16/10 01:46	98.8	104.5	☑
151	L880V	11/16/10 08:02	194.1	178.3	☐
152	L880W	11/16/10 08:06	98.2	98.7	☑
153	CCV	11/16/10 08:16	96.3	96.0	☑
154	CCB	11/16/10 08:20	98.2	98.5	☑
155	L880W	11/16/10 08:24	99.0	102.2	☑
156	L880X	11/16/10 08:28	98.9	100.9	☑
157	L8801	11/16/10 08:32	99.1	104.4	☑
158	L8802	11/16/10 08:35	101.0	102.2	☑
159	L8804	11/16/10 08:39	100.2	102.7	☑
160	CCV	11/16/10 08:43	98.8	102.5	☑
161	CCB	11/16/10 08:47	99.3	103.7	☑
162	L92W3B	11/16/10 08:51	103.4	107.1	☑
163	L92W3C	11/16/10 08:55	99.3	105.1	☑
164	L9P12	11/16/10 09:00	103.3	109.5	☑
165	L9P12P5	11/16/10 09:04	103.1	107.4	☑
166	L9P12Z	11/16/10 09:08	101.4	108.9	☑
167	L9P12S	11/16/10 09:11	102.6	109.9	☑
168	L9P12D	11/16/10 09:15	103.9	111.0	☑
169	L880V	11/16/10 09:20	106.3	109.2	☑
170	CCV	11/16/10 09:24	102.8	107.8	☑
171	CCB	11/16/10 09:28	106.4	105.5	☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6010 | PE ICP2 | Reported: 11/16/10 16:26:50

Method: 6010 **Instrument: PE ICP2** **Batch: NOV1510EX.csv**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV4	ICV	NOV1510EX.csv, 7	11/15/2010 15:57:48	☐
ICV2A	ICV	NOV1510EX.csv, 8	11/15/2010 16:01:41	☐
ICB	ICB	NOV1510EX.csv, 9	11/15/2010 16:07:52	☐
ICSA	ICSA	NOV1510EX.csv, 12	11/15/2010 16:19:15	☐
ICSAB_4.0	ICSAB	NOV1510EX.csv, 13	11/15/2010 16:24:57	☐
CCV	CCV	NOV1510EX.csv, 19	11/15/2010 17:03:57	☐
CCB	CCB	NOV1510EX.csv, 20	11/15/2010 17:07:53	☐
CCV	CCV	NOV1510EX.csv, 31	11/15/2010 17:52:33	☐
CCB	CCB	NOV1510EX.csv, 32	11/15/2010 17:56:29	☐
CCV	CCV	NOV1510EX.csv, 42	11/15/2010 18:31:39	☐
CCB	CCB	NOV1510EX.csv, 43	11/15/2010 18:35:37	☐
CCV	CCV	NOV1510EX.csv, 54	11/15/2010 19:28:37	☐
CCB	CCB	NOV1510EX.csv, 55	11/15/2010 19:32:35	☐
CCV	CCV	NOV1510EX.csv, 65	11/15/2010 20:10:37	☐
CCB	CCB	NOV1510EX.csv, 66	11/15/2010 20:14:35	☐
CCV	CCV	NOV1510EX.csv, 77	11/15/2010 20:59:52	☐
CCB	CCB	NOV1510EX.csv, 78	11/15/2010 21:03:48	☐
CCV	CCV	NOV1510EX.csv, 86	11/15/2010 21:35:08	☐
CCB	CCB	NOV1510EX.csv, 87	11/15/2010 21:39:05	☐
CCV	CCV	NOV1510EX.csv, 98	11/15/2010 22:23:25	☐
CCB	CCB	NOV1510EX.csv, 99	11/15/2010 22:27:20	☐
CCV	CCV	NOV1510EX.csv, 110	11/15/2010 23:08:41	☐
CCB	CCB	NOV1510EX.csv, 111	11/15/2010 23:12:37	☐
CCV	CCV	NOV1510EX.csv, 117	11/15/2010 23:35:12	☐
CCB	CCB	NOV1510EX.csv, 118	11/15/2010 23:39:07	☐
CCV	CCV	NOV1510EX.csv, 129	11/16/2010 00:23:49	☐
CCB	CCB	NOV1510EX.csv, 130	11/16/2010 00:27:47	☐
CCV	CCV	NOV1510EX.csv, 141	11/16/2010 01:11:20	☐
CCB	CCB	NOV1510EX.csv, 142	11/16/2010 01:15:15	☐
CCV	CCV	NOV1510EX.csv, 153	11/16/2010 08:16:32	☐
CCB	CCB	NOV1510EX.csv, 154	11/16/2010 08:20:27	☐
CCV	CCV	NOV1510EX.csv, 160	11/16/2010 08:43:41	☐
CCB	CCB	NOV1510EX.csv, 161	11/16/2010 08:47:39	☐
CCV	CCV	NOV1510EX.csv, 170	11/16/2010 09:24:47	☐
CCB	CCB	NOV1510EX.csv, 171	11/16/2010 09:28:44	☐

TAL West Sac

CALIBRATION REPORT

Method: 6010 | PE ICP2 | Reported: 11/16/10 16:26:50

Department: 120 (Metals) | Source: OPTIMA

Sample: **ICV4 (ICV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **PE 4300** | Channel 268
File: NOV1510EX.csv # 7 | Method 6010O
Acquired: 11/15/2010 15:57:48 | PE ICP2
Calibrated: 11/15/2010 15:33:19 | Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.26279	0.25000	105	☑
7440-38-2	Arsenic		0.24997	0.25000	100	☑
7440-42-8	Boron		0.51366	0.50000	103	☑
7440-39-3	Barium		1.0369	1.0000	104	☑
7440-70-2	Calcium		10.348	10.000	103	☑
7440-47-3	Chromium		1.0453	1.0000	105	☑
7440-50-8	Copper		1.0226	1.0000	102	☑
7440-09-7	Potassium		8.8896	10.000	88.9	☐
7439-93-2	Lithium		1.5189	1.0000	152	☐
7439-95-4	Magnesium		10.584	10.000	106	☑
7439-96-5	Manganese		1.0380	1.0000	104	☑
7439-98-7	Molybdenum		0.51121	0.50000	102	☑
7440-02-0	Nickel		1.0477	1.0000	105	☑
7439-92-1	Lead		0.26464	0.25000	106	☑
7440-36-0	Antimony		0.24781	0.25000	99.1	☑
7782-49-2	Selenium		0.24897	0.25000	99.6	☑
7440-21-3	Silicon		1.0536		*	
7440-31-5	Tin		1.0332	1.0000	103	☑
7440-28-0	Thallium		0.25384	0.25000	102	☑
7440-66-6	Zinc		1.0268	1.0000	103	☑
7429-90-5	Aluminum		10.185	10.000	102	☑
7440-41-7	Beryllium		0.25059	0.25000	100	☑
7440-43-9	Cadmium		0.26219	0.25000	105	☑
7440-48-4	Cobalt		1.0356	1.0000	104	☑
7439-89-6	Iron		10.806	10.000	108	☑
7439-89-6	Iron		10.832	10.000	108	☑
7440-23-5	Sodium		9.8590	10.000	98.6	☑
7440-23-5	Sodium		12.365	10.000	124	☑
7723-14-0	Phosphorus		1.0363	1.0000	104	☑
7723-14-0	Phosphorus		0.96450	1.0000	96.4	☑
7704-34-9	Sulfur		0.70140		*	
7704-34-9	Sulfur		0.31588		*	
7704-34-9	Sulfur		0.31740		*	
7704-34-9	Sulfur		0.59431		*	
7440-21-3	Silicon		1.0057		*	
7440-24-6	Strontium		0.86563	1.0000	86.6	☐
7440-24-6	Strontium		1.0235	1.0000	102	☑
7440-32-6	Titanium		0.51242	0.50000	102	☑
7440-32-6	Titanium		0.50152	0.50000	100	☑
7440-62-2	Vanadium		1.0430	1.0000	104	☑

Reviewed by: | Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.230	☑
R7440655	Y_ Radial		99.618	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **ICV2A (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 8 Method 6010O
Acquired: 11/15/2010 16:01:41 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.00025		*	
7440-38-2	Arsenic		0.00831		*	
7440-42-8	Boron		0.00826		*	
7440-39-3	Barium		-0.00012		*	
7440-70-2	Calcium		0.00109		*	
7440-47-3	Chromium		0.00022		*	
7440-50-8	Copper		0.00004		*	
7440-09-7	Potassium		0.26542		*	
7439-93-2	Lithium		-0.01391		*	
7439-95-4	Magnesium		-0.00422		*	
7439-96-5	Manganese		-0.00048		*	
7439-98-7	Molybdenum		-0.00024		*	
7440-02-0	Nickel		0.00035		*	
7439-92-1	Lead		-0.00073		*	
7440-36-0	Antimony		0.23698	0.25000	94.8	☑
7782-49-2	Selenium		-0.00319		*	
7440-21-3	Silicon		0.98081	1.0000	98.1	☑
7440-31-5	Tin		0.00007		*	
7440-28-0	Thallium		0.00154		*	
7440-66-6	Zinc		0.00111		*	
7429-90-5	Aluminum		0.07294		*	
7440-41-7	Beryllium		0.00005		*	
7440-43-9	Cadmium		0.00012		*	
7440-48-4	Cobalt		0.00044		*	
7439-89-6	Iron		0.00284		*	
7439-89-6	Iron		0.00136		*	
7440-23-5	Sodium		24.947	25.000	99.8	☑
7440-23-5	Sodium		22.260	25.000	89.0	☑
7723-14-0	Phosphorus		2.0529	2.0000	103	☑
7723-14-0	Phosphorus		1.9799	2.0000	99.0	☑
7704-34-9	Sulfur		1.9291	2.0000	96.5	☑
7704-34-9	Sulfur		2.4546	2.0000	123	☐
7704-34-9	Sulfur		2.0080	2.0000	100	☑
7704-34-9	Sulfur		2.0770	2.0000	104	☑
7440-21-3	Silicon		0.95877	1.0000	95.9	☑
7440-24-6	Strontium		0.11044		*	
7440-24-6	Strontium		0.00049		*	
7440-32-6	Titanium		0.00064		*	
7440-32-6	Titanium		0.00309		*	
7440-62-2	Vanadium		0.00024		*	

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.613	☑
R7440655	Y_ Radial		98.625	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 9 Method 6010O
Acquired: 11/15/2010 16:07:52 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		-0.00003	0.0050	0.0010	0.00059	☑
7440-38-2	Arsenic		-0.00063	0.010	0.0070	0.0027	☑
7440-42-8	Boron		0.00176	0.10	0.010	0.00052	☑
7440-39-3	Barium		-0.00002	0.0050	0.0040	0.000018	☑
7440-70-2	Calcium		-0.00490	0.50	0.10	0.0043	☑
7440-47-3	Chromium		0.00035	0.0050	0.0040	0.00042	☑
7440-50-8	Copper		-0.00002	0.0050	0.0050	0.00059	☑
7440-09-7	Potassium		0.03357	1.0	0.25	0.094	☑
7439-93-2	Lithium		0.00129	0.010	0.0060	0.00057	☑
7439-95-4	Magnesium		-0.00823	0.50	0.075	0.013	☑
7439-96-5	Manganese		0.00012	0.0050	0.0010	0.00018	☑
7439-98-7	Molybdenum		0.00010	0.010	0.010	0.00054	☑
7440-02-0	Nickel		0.00086	0.0050	0.0030	0.00060	☑
7439-92-1	Lead		0.00033	0.0030	0.0030	0.00061	☑
7440-36-0	Antimony		-0.00394	0.010	0.0050	0.0010	☑
7782-49-2	Selenium		0.00099	0.0050	0.0070	0.00091	☑
7440-21-3	Silicon		0.00170	0.10	0.0050	0.0015	☑
7440-31-5	Tin		0.00008	0.020	0.012	0.0026	☑
7440-28-0	Thallium		-0.00034	0.010	0.0050	0.0022	☑
7440-66-6	Zinc		0.00014	0.0050	0.0070	0.000091	☑
7429-90-5	Aluminum		0.01406	0.10	0.035	0.0083	☑
7440-41-7	Beryllium		-0.00024	0.0020	0.0010	0.00017	☑
7440-43-9	Cadmium		0.00003	0.0020	0.0010	0.0000010	☑
7440-48-4	Cobalt		-0.00081	0.0050	0.0020	0.00047	☑
7439-89-6	Iron		-0.00053	0.050	0.016	0.00024	☑
7439-89-6	Iron		-0.00721	0.050	0.016	0.0024	☑
7440-23-5	Sodium		0.01132	0.50	0.25	0.027	☑
7440-23-5	Sodium		-3.0750	0.50	0.25	0.30	☐
7723-14-0	Phosphorus		-0.00096	0.30	0.013	0.00094	☑
7723-14-0	Phosphorus		-0.00046	0.30	0.013	0.023	☑
7704-34-9	Sulfur		-0.04334	0.10	0.074	0.038	☑
7704-34-9	Sulfur		-0.14308	0.10	0.074	0.29	☑
7704-34-9	Sulfur		-0.00132	0.10	0.074	0.0014	☑
7704-34-9	Sulfur		0.09044	0.10	0.074	0.041	☑
7440-21-3	Silicon		0.00802	0.10	0.0050	0.0090	☐
7440-24-6	Strontium		0.01158	0.050	0.0050	0.039	☐
7440-24-6	Strontium		0.00004	0.050	0.0050	0.00013	☑
7440-32-6	Titanium		0.00071	0.010	0.0030	0.00030	☑
7440-32-6	Titanium		0.00064	0.010	0.0030	0.0028	☑
7440-62-2	Vanadium		-0.00006	0.0050	0.0020	0.00060	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.888	☑
R7440655	Y_ Radial		96.880	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 12 Method 6010O
Acquired: 11/15/2010 16:19:15 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		-0.00158		*	☑
7440-38-2	Arsenic		-0.02460		*	☑
7440-42-8	Boron		-0.02676		*	☑
7440-39-3	Barium		0.00231		*	☑
7440-70-2	Calcium		503.27	500.00	101	☑
7440-47-3	Chromium		0.01059		*	
7440-50-8	Copper		-0.01790		*	☑
7440-09-7	Potassium		-0.22944		*	☑
7439-93-2	Lithium		0.00354		*	☑
7439-95-4	Magnesium		509.14	500.00	102	☑
7439-96-5	Manganese		-0.00923		*	☑
7439-98-7	Molybdenum		0.00691		*	☑
7440-02-0	Nickel		0.00101		*	☑
7439-92-1	Lead		0.00201		*	☑
7440-36-0	Antimony		0.00384		*	☑
7782-49-2	Selenium		0.00705		*	
7440-21-3	Silicon		-0.00139		*	☑
7440-31-5	Tin		-0.00934		*	☑
7440-28-0	Thallium		-0.01687		*	☑
7440-66-6	Zinc		-0.00681		*	☑
7429-90-5	Aluminum		507.79	500.00	102	☑
7440-41-7	Beryllium		0.00019		*	☑
7440-43-9	Cadmium		-0.00089		*	☑
7440-48-4	Cobalt		-0.00443		*	☑
7439-89-6	Iron		199.56	200.00	99.8	☑
7439-89-6	Iron		204.37	200.00	102	☑
7440-23-5	Sodium		-0.04445		*	☑
7440-23-5	Sodium		-0.37582		*	☑
7723-14-0	Phosphorus		-0.12227		*	☑
7723-14-0	Phosphorus		0.27513		*	☑
7704-34-9	Sulfur		2.6784		*	
7704-34-9	Sulfur		6.7064		*	
7704-34-9	Sulfur		0.65246		*	
7704-34-9	Sulfur		-4.0904		*	☑
7440-21-3	Silicon		0.06197		*	☑
7440-24-6	Strontium		0.13006		*	
7440-24-6	Strontium		0.02842		*	☑
7440-32-6	Titanium		0.00600		*	☑
7440-32-6	Titanium		-0.00220		*	☑
7440-62-2	Vanadium		0.01318		*	

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		92.495	☑
R7440655	Y_ Radial		95.828	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **ICSAB_4.0** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 13 Method 6010O
Acquired: 11/15/2010 16:24:57 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.22377	0.20000	112	☑
7440-38-2	Arsenic		0.11963	0.10000	120	☑
7440-42-8	Boron		-0.03352		*	
7440-39-3	Barium		0.48530	0.50000	97.1	☑
7440-70-2	Calcium		505.97	500.00	101	☑
7440-47-3	Chromium		0.52485	0.50000	105	☑
7440-50-8	Copper		0.52856	0.50000	106	☑
7440-09-7	Potassium		-0.16069		*	
7439-93-2	Lithium		0.00337		*	
7439-95-4	Magnesium		511.81	500.00	102	☑
7439-96-5	Manganese		0.49463	0.50000	98.9	☑
7439-98-7	Molybdenum		0.00838		*	
7440-02-0	Nickel		0.99856	1.0000	99.9	☑
7439-92-1	Lead		0.05972	0.050000	119	☑
7440-36-0	Antimony		0.63815	0.60000	106	☑
7782-49-2	Selenium		0.04542	0.050000	90.8	☑
7440-21-3	Silicon		-0.00729		*	
7440-31-5	Tin		-0.02074		*	
7440-28-0	Thallium		0.09654	0.10000	96.5	☑
7440-66-6	Zinc		0.96566	1.0000	96.6	☑
7429-90-5	Aluminum		510.93	500.00	102	☑
7440-41-7	Beryllium		0.50316	0.50000	101	☑
7440-43-9	Cadmium		1.0047	1.0000	100	☑
7440-48-4	Cobalt		0.49993	0.50000	100	☑
7439-89-6	Iron		201.20	200.00	101	☑
7439-89-6	Iron		205.82	200.00	103	☑
7440-23-5	Sodium		-0.05289		*	
7440-23-5	Sodium		2.7464		*	
7723-14-0	Phosphorus		-0.10318		*	
7723-14-0	Phosphorus		0.24127		*	
7704-34-9	Sulfur		2.8172		*	
7704-34-9	Sulfur		6.2708		*	
7704-34-9	Sulfur		0.70924		*	
7704-34-9	Sulfur		-4.1627		*	
7440-21-3	Silicon		0.04848		*	
7440-24-6	Strontium		0.11821		*	
7440-24-6	Strontium		0.02894		*	
7440-32-6	Titanium		0.00626		*	
7440-32-6	Titanium		-0.00180		*	
7440-62-2	Vanadium		0.54095	0.50000	108	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		89.774	☑
R7440655	Y_ Radial		95.121	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 19 Method 6010O
Acquired: 11/15/2010 17:03:57 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.51372	0.50000	103	☑
7440-38-2	Arsenic		0.49847	0.50000	99.7	☑
7440-42-8	Boron		0.99255	1.0000	99.3	☑
7440-39-3	Barium		2.5538	2.5000	102	☑
7440-70-2	Calcium		25.946	25.000	104	☑
7440-47-3	Chromium		2.5531	2.5000	102	☑
7440-50-8	Copper		2.5255	2.5000	101	☑
7440-09-7	Potassium		23.031	25.000	92.1	☑
7439-93-2	Lithium		2.4624	2.5000	98.5	☑
7439-95-4	Magnesium		26.796	25.000	107	☑
7439-96-5	Manganese		2.6086	2.5000	104	☑
7439-98-7	Molybdenum		1.0187	1.0000	102	☑
7440-02-0	Nickel		2.5669	2.5000	103	☑
7439-92-1	Lead		0.51191	0.50000	102	☑
7440-36-0	Antimony		0.49905	0.50000	99.8	☑
7782-49-2	Selenium		0.50506	0.50000	101	☑
7440-21-3	Silicon		2.6831	2.5000	107	☑
7440-31-5	Tin		2.5497	2.5000	102	☑
7440-28-0	Thallium		0.50270	0.50000	101	☑
7440-66-6	Zinc		2.5508	2.5000	102	☑
7429-90-5	Aluminum		25.488	25.000	102	☑
7440-41-7	Beryllium		0.50244	0.50000	100	☑
7440-43-9	Cadmium		0.51020	0.50000	102	☑
7440-48-4	Cobalt		2.5651	2.5000	103	☑
7439-89-6	Iron		25.991	25.000	104	☑
7439-89-6	Iron		27.427	25.000	110	☑
7440-23-5	Sodium		25.203	25.000	101	☑
7440-23-5	Sodium		32.758	25.000	131	☑
7723-14-0	Phosphorus		2.4885	2.5000	99.5	☑
7723-14-0	Phosphorus		2.5784	2.5000	103	☑
7704-34-9	Sulfur		4.0309	25.000	16.1	☐
7704-34-9	Sulfur		3.8036	25.000	15.2	☐
7704-34-9	Sulfur		3.1576	25.000	12.6	☐
7704-34-9	Sulfur		3.7053	25.000	14.8	☐
7440-21-3	Silicon		2.6633	2.5000	107	☑
7440-24-6	Strontium		2.5848	2.5000	103	☑
7440-24-6	Strontium		2.5225	2.5000	101	☑
7440-32-6	Titanium		1.0222	1.0000	102	☑
7440-32-6	Titanium		1.0119	1.0000	101	☑
7440-62-2	Vanadium		2.6016	2.5000	104	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.952	☑
R7440655	Y_ Radial		98.032	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 20 Method 6010O
Acquired: 11/15/2010 17:07:53 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00031	0.0050	0.0010	0.00011	☑
7440-38-2	Arsenic		0.00572	0.010	0.0070	0.00064	☐
7440-42-8	Boron		0.00448	0.10	0.010	0.0023	☑
7440-39-3	Barium		0.00007	0.0050	0.0040	0.000025	☑
7440-70-2	Calcium		0.00282	0.50	0.10	0.0014	☑
7440-47-3	Chromium		-0.00011	0.0050	0.0040	0.00026	☑
7440-50-8	Copper		-0.00008	0.0050	0.0050	0.0000090	☑
7440-09-7	Potassium		-0.01024	1.0	0.25	0.071	☑
7439-93-2	Lithium		0.00371	0.010	0.0060	0.00019	☑
7439-95-4	Magnesium		0.00599	0.50	0.075	0.014	☑
7439-96-5	Manganese		-0.00042	0.0050	0.0010	0.000027	☑
7439-98-7	Molybdenum		-0.00051	0.010	0.010	0.00055	☑
7440-02-0	Nickel		0.00027	0.0050	0.0030	0.000019	☑
7439-92-1	Lead		0.00165	0.0030	0.0030	0.00027	☑
7440-36-0	Antimony		-0.00181	0.010	0.0050	0.0017	☑
7782-49-2	Selenium		0.00568	0.0050	0.0070	0.0071	☐
7440-21-3	Silicon		0.00432	0.10	0.0050	0.0012	☑
7440-31-5	Tin		0.00074	0.020	0.012	0.0010	☑
7440-28-0	Thallium		-0.00209	0.010	0.0050	0.0027	☑
7440-66-6	Zinc		0.00010	0.0050	0.0070	0.000019	☑
7429-90-5	Aluminum		0.01902	0.10	0.035	0.0064	☑
7440-41-7	Beryllium		-0.00006	0.0020	0.0010	0.000043	☑
7440-43-9	Cadmium		-0.00005	0.0020	0.0010	0.000010	☑
7440-48-4	Cobalt		-0.00087	0.0050	0.0020	0.00038	☑
7439-89-6	Iron		-0.00018	0.050	0.016	0.00047	☑
7439-89-6	Iron		0.00303	0.050	0.016	0.00094	☑
7440-23-5	Sodium		0.01564	0.50	0.25	0.022	☑
7440-23-5	Sodium		-2.0957	0.50	0.25	1.9	☐
7723-14-0	Phosphorus		-0.00648	0.30	0.013	0.0037	☑
7723-14-0	Phosphorus		-0.01310	0.30	0.013	0.0046	☑
7704-34-9	Sulfur		0.00618	0.10	0.074	0.079	☑
7704-34-9	Sulfur		-0.25211	0.10	0.074	0.14	☐
7704-34-9	Sulfur		-0.00387	0.10	0.074	0.019	☑
7704-34-9	Sulfur		0.20969	0.10	0.074	0.23	☐
7440-21-3	Silicon		0.00598	0.10	0.0050	0.011	☐
7440-24-6	Strontium		-0.01165	0.050	0.0050	0.027	☑
7440-24-6	Strontium		0.00013	0.050	0.0050	0.000070	☑
7440-32-6	Titanium		0.00097	0.010	0.0030	0.0010	☑
7440-32-6	Titanium		0.00210	0.010	0.0030	0.000062	☑
7440-62-2	Vanadium		-0.00022	0.0050	0.0020	0.00037	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.354	☑
R7440655	Y_ Radial		100.30	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 31 Method 6010O
Acquired: 11/15/2010 17:52:33 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.52342	0.50000	105	☑
7440-38-2	Arsenic		0.49820	0.50000	99.6	☑
7440-42-8	Boron		1.0073	1.0000	101	☑
7440-39-3	Barium		2.5919	2.5000	104	☑
7440-70-2	Calcium		26.191	25.000	105	☑
7440-47-3	Chromium		2.5771	2.5000	103	☑
7440-50-8	Copper		2.5526	2.5000	102	☑
7440-09-7	Potassium		23.077	25.000	92.3	☑
7439-93-2	Lithium		2.4507	2.5000	98.0	☑
7439-95-4	Magnesium		26.763	25.000	107	☑
7439-96-5	Manganese		2.6270	2.5000	105	☑
7439-98-7	Molybdenum		1.0264	1.0000	103	☑
7440-02-0	Nickel		2.5995	2.5000	104	☑
7439-92-1	Lead		0.51212	0.50000	102	☑
7440-36-0	Antimony		0.49941	0.50000	99.9	☑
7782-49-2	Selenium		0.49776	0.50000	99.6	☑
7440-21-3	Silicon		2.7138	2.5000	109	☑
7440-31-5	Tin		2.5445	2.5000	102	☑
7440-28-0	Thallium		0.50882	0.50000	102	☑
7440-66-6	Zinc		2.5631	2.5000	103	☑
7429-90-5	Aluminum		25.603	25.000	102	☑
7440-41-7	Beryllium		0.50513	0.50000	101	☑
7440-43-9	Cadmium		0.51174	0.50000	102	☑
7440-48-4	Cobalt		2.6012	2.5000	104	☑
7439-89-6	Iron		26.393	25.000	106	☑
7439-89-6	Iron		27.900	25.000	112	☐
7440-23-5	Sodium		25.185	25.000	101	☑
7440-23-5	Sodium		32.280	25.000	129	☑
7723-14-0	Phosphorus		2.4827	2.5000	99.3	☑
7723-14-0	Phosphorus		2.5952	2.5000	104	☑
7704-34-9	Sulfur		4.1174	25.000	16.5	☐
7704-34-9	Sulfur		3.8439	25.000	15.4	☐
7704-34-9	Sulfur		3.1625	25.000	12.6	☐
7704-34-9	Sulfur		3.8074	25.000	15.2	☐
7440-21-3	Silicon		2.6900	2.5000	108	☑
7440-24-6	Strontium		2.5989	2.5000	104	☑
7440-24-6	Strontium		2.4683	2.5000	98.7	☑
7440-32-6	Titanium		1.0092	1.0000	101	☑
7440-32-6	Titanium		1.0137	1.0000	101	☑
7440-62-2	Vanadium		2.6533	2.5000	106	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.153	☑
R7440655	Y_ Radial		99.170	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: CCB Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: PE 4300 Channel 268
File: NOV1510EX.csv # 32 Method 6010O
Acquired: 11/15/2010 17:56:29 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00062	0.0050	0.0010	0.00017	☑
7440-38-2	Arsenic		0.00283	0.010	0.0070	0.0014	☑
7440-42-8	Boron		0.00452	0.10	0.010	0.0021	☑
7440-39-3	Barium		0.00011	0.0050	0.0040	0.0000060	☑
7440-70-2	Calcium		0.00381	0.50	0.10	0.0057	☑
7440-47-3	Chromium		-0.00001	0.0050	0.0040	0.00058	☑
7440-50-8	Copper		0.00037	0.0050	0.0050	0.00010	☑
7440-09-7	Potassium		-0.01885	1.0	0.25	0.028	☑
7439-93-2	Lithium		0.00075	0.010	0.0060	0.0028	☑
7439-95-4	Magnesium		-0.00134	0.50	0.075	0.010	☑
7439-96-5	Manganese		-0.00022	0.0050	0.0010	0.00018	☑
7439-98-7	Molybdenum		-0.00122	0.010	0.010	0.0011	☑
7440-02-0	Nickel		-0.00039	0.0050	0.0030	0.00035	☑
7439-92-1	Lead		-0.00093	0.0030	0.0030	0.00020	☑
7440-36-0	Antimony		-0.00179	0.010	0.0050	0.0034	☑
7782-49-2	Selenium		-0.00247	0.0050	0.0070	0.0052	☑
7440-21-3	Silicon		0.00746	0.10	0.0050	0.00024	☐
7440-31-5	Tin		-0.00071	0.020	0.012	0.00098	☑
7440-28-0	Thallium		0.00225	0.010	0.0050	0.0015	☑
7440-66-6	Zinc		-0.00031	0.0050	0.0070	0.000036	☑
7429-90-5	Aluminum		0.00165	0.10	0.035	0.0037	☑
7440-41-7	Beryllium		-0.00021	0.0020	0.0010	0.000076	☑
7440-43-9	Cadmium		-0.00009	0.0020	0.0010	0.0000090	☑
7440-48-4	Cobalt		-0.00017	0.0050	0.0020	0.00011	☑
7439-89-6	Iron		0.00110	0.050	0.016	0.00042	☑
7439-89-6	Iron		0.00263	0.050	0.016	0.0041	☑
7440-23-5	Sodium		0.01566	0.50	0.25	0.050	☑
7440-23-5	Sodium		-4.4825	0.50	0.25	0.50	☐
7723-14-0	Phosphorus		-0.01622	0.30	0.013	0.0014	☑
7723-14-0	Phosphorus		0.00333	0.30	0.013	0.026	☑
7704-34-9	Sulfur		-0.01474	0.10	0.074	0.11	☑
7704-34-9	Sulfur		0.18581	0.10	0.074	0.38	☐
7704-34-9	Sulfur		0.00817	0.10	0.074	0.00025	☑
7704-34-9	Sulfur		0.13645	0.10	0.074	0.079	☐
7440-21-3	Silicon		0.02125	0.10	0.0050	0.0047	☐
7440-24-6	Strontium		0.03145	0.050	0.0050	0.013	☐
7440-24-6	Strontium		-0.00018	0.050	0.0050	0.000055	☑
7440-32-6	Titanium		0.00149	0.010	0.0030	0.00024	☑
7440-32-6	Titanium		-0.00002	0.010	0.0030	0.00047	☑
7440-62-2	Vanadium		0.00064	0.0050	0.0020	0.00062	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		100.14	☑
R7440655	Y_ Radial		98.563	☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **CCV (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 42 Method 6010O
Acquired: 11/15/2010 18:31:39 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Found	True	%R	Q
7440-22-4	Silver		0.51674	0.50000	103	☑
7440-38-2	Arsenic		0.48822	0.50000	97.6	☑
7440-42-8	Boron		0.99339	1.0000	99.3	☑
7440-39-3	Barium		2.5684	2.5000	103	☑
7440-70-2	Calcium		26.409	25.000	106	☑
7440-47-3	Chromium		2.5424	2.5000	102	☑
7440-50-8	Copper		2.5364	2.5000	101	☑
7440-09-7	Potassium		23.174	25.000	92.7	☑
7439-93-2	Lithium		2.4556	2.5000	98.2	☑
7439-95-4	Magnesium		27.027	25.000	108	☑
7439-96-5	Manganese		2.6664	2.5000	107	☑
7439-98-7	Molybdenum		1.0077	1.0000	101	☑
7440-02-0	Nickel		2.5821	2.5000	103	☑
7439-92-1	Lead		0.50115	0.50000	100	☑
7440-36-0	Antimony		0.48886	0.50000	97.8	☑
7782-49-2	Selenium		0.48915	0.50000	97.8	☑
7440-21-3	Silicon		2.7428	2.5000	110	☑
7440-31-5	Tin		2.5005	2.5000	100	☑
7440-28-0	Thallium		0.48855	0.50000	97.7	☑
7440-66-6	Zinc		2.5365	2.5000	101	☑
7429-90-5	Aluminum		25.869	25.000	103	☑
7440-41-7	Beryllium		0.51162	0.50000	102	☑
7440-43-9	Cadmium		0.50833	0.50000	102	☑
7440-48-4	Cobalt		2.5869	2.5000	103	☑
7439-89-6	Iron		26.244	25.000	105	☑
7439-89-6	Iron		28.329	25.000	113	☐
7440-23-5	Sodium		25.503	25.000	102	☑
7440-23-5	Sodium		33.152	25.000	133	☑
7723-14-0	Phosphorus		2.4520	2.5000	98.1	☑
7723-14-0	Phosphorus		2.6076	2.5000	104	☑
7704-34-9	Sulfur		4.1353	25.000	16.5	☐
7704-34-9	Sulfur		3.6306	25.000	14.5	☐
7704-34-9	Sulfur		3.1075	25.000	12.4	☐
7704-34-9	Sulfur		3.8125	25.000	15.2	☐
7440-21-3	Silicon		2.7444	2.5000	110	☑
7440-24-6	Strontium		2.6344	2.5000	105	☑
7440-24-6	Strontium		2.5195	2.5000	101	☑
7440-32-6	Titanium		1.0227	1.0000	102	☑
7440-32-6	Titanium		1.0366	1.0000	104	☑
7440-62-2	Vanadium		2.6458	2.5000	106	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		98.108	☑
R7440655	Y_ Radial		98.577	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

Department: 120 (Metals) Source: OPTIMA

Sample: **CCB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 43 Method 6010O
Acquired: 11/15/2010 18:35:37 PE ICP2
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Amount	RL	MDL	%RSD	Q
7440-22-4	Silver		0.00058	0.0050	0.0010	0.00032	☑
7440-38-2	Arsenic		0.00201	0.010	0.0070	0.0041	☑
7440-42-8	Boron		0.00530	0.10	0.010	0.0010	☑
7440-39-3	Barium		0.00002	0.0050	0.0040	0.000082	☑
7440-70-2	Calcium		-0.00349	0.50	0.10	0.00012	☑
7440-47-3	Chromium		0.00003	0.0050	0.0040	0.0010	☑
7440-50-8	Copper		0.00012	0.0050	0.0050	0.00027	☑
7440-09-7	Potassium		-0.07302	1.0	0.25	0.012	☑
7439-93-2	Lithium		0.00396	0.010	0.0060	0.00090	☑
7439-95-4	Magnesium		-0.00052	0.50	0.075	0.0092	☑
7439-96-5	Manganese		-0.00066	0.0050	0.0010	0.00064	☑
7439-98-7	Molybdenum		-0.00109	0.010	0.010	0.00011	☑
7440-02-0	Nickel		0.00012	0.0050	0.0030	0.00049	☑
7439-92-1	Lead		-0.00069	0.0030	0.0030	0.0010	☑
7440-36-0	Antimony		-0.00302	0.010	0.0050	0.0088	☑
7782-49-2	Selenium		-0.00117	0.0050	0.0070	0.0030	☑
7440-21-3	Silicon		0.00847	0.10	0.0050	0.00030	☐
7440-31-5	Tin		-0.00072	0.020	0.012	0.00078	☑
7440-28-0	Thallium		0.00450	0.010	0.0050	0.0066	☐
7440-66-6	Zinc		-0.00046	0.0050	0.0070	0.00060	☑
7429-90-5	Aluminum		0.00567	0.10	0.035	0.014	☑
7440-41-7	Beryllium		-0.00019	0.0020	0.0010	0.00017	☑
7440-43-9	Cadmium		-0.00011	0.0020	0.0010	0.00012	☑
7440-48-4	Cobalt		0.00002	0.0050	0.0020	0.00079	☑
7439-89-6	Iron		0.00075	0.050	0.016	0.0010	☑
7439-89-6	Iron		-0.00268	0.050	0.016	0.0046	☑
7440-23-5	Sodium		-0.00375	0.50	0.25	0.020	☑
7440-23-5	Sodium		-1.8625	0.50	0.25	1.8	☐
7723-14-0	Phosphorus		-0.01743	0.30	0.013	0.0025	☑
7723-14-0	Phosphorus		-0.02656	0.30	0.013	0.012	☑
7704-34-9	Sulfur		-0.01221	0.10	0.074	0.079	☑
7704-34-9	Sulfur		0.33158	0.10	0.074	0.20	☐
7704-34-9	Sulfur		-0.00374	0.10	0.074	0.015	☑
7704-34-9	Sulfur		0.29398	0.10	0.074	0.0082	☐
7440-21-3	Silicon		0.00208	0.10	0.0050	0.0063	☑
7440-24-6	Strontium		0.02518	0.050	0.0050	0.034	☐
7440-24-6	Strontium		-0.00023	0.050	0.0050	0.00026	☑
7440-32-6	Titanium		0.00054	0.010	0.0030	0.00018	☑
7440-32-6	Titanium		0.00214	0.010	0.0030	0.0017	☑
7440-62-2	Vanadium		0.00016	0.0050	0.0020	0.0011	☑

Reviewed by: Date:

Method: 6010 PE ICP2 Reported: 11/16/10 16:26:50

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		99.496	☑
R7440655	Y_ Radial		99.941	☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6010 PE ICP2 Reported: 11/16/10 16:28:57

Department: 120 (Metals) Source: OPTIMA

Sample: **L84EXP5** Serial Dilution: **5.00** Sample Dilution: **1.00**

Instrument: **PE 4300** Channel 268
File: NOV1510EX.csv # 27 Method 6010O
Acquired: 11/15/2010 17:37:52 PE ICP2 Matrix: SOLID
Calibrated: 11/15/2010 15:33:19 Units: mg/L

CASN	Analyte Name	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-22-4	Silver		0.00255	0.00093	176	0.00090	NC	☑
7440-38-2	Arsenic		0.11801	-0.00567		0.013	NC	☑
7440-42-8	Boron		0.03604	0.04019	10.3		*	
7440-39-3	Barium		0.95400	0.89388	6.73	0.0012	6.7	☑
7440-70-2	Calcium		55.843	53.744	3.91	0.045	3.9	☑
7440-47-3	Chromium		3.6838	3.4923	5.48	0.0014	5.5	☑
7440-50-8	Copper		0.19331	0.18378	5.19	0.0022	5.2	☑
7440-09-7	Potassium		11.760	10.165	15.7	0.10	E	☐
7439-93-2	Lithium		0.02759	0.09480	70.9		*	
7439-95-4	Magnesium		815.41	785.82	3.76	0.045	3.8	☑
7439-96-5	Manganese		5.7823	5.5554	4.08	0.0025	4.1	☑
7439-98-7	Molybdenum		-0.00031	0.00450	107	0.0075	NC	☑
7440-02-0	Nickel		9.3698	8.7185	7.47	0.0024	7.5	☑
7439-92-1	Lead		0.17040	0.16222	5.04	0.0026	5.0	☑
7440-36-0	Antimony		0.05239	0.04062	29.0	0.0094	NC	☑
7782-49-2	Selenium		-0.02473	0.01754	241	0.014	NC	☑
7440-21-3	Silicon		1.5915	1.3882	14.6		*	
7440-31-5	Tin		-0.03903	0.00584	768		*	
7440-28-0	Thallium		-0.02899	-0.01418		0.0084	NC	☑
7440-66-6	Zinc		0.55919	0.50002	11.8	0.0019	E	☐
7429-90-5	Aluminum		94.613	91.636	3.25	0.056	3.2	☑
7440-41-7	Beryllium		0.00287	0.00292	1.54	0.00030	NC	☑
7440-43-9	Cadmium		-0.00175	-0.00121		0.00030	NC	☑
7440-48-4	Cobalt		0.44672	0.41242	8.32	0.0025	8.3	☑
7439-89-6	Iron		359.65	322.42	11.5	0.011	E	☐
7439-89-6	Iron		370.71	353.02	5.01	0.011	5.0	☑
7440-23-5	Sodium		22.184	21.677	2.34	0.11	2.3	☑
7440-23-5	Sodium		22.118	23.963	7.70	0.11	7.7	☑
7723-14-0	Phosphorus		1.6386	1.5846	3.41		*	
7723-14-0	Phosphorus		1.9167	2.0191	5.07		*	
7704-34-9	Sulfur		5.8551	3.8527	52.0		*	
7704-34-9	Sulfur		14.500	7.8113	85.6		*	
7704-34-9	Sulfur		9.2220	2.2899	303		*	
7704-34-9	Sulfur		17.197	-14.640			*	
7440-21-3	Silicon		1.7416	1.4781	17.8		*	
7440-24-6	Strontium		1.3047	0.39546	230		*	
7440-24-6	Strontium		0.28431	0.27708	2.61		*	
7440-32-6	Titanium		3.9312	3.8128	3.11		*	
7440-32-6	Titanium		3.8774	3.8787	0.0342		*	
7440-62-2	Vanadium		0.39577	0.38384	3.11	0.0019	3.1	☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6010 | PE ICP2 | Reported: 11/16/10 16:28:57

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		97.771	☑
R7440655	Y_ Radial		101.06	☑

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 50 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

TAL West Sac

SAMPLE SPIKE

Method: 6010 | PE ICP2 | Reported: 11/16/10 16:29:20

Department: 120 (Metals) | Source: OPTIMA

Sample: **L84EXZ** | Spike Dilution: **1.00** | Sample Dilution: **1.00**

Instrument: **PE 4300** | Channel 268
File: NOV1510EX.csv # 29 | Method 6010O
Acquired: 11/15/2010 17:45:33 | PE ICP2 | Matrix: SOLID
Calibrated: 11/15/2010 15:33:19 | Units: mg/L

CASN	Analyte Name	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-22-4	Silver		0.04864	0.00093	95.4	0.0500		☑
7440-38-2	Arsenic		1.8643	-0.00567	93.2	2.00		☑
7440-42-8	Boron		1.0163	0.04019	97.6	1.00		☑
7440-39-3	Barium		2.8223	0.89388	96.4	2.00		☑
7440-70-2	Calcium		103.11	53.744	98.7	50.0		☑
7440-47-3	Chromium		3.6429	3.4923	75.3	0.200	*	☑
7440-50-8	Copper		0.43320	0.18378	99.8	0.250		☑
7440-09-7	Potassium		58.716	10.165	97.1	50.0		☑
7439-93-2	Lithium		1.1098	0.09480	102	1.00		☑
7439-95-4	Magnesium		821.66	785.82	71.7	50.0	*	☐
7439-96-5	Manganese		5.9975	5.5554	88.4	0.500	*	☑
7439-98-7	Molybdenum		0.97192	0.00450	96.7	1.00		☑
7440-02-0	Nickel		9.0534	8.7185	67.0	0.500	*	☐
7439-92-1	Lead		0.63041	0.16222	93.6	0.500		☑
7440-36-0	Antimony		0.49517	0.04062	90.9	0.500		☑
7782-49-2	Selenium		1.8170	0.01754	90.0	2.00		☑
7440-21-3	Silicon		1.4098	1.3882	0.216	10.0		☐
7440-31-5	Tin		1.8702	0.00584	93.2	2.00		☑
7440-28-0	Thallium		1.9218	-0.01418	96.1	2.00		☑
7440-66-6	Zinc		0.95285	0.50002	90.6	0.500		☑
7429-90-5	Aluminum		92.476	91.636	42.0	2.00	*	☐
7440-41-7	Beryllium		0.05140	0.00292	97.0	0.0500		☑
7440-43-9	Cadmium		0.04807	-0.00121	96.1	0.0500		☑
7440-48-4	Cobalt		0.90519	0.41242	98.6	0.500		☑
7439-89-6	Iron		321.25	322.42	0.00	1.00	*	☐
7439-89-6	Iron		350.60	353.02	0.00	1.00	*	☐
7440-23-5	Sodium		70.598	21.677	97.8	50.0		☑
7440-23-5	Sodium		74.782	23.963	102	50.0		☑
7723-14-0	Phosphorus		11.451	1.5846	98.7	10.0		☑
7723-14-0	Phosphorus		12.182	2.0191	102	10.0		☑
7704-34-9	Sulfur		14.989	3.8527	111	10.0		☑
7704-34-9	Sulfur		18.730	7.8113	109	10.0		☑
7704-34-9	Sulfur		12.211	2.2899	99.2	10.0		☑
7704-34-9	Sulfur		-5.5500	-14.640	0.00	10.0		☑
7440-21-3	Silicon		1.5808	1.4781	1.03	10.0		☐
7440-24-6	Strontium		1.4813	0.39546	109	1.00		☑
7440-24-6	Strontium		1.2641	0.27708	98.7	1.00		☑
7440-32-6	Titanium		4.7175	3.8128	90.5	1.00		☑
7440-32-6	Titanium		4.8435	3.8787	96.5	1.00		☑
7440-62-2	Vanadium		0.89780	0.38384	103	0.500		☑

Reviewed by: | Date:

IDB Reports | TestAmerica, Inc. | Version: 6.02.068

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Method: 6010 PE ICP2 Reported: 11/16/10 16:29:20

CASN	ISTD Name	Area	Amount	Q
A7440655	Y_ Axial		96.240	☑
R7440655	Y_ Radial		100.49	☑

Reviewed by: Date:

G0J290569, G0J260587, G0K020530
G0K080481, G0J280447, G0J300481, G0J290609, ~~G0J290609~~, 11/15/10

TAL West Sac G0K060474, G0K020557, G0K040449, G0K050467, G0J260451 RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL3 (H03) Reported: 11/15/10 10:17:09

Sequence: 10NOV10A Date: 11/10/10 18:59 Analyst: phomsophat ICV: _____ CAL/CCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
1	Std01Rep1				0.00	1.0	0.00	ppb		11/10/10 18:59		☐
2	Std02Rep1	= 0.200			0.00	1.0	0.00	ppb		11/10/10 19:01		☐
3	Std03Rep1	= 0.500			0.00	1.0	0.00	ppb		11/10/10 19:03		☐
4	Std04Rep1	= 1.00			0.00	1.0	0.00	ppb		11/10/10 19:04		☐
5	Std05Rep1	= 5.00			0.00	1.0	0.00	ppb		11/10/10 19:06		☐
6	Std06Rep1	= 10.0			0.00	1.0	0.00	ppb		11/10/10 19:08		☐
7	ICV	= 2.00			2.14	1.0	2.14	ppb	107.0%	11/10/10 19:10		☐
8	ICB				-0.02	1.0	-0.02	ppb		11/10/10 19:12		☐
9	L9T0TB	G0K100000	0314330		-0.01	1.0	-1.25	ppb		11/10/10 19:13		☐
10	L9T0TC	G0K100000 = 83.3	0314330		1.01	1.0	84.17	ppb	101.0%	11/10/10 19:17		☐
11	L9T0TL	G0K100000 = 83.3	0314330		1.04	1.0	86.67	ppb	104.0%	11/10/10 19:19		☐
12	L9NM1B	G0K070000	0311036		0.00	1.0	0.25	ppb		11/10/10 19:21		☐
13	L9NM1C	G0K070000 = 83.3	0311036		1.04	1.0	86.67	ppb	104.0%	11/10/10 19:23		☐
14	L9VGDB	G0K100000	0314382		0.03	1.0	2.17	ppb		11/10/10 19:25		☐
15	L9VGDC	G0K100000 = 83.3	0314382		1.06	1.0	88.33	ppb	106.0%	11/10/10 19:27		☐
16	L9P7WB	G0K090000	0313105		0.01	1.0	1.00	ppb		11/10/10 19:28		☐
17	L9P7WC	G0K090000 = 83.3	0313105		1.05	1.0	87.50	ppb	105.0%	11/10/10 19:30		☐
18	L9RPDB	G0K100000	0314146		0.00	1.0	0.33	ppb		11/10/10 19:32		☐
19	CCV-1	= 5.00			5.15	1.0	5.15	ppb	103.0%	11/10/10 19:33		☐
20	CCB-1				-0.00	1.0	-0.00	ppb		11/10/10 19:36		☐
21	L9NJV	G0K060474-3	0314330	SOLID	0.57	1.0	45.89	ppb		11/10/10 19:38		☐
22	L9P12	G0K080481-1	0314146	SOLID	0.05	1.0	4.20	ppb		11/10/10 19:39		☐
23	CCV-1	= 5.00			5.08	1.0	5.08	ppb	101.6%	11/10/10 19:41		☐
24	CCB-1				-0.04	1.0	-0.04	ppb		11/10/10 19:43		☐
25	L9RPDC	G0K100000 = 83.3	0314146		1.03	1.0	85.83	ppb	103.0%	11/10/10 19:45		☐
26	L9P70B	G0K090000	0313106		-0.02	1.0	-1.50	ppb		11/10/10 19:46		☐
27	L9P70C	G0K090000 = 83.3	0313106		1.00	1.0	83.33	ppb	100.0%	11/10/10 19:49		☐
28	L84EX	G0J260451-1	0311036	SOLID	2.86	1.0	238.33	ppb		11/10/10 19:50		☐
29	L84E9	G0J260451-2	0311036	SOLID	3.81	1.0	328.45	ppb		11/10/10 19:52		☐
30	L84FA	G0J260451-3	0311036	SOLID	3.99	1.0	350.00	ppb		11/10/10 19:54	Page 1 of 3	☐
31	L84FD	G0J260451-4	0311036	SOLID	2.94	1.0	257.89	ppb		11/10/10 19:56		☐
32	L84FDP5	G0J260451	0311036	SOLID	0.57	5.0	50.35	ppb		11/10/10 19:57		☐
33	L84FDS	G0J260451-4 = 86.2	0311036	SOLID	5.26	1.0	453.45	ppb		11/10/10 19:59		☐
34	L84FDD	G0J260451-4 = 78.1	0311036	SOLID	6.31	1.0	492.97	ppb		11/10/10 20:01		☐

TAL West Sac

RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL3 (H03) Reported: 11/15/10 10:17:09

Sequence: 10NOV10A Date: 11/10/10 18:59 Analyst: phomsophat ICV: _____ CAL/CCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
35	CCV	= 5.00			4.85	1.0	4.85	ppb	97.0%	11/10/10 20:04		☐
36	CCB				-0.12	1.0	-0.12	ppb		11/10/10 20:05		☐
37	L84FF	G0J260451-5	0311036	SOLID	2.80	1.0	245.61	ppb		11/10/10 20:07		☐
38	L84FL	G0J260451-7	0311036	SOLID	1.74	1.0	140.32	ppb		11/10/10 20:09		☐
39	L84FN	G0J260451-8	0311036	SOLID	3.54	1.0	276.56	ppb		11/10/10 20:11		☐
40	L84FQ	G0J260451-9	0311036	SOLID	3.98	1.0	326.23	ppb		11/10/10 20:12		☐
41	L84FR	G0J260451-10	0311036	SOLID	3.16	1.0	250.79	ppb		11/10/10 20:14		☐
42	L84FT	G0J260451-11	0311036	SOLID	2.55	1.0	219.83	ppb		11/10/10 20:16		☐
43	L84FV	G0J260451-12	0311036	SOLID	5.45	1.0	425.78	ppb		11/10/10 20:18		☐
44	L84FW	G0J260451-13	0311036	SOLID	5.77	1.0	457.94	ppb		11/10/10 20:20		☐
45	L88A0	G0J280447-22	0314382	SOLID	1.63	1.0	135.83	ppb		11/10/10 20:22		☐
46	L88A0P5	G0J280447	0314382	SOLID	0.26	5.0	21.67	ppb		11/10/10 20:24		☐
47	CCV-1	= 5.00			4.97	1.0	4.97	ppb	99.4%	11/10/10 20:25		☐
48	CCB-1				-0.09	1.0	-0.09	ppb		11/10/10 20:27		☐
49	L88A0S	G0J280447-22 = 86.2	0314382	SOLID	4.23	1.0	364.66	ppb		11/10/10 20:29		☐
50	L88A0D	G0J280447-22 = 87.7	0314382	SOLID	4.76	1.0	417.54	ppb		11/10/10 20:30		☐
51	L85K1	G0J260587-24	0313105	SOLID	0.19	1.0	16.25	ppb		11/10/10 20:32		☐
52	L9CEM	G0J290569-1	0313105	SOLID	1.03	1.0	90.35	ppb		11/10/10 20:34		☐
53	L9CEMP5	G0J290569	0313105	SOLID	0.20	5.0	17.28	ppb		11/10/10 20:36		☐
54	L9CEMS	G0J290569-1 = 89.3	0313105	SOLID	3.30	1.0	294.64	ppb		11/10/10 20:38		☐
55	L9CEMD	G0J290569-1 = 87.7	0313105	SOLID	3.30	1.0	289.47	ppb		11/10/10 20:40		☐
56	L9CE5	G0J290569-2	0313105	SOLID	0.16	1.0	13.08	ppb		11/10/10 20:41		☐
57	L9CNW	G0J290609-2	0314146	SOLID	0.16	1.0	12.78	ppb		11/10/10 20:43		☐
58	L9CNWP5	G0J290609	0314146	SOLID	-0.01	5.0	-0.56	ppb		11/10/10 20:45		☐
59	CCV-1	= 5.00			4.93	1.0	4.93	ppb	98.6%	11/10/10 20:47		☐
60	CCB-1				-0.02	1.0	-0.02	ppb		11/10/10 20:49		☐
61	L9CNWS	G0J290609-2 = 80.6	0314146	SOLID	3.04	1.0	245.16	ppb		11/10/10 20:50		☐
62	L9CNWD	G0J290609-2 = 83.3	0314146	SOLID	2.97	1.0	247.50	ppb		11/10/10 20:52		☐
63	L9CNX	G0J290609-3	0314146	SOLID	0.16	1.0	13.50	ppb		11/10/10 20:54		☐
64	L9C76	G0J300481-1	0314146	SOLID	0.28	1.0	25.45	ppb		11/10/10 20:56		☐
65	L9FXD	G0K020530-4	0313106	SOLID	0.34	1.0	29.39	ppb		11/10/10 20:58		☐
66	L9FXE	G0K020530-5	0313106	SOLID	0.36	1.0	28.57	ppb		11/10/10 20:59		☐
67	L9FXF	G0K020530-6	0313106	SOLID	0.86	1.0	67.86	ppb		11/10/10 21:01		☐
68	L9FXG	G0K020530-7	0313106	SOLID	0.22	1.0	19.07	ppb		11/10/10 21:03		☐

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TAL West Sac

RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL3 (H03) Reported: 11/15/10 10:17:09

Sequence: 10NOV10A **Date:** 11/10/10 18:59 **Analyst:** phomsophat **ICV:** _____ **CAL/CCV:** _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
69	L9FXH	G0K020530-8	0313106	SOLID	0.25	1.0	21.29	ppb		11/10/10 21:05		☐
70	L9FXJ	G0K020530-9	0313106	SOLID	0.09	1.0	7.54	ppb		11/10/10 21:07		☐
71	CCV-1	= 5.00			5.08	1.0	5.08	ppb	101.6%	11/10/10 21:09		☐
72	CCB-1				0.04	1.0	0.04	ppb		11/10/10 21:10		☐
73	L9FXL	G0K020530-10	0313106	SOLID	0.26	1.0	22.86	ppb		11/10/10 21:12		☐
74	L9FXM	G0K020530-11	0313106	SOLID	0.20	1.0	16.13	ppb		11/10/10 21:14		☐
75	L9FXN	G0K020530-12	0313106	SOLID	0.10	1.0	8.00	ppb		11/10/10 21:16		☐
76	L9FXNP5	G0K020530	0313106	SOLID	-0.02	5.0	-1.83	ppb		11/10/10 21:17		☐
77	L9FXNS	G0K020530-12 = 80.6	0313106	SOLID	2.96	1.0	238.71	ppb		11/10/10 21:21		☐
78	L9FXND	G0K020530-12 = 79.3	0313106	SOLID	2.83	1.0	224.60	ppb		11/10/10 21:23		☐
79	L9FXQ	G0K020530-13	0313106	SOLID	1.91	1.0	149.22	ppb		11/10/10 21:25		☐
80	L9FXW	G0K020530-14	0313106	SOLID	0.07	1.0	6.32	ppb		11/10/10 21:27		☐
81	L9F5R	G0K020557-1	0314330	SOLID	0.33	1.0	27.50	ppb		11/10/10 21:29		☐
82	L9F5V	G0K020557-3	0314330	SOLID	0.26	1.0	23.13	ppb		11/10/10 21:30		☐
83	CCV-1	= 5.00			5.02	1.0	5.02	ppb	100.4%	11/10/10 21:32		☐
84	CCB-1				0.01	1.0	0.01	ppb		11/10/10 21:34		☐
85	L9F5X	G0K020557-5	0314330	SOLID	0.36	1.0	29.27	ppb		11/10/10 21:36		☐
86	L9F51	G0K020557-7	0314330	SOLID	0.35	1.0	28.31	ppb		11/10/10 21:38		☐
87	L9F53	G0K020557-9	0314330	SOLID	0.29	1.0	22.86	ppb		11/10/10 21:41		☐
88	L9JPM	G0K040449-1	0314330	SOLID	0.30	1.0	25.17	ppb		11/10/10 21:42		☐
89	L9JP0	G0K040449-3	0314330	SOLID	0.27	1.0	22.02	ppb		11/10/10 21:44		☐
90	L9L5F	G0K050467-1	0314330	SOLID	0.29	1.0	25.80	ppb		11/10/10 21:46		☐
91	L9L5K	G0K050467-3	0314330	SOLID	0.33	1.0	26.69	ppb		11/10/10 21:48		☐
92	L9L5M	G0K050467-5	0314330	SOLID	0.34	1.0	26.31	ppb		11/10/10 21:50		☐
93	L9L5V	G0K050467-7	0314330	SOLID	0.30	1.0	23.52	ppb		11/10/10 21:52		☐
94	L9NJR	G0K060474-1	0314330	SOLID	0.42	1.0	35.51	ppb		11/10/10 21:54		☐
95	CCV-1	= 5.00			5.03	1.0	5.03	ppb	100.6%	11/10/10 21:55		☐
96	CCB-1				-0.04	1.0	-0.04	ppb		11/10/10 21:57		☐

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TAL West Sac

CALIBRATION CHECK SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL3 (H03) Reported: 11/15/10 10:17:18

Sequence: 10NOV10A **Date:** 11/10/10 19:10 **Analyst:** phomsophat **ICV:** _____ **CAL/CCV:** _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
7	ICV	= 2.00			2.14	1.0	2.14	ppb	107.0%	11/10/10 19:10		☐
8	ICB				-0.02	1.0	-0.02	ppb		11/10/10 19:12		☐
19	CCV -1	= 5.00			5.15	1.0	5.15	ppb	103.0%	11/10/10 19:33		☐
20	CCB -1				-0.00	1.0	-0.00	ppb		11/10/10 19:36		☐
23	CCV -1	= 5.00			5.08	1.0	5.08	ppb	101.6%	11/10/10 19:41		☐
24	CCB -1				-0.04	1.0	-0.04	ppb		11/10/10 19:43		☐
35	CCV -1	= 5.00			4.85	1.0	4.85	ppb	97.0%	11/10/10 20:04		☐
36	CCB -1				-0.12	1.0	-0.12	ppb		11/10/10 20:05		☐
47	CCV -1	= 5.00			4.97	1.0	4.97	ppb	99.4%	11/10/10 20:25		☐
48	CCB -1				-0.09	1.0	-0.09	ppb		11/10/10 20:27		☐
59	CCV -1	= 5.00			4.93	1.0	4.93	ppb	98.6%	11/10/10 20:47		☐
60	CCB -1				-0.02	1.0	-0.02	ppb		11/10/10 20:49		☐
71	CCV -1	= 5.00			5.08	1.0	5.08	ppb	101.6%	11/10/10 21:09		☐
72	CCB -1				0.04	1.0	0.04	ppb		11/10/10 21:10		☐
83	CCV -1	= 5.00			5.02	1.0	5.02	ppb	100.4%	11/10/10 21:32		☐
84	CCB -1				0.01	1.0	0.01	ppb		11/10/10 21:34		☐
95	CCV -1	= 5.00			5.03	1.0	5.03	ppb	100.6%	11/10/10 21:55		☐
96	CCB -1				-0.04	1.0	-0.04	ppb		11/10/10 21:57		☐

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TAL West Sac

SERIAL DILUTION

Method: CVHG (Mercury by Cold Vapor AA) STL3 Reported: 11/15/10 10:17:37

Department: 120 (Metals) Source: MetEdit

Sample: **L84FDP5** Serial Dilution: **5.00** Sample Dilution: **1.00**

Instrument: **Leeman HYDRA AA** Channel 270
File: 10NOV10A # 32 Method CVHG_
Acquired: 11/10/2010 19:57:42 STL3 Matrix: SOLID
Calibrated: 11/10/2010 18:59:54 Units: ppb

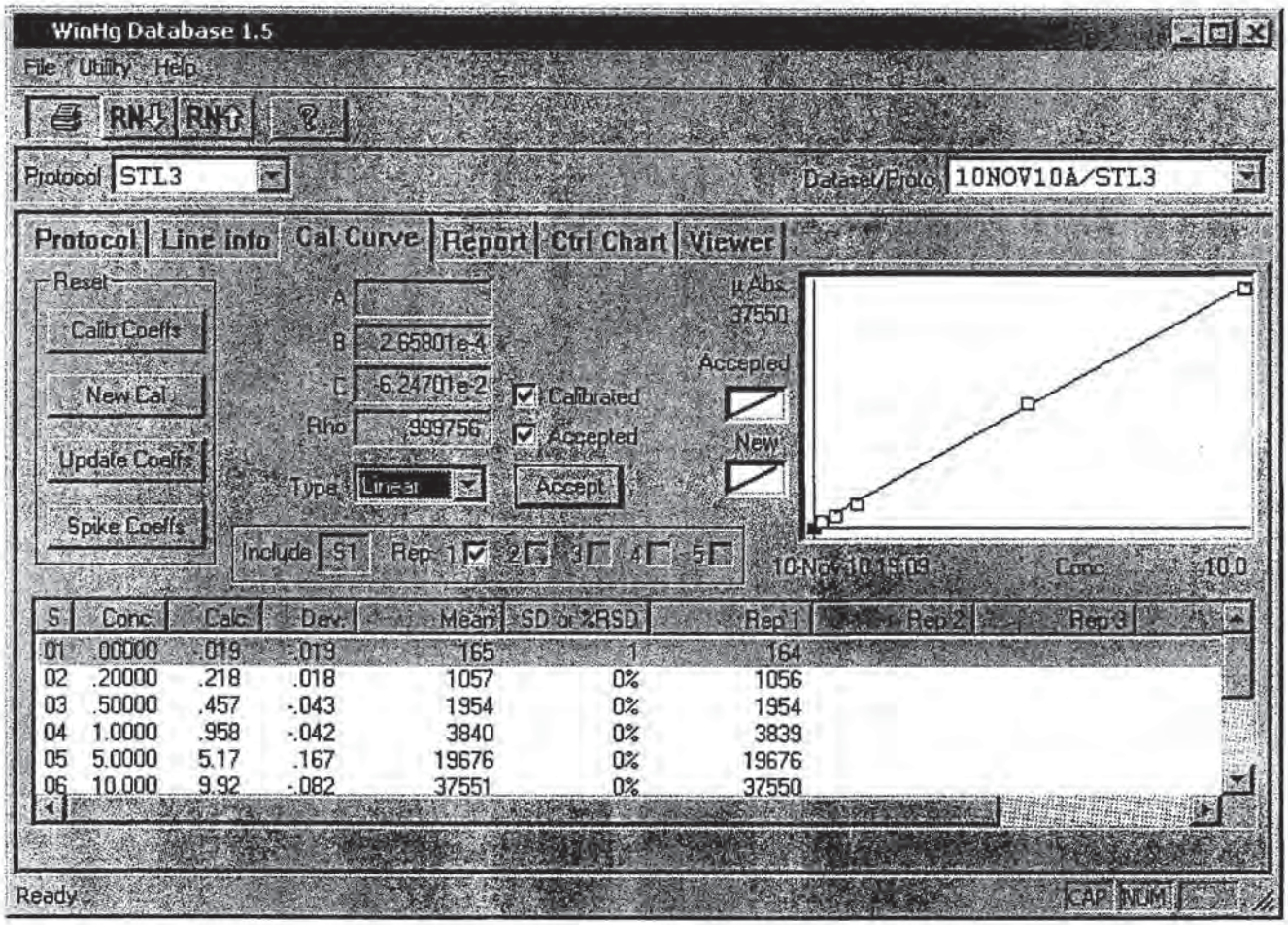
CASN	Analyte Name	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7439-97-6	***Mercury***	***2394***	***2.8700***	***2.9400***	***2.38***	***0.10***	***2.4***	☑

**** Analyte not requested for this batch, no MDL***

NC : Serial dilution concentration < 25 X MDL

E : Difference greater than Limit (20%)

Reviewed by: Date:



CHEMIST INITIAL: TP
DATE OF RUN: 11/10/10
INSTRUMENT ID.: TP
TYPE OF ANALYSIS: Hg
CALIBRATION STD.: 3638-15-18
ICV STD.: 3638-15-17
CCV STD.: 3638-15-18

Protocol: STL3

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 18:59:54 10 Nov 10 HG

Hg .000 ppb 164

*** Standard: 2 Rep: 1 Seq: 2 19:01:34 10 Nov 10 HG

Hg .200 ppb 1056

*** Standard: 3 Rep: 1 Seq: 3 19:03:13 10 Nov 10 HG

Hg .500 ppb 1954

*** Standard: 4 Rep: 1 Seq: 4 19:04:52 10 Nov 10 HG

Hg 1.00 ppb 3839

*** Standard: 5 Rep: 1 Seq: 5 19:06:31 10 Nov 10 HG

Hg 5.00 ppb 19676

*** Standard: 6 Rep: 1 Seq: 6 19:08:10 10 Nov 10 HG

Hg 10.0 ppb 37550

Sample Preparation Log

TestAmerica West Sacramento
METALS SAMPLE PREPARATION LOG

`	November 2, 2010		**Analyst**	NM		**Matrix:**	**SOLID**		
Balance ID:	QA-007								
PrepCode:		46		WS-IP-0002		**Method:**	ICPTRACE		
			pH	Initial Vol g	Final Vol (mL)	Batch		MS run	Comments
G0K020000	195	L9E01B	NA	1	100	0306195			
G0K020000	195	L9E01C	NA	1	100	0306195			
G0J260451	1	L84EX	NA	0.97	100	0306195		0306115	
G0J260451	2	L84E9	NA	1	100	0306195		0306115	
G0J260451	3	L84FA	NA	1.05	100	0306195		0306115	
G0J260451	4	L84FD	NA	0.97	100	0306195		0306115	
G0J260451	4	L84FDS	NA	0.99	100	0306195		0306115	
G0J260451	4	L84FDD	NA	0.97	100	0306195		0306115	
G0J260451	5	L84FF	NA	1.03	100	0306195		0306115	
G0J260451	7	L84FL	NA	0.97	100	0306195		0306115	
G0J260451	8	L84FN	NA	1	100	0306195		0306115	
G0J260451	9	L84FQ	NA	0.99	100	0306195		0306115	
G0J260451	10	L84FR	NA	0.99	100	0306195		0306115	
G0J260451	11	L84FT	NA	1	100	0306195		0306115	
G0J260451	12	L84FV	NA	1.05	100	0306195		0306115	
G0J260451	13	L84FW	NA	0.95	100	0306195		0306115	

CHEMIST: NM

***INITIAL/FINAL: Initial weight or volume and final volume, g/ml.**

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QA-401 Rev. SH 1/29/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Metals Spiking Documentation Form

Lot #(s): G0J260451 (1-5, 7-13)

Batch Number: 0306195

EPA Analytical Method ID: 6010

Spiked Date: 11/02/10

MS Sample(s): G0J260451 (4)

EPA Prep Method ID: 3050B

Hot Plate Microwave ID: B

Analyst Initial/Date: 11/02/10 NN

Witness Initial/Date: PF-11/2/10

Hot Plate Temp: Initial: 94°C Final: 94°C

Correct Folder ID Witness: NA

Digestion Cup Lot #: 100811

Thermometer ID: BT-0017

Filter Paper Lot #: J1159D

Fin Vol Cup Lot: 100301

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, Tl 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	3189-6-15	1.0mL	1.0mL	07/30/11
✓	ICP Part 2 2% HNO_3	K,Na P,S B,Li,Sr	5,000 1,000 100	3189-6-16	1.0mL	1.0mL	07/30/11
	Si H20/Tr HF	Si	1,000				
	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,Tl	500 100 25				
	TACA-2 5% HNO_3	Mo, Sb, Sn, Ti	100				
	Misc. Elements				11/02/10 NN		

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO_3	Mallinckrodt	J12035	✓	30% H_2O_2	Mallinckrodt	J10A10
✓	37% HCl	Mallinckrodt	H42A18		49% HF	Fisher	
	3M HNO_3	In-House			1:1 HCl	In-House	11/02/10 NN

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.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento Metals Weights Log

11/2/2010

Prep code 46

SOP: WS-IP-0002

NM

Matrix: Solid / Other ___

BATCH: 0306195

Balance ID QA-007

Lot Number	Sample	Initial Wt/Volg	Comments
G0J260451	1	0.97	
G0J260451	2	1.00	
G0J260451	3	1.05	
G0J260451	4	0.97	
G0J260451	4MS	0.99	
G0J260451	4MSD	0.97	
G0J260451	5	1.03	
G0J260451	7	0.97	
G0J260451	8	1.00	
G0J260451	9	0.99	
G0J260451	10	0.99	
G0J260451	11	1.00	
G0J260451	12	1.05	
G0J260451	13	0.95	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0306195 **Test:** 6010

Prep Date: 11/02/10 **Holding Times:** 04/25/11 **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	✓
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: PV Date: 11/2/10

2nd Level Reviewer: SH Date: 11/3/10

Comments:

q:\forms\checklists\qa-588 prep_review.doc QA-588 Revised 12/30/2008 ERS

G0J260451

TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv

Analyst: jonesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_				1.0	11/09/10 15:50		☐
2	Calib_Std_1				1.0	11/09/10 15:54		☐
3	Calib_Std_2				1.0	11/09/10 15:56		☐
4	Calib_Std_3				1.0	11/09/10 15:59		☐
5	Calib_Std_4				1.0	11/09/10 16:03		☐
6	LR Std				1.0	11/09/10 16:06		☐
7	ICV4				1.0	11/09/10 16:11		☐
8	ICV2A				1.0	11/09/10 16:15		☐
9	ICB				1.0	11/09/10 16:21		☐
10	LL1				1.0	11/09/10 16:25	– OUT As ↓	☐
11	LL2				1.0	11/09/10 16:29	– OUT As ↓ (<80%)	☐
12	ICSA				1.0	11/09/10 16:33		☐
13	ICSAB_4.0				1.0	11/09/10 16:39		☐
14	Al 1000ppm				1.0	11/09/10 16:44		☐
15	Ca 1000ppm				1.0	11/09/10 16:51		☐
16	Fe 1000ppm				1.0	11/09/10 16:56		☐
17	Mg 1000ppm				1.0	11/09/10 17:02		☐
18	Na 500ppm				1.0	11/09/10 17:08		☐
19	CCV				1.0	11/09/10 17:12		☐
20	CCV_P_S				1.0	11/09/10 17:15		☐
21	CCB				1.0	11/09/10 17:19		☐
22	MB-LOD-LOC				1.0	11/09/10 17:23		☐
23	LCS-LOD-LO				1.0	11/09/10 17:26		☐
24	LOD-AQ-Q4				1.0	11/09/10 17:32	RERUN As	☐
25	LOD-Pb-AQ-(				1.0	11/09/10 17:36		☐
26	LOQ-AQ-Q4				1.0	11/09/10 17:40	RERUN As	☐
27	MB-LOD-LOC				1.0	11/09/10 17:46		☐
28	LCS-LOD-LO				1.0	11/09/10 17:50	– NOT SPIKED	☐
29	LOD-S-Q4				1.0	11/09/10 17:56	REPREP	☐
30	LOD-Pb-S-Q4				1.0	11/09/10 18:00		☐
31	LOD-Sn-S-Q4				1.0	11/09/10 18:03		☐
32	CCV				1.0	11/09/10 18:09		☐
33	CCV_P_S				1.0	11/09/10 18:13		☐
34	CCB				1.0	11/09/10 18:17		☐
35	LOQ-S-Q4				1.0	11/09/10 18:21		☐
36	3861-40				1.0	11/09/10 18:25	– RERUN As > REPREP	☐
37	L89T0	G0J280601-1	0307304	46	1.0	11/09/10 18:31		☐
38	L89T0 2X	G0J280601-1	0307304	46	2.0	11/09/10 18:34	DO NOT REPORT	☐
39	L9CNX	G0J290609-3	0307304	46	1.0	11/09/10 18:38	RERUN	☐
40	L9CNX 2X	G0J290609-3	0307304	46	2.0	11/09/10 18:42		☐
41	L89V4	G0J280605-3	0306191	46	1.0	11/09/10 18:46	– REPORT Pb ONLY > DO NOT REPORT	☐
42	L9E0WL	G0K020000	0306191	46	1.0	11/09/10 18:50	– REC% ↑ – REPREP	☐
43	L9E6QB	G0K020000	0306236	46	1.0	11/09/10 18:57		☐
44	L9E6QC	G0K020000	0306236	46	1.0	11/09/10 19:01	> RERUN As	☐
45	CCV				1.0	11/09/10 19:07		☐
46	CCV_P_S				1.0	11/09/10 19:11		☐

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TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv

Analyst: jonesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	CCB				1.0	11/09/10 19:15		☐
48	L8VDN	G0J210467-4	0306236	46	1.0	11/09/10 19:18		☐
49	L8VDNP5	G0J210467	0306236		5.0	11/09/10 19:22		☐
50	L8VDNZ	G0J210467-4	0306236		1.0	11/09/10 19:26		☐
51	L8VDNS	G0J210467-4	0306236	46	1.0	11/09/10 19:30		☐
52	L8VDND	G0J210467-4	0306236	46	1.0	11/09/10 19:33	RERUN As, Tl	☐
53	L8VC3	G0J210467-1	0306236	46	1.0	11/09/10 19:39		☐
54	L8VDF	G0J210467-2	0306236	46	1.0	11/09/10 19:43	Sb RSD↑ +	☐
55	L8VDK	G0J210467-3	0306236	46	1.0	11/09/10 19:46		☐
56	L8VD2	G0J210467-5	0306236	46	1.0	11/09/10 19:50		☐
57	L8VD5	G0J210467-6	0306236	46	1.0	11/09/10 19:53	Tl RSD↑ +	☐
58	CCV				1.0	11/09/10 19:59	Tl RSD↑ (>5%)	☐
59	CCB				1.0	11/09/10 20:03		☐
60	L9E01B	G0K020000	0306195	46	1.0	11/09/10 20:06		☐
61	L9E01C	G0K020000	0306195	46	1.0	11/09/10 20:10		☐
62	L84FD	G0J260451-4	0306195	46	1.0	11/09/10 20:16		☐
63	L84FDP5	G0J260451	0306195		5.0	11/09/10 20:19		☐
64	L84FDZ	G0J260451-4	0306195		1.0	11/09/10 20:23	RERUN As, Se, Tl, K	☐
65	L84FDS	G0J260451-4	0306195	46	1.0	11/09/10 20:27		☐
66	L84FDD	G0J260451-4	0306195	46	1.0	11/09/10 20:30		☐
67	L84EX	G0J260451-1	0306195	46	1.0	11/09/10 20:36		☐
68	L84E9	G0J260451-2	0306195	46	1.0	11/09/10 20:40		☐
69	L84FA	G0J260451-3	0306195	46	1.0	11/09/10 20:43		☐
70	CCV				1.0	11/09/10 20:49	out K↓; As, Se RSD↑	☐
71	CCB				1.0	11/09/10 20:52		☐
72	L84FF	G0J260451-5	0306195	46	1.0	11/09/10 20:56		☐
73	L84FL	G0J260451-7	0306195	46	1.0	11/09/10 21:00		☐
74	L84FN	G0J260451-8	0306195	46	1.0	11/09/10 21:03	RERUN As, Se, K	☐
75	L84FQ	G0J260451-9	0306195	46	1.0	11/09/10 21:06	Sb RSD↑ +	☐
76	L84FR	G0J260451-10	0306195	46	1.0	11/09/10 21:10	As RSD↑	☐
77	L84FT	G0J260451-11	0306195	46	1.0	11/09/10 21:13		☐
78	L84FV	G0J260451-12	0306195	46	1.0	11/09/10 21:17		☐
79	L84FW	G0J260451-13	0306195	46	1.0	11/09/10 21:20	Se RSD↑	☐
80	L9LDAB	G0K050000	0309194	05	1.0	11/09/10 21:26	RERUN As, Se	☐
81	L9LDAC	G0K050000	0309194	05	1.0	11/09/10 21:29		☐
82	CCV				1.0	11/09/10 21:35		☐
83	CCB				1.0	11/09/10 21:39		☐
84	L9CE6	G0J290569-3	0309194	05	1.0	11/09/10 21:43	Tl RSD↑	☐
85	L9CE6P5	G0J290569	0309194		5.0	11/09/10 21:47		☐
86	L9CE6Z	G0J290569-3	0309194		1.0	11/09/10 21:50	RERUN Be, Tl, As	☐
87	L9CE6S	G0J290569-3	0309194	05	1.0	11/09/10 21:54		☐
88	L9CE6D	G0J290569-3	0309194	05	1.0	11/09/10 21:57		☐
89	L89PJ	G0J280596-1	0309194	05	1.0	11/09/10 22:03	REPORT Ag	☐
90	L81JK	G0J220600-1	0302164	46	5.0	11/09/10 22:08		☐
91	L81JKP25	G0J220600	0302164		25.0	11/09/10 22:12	RERUN Be, As	☐
92	L81JKZ	G0J220600-1	0302164		5.0	11/09/10 22:16		☐

View Page 2 of 6

TAL West Sac

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 11/10/10 11:48:29

File ID: NOV0910AX2.csv

Analyst: jonesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
93	L81JKS	G0J220600-1	0302164	46	5.0	11/09/10 22:20	RERUN Be, As	☐
94	CCV				1.0	11/09/10 22:27	OUT Al, B, Be, Ca, Mg, Sr, Ti; RAD RSD	☐
95	CCB				1.0	11/09/10 22:31		☐
96	L81JKD	G0J220600-1	0302164	46	5.0	11/09/10 22:35		☐
97	L84N1	G0J260491-1	0302164	46	5.0	11/09/10 22:41	As RSD	☐
98	L84PW	G0J260491-3	0302164	46	5.0	11/09/10 22:45		☐
99	L8T8NB	G0J210000	0294185	46	1.0	11/09/10 22:53	RERUN Be, As	☐
100	L8T8NC	G0J210000	0294185	46	1.0	11/09/10 22:57		☐
101	L8T8NL	G0J210000	0294185	46	1.0	11/09/10 23:00		☐
102	L8L2H	G0J160466-1	0294185	46	5.0	11/09/10 23:06		☐
103	L8L2HP25	G0J160466	0294185		25.0	11/09/10 23:10		☐
104	L8L2HZ	G0J160466-1	0294185		5.0	11/09/10 23:15		☐
105	L8L2K	G0J160466-3	0294185	46	5.0	11/09/10 23:21		☐
106	CCV				1.0	11/09/10 23:29	OUT B	☐
107	CCB				1.0	11/09/10 23:32		☐
108	L8Q44B	G0J200000	0293209	46	1.0	11/09/10 23:36		☐
109	L8Q44C	G0J200000	0293209	46	1.0	11/09/10 23:40		☐
110	L8JTH 5X	G0J150483-3	0293209	46	5.0	11/09/10 23:45		☐
111	L8JTHP25	G0J150483	0293209		25.0	11/09/10 23:50	RERUN As	☐
112	L8JTHZ 5X	G0J150483-3	0293209		5.0	11/09/10 23:54		☐
113	L8JTHS 5X	G0J150483-3	0293209	46	5.0	11/09/10 23:59		☐
114	L8JTHD 5X	G0J150483-3	0293209	46	5.0	11/10/10 00:03	REC % ↑	☐
115	L8JRW 5X	G0J150483-1	0293209	46	5.0	11/10/10 00:10		☐
116	L8JVC 5X	G0J150483-5	0293209	46	5.0	11/10/10 00:14		☐
117	L8JV4 5X	G0J150483-7	0293209	46	5.0	11/10/10 00:19		☐
118	CCV				1.0	11/10/10 00:28		☐
119	CCB				1.0	11/10/10 00:32		☐

TestAmerica West Sacramento

Mercury Sample Preparation Log

ANALYST: TP							SOP NO: WS-MT-0007
Date: 11/10/10							
			Method:7471				Autoclave Start Time:16:00
Balance ID:007							Autoclave End Time:17:00
Lot Number	WO #	pH	Matrix	Initial Wt(g)	Final Vol (mL)	Batch #	Comments:
G0K100000-330	L9T0TB	N/A	SOLID	0.60	50.00	314330	
G0K100000-330	L9T0TC	N/A	SOLID	0.60	50.00	314330	
G0K100000-330	L9T0TL	N/A	SOLID	0.60	50.00	314330	
G0K020557-1	L9F5R	N/A	SOLID	0.60	50.00	314330	
G0K020557-3	L9F5V	N/A	SOLID	0.56	50.00	314330	
G0K020557-5	L9F5X	N/A	SOLID	0.62	50.00	314330	
G0K020557-7	L9F51	N/A	SOLID	0.62	50.00	314330	
G0K020557-9	L9F53	N/A	SOLID	0.63	50.00	314330	
G0K040449-1	L9JPM	N/A	SOLID	0.59	50.00	314330	
G0K040449-3	L9JP0	N/A	SOLID	0.62	50.00	314330	
G0K050467-1	L9L5F	N/A	SOLID	0.56	50.00	314330	
G0K050467-3	L9L5K	N/A	SOLID	0.62	50.00	314330	
G0K050467-5	L9L5M	N/A	SOLID	0.65	50.00	314330	
G0K050467-7	L9L5V	N/A	SOLID	0.64	50.00	314330	
G0K060474-1	L9NJR	N/A	SOLID	0.59	50.00	314330	
G0K060474-3	L9NJV	N/A	SOLID	0.62	50.00	314330	
G0K070000-36	L9NM1B	N/A	SOLID	0.60	50.00	311036	
G0K070000-36	L9NM1C	N/A	SOLID	0.60	50.00	311036	
G0J260451-1	L84EX	N/A	SOLID	0.60	50.00	311036	
G0J260451-2	L84E9	N/A	SOLID	0.58	50.00	311036	
G0J260451-3	L84FA	N/A	SOLID	0.57	50.00	311036	
G0J260451-4	L84FDS	N/A	SOLID	0.58	50.00	311036	
G0J260451-4	L84FD	N/A	SOLID	0.57	50.00	311036	
G0J260451-4	L84FDD	N/A	SOLID	0.64	50.00	311036	
G0J260451-5	L84FF	N/A	SOLID	0.57	50.00	311036	
G0J260451-7	L84FL	N/A	SOLID	0.62	50.00	311036	
G0J260451-8	L84FN	N/A	SOLID	0.64	50.00	311036	
G0J260451-9	L84FQ	N/A	SOLID	0.61	50.00	311036	
G0J260451-10	L84FR	N/A	SOLID	0.63	50.00	311036	
G0J260451-11	L84FT	N/A	SOLID	0.58	50.00	311036	
G0J260451-12	L84FV	N/A	SOLID	0.64	50.00	311036	
G0J260451-13	L84FW	N/A	SOLID	0.63	50.00	311036	
G0K100000-382	L9VGDB	N/A	SOLID	0.60	50.00	314382	
G0K100000-382	L9VGDC	N/A	SOLID	0.60	50.00	314382	
G0J280447-22	L88A0S	N/A	SOLID	0.58	50.00	314382	
G0J280447-22	L88A0	N/A	SOLID	0.60	50.00	314382	
G0J280447-22	L88A0D	N/A	SOLID	0.57	50.00	314382	
G0K090000-105	L9P7WB	N/A	SOLID	0.60	50.00	313105	
G0K090000-105	L9P7WC	N/A	SOLID	0.60	50.00	313105	
G0J260587-24	L85K1	N/A	SOLID	0.60	50.00	313105	

TestAmerica West Sacramento

Mercury Sample Preparation Log

G0J290569-1	L9CEMS	N/A	SOLID	0.56	50.00	313105	
G0J290569-1	L9CEM	N/A	SOLID	0.57	50.00	313105	
G0J290569-1	L9CEMD	N/A	SOLID	0.57	50.00	313105	
G0J290569-2	L9CE5	N/A	SOLID	0.60	50.00	313105	
G0K100000-146	L9RPDB	N/A	SOLID	0.60	50.00	314146	
G0K100000-146	L9RPDC	N/A	SOLID	0.60	50.00	314146	
G0J290609-2	L9CNWS	N/A	SOLID	0.62	50.00	314146	
G0J290609-2	L9CNWD	N/A	SOLID	0.60	50.00	314146	
G0J290609-2	L9CNW	N/A	SOLID	0.63	50.00	314146	
G0J290609-3	L9CNX	N/A	SOLID	0.60	50.00	314146	
G0J300481-1	L9C76	N/A	SOLID	0.56	50.00	314146	
G0K080481-1	L9P12	N/A	SOLID	0.56	50.00	314146	
G0K100000-306	L9P70B	N/A	SOLID	0.60	50.00	313106	
G0K100000-306	L9P20C	N/A	SOLID	0.60	50.00	313106	
G0K020530-4	L9FXD	N/A	SOLID	0.57	50.00	313106	
G0K020530-5	L9FXE	N/A	SOLID	0.63	50.00	313106	
G0K020530-6	L9FXF	N/A	SOLID	0.63	50.00	313106	
G0K020530-7	L9FXG	N/A	SOLID	0.59	50.00	313106	
G0K020530-8	L9FXH	N/A	SOLID	0.58	50.00	313106	
G0K020530-9	L9FXJ	N/A	SOLID	0.59	50.00	313106	
G0K020530-10	L9FXL	N/A	SOLID	0.56	50.00	313106	
G0K020530-11	L9FXM	N/A	SOLID	0.62	50.00	313106	
G0K020530-12	L9FXNS	N/A	SOLID	0.62	50.00	313106	
G0K020530-12	L9FXN	N/A	SOLID	0.60	50.00	313106	
G0K020530-12	L9FXND	N/A	SOLID	0.63	50.00	313106	
G0K020530-13	L9FXQ	N/A	SOLID	0.64	50.00	313106	
G0K020530-14	L9FXW	N/A	SOLID	0.57	50.00	313106	
ICB	N/A	N/A	SOLID	50.00	50.00		
0.0 ppb Curve	N/A	N/A	SOLID	50.00	50.00		
CCB1	N/A	N/A	SOLID	50.00	50.00		
CCB2	N/A	N/A	SOLID	50.00	50.00		
CCB3	N/A	N/A	SOLID	50.00	50.00		

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THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento Mercury Preparation Spiking Documentation Form

Lot #(s): G0K040449 (1,3) G0J290569 (1-2), G0K020550 (1,3,5,7,9) G0L050447 (1,3,5,7) G0J260587 (24) G0K020530 (4-14) G0J260451 (1-5,7-13) G0K040449 (1,3) Matrix: Solid

Batch Number(s): 0313105, 0311034 - 0313105 0314144 - ~~0313102~~ 0314330 MS Run #(s): G0K020530-12 S/SD, G0J290569-15/SD G0J260451-45/SD G0J260447-22 S/22SD SOP No: WS-M-007

Spiked by Initial/Date: PF 11/10/10 Witness Initial/Date: 11/10/10 NH Date: 11/10/10

Dig. Cup Lot # 0158551

ICV

Bottle Name	Concentration (ug/L)	Tracking Number	ICV Volume Spiked	Expiration Date
Mercury Standard	100 ug/L Mercury	3638-15-18	1.0 ml ☑ Witness	11/11/10

LCS/LCSD/MS/MSD

Bottle Name	Concentration (ug/L)	Tracking Number	LCS/LCSD Volume Spiked	MS/SD Volume Spiked	Expiration Date
Mercury Standard	100 ug/L Mercury	3638-15-17	0.5ml ☑ Witness	1.5ml ☑ Witness	11/11/10

ICAL & CCVs

Solution	Conc'n	Tracking Number	Expiration Date	Volume Spiked								
				ICAL 0.2	ICAL 0.5	ICAL 1.0	ICAL 5.0	ICAL 10	CCV1	CCV2	CCV3	CCV4
Mercury Standard	100 ug/L Mercury	3638-15-17	11/11/10	100ml	250ml	0.5ml	2.5ml	~~10.0ml~~ PF 11/10/10	~~10.0ml~~ 2.5ml	2.5ml	2.5ml	
				☑ Witness	☑ Witness	☑ Witness	☑ Witness	☑ Witness	☑ Witness	☑ Witness	☑ Witness	☐ Witness

Reagents

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	HNO_3	Mallinkrodt	J12035	✓	$K_2S_2O_8$	Mallinkrodt	4028-17-11
✓	H_2SO_4	Mallinkrodt	J09F01	✓	$NaCl(NH_2OH)_2$	Mallinkrodt J. T. Baker	4028-27-4
✓	$KMnO_4$	J. T. Baker	4028-28-1	✓	$SnCl_2$	Mallinkrodt	4028-28-3

Recipes/Recommended Spiking (100 ug/mL solution)

Element	Solid (50mL FV)	Aq/Leach (30mL FV)	Element	Solid (50mL FV)	Aq/Leach (30mL FV)
ICAL 0.2	100 uL	60 uL	CCV 5.0	2.5 mL	1.5 mL
ICAL 0.5	250 uL	150 uL	LCS 1.0	0.5 mL	300 uL
ICAL 1.0	0.5 mL	300 uL	MS/MSD 3.0	1.5 mL	300 uL
ICAL 5.0	2.5 mL	1.5 mL	ICV 2.0	1.0 mL	600 uL
ICAL 10	5.0 mL	3.0 mL			

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THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento Metals Weights Log

11/9/2010 Prep code 46

SOP: WS-IP-002

Chemist:FF Matrix: Solid / 6020

BATCH: 0311036

Balance ID QA-007

Lot Number	Sample	Initial Wt/Vol	Comments
G0J260451	1	0.60	
G0J260451	2	0.58	
G0J260451	3	0.57	
G0J260451	4	0.57	
G0J260451	4ms	0.58	
G0J260451	4msd	0.64	
G0J260451	5	0.57	
G0J260451	7	0.62	
G0J260451	8	0.64	
G0J260451	9	0.61	
G0J260451	10	0.63	
G0J260451	11	0.58	
G0J260451	12	0.64	
G0J260451	13	0.63	

C:\Documents and Settings\francisf\Desktop\QA-591 Metals Weights.xlsSoils QA-591(Solid) ERS 11/13/2008

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0313105 0313105, 0311036 **Test:** Hg

Prep Date: 11/10/10 **Holding Times:** 11/18/10 **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	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: N M Date: 11/10/10

2nd Level Reviewer: SA Date: 11/15/10

Comments:

q:\forms\checklists\qa-588 prep_review.doc QA-588 Revised 12/30/2008 ERS

SOLID, D 2216-90, Percent Moisture

% Moisture/Solid Worksheet

QCBATCH: 0307369

Analyzed by: FRANCISF Report created: 11/7/10 7:47:48 AM

Lot ID	WorkOrder	Pan Tare	Sample Wet Wt	Sample Dry Wt	Wt Diff (Water)	Percent Water	Percent Solid	Reporting Limit	Foot Note	Date Time
G0J260451-1	L84EX1AA	1.32	11.15	10.16	0.99	10.07	89.93	0.1		11/7/10 7:45:04 AM
G0J260451-1	L84EX1CC	1.32	9.82	8.88	0.94	11.06	88.94	0.1		11/7/10 7:45:12 AM
G0J260451-2	L84E91AM	1.32	11.92	10.90	1.02	9.62	90.38	0.1		11/7/10 7:45:20 AM
G0J260451-3	L84FA1AM	1.32	8.44	7.42	1.02	14.33	85.67	0.1		11/7/10 7:45:28 AM
G0J260451-4	L84FD1AM	1.32	11.59	10.78	0.81	7.89	92.11	0.1		11/7/10 7:45:35 AM
G0J260451-5	L84FF1AM	1.32	14.18	12.62	1.56	12.13	87.87	0.1		11/7/10 7:45:42 AM
G0J260451-7	L84FL1AM	1.32	13.26	12.02	1.24	10.39	89.61	0.1		11/7/10 7:45:49 AM
G0J260451-8	L84FN1AM	1.32	10.34	9.25	1.09	12.08	87.92	0.1		11/7/10 7:45:56 AM
G0J260451-9	L84FQ1AM	1.33	10.55	9.80	0.75	8.13	91.87	0.1		11/7/10 7:46:04 AM
G0J260451-10	L84FR1AM	1.33	11.80	10.61	1.19	11.37	88.63	0.1		11/7/10 7:46:12 AM
G0J260451-11	L84FT1AM	1.33	10.34	9.42	0.92	10.21	89.79	0.1		11/7/10 7:46:19 AM
G0J260451-12	L84FV1AM	1.33	9.99	9.15	0.84	9.70	90.30	0.1		11/7/10 7:46:26 AM
G0J260451-13	L84FW1AM	1.33	9.41	8.73	0.68	8.42	91.58	0.1		11/7/10 7:46:34 AM
G0J280451-2	L88CL1AK	1.33	11.09	10.50	0.59	6.05	93.95	0.1		11/7/10 7:46:41 AM
G0J280451-3	L88CN1AK	1.33	6.23	5.93	0.30	6.12	93.88	0.1		11/7/10 7:46:50 AM
G0J280451-4	L88CQ1AK	1.33	10.14	9.80	0.34	3.86	96.14	0.1		11/7/10 7:46:58 AM
G0J280451-5	L88CV1AK	1.33	11.82	11.25	0.57	5.43	94.57	0.1		11/7/10 7:47:05 AM
G0J280451-6	L88CX1AK	1.33	11.89	10.71	1.18	11.17	88.83	0.1		11/7/10 7:47:14 AM
G0J280451-7	L88C01AK	1.33	6.86	5.45	1.41	25.50	74.50	0.1		11/7/10 7:47:27 AM
G0J280451-8	L88C11AK	1.33	12.49	10.78	1.71	15.32	84.68	0.1		11/7/10 7:47:35 AM
G0J280451-9	L88C31AK	1.33	9.63	8.19	1.44	17.35	82.65	0.1		11/7/10 7:47:42 AM

All weights are in grams.
Sample weights (wet & dry) include the weight (tare) of the sample pan.
Wt. Diff. = sample wet weight (+ tare) - sample dry weight (+ tare).
% Water = (Wt. Diff/(sample wet weight - pan tare))*100
% Solid = 100 - percent Water

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

November 30, 2010

TestAmerica Project Number: G0K200425
PO#: 29-141-2956-01
Contract Number: N62473-09-D-2608

Heather Wollenburg
ERRG
115 Sansome Street
Suite 200
San Francisco, CA 94104

Dear Ms. Wollenburg,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on November 20, 2010. These samples are associated with your Hunters Point IR07/18 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) 374-4362.

Sincerely,

Linda C. Laver
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G0K200425

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

Manual Integration Addendum

SOLID, 8260B, Volatile Organics
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Report

SOLID, CALUFT/GCMS, TPH-GRO
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Report

WATER, 8260B, Volatile Organics
Sample: 13
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Report

SOLID, 8270C, Semivolatile Organics
Sample: 6
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Report

Table of Contents

TestAmerica West Sacramento Project Number G0K200425

SOLID, D 2216-90, Percent Moisture
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
    Sample Data Sheets
    Laboratory QC Reports

Full Raw Data Package

Case Narrative

TestAmerica West Sacramento Project Number G0K200425

General Comments

These samples have been collected as replacements for ones originally submitted in Lot # G0J260451.

Per request of William “Don” Schmidt on November 22, 2010, TPH-GRO has been added to the analyses requested for the soil samples.

Manual integrations are performed only when necessary and in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: S-Q-004, including Addendum 1. Detailed information can be found in the Manual Integration Addendum section of this report.

SOLID, 8260B, Volatile Organics
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 8MS/MSD, 9, 10, 11, 12
Detailed manual integration information can be found in the Manual Integration Addendum section of this report.

The matrix spike and/or matrix spike duplicate (MS/MSD) associated with this analytical batch have percent recoveries outside the established control limits for some analytes. Acceptable laboratory control sample (LCS) data demonstrates that the analytical system is in control.

The internal standard (IS) response for the following samples exceed the acceptance criteria of <50% of the ICAL IS response. Analytical results for these sample locations that were submitted prior in Lot# G0J260451 confirm that this is due to matrix effects and not instrument drift.

Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12: low response for 1,4-Dichlorobenzene-d4.
Samples G0K200425-5, 6, and 12: low response for 1,4-Diflurobenzene and Chlorobenzene-d4.

Samples: 1, 4, 5, 6, 7, 8MS, 9, 10, 12
The percent recoveries for some of the surrogates are outside the acceptance limits in these samples. Analytical results for these sample locations that were submitted prior in Lot# G0J260451 confirm that this is due to matrix effects. The surrogate recoveries in the associated method blank and laboratory control sample (LCS) are within established control limits demonstrating that the analytical system is in control.

Case Narrative

TestAmerica West Sacramento Project Number G0K200425

SOLID, CALUFT/GCMS, TPH-GRO
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
The MS/MSD associated with this analytical batch have percent recoveries outside the established control limits for some analytes. Acceptable laboratory control sample (LCS) data demonstrates that the analytical system is in control.

Samples: 4, 12
The percent recoveries for the surrogate 4-Bromofluorobenzene are below the acceptance limits in these samples indicating a potential low bias in the data. Analytical results for these sample locations that were submitted prior in Lot# G0J260451 confirm that this is due to matrix effects. The surrogate recoveries in the associated method blank and LCS are within established control limits demonstrating that the analytical system is in control.

WATER, 8260B, Volatile Organics
Sample: 13
Detailed manual integration information can be found in the Manual Integration Addendum section of this report.

The percent recoveries for the surrogates Dibromoflouromethane, Toluene-d8 and 4-Bromofluorobenzene are below the acceptance limits in this sample indicating a potential low bias in the data. The sample could not be reanalyzed because only one vial was submitted. The surrogate recoveries in the associated method blank and LCS are within established control limits demonstrating that the analytical system is in control.

There was insufficient sample volume to prepare a MS/MSD pair with this analytical batch.

SOLID, 8270C, Semivolatile Organics
Sample: 6
Detailed manual integration information can be found in the Manual Integration Addendum section of this report.

There are 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 G0K200425

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
MAC5G	1	SS-RP01	11/19/2010 06:55 AM	11/20/2010 09:25 AM
MAC5K	2	SS-RP02	11/19/2010 06:59 AM	11/20/2010 09:25 AM
MAC5L	3	SS-RP03	11/19/2010 07:04 AM	11/20/2010 09:25 AM
MAC5M	4	SS-RP04	11/19/2010 07:10 AM	11/20/2010 09:25 AM
MAC5N	5	SS-RP05	11/19/2010 07:15 AM	11/20/2010 09:25 AM
MAC5P	6	SS-RP06	11/19/2010 07:20 AM	11/20/2010 09:25 AM
MAC5R	7	SS-RP07	11/19/2010 08:10 AM	11/20/2010 09:25 AM
MAC5T	8	SS-RP08	11/19/2010 07:40 AM	11/20/2010 09:25 AM
MAC5V	9	SS-RP09	11/19/2010 07:45 AM	11/20/2010 09:25 AM
MAC57	10	SS-RP10	11/19/2010 07:50 AM	11/20/2010 09:25 AM
MAC59	11	SS-RP11	11/19/2010 08:10 AM	11/20/2010 09:25 AM
MAC6C	12	SS-RP12	11/19/2010 08:05 AM	11/20/2010 09:25 AM
MAC6D	13	TRIP BLANK	11/19/2010	11/20/2010 09:25 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.

G0K200425

West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Sourial	Site Contact: Heather Wollenburg	Date: 11/19/2010	COC No:
ERRG, Inc	Tel/Fax: (925) 522-9432	Lab Contact: L Laver	Carrier: Fed ex	1 of 1 COCs
115 Sansome St	Analysis Turnaround Time			Job No.
San Francisco, CA 94104	Calendar (C) or Work Days (W) C			
925-969-0750 Phone	TAT if different from Below 5 Day			
925-969-0751 FAX	☐ 2 weeks			SDG No.
Project Name: HPNS IR 07/18	☐ 1 week			
Site:	☐ 2 days			
29-141-2956-01	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Container: VOA	4 Oz Jar	Encore	Matrix	# of Cont.	VOC 5035 / 8260 B	~~PAHs 8270~~ SVOC 8270	Sample Specific Notes:
SS-RP01	11/19/2010	0655		1	4	Soil	5	X		
SS-RP02	11/19/2010	0659		1	4	Soil	5	X		
SS-RP03	11/19/2010	0704		1	4	Soil	5	X		
SS-RP04	11/19/2010	0710		1	4	Soil	5	X		
SS-RP05	11/19/2010	0715		1	4	Soil	5	X		
SS-RP06	11/19/2010	0720		2	4	Soil	6	X	X	
SS-RP07	11/19/2010	0810		1	4	Soil	5	X		
SS-RP08	11/19/2010	0740		1	12	Soil	13	X		MS/MSD
SS-RP09	11/19/2010	0745		1	4	Soil	5	X		
SS-RP10	11/19/2010	0750		1	4	Soil	5	X		
SS-RP11	11/19/2010	0810		1	4	Soil	5	X		
SS-RP12	11/19/2010	0805		1	4	Soil	5	X		
Trip Blank	11/19/2010		1			Aqueous	1	X		Trip Blanl

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[X] *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* X☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: level IV Deliverable, DOD Project

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	ERRG	11/19/10 0900	Fedex 7941352971	FEDEX	11/19/10 0900
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: MWS	Date/Time: 11-20-10 945
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica West Sacramento (916) 372 5600

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT EPRG PM LL LOG # 68248

LOT# (QUANTIMS ID) G0K200425 QUOTE# 86362 LOCATION W70A VE

Checked (✓)

DATE RECEIVED 11-20-10 TIME RECEIVED 925 ☑

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) 597752 597751

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) NA ☑

TEMPERATURE BLANK Observed: ↓ Corrected:

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 3, 4, 5 Average 4 Corrected Average 4

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☑ #5 ☐ ☐ OTHER ☑

Initials: CA Date: 11-20-10

==========

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 APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

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

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

Initials: AS Date: 11-20-10

Notes

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

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0K200425

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

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

QA-185 5/05 EM

Page 3

Manual Integration Addendum

Manual Integration Record - Method 8260B

Instrument : HP11 Lot # G0K200425

Compound Name	Analysis date: 11/17/2010									Analysis date:11/20/10			Analysis date: 11/20/10	
	ICAL									CCAL - Prep QC			Samples	
	1	2	3	4	5	6	7	8	ICV	CCV	MB	LCS	8MS	8MSD
Acetone										X		X	X	X

Manual Integration Record - Method 8260B

Instrument : HP10 Lot # G0K200425

Compound Name	Analysis date: 11/4/2010									Analysis date:				
	ICAL									CCAL - Prep QC				
	0.25/0.5	0.5/1.0	.0/2.	4.0	20	40	60	80	ICV	CCV	MB	LCS	LCSD	CCV
Dichlorodifluoromethane			x											
t-Butanol			x											

Manual Integration Record - Method 8270

Instrument : SV5 Lot # G0K200425

Compound Name	Analysis date: 10/2/2010								Analysis date: 11/21/2010					Analysis date: 11/21/2010					
	ICAL								CCAL - Prep QC					Samples					
	5	10	20	50	80	120	160	ICV	CCV	MB	LCS	MS	MSD	6					
2,4,5-Trichlorophenol			x																
2,6-Dinitrotoluene	x	x	x																
Benzo(b)fluoranthene														X					
Benzo(k)fluoranthene														X					
Indeno(1,2,3-cd)pyrene				x		x	x						X						
N-Nitrosodimethylamine				x					X		X	X	X						
Pyridine				x							X		X						
Nitrobenzene-d5	x	x																	

SOLID, 8260B, Volatile Organics

ERRG

Client Sample ID: SS-RP01

GC/MS Volatiles

Lot-Sample #...: G0K200425-001 **Work Order #...:** MAC5G1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.94
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	21	ug/kg	1.5
Benzene	ND	5.3	ug/kg	0.28
Bromobenzene	ND	5.3	ug/kg	0.55
Bromochloromethane	ND	5.3	ug/kg	1.0
Bromodichloromethane	ND	5.3	ug/kg	0.56
Bromoform	ND	5.3	ug/kg	0.42
Bromomethane	ND	5.3	ug/kg	0.91
2-Butanone (MEK)	ND	11	ug/kg	1.5
n-Butylbenzene	ND	5.3	ug/kg	0.70
sec-Butylbenzene	ND	5.3	ug/kg	0.79
tert-Butylbenzene	ND	5.3	ug/kg	0.57
Carbon disulfide	ND	11	ug/kg	0.52
Carbon tetrachloride	ND	5.3	ug/kg	0.56
Chlorobenzene	ND	5.3	ug/kg	0.31
Dibromochloromethane	ND	5.3	ug/kg	0.22
Chloroethane	ND	5.3	ug/kg	0.48
Chloroform	ND	5.3	ug/kg	0.28
Chloromethane	ND	5.3	ug/kg	0.53
2-Chlorotoluene	ND	5.3	ug/kg	0.66
4-Chlorotoluene	ND	5.3	ug/kg	0.91
1,2-Dibromo-3-chloropropane (DBCP)	ND	11	ug/kg	0.93
1,2-Dibromoethane (EDB)	ND	11	ug/kg	0.29
Dibromomethane	ND	5.3	ug/kg	0.61
1,2-Dichlorobenzene	ND	5.3	ug/kg	0.68
1,3-Dichlorobenzene	ND	5.3	ug/kg	0.32
1,4-Dichlorobenzene	ND	5.3	ug/kg	0.83
Dichlorodifluoromethane (Freon 12)	ND	5.3	ug/kg	0.94
1,1-Dichloroethane	ND	5.3	ug/kg	0.31
1,2-Dichloroethane	ND	5.3	ug/kg	0.77
cis-1,2-Dichloroethene	ND	5.3	ug/kg	0.94
trans-1,2-Dichloroethene	ND	5.3	ug/kg	0.40
1,1-Dichloroethene	ND	5.3	ug/kg	0.28
1,2-Dichloropropane	ND	5.3	ug/kg	0.64
1,3-Dichloropropane	ND	5.3	ug/kg	0.60
2,2-Dichloropropane	ND	5.3	ug/kg	0.40
cis-1,3-Dichloropropene	ND	5.3	ug/kg	0.68

(Continued on next page)

ERRG

Client Sample ID: SS-RP01

GC/MS Volatiles

Lot-Sample #...: G0K200425-001 **Work Order #...:** MAC5G1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	5.3	ug/kg	0.79
1,1-Dichloropropene	ND	5.3	ug/kg	0.39
Ethylbenzene	ND	5.3	ug/kg	0.36
Hexachlorobutadiene	ND	5.3	ug/kg	0.35
2-Hexanone	ND	11	ug/kg	0.78
Isopropylbenzene	ND	5.3	ug/kg	0.55
p-Isopropyltoluene	ND	5.3	ug/kg	0.67
Methylene chloride	ND	5.3	ug/kg	0.89
4-Methyl-2-pentanone (MIBK)	ND	11	ug/kg	0.98
Methyl tert-butyl ether (MTBE)	ND	5.3	ug/kg	0.64
Naphthalene	ND	5.3	ug/kg	0.67
n-Propylbenzene	ND	5.3	ug/kg	0.31
Styrene	ND		ug/kg	0.33
1,1,1,2-Tetrachloroethane	ND	5.3	ug/kg	0.43
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	0.72
Tetrachloroethene	ND	5.3	ug/kg	0.65
Toluene	ND	5.3	ug/kg	0.65
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	0.79
1,2,4-Trichloro-benzene	ND	5.3	ug/kg	0.79
1,1,1-Trichloroethane	ND	5.3	ug/kg	0.38
1,1,2-Trichloroethane	ND	5.3	ug/kg	0.47
Trichloroethene	ND	5.3	ug/kg	0.64
Trichlorofluoromethane (Freon 11)	ND	5.3	ug/kg	0.36
1,2,3-Trichloropropane	ND	5.3	ug/kg	0.81
1,2,4-Trimethylbenzene	ND	5.3	ug/kg	0.54
1,3,5-Trimethylbenzene	ND	5.3	ug/kg	0.37
Vinyl chloride	ND	5.3	ug/kg	0.38
m-Xylene & p-Xylene	ND	5.3	ug/kg	0.86
o-Xylene	ND	5.3	ug/kg	0.35

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(68 - 116)
1,2-Dichloroethane-d4	100	(59 - 130)
Toluene-d8	107	(85 - 115)
4-Bromofluorobenzene	83 *	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP02

GC/MS Volatiles

Lot-Sample #...: G0K200425-002 **Work Order #...:** MAC5K1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.87
% Moisture.....: 7.3 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	19	ug/kg	1.3
Benzene	ND	4.7	ug/kg	0.24
Bromobenzene	ND	4.7	ug/kg	0.49
Bromochloromethane	ND	4.7	ug/kg	0.88
Bromodichloromethane	ND	4.7	ug/kg	0.50
Bromoform	ND	4.7	ug/kg	0.38
Bromomethane	ND	4.7	ug/kg	0.81
2-Butanone (MEK)	ND	9.4	ug/kg	1.3
n-Butylbenzene	ND	4.7	ug/kg	0.62
sec-Butylbenzene	ND	4.7	ug/kg	0.70
tert-Butylbenzene	ND	4.7	ug/kg	0.51
Carbon disulfide	ND	9.4	ug/kg	0.46
Carbon tetrachloride	ND	4.7	ug/kg	0.50
Chlorobenzene	ND	4.7	ug/kg	0.27
Dibromochloromethane	ND	4.7	ug/kg	0.20
Chloroethane	ND	4.7	ug/kg	0.42
Chloroform	ND	4.7	ug/kg	0.24
Chloromethane	ND	4.7	ug/kg	0.47
2-Chlorotoluene	ND	4.7	ug/kg	0.58
4-Chlorotoluene	ND	4.7	ug/kg	0.81
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.4	ug/kg	0.83
1,2-Dibromoethane (EDB)	ND	9.4	ug/kg	0.25
Dibromomethane	ND	4.7	ug/kg	0.54
1,2-Dichlorobenzene	ND	4.7	ug/kg	0.60
1,3-Dichlorobenzene	ND	4.7	ug/kg	0.28
1,4-Dichlorobenzene	ND	4.7	ug/kg	0.73
Dichlorodifluoromethane (Freon 12)	ND	4.7	ug/kg	0.84
1,1-Dichloroethane	ND	4.7	ug/kg	0.27
1,2-Dichloroethane	ND	4.7	ug/kg	0.69
cis-1,2-Dichloroethene	ND	4.7	ug/kg	0.84
trans-1,2-Dichloroethene	ND	4.7	ug/kg	0.36
1,1-Dichloroethene	ND	4.7	ug/kg	0.24
1,2-Dichloropropane	ND	4.7	ug/kg	0.56
1,3-Dichloropropane	ND	4.7	ug/kg	0.54
2,2-Dichloropropane	ND	4.7	ug/kg	0.36
cis-1,3-Dichloropropene	ND	4.7	ug/kg	0.60

(Continued on next page)

ERRG

Client Sample ID: SS-RP02

GC/MS Volatiles

Lot-Sample #...: G0K200425-002 **Work Order #...:** MAC5K1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.7	ug/kg	0.70
1,1-Dichloropropene	ND	4.7	ug/kg	0.35
Ethylbenzene	ND	4.7	ug/kg	0.32
Hexachlorobutadiene	ND	4.7	ug/kg	0.31
2-Hexanone	ND	9.4	ug/kg	0.69
Isopropylbenzene	ND	4.7	ug/kg	0.49
p-Isopropyltoluene	ND	4.7	ug/kg	0.59
Methylene chloride	ND	4.7	ug/kg	0.79
4-Methyl-2-pentanone (MIBK)	ND	9.4	ug/kg	0.86
Methyl tert-butyl ether (MTBE)	ND	4.7	ug/kg	0.56
Naphthalene	ND	4.7	ug/kg	0.59
n-Propylbenzene	ND	4.7	ug/kg	0.27
Styrene	ND		ug/kg	0.29
1,1,1,2-Tetrachloroethane	ND	4.7	ug/kg	0.38
1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	0.64
Tetrachloroethene	ND	4.7	ug/kg	0.57
Toluene	ND	4.7	ug/kg	0.57
1,2,3-Trichlorobenzene	ND	4.7	ug/kg	0.70
1,2,4-Trichloro-benzene	ND	4.7	ug/kg	0.70
1,1,1-Trichloroethane	ND	4.7	ug/kg	0.34
1,1,2-Trichloroethane	ND	4.7	ug/kg	0.41
Trichloroethene	ND	4.7	ug/kg	0.56
Trichlorofluoromethane (Freon 11)	ND	4.7	ug/kg	0.32
1,2,3-Trichloropropane	ND	4.7	ug/kg	0.71
1,2,4-Trimethylbenzene	ND	4.7	ug/kg	0.48
1,3,5-Trimethylbenzene	ND	4.7	ug/kg	0.33
Vinyl chloride	ND	4.7	ug/kg	0.34
m-Xylene & p-Xylene	ND	4.7	ug/kg	0.76
o-Xylene	ND	4.7	ug/kg	0.31

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(68 - 116)
1,2-Dichloroethane-d4	108	(59 - 130)
Toluene-d8	114	(85 - 115)
4-Bromofluorobenzene	87	(85 - 120)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP03

GC/MS Volatiles

Lot-Sample #...: G0K200425-003 **Work Order #...:** MAC5L1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.78
% Moisture.....: 8.7 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,2-Dichloroethene	ND	4.3	ug/kg	0.32
1,1-Dichloroethene	ND	4.3	ug/kg	0.22
1,2-Dichloropropane	ND	4.3	ug/kg	0.51
1,3-Dichloropropane	ND	4.3	ug/kg	0.49
2,2-Dichloropropane	ND	4.3	ug/kg	0.32
cis-1,3-Dichloropropene	ND	4.3	ug/kg	0.55
trans-1,3-Dichloropropene	ND	4.3	ug/kg	0.64
1,1-Dichloropropene	ND	4.3	ug/kg	0.32
Ethylbenzene	ND	4.3	ug/kg	0.29
Hexachlorobutadiene	ND	4.3	ug/kg	0.28
2-Hexanone	ND	8.5	ug/kg	0.63
Isopropylbenzene	ND	4.3	ug/kg	0.44
p-Isopropyltoluene	ND	4.3	ug/kg	0.54
Methylene chloride	ND	4.3	ug/kg	0.72
4-Methyl-2-pentanone (MIBK)	ND	8.5	ug/kg	0.79
Methyl tert-butyl ether (MTBE)	ND	4.3	ug/kg	0.51
Naphthalene	ND	4.3	ug/kg	0.54
n-Propylbenzene	ND	4.3	ug/kg	0.25
Styrene	ND		ug/kg	0.26
1,1,1,2-Tetrachloroethane	ND	4.3	ug/kg	0.35
1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	0.58
Tetrachloroethene	ND	4.3	ug/kg	0.52
Toluene	ND	4.3	ug/kg	0.52
1,2,3-Trichlorobenzene	ND	4.3	ug/kg	0.64
1,2,4-Trichloro-benzene	ND	4.3	ug/kg	0.64
1,1,1-Trichloroethane	ND	4.3	ug/kg	0.31
1,1,2-Trichloroethane	ND	4.3	ug/kg	0.38
Trichloroethene	ND	4.3	ug/kg	0.51
Trichlorofluoromethane (Freon 11)	ND	4.3	ug/kg	0.29
1,2,3-Trichloropropane	ND	4.3	ug/kg	0.65
1,2,4-Trimethylbenzene	ND	4.3	ug/kg	0.44
1,3,5-Trimethylbenzene	ND	4.3	ug/kg	0.30
Vinyl chloride	ND	4.3	ug/kg	0.31
m-Xylene & p-Xylene	ND	4.3	ug/kg	0.69

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ERRG

Client Sample ID: SS-RP03

GC/MS Volatiles

Lot-Sample #...: G0K200425-003 **Work Order #...:** MAC5L1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
o-Xylene	ND	4.3	ug/kg	0.28
Acetone	**10 J**	**17**	**ug/kg**	**1.2**
Benzene	ND	4.3	ug/kg	0.22
Bromobenzene	ND	4.3	ug/kg	0.44
Bromochloromethane	ND	4.3	ug/kg	0.80
Bromodichloromethane	ND	4.3	ug/kg	0.45
Bromoform	ND	4.3	ug/kg	0.34
Bromomethane	ND	4.3	ug/kg	0.73
2-Butanone (MEK)	**2.3 J**	**8.5**	**ug/kg**	**1.2**
n-Butylbenzene	ND	4.3	ug/kg	0.56
sec-Butylbenzene	ND	4.3	ug/kg	0.64
tert-Butylbenzene	ND	4.3	ug/kg	0.46
Carbon disulfide	ND	8.5	ug/kg	0.42
Carbon tetrachloride	ND	4.3	ug/kg	0.45
Chlorobenzene	ND	4.3	ug/kg	0.25
Dibromochloromethane	ND	4.3	ug/kg	0.18
Chloroethane	ND	4.3	ug/kg	0.38
Chloroform	ND	4.3	ug/kg	0.22
Chloromethane	ND	4.3	ug/kg	0.43
2-Chlorotoluene	ND	4.3	ug/kg	0.53
4-Chlorotoluene	ND	4.3	ug/kg	0.73
1,2-Dibromo-3-chloropropane (DBCP)	ND	8.5	ug/kg	0.75
1,2-Dibromoethane (EDB)	ND	8.5	ug/kg	0.23
Dibromomethane	ND	4.3	ug/kg	0.50
1,2-Dichlorobenzene	ND	4.3	ug/kg	0.55
1,3-Dichlorobenzene	ND	4.3	ug/kg	0.26
1,4-Dichlorobenzene	ND	4.3	ug/kg	0.67
Dichlorodifluoromethane (Freon 12)	ND	4.3	ug/kg	0.76
1,1-Dichloroethane	ND	4.3	ug/kg	0.25
1,2-Dichloroethane	ND	4.3	ug/kg	0.62
cis-1,2-Dichloroethene	ND	4.3	ug/kg	0.76

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(68 - 116)
1,2-Dichloroethane-d4	104	(59 - 130)
Toluene-d8	111	(85 - 115)
4-Bromofluorobenzene	87	(85 - 120)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERRG

Client Sample ID: SS-RP04

GC/MS Volatiles

Lot-Sample #...: G0K200425-004 **Work Order #...:** MAC5M1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.85
% Moisture.....: 9.5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Isopropylbenzene	ND	4.7	ug/kg	0.49
p-Isopropyltoluene	ND	4.7	ug/kg	0.59
Methylene chloride	ND	4.7	ug/kg	0.79
4-Methyl-2-pentanone (MIBK)	ND	9.4	ug/kg	0.86
Methyl tert-butyl ether (MTBE)	ND	4.7	ug/kg	0.56
Naphthalene	ND	4.7	ug/kg	0.59
n-Propylbenzene	ND	4.7	ug/kg	0.27
Styrene	ND		ug/kg	0.29
1,1,1,2-Tetrachloroethane	ND	4.7	ug/kg	0.38
1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	0.64
Acetone	ND	19	ug/kg	1.3
Benzene	ND	4.7	ug/kg	0.24
Bromobenzene	ND	4.7	ug/kg	0.49
Bromochloromethane	ND	4.7	ug/kg	0.88
Bromodichloromethane	ND	4.7	ug/kg	0.50
Bromoform	ND	4.7	ug/kg	0.38
Bromomethane	ND	4.7	ug/kg	0.81
2-Butanone (MEK)	ND	9.4	ug/kg	1.3
n-Butylbenzene	ND	4.7	ug/kg	0.62
sec-Butylbenzene	ND	4.7	ug/kg	0.70
tert-Butylbenzene	ND	4.7	ug/kg	0.51
Carbon disulfide	ND	9.4	ug/kg	0.46
Carbon tetrachloride	ND	4.7	ug/kg	0.50
Chlorobenzene	ND	4.7	ug/kg	0.27
Dibromochloromethane	ND	4.7	ug/kg	0.20
Chloroethane	ND	4.7	ug/kg	0.42
Chloroform	ND	4.7	ug/kg	0.24
Chloromethane	ND	4.7	ug/kg	0.47
2-Chlorotoluene	ND	4.7	ug/kg	0.58
4-Chlorotoluene	ND	4.7	ug/kg	0.81
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.4	ug/kg	0.83
1,2-Dibromoethane (EDB)	ND	9.4	ug/kg	0.25
Dibromomethane	ND	4.7	ug/kg	0.54
1,2-Dichlorobenzene	ND	4.7	ug/kg	0.60
1,3-Dichlorobenzene	ND	4.7	ug/kg	0.28

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ERRG

Client Sample ID: SS-RP04

GC/MS Volatiles

Lot-Sample #...: G0K200425-004 **Work Order #...:** MAC5M1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	4.7	ug/kg	0.73
Dichlorodifluoromethane (Freon 12)	ND	4.7	ug/kg	0.84
1,1-Dichloroethane	ND	4.7	ug/kg	0.27
1,2-Dichloroethane	ND	4.7	ug/kg	0.69
cis-1,2-Dichloroethene	ND	4.7	ug/kg	0.84
trans-1,2-Dichloroethene	ND	4.7	ug/kg	0.36
1,1-Dichloroethene	ND	4.7	ug/kg	0.24
1,2-Dichloropropane	ND	4.7	ug/kg	0.56
1,3-Dichloropropane	ND	4.7	ug/kg	0.54
2,2-Dichloropropane	ND	4.7	ug/kg	0.36
cis-1,3-Dichloropropene	ND	4.7	ug/kg	0.60
trans-1,3-Dichloropropene	ND	4.7	ug/kg	0.70
1,1-Dichloropropene	ND	4.7	ug/kg	0.35
Ethylbenzene	ND	4.7	ug/kg	0.32
Hexachlorobutadiene	ND	4.7	ug/kg	0.31
2-Hexanone	ND	9.4	ug/kg	0.69
Tetrachloroethene	ND	4.7	ug/kg	0.57
Toluene	ND	4.7	ug/kg	0.57
1,2,3-Trichlorobenzene	ND	4.7	ug/kg	0.70
1,2,4-Trichloro-benzene	ND	4.7	ug/kg	0.70
1,1,1-Trichloroethane	ND	4.7	ug/kg	0.34
1,1,2-Trichloroethane	ND	4.7	ug/kg	0.41
Trichloroethene	ND	4.7	ug/kg	0.56
Trichlorofluoromethane (Freon 11)	ND	4.7	ug/kg	0.32
1,2,3-Trichloropropane	ND	4.7	ug/kg	0.71
1,2,4-Trimethylbenzene	ND	4.7	ug/kg	0.48
1,3,5-Trimethylbenzene	ND	4.7	ug/kg	0.33
Vinyl chloride	ND	4.7	ug/kg	0.34
m-Xylene & p-Xylene	ND	4.7	ug/kg	0.76
o-Xylene	ND	4.7	ug/kg	0.31

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(68 - 116)
1,2-Dichloroethane-d4	115	(59 - 130)
Toluene-d8	120 *	(85 - 115)
4-Bromofluorobenzene	69 *	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP05

GC/MS Volatiles

Lot-Sample #...: G0K200425-005 **Work Order #...:** MAC5N1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.77
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	18	ug/kg	1.2
Benzene	ND	4.4	ug/kg	0.23
Bromobenzene	ND	4.4	ug/kg	0.46
Bromochloromethane	ND	4.4	ug/kg	0.84
Bromodichloromethane	ND	4.4	ug/kg	0.47
Bromoform	ND	4.4	ug/kg	0.36
Bromomethane	ND	4.4	ug/kg	0.77
2-Butanone (MEK)	ND	8.9	ug/kg	1.2
n-Butylbenzene	ND	4.4	ug/kg	0.59
sec-Butylbenzene	ND	4.4	ug/kg	0.67
tert-Butylbenzene	ND	4.4	ug/kg	0.48
Carbon disulfide	ND	8.9	ug/kg	0.44
Carbon tetrachloride	ND	4.4	ug/kg	0.47
Chlorobenzene	ND	4.4	ug/kg	0.26
Dibromochloromethane	ND	4.4	ug/kg	0.19
Chloroethane	ND	4.4	ug/kg	0.40
Chloroform	ND	4.4	ug/kg	0.23
Chloromethane	ND	4.4	ug/kg	0.44
2-Chlorotoluene	ND	4.4	ug/kg	0.55
4-Chlorotoluene	ND	4.4	ug/kg	0.77
1,2-Dibromo-3-chloropropane (DBCP)	ND	8.9	ug/kg	0.78
1,2-Dibromoethane (EDB)	ND	8.9	ug/kg	0.24
Dibromomethane	ND	4.4	ug/kg	0.52
1,2-Dichlorobenzene	ND	4.4	ug/kg	0.57
1,3-Dichlorobenzene	ND	4.4	ug/kg	0.27
1,4-Dichlorobenzene	ND	4.4	ug/kg	0.69
Dichlorodifluoromethane (Freon 12)	ND	4.4	ug/kg	0.79
1,1-Dichloroethane	ND	4.4	ug/kg	0.26
1,2-Dichloroethane	ND	4.4	ug/kg	0.65
cis-1,2-Dichloroethene	ND	4.4	ug/kg	0.79
trans-1,2-Dichloroethene	ND	4.4	ug/kg	0.34
1,1-Dichloroethene	ND	4.4	ug/kg	0.23
1,2-Dichloropropane	ND	4.4	ug/kg	0.53
1,3-Dichloropropane	ND	4.4	ug/kg	0.51
2,2-Dichloropropane	ND	4.4	ug/kg	0.34
cis-1,3-Dichloropropene	ND	4.4	ug/kg	0.57

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ERRG

Client Sample ID: SS-RP05

GC/MS Volatiles

Lot-Sample #...: G0K200425-005 **Work Order #...:** MAC5N1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.4	ug/kg	0.67
1,1-Dichloropropene	ND	4.4	ug/kg	0.33
Ethylbenzene	ND	4.4	ug/kg	0.30
Hexachlorobutadiene	ND	4.4	ug/kg	0.29
2-Hexanone	ND	8.9	ug/kg	0.66
Isopropylbenzene	ND	4.4	ug/kg	0.46
p-Isopropyltoluene	ND	4.4	ug/kg	0.56
Methylene chloride	ND	4.4	ug/kg	0.75
4-Methyl-2-pentanone (MIBK)	ND	8.9	ug/kg	0.82
Methyl tert-butyl ether (MTBE)	ND	4.4	ug/kg	0.53
Naphthalene	ND	4.4	ug/kg	0.56
n-Propylbenzene	ND	4.4	ug/kg	0.26
Styrene	ND		ug/kg	0.28
1,1,1,2-Tetrachloroethane	ND	4.4	ug/kg	0.36
1,1,2,2-Tetrachloroethane	ND	4.4	ug/kg	0.60
Tetrachloroethene	ND	4.4	ug/kg	0.54
Toluene	ND	4.4	ug/kg	0.54
1,2,3-Trichlorobenzene	ND	4.4	ug/kg	0.67
1,2,4-Trichloro-benzene	ND	4.4	ug/kg	0.67
1,1,1-Trichloroethane	ND	4.4	ug/kg	0.32
1,1,2-Trichloroethane	ND	4.4	ug/kg	0.39
Trichloroethene	ND	4.4	ug/kg	0.53
Trichlorofluoromethane (Freon 11)	ND	4.4	ug/kg	0.30
1,2,3-Trichloropropane	ND	4.4	ug/kg	0.68
1,2,4-Trimethylbenzene	ND	4.4	ug/kg	0.45
1,3,5-Trimethylbenzene	ND	4.4	ug/kg	0.31
Vinyl chloride	ND	4.4	ug/kg	0.32
m-Xylene & p-Xylene	ND	4.4	ug/kg	0.72
o-Xylene	ND	4.4	ug/kg	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	116	(68 - 116)
1,2-Dichloroethane-d4	114	(59 - 130)
Toluene-d8	116 *	(85 - 115)
4-Bromofluorobenzene	86	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP06

GC/MS Volatiles

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P1AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.78
% Moisture.....: 14 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloroethane	ND	4.5	ug/kg	0.41
Chloroform	ND	4.5	ug/kg	0.24
Chloromethane	ND	4.5	ug/kg	0.45
2-Chlorotoluene	ND	4.5	ug/kg	0.56
4-Chlorotoluene	ND	4.5	ug/kg	0.78
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.0	ug/kg	0.80
1,2-Dibromoethane (EDB)	ND	9.0	ug/kg	0.24
Dibromomethane	ND	4.5	ug/kg	0.52
1,2-Dichlorobenzene	ND	4.5	ug/kg	0.58
1,3-Dichlorobenzene	ND	4.5	ug/kg	0.27
1,4-Dichlorobenzene	ND	4.5	ug/kg	0.71
Dichlorodifluoromethane (Freon 12)	ND	4.5	ug/kg	0.81
1,1-Dichloroethane	ND	4.5	ug/kg	0.26
1,2-Dichloroethane	ND	4.5	ug/kg	0.66
cis-1,2-Dichloroethene	ND	4.5	ug/kg	0.81
trans-1,2-Dichloroethene	ND	4.5	ug/kg	0.34
1,1-Dichloroethene	ND	4.5	ug/kg	0.24
1,2-Dichloropropane	ND	4.5	ug/kg	0.54
1,3-Dichloropropane	ND	4.5	ug/kg	0.52
2,2-Dichloropropane	ND	4.5	ug/kg	0.34
cis-1,3-Dichloropropene	ND	4.5	ug/kg	0.58
trans-1,3-Dichloropropene	ND	4.5	ug/kg	0.68
1,1-Dichloropropene	ND	4.5	ug/kg	0.33
Ethylbenzene	ND	4.5	ug/kg	0.31
Hexachlorobutadiene	ND	4.5	ug/kg	0.30
2-Hexanone	ND	9.0	ug/kg	0.67
Isopropylbenzene	ND	4.5	ug/kg	0.47
p-Isopropyltoluene	ND	4.5	ug/kg	0.57
Methylene chloride	ND	4.5	ug/kg	0.76
4-Methyl-2-pentanone (MIBK)	ND	9.0	ug/kg	0.83
Acetone	ND	18	ug/kg	1.3
Benzene	ND	4.5	ug/kg	0.24
Bromobenzene	ND	4.5	ug/kg	0.47
Bromochloromethane	ND	4.5	ug/kg	0.85
Bromodichloromethane	ND	4.5	ug/kg	0.48

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ERRG

Client Sample ID: SS-RP06

GC/MS Volatiles

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P1AD **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	4.5	ug/kg	0.36
Bromomethane	ND	4.5	ug/kg	0.78
2-Butanone (MEK)	ND	9.0	ug/kg	1.3
n-Butylbenzene	ND	4.5	ug/kg	0.60
sec-Butylbenzene	ND	4.5	ug/kg	0.68
tert-Butylbenzene	ND	4.5	ug/kg	0.49
Carbon disulfide	ND	9.0	ug/kg	0.44
Carbon tetrachloride	ND	4.5	ug/kg	0.48
Chlorobenzene	ND	4.5	ug/kg	0.26
Dibromochloromethane	ND	4.5	ug/kg	0.19
Methyl tert-butyl ether (MTBE)	ND	4.5	ug/kg	0.54
Naphthalene	ND	4.5	ug/kg	0.57
n-Propylbenzene	ND	4.5	ug/kg	0.26
Styrene	ND		ug/kg	0.28
1,1,1,2-Tetrachloroethane	ND	4.5	ug/kg	0.37
1,1,2,2-Tetrachloroethane	ND	4.5	ug/kg	0.62
Tetrachloroethene	ND	4.5	ug/kg	0.55
Toluene	ND	4.5	ug/kg	0.55
1,2,3-Trichlorobenzene	ND	4.5	ug/kg	0.68
1,2,4-Trichloro-benzene	ND	4.5	ug/kg	0.68
1,1,1-Trichloroethane	ND	4.5	ug/kg	0.33
1,1,2-Trichloroethane	ND	4.5	ug/kg	0.40
Trichloroethene	ND	4.5	ug/kg	0.54
Trichlorofluoromethane (Freon 11)	ND	4.5	ug/kg	0.31
1,2,3-Trichloropropane	ND	4.5	ug/kg	0.69
1,2,4-Trimethylbenzene	ND	4.5	ug/kg	0.46
1,3,5-Trimethylbenzene	ND	4.5	ug/kg	0.32
Vinyl chloride	ND	4.5	ug/kg	0.33
m-Xylene & p-Xylene	ND	4.5	ug/kg	0.73
o-Xylene	ND	4.5	ug/kg	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	121 *	(68 - 116)
1,2-Dichloroethane-d4	114	(59 - 130)
Toluene-d8	121 *	(85 - 115)
4-Bromofluorobenzene	87	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP07

GC/MS Volatiles

Lot-Sample #...: G0K200425-007 **Work Order #...:** MAC5R1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.81
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	18	ug/kg	1.3
Benzene	ND	4.6	ug/kg	0.24
Bromobenzene	ND	4.6	ug/kg	0.47
Bromochloromethane	ND	4.6	ug/kg	0.86
Bromodichloromethane	ND	4.6	ug/kg	0.48
Bromoform	ND	4.6	ug/kg	0.36
Bromomethane	ND	4.6	ug/kg	0.78
2-Butanone (MEK)	ND	9.1	ug/kg	1.3
n-Butylbenzene	ND	4.6	ug/kg	0.60
sec-Butylbenzene	ND	4.6	ug/kg	0.68
tert-Butylbenzene	ND	4.6	ug/kg	0.49
Carbon disulfide	ND	9.1	ug/kg	0.45
Carbon tetrachloride	ND	4.6	ug/kg	0.48
Chlorobenzene	ND	4.6	ug/kg	0.26
Dibromochloromethane	ND	4.6	ug/kg	0.19
Chloroethane	ND	4.6	ug/kg	0.41
Chloroform	ND	4.6	ug/kg	0.24
Chloromethane	ND	4.6	ug/kg	0.46
2-Chlorotoluene	ND	4.6	ug/kg	0.57
4-Chlorotoluene	ND	4.6	ug/kg	0.78
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.1	ug/kg	0.80
1,2-Dibromoethane (EDB)	ND	9.1	ug/kg	0.25
Dibromomethane	ND	4.6	ug/kg	0.53
1,2-Dichlorobenzene	ND	4.6	ug/kg	0.58
1,3-Dichlorobenzene	ND	4.6	ug/kg	0.27
1,4-Dichlorobenzene	ND	4.6	ug/kg	0.71
Dichlorodifluoromethane (Freon 12)	ND	4.6	ug/kg	0.81
1,1-Dichloroethane	ND	4.6	ug/kg	0.26
1,2-Dichloroethane	ND	4.6	ug/kg	0.67
cis-1,2-Dichloroethene	ND	4.6	ug/kg	0.81
trans-1,2-Dichloroethene	ND	4.6	ug/kg	0.35
1,1-Dichloroethene	ND	4.6	ug/kg	0.24
1,2-Dichloropropane	ND	4.6	ug/kg	0.55
1,3-Dichloropropane	ND	4.6	ug/kg	0.52
2,2-Dichloropropane	ND	4.6	ug/kg	0.35
cis-1,3-Dichloropropene	ND	4.6	ug/kg	0.58

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ERRG

Client Sample ID: SS-RP07

GC/MS Volatiles

Lot-Sample #...: G0K200425-007 **Work Order #...:** MAC5R1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.6	ug/kg	0.68
1,1-Dichloropropene	ND	4.6	ug/kg	0.34
Ethylbenzene	ND	4.6	ug/kg	0.31
Hexachlorobutadiene	ND	4.6	ug/kg	0.30
2-Hexanone	ND	9.1	ug/kg	0.68
Isopropylbenzene	ND	4.6	ug/kg	0.47
p-Isopropyltoluene	ND	4.6	ug/kg	0.57
Methylene chloride	ND	4.6	ug/kg	0.77
4-Methyl-2-pentanone (MIBK)	ND	9.1	ug/kg	0.84
Methyl tert-butyl ether (MTBE)	ND	4.6	ug/kg	0.55
Naphthalene	ND	4.6	ug/kg	0.57
n-Propylbenzene	ND	4.6	ug/kg	0.26
Styrene	ND		ug/kg	0.28
1,1,1,2-Tetrachloroethane	ND	4.6	ug/kg	0.37
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg	0.62
Tetrachloroethene	ND	4.6	ug/kg	0.56
Toluene	ND	4.6	ug/kg	0.56
1,2,3-Trichlorobenzene	ND	4.6	ug/kg	0.68
1,2,4-Trichloro-benzene	ND	4.6	ug/kg	0.68
1,1,1-Trichloroethane	ND	4.6	ug/kg	0.33
1,1,2-Trichloroethane	ND	4.6	ug/kg	0.40
Trichloroethene	ND	4.6	ug/kg	0.55
Trichlorofluoromethane (Freon 11)	ND	4.6	ug/kg	0.31
1,2,3-Trichloropropane	ND	4.6	ug/kg	0.69
1,2,4-Trimethylbenzene	ND	4.6	ug/kg	0.47
1,3,5-Trimethylbenzene	ND	4.6	ug/kg	0.32
Vinyl chloride	ND	4.6	ug/kg	0.33
m-Xylene & p-Xylene	ND	4.6	ug/kg	0.74
o-Xylene	ND	4.6	ug/kg	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(68 - 116)
1,2-Dichloroethane-d4	107	(59 - 130)
Toluene-d8	111	(85 - 115)
4-Bromofluorobenzene	82 *	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP08

GC/MS Volatiles

Lot-Sample #...: G0K200425-008 **Work Order #...:** MAC5T1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.81
% Moisture.....: 8.8 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	18	ug/kg	1.2
Benzene	ND	4.4	ug/kg	0.23
Bromobenzene	ND	4.4	ug/kg	0.46
Bromochloromethane	ND	4.4	ug/kg	0.83
Bromodichloromethane	ND	4.4	ug/kg	0.47
Bromoform	ND	4.4	ug/kg	0.36
Bromomethane	ND	4.4	ug/kg	0.76
2-Butanone (MEK)	ND	8.9	ug/kg	1.2
n-Butylbenzene	ND	4.4	ug/kg	0.59
sec-Butylbenzene	ND	4.4	ug/kg	0.67
tert-Butylbenzene	ND	4.4	ug/kg	0.48
Carbon disulfide	ND	8.9	ug/kg	0.43
Carbon tetrachloride	ND	4.4	ug/kg	0.47
Chlorobenzene	ND	4.4	ug/kg	0.26
Dibromochloromethane	ND	4.4	ug/kg	0.19
Chloroethane	ND	4.4	ug/kg	0.40
Chloroform	ND	4.4	ug/kg	0.23
Chloromethane	ND	4.4	ug/kg	0.44
2-Chlorotoluene	ND	4.4	ug/kg	0.55
4-Chlorotoluene	ND	4.4	ug/kg	0.76
1,2-Dibromo-3-chloropropane (DBCP)	ND	8.9	ug/kg	0.78
1,2-Dibromoethane (EDB)	ND	8.9	ug/kg	0.24
Dibromomethane	ND	4.4	ug/kg	0.51
1,2-Dichlorobenzene	ND	4.4	ug/kg	0.57
1,3-Dichlorobenzene	ND	4.4	ug/kg	0.27
1,4-Dichlorobenzene	ND	4.4	ug/kg	0.69
Dichlorodifluoromethane (Freon 12)	ND	4.4	ug/kg	0.79
1,1-Dichloroethane	ND	4.4	ug/kg	0.26
1,2-Dichloroethane	ND	4.4	ug/kg	0.65
cis-1,2-Dichloroethene	ND	4.4	ug/kg	0.79
trans-1,2-Dichloroethene	ND	4.4	ug/kg	0.34
1,1-Dichloroethene	ND	4.4	ug/kg	0.23
1,2-Dichloropropane	ND	4.4	ug/kg	0.53
1,3-Dichloropropane	ND	4.4	ug/kg	0.51
2,2-Dichloropropane	ND	4.4	ug/kg	0.34
cis-1,3-Dichloropropene	ND	4.4	ug/kg	0.57

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ERRG

Client Sample ID: SS-RP08

GC/MS Volatiles

Lot-Sample #...: G0K200425-008 **Work Order #...:** MAC5T1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.4	ug/kg	0.67
1,1-Dichloropropene	ND	4.4	ug/kg	0.33
Ethylbenzene	ND	4.4	ug/kg	0.30
Hexachlorobutadiene	ND	4.4	ug/kg	0.29
2-Hexanone	ND	8.9	ug/kg	0.66
Isopropylbenzene	ND	4.4	ug/kg	0.46
p-Isopropyltoluene	ND	4.4	ug/kg	0.56
Methylene chloride	ND	4.4	ug/kg	0.75
4-Methyl-2-pentanone (MIBK)	ND	8.9	ug/kg	0.82
Methyl tert-butyl ether (MTBE)	ND	4.4	ug/kg	0.53
Naphthalene	ND	4.4	ug/kg	0.56
n-Propylbenzene	ND	4.4	ug/kg	0.26
Styrene	ND	4.4	ug/kg	0.28
1,1,1,2-Tetrachloroethane	ND	4.4	ug/kg	0.36
1,1,2,2-Tetrachloroethane	ND	4.4	ug/kg	0.60
Tetrachloroethene	ND	4.4	ug/kg	0.54
Toluene	ND	4.4	ug/kg	0.54
1,2,3-Trichlorobenzene	ND	4.4	ug/kg	0.67
1,2,4-Trichloro-benzene	ND	4.4	ug/kg	0.67
1,1,1-Trichloroethane	ND	4.4	ug/kg	0.32
1,1,2-Trichloroethane	ND	4.4	ug/kg	0.39
Trichloroethene	ND	4.4	ug/kg	0.53
Trichlorofluoromethane (Freon 11)	ND	4.4	ug/kg	0.30
1,2,3-Trichloropropane	ND	4.4	ug/kg	0.67
1,2,4-Trimethylbenzene	ND	4.4	ug/kg	0.45
1,3,5-Trimethylbenzene	ND	4.4	ug/kg	0.31
Vinyl chloride	ND	4.4	ug/kg	0.32
m-Xylene & p-Xylene	ND	4.4	ug/kg	0.72
o-Xylene	ND	4.4	ug/kg	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(68 - 116)
1,2-Dichloroethane-d4	106	(59 - 130)
Toluene-d8	113	(85 - 115)
4-Bromofluorobenzene	87	(85 - 120)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP09

GC/MS Volatiles

Lot-Sample #...: G0K200425-009 **Work Order #...:** MAC5V1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.8
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethylbenzene	ND	4.6	ug/kg	0.31
Acetone	ND	18	ug/kg	1.3
Benzene	ND	4.6	ug/kg	0.24
Bromobenzene	ND	4.6	ug/kg	0.48
Bromochloromethane	ND	4.6	ug/kg	0.86
Bromodichloromethane	ND	4.6	ug/kg	0.49
Bromoform	ND	4.6	ug/kg	0.37
Bromomethane	ND	4.6	ug/kg	0.79
2-Butanone (MEK)	ND	9.2	ug/kg	1.3
n-Butylbenzene	ND	4.6	ug/kg	0.60
sec-Butylbenzene	ND	4.6	ug/kg	0.69
tert-Butylbenzene	ND	4.6	ug/kg	0.49
Carbon disulfide	ND	9.2	ug/kg	0.45
Carbon tetrachloride	ND	4.6	ug/kg	0.49
Chlorobenzene	ND	4.6	ug/kg	0.27
Dibromochloromethane	ND	4.6	ug/kg	0.19
Chloroethane	ND	4.6	ug/kg	0.41
Chloroform	ND	4.6	ug/kg	0.24
Chloromethane	ND	4.6	ug/kg	0.46
2-Chlorotoluene	ND	4.6	ug/kg	0.57
4-Chlorotoluene	ND	4.6	ug/kg	0.79
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.2	ug/kg	0.81
1,2-Dibromoethane (EDB)	ND	9.2	ug/kg	0.25
Dibromomethane	ND	4.6	ug/kg	0.53
1,2-Dichlorobenzene	ND	4.6	ug/kg	0.59
1,3-Dichlorobenzene	ND	4.6	ug/kg	0.27
1,4-Dichlorobenzene	ND	4.6	ug/kg	0.71
Dichlorodifluoromethane (Freon 12)	ND	4.6	ug/kg	0.82
1,1-Dichloroethane	ND	4.6	ug/kg	0.27
1,2-Dichloroethane	ND	4.6	ug/kg	0.67
cis-1,2-Dichloroethene	ND	4.6	ug/kg	0.82
trans-1,2-Dichloroethene	ND	4.6	ug/kg	0.35
1,1-Dichloroethene	ND	4.6	ug/kg	0.24
1,2-Dichloropropane	ND	4.6	ug/kg	0.55
1,3-Dichloropropane	ND	4.6	ug/kg	0.52
2,2-Dichloropropane	ND	4.6	ug/kg	0.35

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ERRG

Client Sample ID: SS-RP09

GC/MS Volatiles

Lot-Sample #...: G0K200425-009 **Work Order #...:** MAC5V1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	4.6	ug/kg	0.59
trans-1,3-Dichloropropene	ND	4.6	ug/kg	0.69
1,1-Dichloropropene	ND	4.6	ug/kg	0.34
Hexachlorobutadiene	ND	4.6	ug/kg	0.30
2-Hexanone	ND	9.2	ug/kg	0.68
Isopropylbenzene	ND	4.6	ug/kg	0.48
p-Isopropyltoluene	ND	4.6	ug/kg	0.58
Methylene chloride	ND	4.6	ug/kg	0.77
4-Methyl-2-pentanone (MIBK)	ND	9.2	ug/kg	0.84
Methyl tert-butyl ether (MTBE)	ND	4.6	ug/kg	0.55
Naphthalene	ND	4.6	ug/kg	0.58
n-Propylbenzene	ND	4.6	ug/kg	0.27
Styrene	ND		ug/kg	0.28
1,1,1,2-Tetrachloroethane	ND	4.6	ug/kg	0.38
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg	0.62
Tetrachloroethene	ND	4.6	ug/kg	0.56
Toluene	ND	4.6	ug/kg	0.56
1,2,3-Trichlorobenzene	ND	4.6	ug/kg	0.69
1,2,4-Trichloro-benzene	ND	4.6	ug/kg	0.69
1,1,1-Trichloroethane	ND	4.6	ug/kg	0.33
1,1,2-Trichloroethane	ND	4.6	ug/kg	0.40
Trichloroethene	ND	4.6	ug/kg	0.55
Trichlorofluoromethane (Freon 11)	ND	4.6	ug/kg	0.31
1,2,3-Trichloropropane	ND	4.6	ug/kg	0.70
1,2,4-Trimethylbenzene	ND	4.6	ug/kg	0.47
1,3,5-Trimethylbenzene	ND	4.6	ug/kg	0.32
Vinyl chloride	ND	4.6	ug/kg	0.33
m-Xylene & p-Xylene	ND	4.6	ug/kg	0.74
o-Xylene	ND	4.6	ug/kg	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(68 - 116)
1,2-Dichloroethane-d4	107	(59 - 130)
Toluene-d8	116 *	(85 - 115)
4-Bromofluorobenzene	88	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP10

GC/MS Volatiles

Lot-Sample #...: G0K200425-010 **Work Order #...:** MAC571AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.83
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**8.9 J**	**19**	**ug/kg**	**1.3**
Benzene	ND	4.8	ug/kg	0.25
Bromobenzene	ND	4.8	ug/kg	0.50
Bromochloromethane	ND	4.8	ug/kg	0.90
Bromodichloromethane	ND	4.8	ug/kg	0.51
Bromoform	ND	4.8	ug/kg	0.38
Bromomethane	ND	4.8	ug/kg	0.83
2-Butanone (MEK)	ND	9.6	ug/kg	1.3
n-Butylbenzene	ND	4.8	ug/kg	0.63
sec-Butylbenzene	ND	4.8	ug/kg	0.72
tert-Butylbenzene	ND	4.8	ug/kg	0.52
Carbon disulfide	ND	9.6	ug/kg	0.47
Carbon tetrachloride	ND	4.8	ug/kg	0.51
Chlorobenzene	ND	4.8	ug/kg	0.28
Dibromochloromethane	ND	4.8	ug/kg	0.20
Chloroethane	ND	4.8	ug/kg	0.43
Chloroform	ND	4.8	ug/kg	0.25
Chloromethane	ND	4.8	ug/kg	0.48
2-Chlorotoluene	ND	4.8	ug/kg	0.59
4-Chlorotoluene	ND	4.8	ug/kg	0.83
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.6	ug/kg	0.84
1,2-Dibromoethane (EDB)	ND	9.6	ug/kg	0.26
Dibromomethane	ND	4.8	ug/kg	0.56
1,2-Dichlorobenzene	ND	4.8	ug/kg	0.61
1,3-Dichlorobenzene	ND	4.8	ug/kg	0.29
1,4-Dichlorobenzene	ND	4.8	ug/kg	0.75
Dichlorodifluoromethane (Freon 12)	ND	4.8	ug/kg	0.85
1,1-Dichloroethane	ND	4.8	ug/kg	0.28
1,2-Dichloroethane	ND	4.8	ug/kg	0.70
cis-1,2-Dichloroethene	ND	4.8	ug/kg	0.85
trans-1,2-Dichloroethene	ND	4.8	ug/kg	0.36
1,1-Dichloroethene	ND	4.8	ug/kg	0.25
1,2-Dichloropropane	ND	4.8	ug/kg	0.58
1,3-Dichloropropane	ND	4.8	ug/kg	0.55
2,2-Dichloropropane	ND	4.8	ug/kg	0.36
cis-1,3-Dichloropropene	ND	4.8	ug/kg	0.61

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ERRG

Client Sample ID: SS-RP10

GC/MS Volatiles

Lot-Sample #...: G0K200425-010 **Work Order #...:** MAC571AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.8	ug/kg	0.72
1,1-Dichloropropene	ND	4.8	ug/kg	0.35
Ethylbenzene	ND	4.8	ug/kg	0.33
Hexachlorobutadiene	ND	4.8	ug/kg	0.32
2-Hexanone	ND	9.6	ug/kg	0.71
Isopropylbenzene	ND	4.8	ug/kg	0.50
p-Isopropyltoluene	ND	4.8	ug/kg	0.60
Methylene chloride	ND	4.8	ug/kg	0.81
4-Methyl-2-pentanone (MIBK)	ND	9.6	ug/kg	0.88
Methyl tert-butyl ether (MTBE)	ND	4.8	ug/kg	0.58
Naphthalene	ND	4.8	ug/kg	0.60
n-Propylbenzene	ND	4.8	ug/kg	0.28
Styrene	ND		ug/kg	0.30
1,1,1,2-Tetrachloroethane	ND	4.8	ug/kg	0.39
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	0.65
Tetrachloroethene	ND	4.8	ug/kg	0.59
Toluene	ND	4.8	ug/kg	0.59
1,2,3-Trichlorobenzene	ND	4.8	ug/kg	0.72
1,2,4-Trichloro-benzene	ND	4.8	ug/kg	0.72
1,1,1-Trichloroethane	ND	4.8	ug/kg	0.35
1,1,2-Trichloroethane	ND	4.8	ug/kg	0.42
Trichloroethene	ND	4.8	ug/kg	0.58
Trichlorofluoromethane (Freon 11)	ND	4.8	ug/kg	0.33
1,2,3-Trichloropropane	ND	4.8	ug/kg	0.73
1,2,4-Trimethylbenzene	ND	4.8	ug/kg	0.49
1,3,5-Trimethylbenzene	ND	4.8	ug/kg	0.34
Vinyl chloride	ND	4.8	ug/kg	0.35
m-Xylene & p-Xylene	ND	4.8	ug/kg	0.78
o-Xylene	ND	4.8	ug/kg	0.32

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(68 - 116)
1,2-Dichloroethane-d4	103	(59 - 130)
Toluene-d8	109	(85 - 115)
4-Bromofluorobenzene	76 *	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERRG

Client Sample ID: SS-RP11

GC/MS Volatiles

Lot-Sample #...: G0K200425-011 **Work Order #...:** MAC591AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.8
% Moisture.....: 12 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	18	ug/kg	1.3
Benzene	ND	4.6	ug/kg	0.24
Bromobenzene	ND	4.6	ug/kg	0.47
Bromochloromethane	ND	4.6	ug/kg	0.86
Bromodichloromethane	ND	4.6	ug/kg	0.48
Bromoform	ND	4.6	ug/kg	0.37
Bromomethane	ND	4.6	ug/kg	0.79
2-Butanone (MEK)	ND	9.1	ug/kg	1.3
n-Butylbenzene	ND	4.6	ug/kg	0.60
sec-Butylbenzene	ND	4.6	ug/kg	0.68
tert-Butylbenzene	ND	4.6	ug/kg	0.49
Carbon disulfide	ND	9.1	ug/kg	0.45
Carbon tetrachloride	ND	4.6	ug/kg	0.48
Chlorobenzene	ND	4.6	ug/kg	0.26
Dibromochloromethane	ND	4.6	ug/kg	0.19
Chloroethane	ND	4.6	ug/kg	0.41
Chloroform	ND	4.6	ug/kg	0.24
Chloromethane	ND	4.6	ug/kg	0.46
2-Chlorotoluene	ND	4.6	ug/kg	0.57
4-Chlorotoluene	ND	4.6	ug/kg	0.79
1,2-Dibromo-3-chloropropane (DBCP)	ND	9.1	ug/kg	0.80
1,2-Dibromoethane (EDB)	ND	9.1	ug/kg	0.25
Dibromomethane	ND	4.6	ug/kg	0.53
1,2-Dichlorobenzene	ND	4.6	ug/kg	0.58
1,3-Dichlorobenzene	ND	4.6	ug/kg	0.27
1,4-Dichlorobenzene	ND	4.6	ug/kg	0.71
Dichlorodifluoromethane (Freon 12)	ND	4.6	ug/kg	0.81
1,1-Dichloroethane	ND	4.6	ug/kg	0.26
1,2-Dichloroethane	ND	4.6	ug/kg	0.67
cis-1,2-Dichloroethene	ND	4.6	ug/kg	0.81
trans-1,2-Dichloroethene	ND	4.6	ug/kg	0.35
1,1-Dichloroethene	ND	4.6	ug/kg	0.24
1,2-Dichloropropane	ND	4.6	ug/kg	0.55
1,3-Dichloropropane	ND	4.6	ug/kg	0.52
2,2-Dichloropropane	ND	4.6	ug/kg	0.35
cis-1,3-Dichloropropene	ND	4.6	ug/kg	0.58

(Continued on next page)

ERRG

Client Sample ID: SS-RP11

GC/MS Volatiles

Lot-Sample #...: G0K200425-011 **Work Order #...:** MAC591AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.6	ug/kg	0.68
1,1-Dichloropropene	ND	4.6	ug/kg	0.34
Ethylbenzene	ND	4.6	ug/kg	0.31
Hexachlorobutadiene	ND	4.6	ug/kg	0.30
2-Hexanone	ND	9.1	ug/kg	0.68
Isopropylbenzene	ND	4.6	ug/kg	0.47
p-Isopropyltoluene	ND	4.6	ug/kg	0.58
Methylene chloride	ND	4.6	ug/kg	0.77
4-Methyl-2-pentanone (MIBK)	ND	9.1	ug/kg	0.84
Methyl tert-butyl ether (MTBE)	ND	4.6	ug/kg	0.55
Naphthalene	ND	4.6	ug/kg	0.58
n-Propylbenzene	ND	4.6	ug/kg	0.26
Styrene	ND		ug/kg	0.28
1,1,1,2-Tetrachloroethane	ND	4.6	ug/kg	0.37
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg	0.62
Tetrachloroethene	ND	4.6	ug/kg	0.56
Toluene	ND	4.6	ug/kg	0.56
1,2,3-Trichlorobenzene	ND	4.6	ug/kg	0.68
1,2,4-Trichloro-benzene	ND	4.6	ug/kg	0.68
1,1,1-Trichloroethane	ND	4.6	ug/kg	0.33
1,1,2-Trichloroethane	ND	4.6	ug/kg	0.40
Trichloroethene	ND	4.6	ug/kg	0.55
Trichlorofluoromethane (Freon 11)	ND	4.6	ug/kg	0.31
1,2,3-Trichloropropane	ND	4.6	ug/kg	0.69
1,2,4-Trimethylbenzene	ND	4.6	ug/kg	0.47
1,3,5-Trimethylbenzene	ND	4.6	ug/kg	0.32
Vinyl chloride	ND	4.6	ug/kg	0.33
m-Xylene & p-Xylene	ND	4.6	ug/kg	0.74
o-Xylene	ND	4.6	ug/kg	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(68 - 116)
1,2-Dichloroethane-d4	104	(59 - 130)
Toluene-d8	112	(85 - 115)
4-Bromofluorobenzene	86	(85 - 120)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP12

GC/MS Volatiles

Lot-Sample #...: G0K200425-012 **Work Order #...:** MAC6C1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.76
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	17	ug/kg	1.2
Benzene	ND	4.3	ug/kg	0.22
Bromobenzene	ND	4.3	ug/kg	0.45
Bromochloromethane	ND	4.3	ug/kg	0.81
Bromodichloromethane	ND	4.3	ug/kg	0.45
Bromoform	ND	4.3	ug/kg	0.34
Bromomethane	ND	4.3	ug/kg	0.74
2-Butanone (MEK)	ND	8.6	ug/kg	1.2
n-Butylbenzene	ND	4.3	ug/kg	0.57
sec-Butylbenzene	ND	4.3	ug/kg	0.64
tert-Butylbenzene	ND	4.3	ug/kg	0.46
Carbon disulfide	ND	8.6	ug/kg	0.42
Carbon tetrachloride	ND	4.3	ug/kg	0.45
Chlorobenzene	ND	4.3	ug/kg	0.25
Dibromochloromethane	ND	4.3	ug/kg	0.18
Chloroethane	ND	4.3	ug/kg	0.39
Chloroform	ND	4.3	ug/kg	0.22
Chloromethane	ND	4.3	ug/kg	0.43
2-Chlorotoluene	ND	4.3	ug/kg	0.53
4-Chlorotoluene	ND	4.3	ug/kg	0.74
1,2-Dibromo-3-chloropropane (DBCP)	ND	8.6	ug/kg	0.75
1,2-Dibromoethane (EDB)	ND	8.6	ug/kg	0.23
Dibromomethane	ND	4.3	ug/kg	0.50
1,2-Dichlorobenzene	ND	4.3	ug/kg	0.55
1,3-Dichlorobenzene	ND	4.3	ug/kg	0.26
1,4-Dichlorobenzene	ND	4.3	ug/kg	0.67
Dichlorodifluoromethane (Freon 12)	ND	4.3	ug/kg	0.76
1,1-Dichloroethane	ND	4.3	ug/kg	0.25
1,2-Dichloroethane	ND	4.3	ug/kg	0.63
cis-1,2-Dichloroethene	ND	4.3	ug/kg	0.76
trans-1,2-Dichloroethene	ND	4.3	ug/kg	0.33
1,1-Dichloroethene	ND	4.3	ug/kg	0.22
1,2-Dichloropropane	ND	4.3	ug/kg	0.51
1,3-Dichloropropane	ND	4.3	ug/kg	0.49
2,2-Dichloropropane	ND	4.3	ug/kg	0.33
cis-1,3-Dichloropropene	ND	4.3	ug/kg	0.55

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ERRG

Client Sample ID: SS-RP12

GC/MS Volatiles

Lot-Sample #...: G0K200425-012 **Work Order #...:** MAC6C1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
trans-1,3-Dichloropropene	ND	4.3	ug/kg	0.64
1,1-Dichloropropene	ND	4.3	ug/kg	0.32
Ethylbenzene	ND	4.3	ug/kg	0.29
Hexachlorobutadiene	ND	4.3	ug/kg	0.28
2-Hexanone	ND	8.6	ug/kg	0.63
Isopropylbenzene	ND	4.3	ug/kg	0.45
p-Isopropyltoluene	ND	4.3	ug/kg	0.54
Methylene chloride	ND	4.3	ug/kg	0.72
4-Methyl-2-pentanone (MIBK)	ND	8.6	ug/kg	0.79
Methyl tert-butyl ether (MTBE)	ND	4.3	ug/kg	0.51
Naphthalene	ND	4.3	ug/kg	0.54
n-Propylbenzene	ND	4.3	ug/kg	0.25
Styrene	ND		ug/kg	0.27
1,1,1,2-Tetrachloroethane	ND	4.3	ug/kg	0.35
1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	0.58
Tetrachloroethene	ND	4.3	ug/kg	0.52
Toluene	ND	4.3	ug/kg	0.52
1,2,3-Trichlorobenzene	ND	4.3	ug/kg	0.64
1,2,4-Trichloro-benzene	ND	4.3	ug/kg	0.64
1,1,1-Trichloroethane	ND	4.3	ug/kg	0.31
1,1,2-Trichloroethane	ND	4.3	ug/kg	0.38
Trichloroethene	ND	4.3	ug/kg	0.51
Trichlorofluoromethane (Freon 11)	ND	4.3	ug/kg	0.29
1,2,3-Trichloropropane	ND	4.3	ug/kg	0.65
1,2,4-Trimethylbenzene	ND	4.3	ug/kg	0.44
1,3,5-Trimethylbenzene	ND	4.3	ug/kg	0.30
Vinyl chloride	ND	4.3	ug/kg	0.31
m-Xylene & p-Xylene	ND	4.3	ug/kg	0.69
o-Xylene	ND	4.3	ug/kg	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	117 *	(68 - 116)
1,2-Dichloroethane-d4	128	(59 - 130)
Toluene-d8	124 *	(85 - 115)
4-Bromofluorobenzene	65 *	(85 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	SW846 8260B		0325062	0325027
002	SO	SW846 8260B		0325062	0325027
003	SO	SW846 8260B		0325062	0325027
004	SO	SW846 8260B		0325062	0325027
005	SO	SW846 8260B		0325062	0325027
006	SO	SW846 8260B		0325062	0325027
	SO	SW846 8270C		0324068	0324035
007	SO	SW846 8260B		0325062	0325027
008	SO	SW846 8260B		0325062	0325027
009	SO	SW846 8260B		0325062	0325027
010	SO	SW846 8260B		0325062	0325027
011	SO	SW846 8260B		0325062	0325027
012	SO	SW846 8260B		0325062	0325027

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AA **Matrix.....:** SOLID
MB Lot-Sample #: G0K210000-062

Prep Date.....: 11/20/10
Analysis Date..: 11/20/10 **Prep Batch #...:** 0325062
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	10	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
Dibromomethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	10	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Naphthalene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND		ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane (EDB)	ND	10	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	10	ug/kg	SW846 8260B
4-Methyl-2-pentanone (MIBK)	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane (Freon 11)	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(68 - 116)
1,2-Dichloroethane-d4	110	(59 - 130)
Toluene-d8	113	(85 - 115)
4-Bromofluorobenzene	96	(85 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 Work Order #...: MADNQ1AC Matrix.....: SOLID
LCS Lot-Sample#: G0K210000-062
Prep Date.....: 11/20/10 Analysis Date..: 11/20/10
Prep Batch #...: 0325062
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1,1,2-Tetrachloroethane	90	(75 - 125)	SW846 8260B
1,1,1-Trichloroethane	90	(70 - 135)	SW846 8260B
1,1,2,2-Tetrachloroethane	104	(55 - 130)	SW846 8260B
1,1,2-Trichloroethane	96	(60 - 125)	SW846 8260B
1,1-Dichloroethane	92	(75 - 125)	SW846 8260B
1,1-Dichloroethene	84	(65 - 135)	SW846 8260B
1,1-Dichloropropene	85	(70 - 135)	SW846 8260B
1,2,3-Trichlorobenzene	96	(60 - 135)	SW846 8260B
1,2,3-Trichloropropane	103	(65 - 130)	SW846 8260B
1,2,4-Trichloro-benzene	94	(65 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	99	(65 - 135)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	92	(40 - 135)	SW846 8260B
1,2-Dibromoethane (EDB)	91	(70 - 125)	SW846 8260B
1,2-Dichlorobenzene	92	(75 - 120)	SW846 8260B
1,2-Dichloroethane	94	(70 - 135)	SW846 8260B
1,2-Dichloropropane	95	(70 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	99	(65 - 135)	SW846 8260B
1,3-Dichlorobenzene	90	(70 - 125)	SW846 8260B
1,3-Dichloropropane	93	(75 - 125)	SW846 8260B
1,4-Dichlorobenzene	87	(70 - 125)	SW846 8260B
2,2-Dichloropropane	99	(65 - 135)	SW846 8260B
2-Butanone (MEK)	94	(30 - 160)	SW846 8260B
2-Chlorotoluene	100	(70 - 130)	SW846 8260B
2-Hexanone	97	(45 - 145)	SW846 8260B
4-Chlorotoluene	95	(75 - 125)	SW846 8260B
4-Methyl-2-pentanone (MIBK)	90	(45 - 145)	SW846 8260B
Acetone	105	(20 - 160)	SW846 8260B
Benzene	90	(75 - 125)	SW846 8260B
Bromobenzene	95	(65 - 120)	SW846 8260B
Bromochloromethane	96	(70 - 125)	SW846 8260B
Bromodichloromethane	96	(70 - 130)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K210000-062

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Bromoform	91	(55 - 135)	SW846 8260B
Bromomethane	95	(30 - 160)	SW846 8260B
Carbon disulfide	103	(45 - 160)	SW846 8260B
Carbon tetrachloride	88	(65 - 135)	SW846 8260B
Chlorobenzene	84	(75 - 125)	SW846 8260B
Dibromochloromethane	94	(65 - 130)	SW846 8260B
Chloroethane	94	(40 - 155)	SW846 8260B
Chloroform	93	(70 - 125)	SW846 8260B
Chloromethane	89	(50 - 130)	SW846 8260B
cis-1,2-Dichloroethene	94	(65 - 125)	SW846 8260B
cis-1,3-Dichloropropene	91	(70 - 125)	SW846 8260B
Dibromomethane	94	(75 - 130)	SW846 8260B
Dichlorodifluoromethane (Freon 12)	68	(35 - 135)	SW846 8260B
Ethylbenzene	87	(75 - 125)	SW846 8260B
Hexachlorobutadiene	97	(55 - 140)	SW846 8260B
Isopropylbenzene	92	(75 - 130)	SW846 8260B
m-Xylene & p-Xylene	88	(80 - 125)	SW846 8260B
Methylene chloride	93	(55 - 140)	SW846 8260B
Naphthalene	74	(40 - 125)	SW846 8260B
n-Butylbenzene	100	(65 - 140)	SW846 8260B
n-Propylbenzene	105	(65 - 135)	SW846 8260B
o-Xylene	90	(75 - 125)	SW846 8260B
p-Isopropyltoluene	98	(75 - 135)	SW846 8260B
sec-Butylbenzene	101	(65 - 130)	SW846 8260B
Styrene	87	(75 - 125)	SW846 8260B
tert-Butylbenzene	91	(65 - 130)	SW846 8260B
Tetrachloroethene	83	(65 - 140)	SW846 8260B
Toluene	92	(70 - 125)	SW846 8260B
trans-1,2-Dichloroethene	90	(65 - 135)	SW846 8260B
trans-1,3-Dichloropropene	94	(65 - 125)	SW846 8260B
Trichloroethene	86	(75 - 125)	SW846 8260B
Trichlorofluoromethane (Freon 11)	88	(25 - 185)	SW846 8260B
Vinyl chloride	91	(60 - 125)	SW846 8260B
Methyl tert-butyl ether (MTBE)	108	(66 - 146)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K210000-062

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(68 - 116)
1,2-Dichloroethane-d4	100	(59 - 130)
Toluene-d8	112	(85 - 115)
4-Bromofluorobenzene	96	(85 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K210000-062
Prep Date.....: 11/20/10 **Analysis Date..:** 11/20/10
Prep Batch #...: 0325062
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1,1,2-Tetrachloroethane	40.0	36.0	ug/kg	90	SW846 8260B
1,1,1-Trichloroethane	40.0	36.0	ug/kg	90	SW846 8260B
1,1,2,2-Tetrachloroethane	40.0	41.7	ug/kg	104	SW846 8260B
1,1,2-Trichloroethane	40.0	38.5	ug/kg	96	SW846 8260B
1,1-Dichloroethane	40.0	36.9	ug/kg	92	SW846 8260B
1,1-Dichloroethene	40.0	33.4	ug/kg	84	SW846 8260B
1,1-Dichloropropene	40.0	33.9	ug/kg	85	SW846 8260B
1,2,3-Trichlorobenzene	40.0	38.4	ug/kg	96	SW846 8260B
1,2,3-Trichloropropane	40.0	41.0	ug/kg	103	SW846 8260B
1,2,4-Trichloro-benzene	40.0	37.5	ug/kg	94	SW846 8260B
1,2,4-Trimethylbenzene	40.0	39.8	ug/kg	99	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	40.0	36.6	ug/kg	92	SW846 8260B
1,2-Dibromoethane (EDB)	40.0	36.3	ug/kg	91	SW846 8260B
1,2-Dichlorobenzene	40.0	36.7	ug/kg	92	SW846 8260B
1,2-Dichloroethane	40.0	37.7	ug/kg	94	SW846 8260B
1,2-Dichloropropane	40.0	37.9	ug/kg	95	SW846 8260B
1,3,5-Trimethylbenzene	40.0	39.7	ug/kg	99	SW846 8260B
1,3-Dichlorobenzene	40.0	35.9	ug/kg	90	SW846 8260B
1,3-Dichloropropane	40.0	37.2	ug/kg	93	SW846 8260B
1,4-Dichlorobenzene	40.0	34.9	ug/kg	87	SW846 8260B
2,2-Dichloropropane	40.0	39.8	ug/kg	99	SW846 8260B
2-Butanone (MEK)	40.0	37.6	ug/kg	94	SW846 8260B
2-Chlorotoluene	40.0	40.1	ug/kg	100	SW846 8260B
2-Hexanone	40.0	38.7	ug/kg	97	SW846 8260B
4-Chlorotoluene	40.0	38.1	ug/kg	95	SW846 8260B
4-Methyl-2-pentanone (MIBK)	40.0	36.1	ug/kg	90	SW846 8260B
Acetone	40.0	42.1	ug/kg	105	SW846 8260B
Benzene	40.0	36.1	ug/kg	90	SW846 8260B
Bromobenzene	40.0	38.1	ug/kg	95	SW846 8260B
Bromochloromethane	40.0	38.3	ug/kg	96	SW846 8260B
Bromodichloromethane	40.0	38.4	ug/kg	96	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K210000-062

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Bromoform	40.0	36.3	ug/kg	91	SW846 8260B
Bromomethane	40.0	38.2	ug/kg	95	SW846 8260B
Carbon disulfide	40.0	41.0	ug/kg	103	SW846 8260B
Carbon tetrachloride	40.0	35.4	ug/kg	88	SW846 8260B
Chlorobenzene	40.0	33.8	ug/kg	84	SW846 8260B
Dibromochloromethane	40.0	37.8	ug/kg	94	SW846 8260B
Chloroethane	40.0	37.7	ug/kg	94	SW846 8260B
Chloroform	40.0	37.0	ug/kg	93	SW846 8260B
Chloromethane	40.0	35.6	ug/kg	89	SW846 8260B
cis-1,2-Dichloroethene	40.0	37.7	ug/kg	94	SW846 8260B
cis-1,3-Dichloropropene	40.0	36.5	ug/kg	91	SW846 8260B
Dibromomethane	40.0	37.6	ug/kg	94	SW846 8260B
Dichlorodifluoromethane (Freon 12)	40.0	27.3	ug/kg	68	SW846 8260B
Ethylbenzene	40.0	34.9	ug/kg	87	SW846 8260B
Hexachlorobutadiene	40.0	38.7	ug/kg	97	SW846 8260B
Isopropylbenzene	40.0	36.6	ug/kg	92	SW846 8260B
m-Xylene & p-Xylene	80.0	70.7	ug/kg	88	SW846 8260B
Methylene chloride	40.0	37.3	ug/kg	93	SW846 8260B
Naphthalene	40.0	29.5	ug/kg	74	SW846 8260B
n-Butylbenzene	40.0	40.0	ug/kg	100	SW846 8260B
n-Propylbenzene	40.0	41.9	ug/kg	105	SW846 8260B
o-Xylene	40.0	36.1	ug/kg	90	SW846 8260B
p-Isopropyltoluene	40.0	39.4	ug/kg	98	SW846 8260B
sec-Butylbenzene	40.0	40.4	ug/kg	101	SW846 8260B
Styrene	40.0	34.8	ug/kg	87	SW846 8260B
tert-Butylbenzene	40.0	36.2	ug/kg	91	SW846 8260B
Tetrachloroethene	40.0	33.4	ug/kg	83	SW846 8260B
Toluene	40.0	36.8	ug/kg	92	SW846 8260B
trans-1,2-Dichloroethene	40.0	35.9	ug/kg	90	SW846 8260B
trans-1,3-Dichloropropene	40.0	37.6	ug/kg	94	SW846 8260B
Trichloroethene	40.0	34.2	ug/kg	86	SW846 8260B
Trichlorofluoromethane (Freon 11)	40.0	35.3	ug/kg	88	SW846 8260B
Vinyl chloride	40.0	36.4	ug/kg	91	SW846 8260B
Methyl tert-butyl ether (MTBE)	40.0	43.1	ug/kg	108	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MADNQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K210000-062

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(68 - 116)
1,2-Dichloroethane-d4	100	(59 - 130)
Toluene-d8	112	(85 - 115)
4-Bromofluorobenzene	96	(85 - 120)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 Work Order #...: MAC5T1AD-MS Matrix.....: SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD
Date Sampled...: 11/19/10 Date Received..: 11/20/10
Prep Date.....: 11/20/10 Analysis Date..: 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.87

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,1,2-Tetrachloroethane	95	(75 - 125)			SW846 8260B
	87	(75 - 125)	18	(0-30)	SW846 8260B
1,1,1-Trichloroethane	104	(70 - 135)			SW846 8260B
	94	(70 - 135)	20	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	111	(55 - 130)			SW846 8260B
	100	(55 - 130)	20	(0-30)	SW846 8260B
1,1,2-Trichloroethane	83	(60 - 125)			SW846 8260B
	77	(60 - 125)	17	(0-30)	SW846 8260B
1,1-Dichloroethane	103	(75 - 125)			SW846 8260B
	92	(75 - 125)	21	(0-30)	SW846 8260B
1,1-Dichloroethene	94	(65 - 135)			SW846 8260B
	84	(65 - 135)	21	(0-30)	SW846 8260B
1,1-Dichloropropene	81	(70 - 135)			SW846 8260B
	72	(70 - 135)	21	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	40 a	(60 - 135)			SW846 8260B
	42 a	(60 - 135)	4.4	(0-30)	SW846 8260B
1,2,3-Trichloropropane	113	(65 - 130)			SW846 8260B
	99	(65 - 130)	22	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	40 a	(65 - 130)			SW846 8260B
	42 a	(65 - 130)	5.3	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	96	(65 - 135)			SW846 8260B
	86	(65 - 135)	20	(0-30)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	85	(40 - 135)			SW846 8260B
	82	(40 - 135)	13	(0-30)	SW846 8260B
1,2-Dibromoethane (EDB)	74	(70 - 125)			SW846 8260B
	71	(70 - 125)	14	(0-30)	SW846 8260B
1,2-Dichlorobenzene	80	(75 - 120)			SW846 8260B
	74 a	(75 - 120)	17	(0-30)	SW846 8260B
1,2-Dichloroethane	84	(70 - 135)			SW846 8260B
	77	(70 - 135)	17	(0-30)	SW846 8260B
1,2-Dichloropropane	93	(70 - 120)			SW846 8260B
	84	(70 - 120)	20	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	96	(65 - 135)			SW846 8260B
	88	(65 - 135)	19	(0-30)	SW846 8260B
1,3-Dichlorobenzene	79	(70 - 125)			SW846 8260B
	72	(70 - 125)	18	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichloropropane	83	(75 - 125)			SW846 8260B
	78	(75 - 125)	16	(0-30)	SW846 8260B
1,4-Dichlorobenzene	75	(70 - 125)			SW846 8260B
	69 a	(70 - 125)	18	(0-30)	SW846 8260B
2,2-Dichloropropane	113	(65 - 135)			SW846 8260B
	102	(65 - 135)	20	(0-30)	SW846 8260B
2-Butanone (MEK)	63	(30 - 160)			SW846 8260B
	60	(30 - 160)	15	(0-30)	SW846 8260B
2-Chlorotoluene	108	(70 - 130)			SW846 8260B
	95	(70 - 130)	22	(0-30)	SW846 8260B
2-Hexanone	62	(45 - 145)			SW846 8260B
	60	(45 - 145)	12	(0-30)	SW846 8260B
4-Chlorotoluene	95	(75 - 125)			SW846 8260B
	86	(75 - 125)	20	(0-30)	SW846 8260B
4-Methyl-2-pentanone (MIBK)	66	(45 - 145)			SW846 8260B
	62	(45 - 145)	16	(0-30)	SW846 8260B
Acetone	85	(20 - 160)			SW846 8260B
	77	(20 - 160)	19	(0-30)	SW846 8260B
Benzene	95	(75 - 125)			SW846 8260B
	86	(75 - 125)	19	(0-30)	SW846 8260B
Bromobenzene	101	(65 - 120)			SW846 8260B
	90	(65 - 120)	21	(0-30)	SW846 8260B
Bromochloromethane	90	(70 - 125)			SW846 8260B
	83	(70 - 125)	17	(0-30)	SW846 8260B
Bromodichloromethane	89	(70 - 130)			SW846 8260B
	83	(70 - 130)	16	(0-30)	SW846 8260B
Bromoform	76	(55 - 135)			SW846 8260B
	74	(55 - 135)	13	(0-30)	SW846 8260B
Bromomethane	108	(30 - 160)			SW846 8260B
	95	(30 - 160)	22	(0-30)	SW846 8260B
Carbon disulfide	88	(45 - 160)			SW846 8260B
	84	(45 - 160)	14	(0-30)	SW846 8260B
Carbon tetrachloride	99	(65 - 135)			SW846 8260B
	88	(65 - 135)	21	(0-30)	SW846 8260B
Chlorobenzene	81	(75 - 125)			SW846 8260B
	75	(75 - 125)	18	(0-30)	SW846 8260B
Dibromochloromethane	88	(65 - 130)			SW846 8260B
	82	(65 - 130)	17	(0-30)	SW846 8260B
Chloroethane	115	(40 - 155)			SW846 8260B
	101	(40 - 155)	23	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Chloroform	97	(70 - 125)			SW846 8260B
	89	(70 - 125)	18	(0-30)	SW846 8260B
Chloromethane	105	(50 - 130)			SW846 8260B
	93	(50 - 130)	21	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	95	(65 - 125)			SW846 8260B
	86	(65 - 125)	19	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	71	(70 - 125)			SW846 8260B
	66 a	(70 - 125)	16	(0-30)	SW846 8260B
Dibromomethane	78	(75 - 130)			SW846 8260B
	74 a	(75 - 130)	15	(0-30)	SW846 8260B
Dichlorodifluoromethane (Freon 12)	79	(35 - 135)			SW846 8260B
	73	(35 - 135)	18	(0-30)	SW846 8260B
Ethylbenzene	87	(75 - 125)			SW846 8260B
	79	(75 - 125)	20	(0-30)	SW846 8260B
Hexachlorobutadiene	39 a	(55 - 140)			SW846 8260B
	42 a	(55 - 140)	0.89	(0-30)	SW846 8260B
Isopropylbenzene	80	(75 - 130)			SW846 8260B
	75	(75 - 130)	15	(0-30)	SW846 8260B
m-Xylene & p-Xylene	86	(80 - 125)			SW846 8260B
	79 a	(80 - 125)	18	(0-30)	SW846 8260B
Methylene chloride	99	(55 - 140)			SW846 8260B
	88	(55 - 140)	21	(0-30)	SW846 8260B
Naphthalene	35 a	(40 - 125)			SW846 8260B
	36 a	(40 - 125)	6.6	(0-30)	SW846 8260B
n-Butylbenzene	64 a	(65 - 140)			SW846 8260B
	65	(65 - 140)	7.7	(0-30)	SW846 8260B
n-Propylbenzene	103	(65 - 135)			SW846 8260B
	94	(65 - 135)	19	(0-30)	SW846 8260B
o-Xylene	88	(75 - 125)			SW846 8260B
	80	(75 - 125)	19	(0-30)	SW846 8260B
p-Isopropyltoluene	76	(75 - 135)			SW846 8260B
	72 a	(75 - 135)	15	(0-30)	SW846 8260B
sec-Butylbenzene	80	(65 - 130)			SW846 8260B
	77	(65 - 130)	13	(0-30)	SW846 8260B
Styrene	78	(75 - 125)			SW846 8260B
	71 a	(75 - 125)	18	(0-30)	SW846 8260B
tert-Butylbenzene	79	(65 - 130)			SW846 8260B
	75	(65 - 130)	15	(0-30)	SW846 8260B
Tetrachloroethene	81	(65 - 140)			SW846 8260B
	72	(65 - 140)	20	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Toluene	**93**	**(70 - 125)**			**SW846 8260B**
	82	**(70 - 125)**	**22**	**(0-30)**	**SW846 8260B**
trans-1,2-Dichloroethene	**95**	**(65 - 135)**			**SW846 8260B**
	85	**(65 - 135)**	**21**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**70**	**(65 - 125)**			**SW846 8260B**
	65	**(65 - 125)**	**17**	**(0-30)**	**SW846 8260B**
Trichloroethene	**80**	**(75 - 125)**			**SW846 8260B**
	72 a	**(75 - 125)**	**19**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane (Freon 11)	**99**	**(25 - 185)**			**SW846 8260B**
	92	**(25 - 185)**	**17**	**(0-30)**	**SW846 8260B**
Vinyl chloride	**110**	**(60 - 125)**			**SW846 8260B**
	99	**(60 - 125)**	**20**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**90**	**(66 - 146)**			**SW846 8260B**
	91	**(66 - 146)**	**8.5**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(68 - 116)
	94	(68 - 116)
1,2-Dichloroethane-d4	88	(59 - 130)
	85	(59 - 130)
Toluene-d8	108	(85 - 115)
	104	(85 - 115)
4-Bromofluorobenzene	83 *	(85 - 120)
	85	(85 - 120)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0325062
Dilution Factor: 0.87

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,1,2-Tetrachloroethane	ND	38.1	36.2	ug/kg	95		SW846 8260B
	ND	34.6	30.1	ug/kg	87	18	SW846 8260B
1,1,1-Trichloroethane	ND	38.1	39.6	ug/kg	104		SW846 8260B
	ND	34.6	32.4	ug/kg	94	20	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	38.1	42.4	ug/kg	111		SW846 8260B
	ND	34.6	34.8	ug/kg	100	20	SW846 8260B
1,1,2-Trichloroethane	ND	38.1	31.8	ug/kg	83		SW846 8260B
	ND	34.6	26.8	ug/kg	77	17	SW846 8260B
1,1-Dichloroethane	ND	38.1	39.2	ug/kg	103		SW846 8260B
	ND	34.6	31.9	ug/kg	92	21	SW846 8260B
1,1-Dichloroethene	ND	38.1	35.9	ug/kg	94		SW846 8260B
	ND	34.6	29.1	ug/kg	84	21	SW846 8260B
1,1-Dichloropropene	ND	38.1	30.9	ug/kg	81		SW846 8260B
	ND	34.6	25.1	ug/kg	72	21	SW846 8260B
1,2,3-Trichlorobenzene	ND	38.1	15.4	ug/kg	40 a		SW846 8260B
	ND	34.6	14.7	ug/kg	42 a	4.4	SW846 8260B
1,2,3-Trichloropropane	ND	38.1	43.0	ug/kg	113		SW846 8260B
	ND	34.6	34.3	ug/kg	99	22	SW846 8260B
1,2,4-Trichloro-benzene	ND	38.1	15.3	ug/kg	40 a		SW846 8260B
	ND	34.6	14.5	ug/kg	42 a	5.3	SW846 8260B
1,2,4-Trimethylbenzene	ND	38.1	36.5	ug/kg	96		SW846 8260B
	ND	34.6	29.9	ug/kg	86	20	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	38.1	32.4	ug/kg	85		SW846 8260B
	ND	34.6	28.4	ug/kg	82	13	SW846 8260B
1,2-Dibromoethane (EDB)	ND	38.1	28.3	ug/kg	74		SW846 8260B
	ND	34.6	24.6	ug/kg	71	14	SW846 8260B
1,2-Dichlorobenzene	ND	38.1	30.5	ug/kg	80		SW846 8260B
	ND	34.6	25.8	ug/kg	74 a	17	SW846 8260B
1,2-Dichloroethane	ND	38.1	31.9	ug/kg	84		SW846 8260B
	ND	34.6	26.8	ug/kg	77	17	SW846 8260B
1,2-Dichloropropane	ND	38.1	35.6	ug/kg	93		SW846 8260B
	ND	34.6	29.2	ug/kg	84	20	SW846 8260B
1,3,5-Trimethylbenzene	ND	38.1	36.6	ug/kg	96		SW846 8260B
	ND	34.6	30.3	ug/kg	88	19	SW846 8260B
1,3-Dichlorobenzene	ND	38.1	30.0	ug/kg	79		SW846 8260B
	ND	34.6	25.0	ug/kg	72	18	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,3-Dichloropropane	ND	38.1	31.8	ug/kg	83		SW846 8260B
	ND	34.6	26.9	ug/kg	78	16	SW846 8260B
1,4-Dichlorobenzene	ND	38.1	28.6	ug/kg	75		SW846 8260B
	ND	34.6	23.9	ug/kg	69 a	18	SW846 8260B
2,2-Dichloropropane	ND	38.1	43.0	ug/kg	113		SW846 8260B
	ND	34.6	35.2	ug/kg	102	20	SW846 8260B
2-Butanone (MEK)	ND	38.1	24.2	ug/kg	63		SW846 8260B
	ND	34.6	20.8	ug/kg	60	15	SW846 8260B
2-Chlorotoluene	ND	38.1	41.1	ug/kg	108		SW846 8260B
	ND	34.6	33.0	ug/kg	95	22	SW846 8260B
2-Hexanone	ND	38.1	23.5	ug/kg	62		SW846 8260B
	ND	34.6	20.8	ug/kg	60	12	SW846 8260B
4-Chlorotoluene	ND	38.1	36.4	ug/kg	95		SW846 8260B
	ND	34.6	29.7	ug/kg	86	20	SW846 8260B
4-Methyl-2-pentanone (MIBK)	ND	38.1	25.1	ug/kg	66		SW846 8260B
	ND	34.6	21.3	ug/kg	62	16	SW846 8260B
Acetone	ND	38.1	32.3	ug/kg	85		SW846 8260B
	ND	34.6	26.6	ug/kg	77	19	SW846 8260B
Benzene	ND	38.1	36.0	ug/kg	95		SW846 8260B
	ND	34.6	29.7	ug/kg	86	19	SW846 8260B
Bromobenzene	ND	38.1	38.6	ug/kg	101		SW846 8260B
	ND	34.6	31.2	ug/kg	90	21	SW846 8260B
Bromochloromethane	ND	38.1	34.2	ug/kg	90		SW846 8260B
	ND	34.6	28.8	ug/kg	83	17	SW846 8260B
Bromodichloromethane	ND	38.1	34.0	ug/kg	89		SW846 8260B
	ND	34.6	28.9	ug/kg	83	16	SW846 8260B
Bromoform	ND	38.1	29.0	ug/kg	76		SW846 8260B
	ND	34.6	25.5	ug/kg	74	13	SW846 8260B
Bromomethane	ND	38.1	41.2	ug/kg	108		SW846 8260B
	ND	34.6	33.0	ug/kg	95	22	SW846 8260B
Carbon disulfide	ND	38.1	33.4	ug/kg	88		SW846 8260B
	ND	34.6	29.2	ug/kg	84	14	SW846 8260B
Carbon tetrachloride	ND	38.1	37.8	ug/kg	99		SW846 8260B
	ND	34.6	30.6	ug/kg	88	21	SW846 8260B
Chlorobenzene	ND	38.1	31.0	ug/kg	81		SW846 8260B
	ND	34.6	25.8	ug/kg	75	18	SW846 8260B
Dibromochloromethane	ND	38.1	33.6	ug/kg	88		SW846 8260B
	ND	34.6	28.3	ug/kg	82	17	SW846 8260B
Chloroethane	ND	38.1	43.9	ug/kg	115		SW846 8260B
	ND	34.6	35.0	ug/kg	101	23	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Chloroform	ND	38.1	37.0	ug/kg	97		SW846 8260B
	ND	34.6	30.8	ug/kg	89	18	SW846 8260B
Chloromethane	ND	38.1	39.9	ug/kg	105		SW846 8260B
	ND	34.6	32.2	ug/kg	93	21	SW846 8260B
cis-1,2-Dichloroethene	ND	38.1	36.2	ug/kg	95		SW846 8260B
	ND	34.6	29.8	ug/kg	86	19	SW846 8260B
cis-1,3-Dichloropropene	ND	38.1	27.1	ug/kg	71		SW846 8260B
	ND	34.6	23.0	ug/kg	66 a	16	SW846 8260B
Dibromomethane	ND	38.1	29.9	ug/kg	78		SW846 8260B
	ND	34.6	25.6	ug/kg	74 a	15	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	38.1	30.1	ug/kg	79		SW846 8260B
	ND	34.6	25.2	ug/kg	73	18	SW846 8260B
Ethylbenzene	ND	38.1	33.2	ug/kg	87		SW846 8260B
	ND	34.6	27.2	ug/kg	79	20	SW846 8260B
Hexachlorobutadiene	ND	38.1	14.8	ug/kg	39 a		SW846 8260B
	ND	34.6	14.7	ug/kg	42 a	0.89	SW846 8260B
Isopropylbenzene	ND	38.1	30.4	ug/kg	80		SW846 8260B
	ND	34.6	26.1	ug/kg	75	15	SW846 8260B
m-Xylene & p-Xylene	ND	76.2	65.4	ug/kg	86		SW846 8260B
	ND	69.3	54.5	ug/kg	79 a	18	SW846 8260B
Methylene chloride	ND	38.1	37.6	ug/kg	99		SW846 8260B
	ND	34.6	30.5	ug/kg	88	21	SW846 8260B
Naphthalene	ND	38.1	13.2	ug/kg	35 a		SW846 8260B
	ND	34.6	12.3	ug/kg	36 a	6.6	SW846 8260B
n-Butylbenzene	ND	38.1	24.4	ug/kg	64 a		SW846 8260B
	ND	34.6	22.6	ug/kg	65	7.7	SW846 8260B
n-Propylbenzene	ND	38.1	39.2	ug/kg	103		SW846 8260B
	ND	34.6	32.4	ug/kg	94	19	SW846 8260B
o-Xylene	ND	38.1	33.5	ug/kg	88		SW846 8260B
	ND	34.6	27.8	ug/kg	80	19	SW846 8260B
p-Isopropyltoluene	ND	38.1	29.1	ug/kg	76		SW846 8260B
	ND	34.6	25.0	ug/kg	72 a	15	SW846 8260B
sec-Butylbenzene	ND	38.1	30.6	ug/kg	80		SW846 8260B
	ND	34.6	26.8	ug/kg	77	13	SW846 8260B
Styrene	ND	38.1	29.6	ug/kg	78		SW846 8260B
	ND	34.6	24.8	ug/kg	71 a	18	SW846 8260B
tert-Butylbenzene	ND	38.1	30.0	ug/kg	79		SW846 8260B
	ND	34.6	25.9	ug/kg	75	15	SW846 8260B
Tetrachloroethene	ND	38.1	30.8	ug/kg	81		SW846 8260B
	ND	34.6	25.1	ug/kg	72	20	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AD-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Toluene	**ND**	**38.1**	**35.4**	**ug/kg**	**93**		**SW846 8260B**
	ND	**34.6**	**28.5**	**ug/kg**	**82**	**22**	**SW846 8260B**
trans-1,2-Dichloroethene	**ND**	**38.1**	**36.3**	**ug/kg**	**95**		**SW846 8260B**
	ND	**34.6**	**29.5**	**ug/kg**	**85**	**21**	**SW846 8260B**
trans-1,3-Dichloropropene	**ND**	**38.1**	**26.7**	**ug/kg**	**70**		**SW846 8260B**
	ND	**34.6**	**22.6**	**ug/kg**	**65**	**17**	**SW846 8260B**
Trichloroethene	**ND**	**38.1**	**30.5**	**ug/kg**	**80**		**SW846 8260B**
	ND	**34.6**	**25.1**	**ug/kg**	**72 a**	**19**	**SW846 8260B**
Trichlorofluoromethane (Freon 11)	**ND**	**38.1**	**37.9**	**ug/kg**	**99**		**SW846 8260B**
	ND	**34.6**	**31.8**	**ug/kg**	**92**	**17**	**SW846 8260B**
Vinyl chloride	**ND**	**38.1**	**41.8**	**ug/kg**	**110**		**SW846 8260B**
	ND	**34.6**	**34.2**	**ug/kg**	**99**	**20**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**ND**	**38.1**	**34.4**	**ug/kg**	**90**		**SW846 8260B**
	ND	**34.6**	**31.6**	**ug/kg**	**91**	**8.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(68 - 116)
	94	(68 - 116)
1,2-Dichloroethane-d4	88	(59 - 130)
	85	(59 - 130)
Toluene-d8	108	(85 - 115)
	104	(85 - 115)
4-Bromofluorobenzene	83 *	(85 - 120)
	85	(85 - 120)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

SOLID, CALUFT/GCMS, TPH-GRO

ERRG

Client Sample ID: SS-RP01

GC/MS Volatiles

Lot-Sample #...:	G0K200425-001	**Work Order #...:**	MAC5G1AD	**Matrix.....:**	SO
Date Sampled...:	11/19/10	**Date Received..:**	11/20/10		
Prep Date.....:	11/20/10	**Analysis Date..:**	11/21/10		
Prep Batch #...:	0326482				
Dilution Factor:	0.94				
% Moisture.....:	11	**Method.....:**	DHS CALUFT/GCMS V		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	530	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	83	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP02

GC/MS Volatiles

Lot-Sample #...: G0K200425-002 **Work Order #...:** MAC5K1AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.87
% Moisture.....: 7.3 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	470	ug/kg	47

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP03

GC/MS Volatiles

Lot-Sample #...: G0K200425-003 **Work Order #...:** MAC5L1AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.78
% Moisture.....: 8.7 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	430	ug/kg	43

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP04

GC/MS Volatiles

Lot-Sample #...: G0K200425-004 **Work Order #...:** MAC5M1AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.85
% Moisture.....: 9.5 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	470	ug/kg	47

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	69 *	(70 - 131)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP05

GC/MS Volatiles

Lot-Sample #...:	G0K200425-005	**Work Order #...:**	MAC5N1AD	**Matrix.....:**	SO
Date Sampled...:	11/19/10	**Date Received..:**	11/20/10		
Prep Date.....:	11/20/10	**Analysis Date..:**	11/21/10		
Prep Batch #...:	0326482				
Dilution Factor:	0.77				
% Moisture.....:	13	**Method.....:**	DHS CALUFT/GCMS V		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	440	ug/kg	44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	86	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP06

GC/MS Volatiles

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P1AG **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.78
% Moisture.....: 14 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	450	ug/kg	45

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP07

GC/MS Volatiles

Lot-Sample #...:	G0K200425-007	**Work Order #...:**	MAC5R1AD	**Matrix.....:**	SO
Date Sampled...:	11/19/10	**Date Received..:**	11/20/10		
Prep Date.....:	11/20/10	**Analysis Date..:**	11/21/10		
Prep Batch #...:	0326482				
Dilution Factor:	0.81				
% Moisture.....:	11	**Method.....:**	DHS CALUFT/GCMS V		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	460	ug/kg	46

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	82	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP08

GC/MS Volatiles

Lot-Sample #...: G0K200425-008 **Work Order #...:** MAC5T1AF **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.81
% Moisture.....: 8.8 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	440	ug/kg	44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP09

GC/MS Volatiles

Lot-Sample #...: G0K200425-009 **Work Order #...:** MAC5V1AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.8
% Moisture.....: 13 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	460	ug/kg	46

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	88	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP10

GC/MS Volatiles

Lot-Sample #...:	G0K200425-010	**Work Order #...:**	MAC571AD	**Matrix.....:**	SO
Date Sampled...:	11/19/10	**Date Received..:**	11/20/10		
Prep Date.....:	11/20/10	**Analysis Date..:**	11/21/10		
Prep Batch #...:	0326482				
Dilution Factor:	0.83				
% Moisture.....:	13	**Method.....:**	DHS CALUFT/GCMS V		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	480	ug/kg	48

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	76	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP11

GC/MS Volatiles

Lot-Sample #...: G0K200425-011 **Work Order #...:** MAC591AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.8
% Moisture.....: 12 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	460	ug/kg	46

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	86	(70 - 131)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERRG

Client Sample ID: SS-RP12

GC/MS Volatiles

Lot-Sample #...: G0K200425-012 **Work Order #...:** MAC6C1AD **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.76
% Moisture.....: 11 **Method.....:** DHS CALUFT/GCMS V

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	430	ug/kg	43

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	65 *	(70 - 131)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
002	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
003	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
004	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
005	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
006	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	SW846 8270C		0324068	0324035
	SO	DHS CALUFT/GCMS V		0326482	0326308
007	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
008	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
009	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
010	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308

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QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
011	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
012	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
013	WQ	SW846 8260B		0328196	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAFCG1AA **Matrix.....:** SOLID
MB Lot-Sample #: G0K220000-482

Prep Date.....: 11/20/10
Analysis Date..: 11/20/10 **Prep Batch #...:** 0326482
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	500	ug/kg	DHS CALUFT/GCMS V

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	96	(70 - 131)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAFCG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K220000-482
Prep Date.....: 11/20/10 **Analysis Date..:** 11/20/10
Prep Batch #...: 0326482
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics	**114**	**(79 - 123)**	**DHS CALUFT/GCMS VPH**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(70 - 131)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAFCG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K220000-482
Prep Date.....: 11/20/10 **Analysis Date..:** 11/20/10
Prep Batch #...: 0326482
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Gasoline Range Organics	**1000**	**1140**	**ug/kg**	**114**	**DHS CALUFT/GC**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(70 - 131)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AG-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AH-MSD
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.84

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	**48 a**	**(79 - 123)**			**DHS CALUFT/GCMS VPH**
	50 a	**(79 - 123)**	**6.3**	**(0-30)**	**DHS CALUFT/GCMS VPH**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	89	(70 - 131)
	83	(70 - 131)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5T1AG-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-008 MAC5T1AH-MSD
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0326482
Dilution Factor: 0.84

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Gasoline Range Organics	**ND**	**921**	**440**	**ug/kg**	**48 a**		**DHS CALUFT/GCMS VPH**
	ND	**935**	**469**	**ug/kg**	**50 a**	**6.3**	**DHS CALUFT/GCMS VPH**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	89	(70 - 131)
	83	(70 - 131)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

WATER, 8260B, Volatile Organics

ERRG

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: G0K200425-013 **Work Order #...:** MAC6D1AA **Matrix.....:** WQ
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/23/10 **Analysis Date..:** 11/23/10
Prep Batch #...: 0328196
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.1
Benzene	ND	1.0	ug/L	0.13
Bromobenzene	ND	1.0	ug/L	0.18
Bromochloromethane	ND	1.0	ug/L	0.14
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.10
Bromomethane	ND	1.0	ug/L	0.29
2-Butanone (MEK)	ND	2.0	ug/L	0.35
n-Butylbenzene	ND	1.0	ug/L	0.12
sec-Butylbenzene	ND	1.0	ug/L	0.12
tert-Butylbenzene	ND	1.0	ug/L	0.14
Carbon disulfide	ND	2.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.15
Chlorobenzene	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.13
Chloroethane	ND	1.0	ug/L	0.34
Chloroform	ND	1.0	ug/L	0.12
Chloromethane	ND	1.0	ug/L	0.25
2-Chlorotoluene	ND	1.0	ug/L	0.070
4-Chlorotoluene	ND	1.0	ug/L	0.10
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.32
1,2-Dibromoethane (EDB)	ND	2.0	ug/L	0.22
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.14
1,3-Dichlorobenzene	ND	1.0	ug/L	0.11
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.10
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.11
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
1,3-Dichloropropane	ND	1.0	ug/L	0.070
2,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.080

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Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: G0K200425-013 **Work Order #...:** MAC6D1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.14
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	1.0	ug/L	0.22
2-Hexanone	ND	2.0	ug/L	0.17
Isopropylbenzene	ND	1.0	ug/L	0.12
p-Isopropyltoluene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.35
4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/L	0.18
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	0.19
Naphthalene	ND	1.0	ug/L	0.15
n-Propylbenzene	ND	1.0	ug/L	0.15
Styrene	ND	1.0	ug/L	0.15
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.10
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.090
Tetrachloroethene	ND	1.0	ug/L	0.10
Toluene	ND	1.0	ug/L	0.25
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.14
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.31
Trichloroethene	ND	1.0	ug/L	0.13
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L	0.23
1,2,3-Trichloropropane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.12
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.14
Vinyl chloride	ND	1.0	ug/L	0.22
m-Xylene & p-Xylene	ND	1.0	ug/L	0.18
o-Xylene	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73 *	(85 - 115)
1,2-Dichloroethane-d4	73	(70 - 120)
Toluene-d8	66 *	(85 - 120)
4-Bromofluorobenzene	58 *	(75 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
002	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
003	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
004	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
005	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
006	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
007	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
008	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
009	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
010	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
011	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
012	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
013	WQ	SW846 8260B		0328196	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAH391AA **Matrix.....:** WATER
MB Lot-Sample #: G0K240000-196

Prep Date.....: 11/23/10
Analysis Date..: 11/23/10 **Prep Batch #...:** 0328196
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	2.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAH391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(85 - 115)
1,2-Dichloroethane-d4	115	(70 - 120)
Toluene-d8	105	(85 - 120)
4-Bromofluorobenzene	100	(75 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 Work Order #...: MAH391AC Matrix.....: WATER
LCS Lot-Sample#: G0K240000-196
Prep Date.....: 11/23/10 Analysis Date..: 11/23/10
Prep Batch #...: 0328196
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Bromochloromethane	115	(65 - 130)	SW846 8260B
Bromodichloromethane	111	(75 - 120)	SW846 8260B
Bromoform	95	(70 - 130)	SW846 8260B
Bromomethane	115	(30 - 145)	SW846 8260B
Carbon disulfide	95	(35 - 160)	SW846 8260B
Carbon tetrachloride	113	(65 - 140)	SW846 8260B
Chlorobenzene	110	(80 - 120)	SW846 8260B
Dibromochloromethane	102	(60 - 135)	SW846 8260B
Chloroethane	114	(60 - 135)	SW846 8260B
Chloroform	120	(65 - 135)	SW846 8260B
Chloromethane	100	(40 - 125)	SW846 8260B
cis-1,2-Dichloroethene	119	(70 - 125)	SW846 8260B
cis-1,3-Dichloropropene	108	(70 - 130)	SW846 8260B
Dibromomethane	111	(75 - 125)	SW846 8260B
Dichlorodifluoromethane (Freon 12)	94	(30 - 155)	SW846 8260B
Ethylbenzene	112	(75 - 125)	SW846 8260B
Hexachlorobutadiene	98	(50 - 140)	SW846 8260B
Isopropylbenzene	116	(75 - 125)	SW846 8260B
m-Xylene & p-Xylene	114	(75 - 130)	SW846 8260B
Methylene chloride	114	(55 - 140)	SW846 8260B
Naphthalene	98	(55 - 140)	SW846 8260B
n-Butylbenzene	108	(70 - 135)	SW846 8260B
n-Propylbenzene	105	(70 - 130)	SW846 8260B
o-Xylene	115	(80 - 120)	SW846 8260B
p-Isopropyltoluene	109	(75 - 130)	SW846 8260B
sec-Butylbenzene	105	(70 - 125)	SW846 8260B
Styrene	113	(65 - 135)	SW846 8260B
tert-Butylbenzene	105	(70 - 130)	SW846 8260B
Tetrachloroethene	108	(45 - 150)	SW846 8260B
Toluene	107	(75 - 120)	SW846 8260B
trans-1,2-Dichloroethene	116	(60 - 140)	SW846 8260B
trans-1,3-Dichloropropene	107	(55 - 140)	SW846 8260B
Trichloroethene	110	(70 - 125)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 Work Order #...: MAH391AC Matrix.....: WATER
LCS Lot-Sample#: G0K240000-196

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Trichlorofluoromethane (Freon 11)	119	(60 - 145)	SW846 8260B
Vinyl chloride	108	(50 - 145)	SW846 8260B
Methyl tert-butyl ether (MTBE)	113	(71 - 125)	SW846 8260B
1,1,1,2-Tetrachloroethane	113	(80 - 130)	SW846 8260B
1,1,1-Trichloroethane	117	(65 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	102	(65 - 130)	SW846 8260B
1,1,2-Trichloroethane	108	(75 - 125)	SW846 8260B
1,1-Dichloroethane	117	(70 - 135)	SW846 8260B
1,1-Dichloroethene	117	(70 - 130)	SW846 8260B
1,1-Dichloropropene	114	(75 - 130)	SW846 8260B
1,2,3-Trichlorobenzene	104	(55 - 140)	SW846 8260B
1,2,3-Trichloropropane	98	(75 - 125)	SW846 8260B
1,2,4-Trichloro-benzene	103	(65 - 135)	SW846 8260B
1,2,4-Trimethylbenzene	109	(75 - 130)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	87	(50 - 130)	SW846 8260B
1,2-Dibromoethane (EDB)	108	(80 - 120)	SW846 8260B
1,2-Dichlorobenzene	107	(70 - 120)	SW846 8260B
1,2-Dichloroethane	118	(70 - 130)	SW846 8260B
1,2-Dichloropropane	109	(75 - 125)	SW846 8260B
1,3,5-Trimethylbenzene	107	(75 - 130)	SW846 8260B
1,3-Dichlorobenzene	107	(75 - 125)	SW846 8260B
1,3-Dichloropropane	104	(75 - 125)	SW846 8260B
1,4-Dichlorobenzene	104	(75 - 125)	SW846 8260B
2,2-Dichloropropane	119	(70 - 135)	SW846 8260B
2-Butanone (MEK)	90	(30 - 150)	SW846 8260B
2-Chlorotoluene	102	(75 - 125)	SW846 8260B
2-Hexanone	99	(55 - 130)	SW846 8260B
4-Chlorotoluene	106	(75 - 130)	SW846 8260B
4-Methyl-2-pentanone (MIBK)	105	(60 - 135)	SW846 8260B
Acetone	99	(40 - 140)	SW846 8260B
Benzene	111	(80 - 120)	SW846 8260B
Bromobenzene	102	(75 - 125)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAH391AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K240000-196

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(85 - 115)
1,2-Dichloroethane-d4	105	(70 - 120)
Toluene-d8	99	(85 - 120)
4-Bromofluorobenzene	98	(75 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAH391AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K240000-196
Prep Date.....: 11/23/10 **Analysis Date..:** 11/23/10
Prep Batch #...: 0328196
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Bromochloromethane	20.0	23.1	ug/L	115	SW846 8260B
Bromodichloromethane	20.0	22.2	ug/L	111	SW846 8260B
Bromoform	20.0	19.1	ug/L	95	SW846 8260B
Bromomethane	20.0	22.9	ug/L	115	SW846 8260B
Carbon disulfide	20.0	19.0	ug/L	95	SW846 8260B
Carbon tetrachloride	20.0	22.6	ug/L	113	SW846 8260B
Chlorobenzene	20.0	21.9	ug/L	110	SW846 8260B
Dibromochloromethane	20.0	20.3	ug/L	102	SW846 8260B
Chloroethane	20.0	22.8	ug/L	114	SW846 8260B
Chloroform	20.0	24.1	ug/L	120	SW846 8260B
Chloromethane	20.0	20.0	ug/L	100	SW846 8260B
cis-1,2-Dichloroethene	20.0	23.8	ug/L	119	SW846 8260B
cis-1,3-Dichloropropene	20.0	21.5	ug/L	108	SW846 8260B
Dibromomethane	20.0	22.3	ug/L	111	SW846 8260B
Dichlorodifluoromethane (Freon 12)	20.0	18.8	ug/L	94	SW846 8260B
Ethylbenzene	20.0	22.5	ug/L	112	SW846 8260B
Hexachlorobutadiene	20.0	19.5	ug/L	98	SW846 8260B
Isopropylbenzene	20.0	23.2	ug/L	116	SW846 8260B
m-Xylene & p-Xylene	40.0	45.6	ug/L	114	SW846 8260B
Methylene chloride	20.0	22.8	ug/L	114	SW846 8260B
Naphthalene	20.0	19.6	ug/L	98	SW846 8260B
n-Butylbenzene	20.0	21.6	ug/L	108	SW846 8260B
n-Propylbenzene	20.0	20.9	ug/L	105	SW846 8260B
o-Xylene	20.0	23.1	ug/L	115	SW846 8260B
p-Isopropyltoluene	20.0	21.7	ug/L	109	SW846 8260B
sec-Butylbenzene	20.0	21.1	ug/L	105	SW846 8260B
Styrene	20.0	22.7	ug/L	113	SW846 8260B
tert-Butylbenzene	20.0	21.1	ug/L	105	SW846 8260B
Tetrachloroethene	20.0	21.6	ug/L	108	SW846 8260B
Toluene	20.0	21.4	ug/L	107	SW846 8260B
trans-1,2-Dichloroethene	20.0	23.3	ug/L	116	SW846 8260B
trans-1,3-Dichloropropene	20.0	21.5	ug/L	107	SW846 8260B
Trichloroethene	20.0	21.9	ug/L	110	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAH391AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K240000-196

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Trichlorofluoromethane (Freon 11)	20.0	23.7	ug/L	119	SW846 8260B
Vinyl chloride	20.0	21.5	ug/L	108	SW846 8260B
Methyl tert-butyl ether (MTBE)	20.0	22.6	ug/L	113	SW846 8260B
1,1,1,2-Tetrachloroethane	20.0	22.6	ug/L	113	SW846 8260B
1,1,1-Trichloroethane	20.0	23.4	ug/L	117	SW846 8260B
1,1,2,2-Tetrachloroethane	20.0	20.4	ug/L	102	SW846 8260B
1,1,2-Trichloroethane	20.0	21.5	ug/L	108	SW846 8260B
1,1-Dichloroethane	20.0	23.3	ug/L	117	SW846 8260B
1,1-Dichloroethene	20.0	23.3	ug/L	117	SW846 8260B
1,1-Dichloropropene	20.0	22.8	ug/L	114	SW846 8260B
1,2,3-Trichlorobenzene	20.0	20.8	ug/L	104	SW846 8260B
1,2,3-Trichloropropane	20.0	19.6	ug/L	98	SW846 8260B
1,2,4-Trichloro-benzene	20.0	20.6	ug/L	103	SW846 8260B
1,2,4-Trimethylbenzene	20.0	21.8	ug/L	109	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	20.0	17.5	ug/L	87	SW846 8260B
1,2-Dibromoethane (EDB)	20.0	21.6	ug/L	108	SW846 8260B
1,2-Dichlorobenzene	20.0	21.3	ug/L	107	SW846 8260B
1,2-Dichloroethane	20.0	23.6	ug/L	118	SW846 8260B
1,2-Dichloropropane	20.0	21.7	ug/L	109	SW846 8260B
1,3,5-Trimethylbenzene	20.0	21.4	ug/L	107	SW846 8260B
1,3-Dichlorobenzene	20.0	21.4	ug/L	107	SW846 8260B
1,3-Dichloropropane	20.0	20.8	ug/L	104	SW846 8260B
1,4-Dichlorobenzene	20.0	20.8	ug/L	104	SW846 8260B
2,2-Dichloropropane	20.0	23.7	ug/L	119	SW846 8260B
2-Butanone (MEK)	20.0	18.1	ug/L	90	SW846 8260B
2-Chlorotoluene	20.0	20.4	ug/L	102	SW846 8260B
2-Hexanone	20.0	19.7	ug/L	99	SW846 8260B
4-Chlorotoluene	20.0	21.1	ug/L	106	SW846 8260B
4-Methyl-2-pentanone (MIBK)	20.0	21.0	ug/L	105	SW846 8260B
Acetone	20.0	19.9	ug/L	99	SW846 8260B
Benzene	20.0	22.2	ug/L	111	SW846 8260B
Bromobenzene	20.0	20.4	ug/L	102	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G0K200425 **Work Order #...:** MAH391AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K240000-196

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(85 - 115)
1,2-Dichloroethane-d4	105	(70 - 120)
Toluene-d8	99	(85 - 120)
4-Bromofluorobenzene	98	(75 - 120)

NOTE(S):

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

Bold print denotes control parameters

SOLID, 8270C, Semivolatile Organics

ERRG

Client Sample ID: SS-RP06

GC/MS Semivolatiles

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P1AC **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0324068
Dilution Factor: 0.95
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
N-Nitrosopyrrolidine	ND	550	ug/kg	180
Acenaphthene	ND	360	ug/kg	91
Acenaphthylene	ND	360	ug/kg	94
Anthracene	**160 J**	**360**	**ug/kg**	**95**
Azobenzene	ND	360	ug/kg	100
Benz(a)anthracene	**440**	**360**	**ug/kg**	**100**
Benzo(b)fluoranthene	**390**	**360**	**ug/kg**	**100**
Benzo(k)fluoranthene	**340 J**	**360**	**ug/kg**	**120**
Benzoic acid	ND	1800	ug/kg	320
Benzo(ghi)perylene	**240 J**	**360**	**ug/kg**	**120**
Benzo(a)pyrene	**400**	**360**	**ug/kg**	**100**
Benzyl alcohol	ND	560	ug/kg	190
bis(2-Chloroethoxy) methane	ND	360	ug/kg	97
bis(2-Chloroethyl)-ether	ND	360	ug/kg	89
bis(2-Chloroisopropyl) ether	ND	360	ug/kg	87
bis(2-Ethylhexyl) phthalate	ND	360	ug/kg	110
4-Bromophenyl phenyl ether	ND	360	ug/kg	94
Butyl benzyl phthalate	ND	360	ug/kg	100
Carbazole	ND	360	ug/kg	100
4-Chloroaniline	ND	360	ug/kg	64
4-Chloro-3-methylphenol	ND	360	ug/kg	100
2-Chloronaphthalene	ND	360	ug/kg	89
2-Chlorophenol	ND	360	ug/kg	97
4-Chlorophenyl phenyl ether	ND	360	ug/kg	100
Chrysene	**480**	**360**	**ug/kg**	**93**
Dibenz(a,h)anthracene	ND	360	ug/kg	110
Dibenzofuran	ND	360	ug/kg	95
Di-n-butyl phthalate	ND	360	ug/kg	110
1,2-Dichlorobenzene	ND	360	ug/kg	83
1,3-Dichlorobenzene	ND	360	ug/kg	86
1,4-Dichlorobenzene	ND	360	ug/kg	85
3,3'-Dichlorobenzidine	ND	1800	ug/kg	100

(Continued on next page)

ERRG

Client Sample ID: SS-RP06

GC/MS Semivolatiles

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	360	ug/kg	98
2,6-Dichlorophenol	ND	550	ug/kg	180
Diethyl phthalate	ND	360	ug/kg	99
2,4-Dimethylphenol	ND	550	ug/kg	180
Dimethyl phthalate	ND	360	ug/kg	96
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg	89
2,4-Dinitrophenol	ND	2200	ug/kg	240
2,4-Dinitrotoluene	ND	360	ug/kg	98
2,6-Dinitrotoluene	ND	360	ug/kg	110
Di-n-octyl phthalate	ND	360	ug/kg	110
Fluoranthene	**900**	**360**	**ug/kg**	**100**
Fluorene	ND	360	ug/kg	100
Hexachlorobenzene	ND	360	ug/kg	98
Hexachlorobutadiene	ND	360	ug/kg	90
Hexachloroethane	ND	360	ug/kg	89
Indeno(1,2,3-cd)pyrene	**320 J**	**360**	**ug/kg**	**110**
Isophorone	ND	360	ug/kg	100
2-Methylnaphthalene	ND	360	ug/kg	94
2-Methylphenol	ND	360	ug/kg	64
3-Methylphenol & 4-Methylphenol	ND	1100	ug/kg	360
Naphthalene	ND	360	ug/kg	90
2-Nitroaniline	ND	1800	ug/kg	93
3-Nitroaniline	ND	1800	ug/kg	180
4-Nitroaniline	ND	1800	ug/kg	97
Nitrobenzene	ND	360	ug/kg	84
2-Nitrophenol	ND	360	ug/kg	90
4-Nitrophenol	ND	2200	ug/kg	310
N-Nitrosodiphenylamine	ND	360	ug/kg	95
Pentachlorophenol	ND	1800	ug/kg	56
Phenanthrene	**910**	**360**	**ug/kg**	**100**
Phenol	ND	360	ug/kg	91
Pyrene	**1100**	**360**	**ug/kg**	**100**
1,2,4-Trichlorobenzene	ND	360	ug/kg	91
2,4,5-Trichlorophenol	ND	360	ug/kg	91
2,4,6-Trichlorophenol	ND	360	ug/kg	93

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ERRG

Client Sample ID: SS-RP06

GC/MS Semivolatiles

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P1AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	86	(45 - 105)
2-Fluorophenol	80	(35 - 105)
Nitrobenzene-d5	76	(35 - 100)
Phenol-d5	82	(40 - 100)
Terphenyl-d14	103	(30 - 125)
2,4,6-Tribromophenol	96	(35 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	SW846 8260B		0325062	0325027
002	SO	SW846 8260B		0325062	0325027
003	SO	SW846 8260B		0325062	0325027
004	SO	SW846 8260B		0325062	0325027
005	SO	SW846 8260B		0325062	0325027
006	SO	SW846 8260B		0325062	0325027
	SO	SW846 8270C		0324068	0324035
007	SO	SW846 8260B		0325062	0325027
008	SO	SW846 8260B		0325062	0325027
009	SO	SW846 8260B		0325062	0325027
010	SO	SW846 8260B		0325062	0325027
011	SO	SW846 8260B		0325062	0325027
012	SO	SW846 8260B		0325062	0325027

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AA **Matrix.....:** SOLID
MB Lot-Sample #: G0K200000-068

Prep Date.....: 11/20/10
Analysis Date..: 11/21/10 **Prep Batch #...:** 0324068
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
N-Nitrosopyrrolidine	ND	500	ug/kg	SW846 8270C
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Azobenzene	ND	330	ug/kg	SW846 8270C
Benz(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	510	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
2,6-Dichlorophenol	ND	500	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dimethylphenol	ND	500	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	2000	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	1000	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	2000	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	80	(45 - 105)
2-Fluorophenol	80	(35 - 105)
Nitrobenzene-d5	81	(35 - 100)
Phenol-d5	81	(40 - 100)
Terphenyl-d14	104	(30 - 125)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4,6-Tribromophenol	92	(35 - 125)		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K200000-068
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0324068
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	97	(45 - 110)	SW846 8270C
Acenaphthylene	103	(45 - 105)	SW846 8270C
Anthracene	98	(55 - 105)	SW846 8270C
Azobenzene	97	(67 - 109)	SW846 8270C
Benz(a)anthracene	101	(50 - 110)	SW846 8270C
Benzo(b)fluoranthene	111	(45 - 115)	SW846 8270C
Benzo(k)fluoranthene	93	(45 - 125)	SW846 8270C
Benzoic acid	58	(0.0- 110)	SW846 8270C
Benzo(ghi)perylene	100	(40 - 125)	SW846 8270C
Benzo(a)pyrene	89	(50 - 110)	SW846 8270C
Benzyl alcohol	90	(20 - 125)	SW846 8270C
bis(2-Chloroethoxy) methane	84	(45 - 110)	SW846 8270C
bis(2-Chloroethyl)- ether	87	(40 - 105)	SW846 8270C
bis(2-Chloroisopropyl) ether	88	(20 - 115)	SW846 8270C
bis(2-Ethylhexyl) phthalate	102	(45 - 125)	SW846 8270C
4-Bromophenyl phenyl ether	99	(45 - 115)	SW846 8270C
Butyl benzyl phthalate	100	(50 - 125)	SW846 8270C
Carbazole	98	(45 - 115)	SW846 8270C
4-Chloroaniline	70	(10 - 95)	SW846 8270C
4-Chloro-3-methylphenol	97	(45 - 115)	SW846 8270C
2-Chloronaphthalene	94	(45 - 105)	SW846 8270C
2-Chlorophenol	87	(45 - 105)	SW846 8270C
4-Chlorophenyl phenyl ether	101	(45 - 110)	SW846 8270C
Chrysene	97	(55 - 110)	SW846 8270C
Dibenz(a,h)anthracene	106	(40 - 125)	SW846 8270C
Dibenzofuran	99	(50 - 105)	SW846 8270C
Di-n-butyl phthalate	105	(55 - 110)	SW846 8270C
1,2-Dichlorobenzene	85	(45 - 95)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K200000-068

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichlorobenzene	82	(40 - 100)	SW846 8270C
1,4-Dichlorobenzene	82	(35 - 105)	SW846 8270C
3,3'-Dichlorobenzidine	71	(10 - 130)	SW846 8270C
2,4-Dichlorophenol	95	(45 - 110)	SW846 8270C
Diethyl phthalate	99	(50 - 115)	SW846 8270C
2,4-Dimethylphenol	84	(30 - 105)	SW846 8270C
Dimethyl phthalate	100	(50 - 110)	SW846 8270C
4,6-Dinitro-2-methylphenol	70	(30 - 135)	SW846 8270C
2,4-Dinitrophenol	53	(15 - 130)	SW846 8270C
2,4-Dinitrotoluene	106	(50 - 115)	SW846 8270C
2,6-Dinitrotoluene	102	(50 - 110)	SW846 8270C
Di-n-octyl phthalate	106	(40 - 130)	SW846 8270C
Fluoranthene	107	(55 - 115)	SW846 8270C
Fluorene	99	(50 - 110)	SW846 8270C
Hexachlorobenzene	98	(45 - 120)	SW846 8270C
Hexachlorobutadiene	89	(40 - 115)	SW846 8270C
Hexachloroethane	82	(35 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	112	(40 - 120)	SW846 8270C
Isophorone	91	(45 - 110)	SW846 8270C
2-Methylnaphthalene	88	(45 - 105)	SW846 8270C
2-Methylphenol	87	(40 - 105)	SW846 8270C
3-Methylphenol & 4-Methylphenol	89	(40 - 105)	SW846 8270C
Naphthalene	85	(40 - 105)	SW846 8270C
2-Nitroaniline	107	(45 - 120)	SW846 8270C
3-Nitroaniline	96	(25 - 110)	SW846 8270C
4-Nitroaniline	106	(35 - 115)	SW846 8270C
Nitrobenzene	90	(40 - 115)	SW846 8270C
2-Nitrophenol	94	(40 - 110)	SW846 8270C
4-Nitrophenol	114	(15 - 140)	SW846 8270C
N-Nitrosodiphenylamine	93	(50 - 115)	SW846 8270C
Pentachlorophenol	87	(25 - 120)	SW846 8270C
Phenanthrene	94	(50 - 110)	SW846 8270C
Phenol	87	(40 - 100)	SW846 8270C
Pyrene	97	(45 - 125)	SW846 8270C
1,2,4-Trichlorobenzene	86	(45 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K200000-068

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4,5-Trichloro-phenol	**107**	**(50 - 110)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**103**	**(45 - 110)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	97	(45 - 105)
2-Fluorophenol	89	(35 - 105)
Nitrobenzene-d5	89	(35 - 100)
Phenol-d5	92	(40 - 100)
Terphenyl-d14	103	(30 - 125)
2,4,6-Tribromophenol	103	(35 - 125)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K200000-068
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0324068
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	3330	3220	ug/kg	97	SW846 8270C
Acenaphthylene	3330	3430	ug/kg	103	SW846 8270C
Anthracene	3330	3270	ug/kg	98	SW846 8270C
Azobenzene	3330	3250	ug/kg	97	SW846 8270C
Benz(a)anthracene	3330	3360	ug/kg	101	SW846 8270C
Benzo(b)fluoranthene	3330	3700	ug/kg	111	SW846 8270C
Benzo(k)fluoranthene	3330	3110	ug/kg	93	SW846 8270C
Benzoic acid	3330	1920	ug/kg	58	SW846 8270C
Benzo(ghi)perylene	3330	3320	ug/kg	100	SW846 8270C
Benzo(a)pyrene	3330	2960	ug/kg	89	SW846 8270C
Benzyl alcohol	3330	3010	ug/kg	90	SW846 8270C
bis(2-Chloroethoxy) methane	3330	2810	ug/kg	84	SW846 8270C
bis(2-Chloroethyl)- ether	3330	2900	ug/kg	87	SW846 8270C
bis(2-Chloroisopropyl) ether	3330	2940	ug/kg	88	SW846 8270C
bis(2-Ethylhexyl) phthalate	3330	3410	ug/kg	102	SW846 8270C
4-Bromophenyl phenyl ether	3330	3310	ug/kg	99	SW846 8270C
Butyl benzyl phthalate	3330	3330	ug/kg	100	SW846 8270C
Carbazole	3330	3280	ug/kg	98	SW846 8270C
4-Chloroaniline	3330	2320	ug/kg	70	SW846 8270C
4-Chloro-3-methylphenol	3330	3230	ug/kg	97	SW846 8270C
2-Chloronaphthalene	3330	3120	ug/kg	94	SW846 8270C
2-Chlorophenol	3330	2900	ug/kg	87	SW846 8270C
4-Chlorophenyl phenyl ether	3330	3360	ug/kg	101	SW846 8270C
Chrysene	3330	3220	ug/kg	97	SW846 8270C
Dibenz(a,h)anthracene	3330	3530	ug/kg	106	SW846 8270C
Dibenzofuran	3330	3310	ug/kg	99	SW846 8270C
Di-n-butyl phthalate	3330	3520	ug/kg	105	SW846 8270C
1,2-Dichlorobenzene	3330	2820	ug/kg	85	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K200000-068

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichlorobenzene	3330	2750	ug/kg	82	SW846 8270C
1,4-Dichlorobenzene	3330	2740	ug/kg	82	SW846 8270C
3,3'-Dichlorobenzidine	3330	2370	ug/kg	71	SW846 8270C
2,4-Dichlorophenol	3330	3160	ug/kg	95	SW846 8270C
Diethyl phthalate	3330	3320	ug/kg	99	SW846 8270C
2,4-Dimethylphenol	3330	2780	ug/kg	84	SW846 8270C
Dimethyl phthalate	3330	3330	ug/kg	100	SW846 8270C
4,6-Dinitro-2-methylphenol	3330	2320	ug/kg	70	SW846 8270C
2,4-Dinitrophenol	3330	1780	ug/kg	53	SW846 8270C
2,4-Dinitrotoluene	3330	3550	ug/kg	106	SW846 8270C
2,6-Dinitrotoluene	3330	3400	ug/kg	102	SW846 8270C
Di-n-octyl phthalate	3330	3540	ug/kg	106	SW846 8270C
Fluoranthene	3330	3570	ug/kg	107	SW846 8270C
Fluorene	3330	3300	ug/kg	99	SW846 8270C
Hexachlorobenzene	3330	3270	ug/kg	98	SW846 8270C
Hexachlorobutadiene	3330	2960	ug/kg	89	SW846 8270C
Hexachloroethane	3330	2750	ug/kg	82	SW846 8270C
Indeno(1,2,3-cd)pyrene	3330	3740	ug/kg	112	SW846 8270C
Isophorone	3330	3030	ug/kg	91	SW846 8270C
2-Methylnaphthalene	3330	2930	ug/kg	88	SW846 8270C
2-Methylphenol	3330	2910	ug/kg	87	SW846 8270C
3-Methylphenol & 4-Methylphenol	6670	5950	ug/kg	89	SW846 8270C
Naphthalene	3330	2820	ug/kg	85	SW846 8270C
2-Nitroaniline	3330	3560	ug/kg	107	SW846 8270C
3-Nitroaniline	3330	3210	ug/kg	96	SW846 8270C
4-Nitroaniline	3330	3520	ug/kg	106	SW846 8270C
Nitrobenzene	3330	2990	ug/kg	90	SW846 8270C
2-Nitrophenol	3330	3120	ug/kg	94	SW846 8270C
4-Nitrophenol	3330	3810	ug/kg	114	SW846 8270C
N-Nitrosodiphenylamine	3330	3110	ug/kg	93	SW846 8270C
Pentachlorophenol	3330	2910	ug/kg	87	SW846 8270C
Phenanthrene	3330	3120	ug/kg	94	SW846 8270C
Phenol	3330	2880	ug/kg	87	SW846 8270C
Pyrene	3330	3240	ug/kg	97	SW846 8270C
1,2,4-Trichloro-benzene	3330	2850	ug/kg	86	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC761AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0K200000-068

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,4,5-Trichloro-phenol	**3330**	**3560**	**ug/kg**	**107**	**SW846 8270C**
2,4,6-Trichloro-phenol	**3330**	**3430**	**ug/kg**	**103**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	97	(45 - 105)
2-Fluorophenol	89	(35 - 105)
Nitrobenzene-d5	89	(35 - 100)
Phenol-d5	92	(40 - 100)
Terphenyl-d14	103	(30 - 125)
2,4,6-Tribromophenol	103	(35 - 125)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
Prep Date.....: 11/20/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0324068
Dilution Factor: 1.01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**89**	**(45 - 110)**			**SW846 8270C**
	91	**(45 - 110)**	**2.6**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**95**	**(45 - 105)**			**SW846 8270C**
	97	**(45 - 105)**	**2.1**	**(0-30)**	**SW846 8270C**
Anthracene	**91**	**(55 - 105)**			**SW846 8270C**
	96	**(55 - 105)**	**1.2**	**(0-30)**	**SW846 8270C**
Azobenzene	96	(67 - 109)			SW846 8270C
	90	(67 - 109)	10	(0-30)	SW846 8270C
Benz(a)anthracene	**92**	**(50 - 110)**			**SW846 8270C**
	91	**(50 - 110)**	**4.6**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**101**	**(45 - 115)**			**SW846 8270C**
	96	**(45 - 115)**	**8.2**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**86**	**(45 - 125)**			**SW846 8270C**
	90	**(45 - 125)**	**0.24**	**(0-30)**	**SW846 8270C**
Benzoic acid	85	(0.0- 110)			SW846 8270C
	84	(0.0- 110)	5.1	(0-30)	SW846 8270C
Benzo(ghi)perylene	**89**	**(40 - 125)**			**SW846 8270C**
	91	**(40 - 125)**	**1.5**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**81**	**(50 - 110)**			**SW846 8270C**
	82	**(50 - 110)**	**2.3**	**(0-30)**	**SW846 8270C**
Benzyl alcohol	**89**	**(20 - 125)**			**SW846 8270C**
	82	**(20 - 125)**	**13**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**79**	**(45 - 110)**			**SW846 8270C**
	77	**(45 - 110)**	**7.4**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**78**	**(40 - 105)**			**SW846 8270C**
	74	**(40 - 105)**	**8.8**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**74**	**(20 - 115)**			**SW846 8270C**
	71	**(20 - 115)**	**8.0**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**105**	**(45 - 125)**			**SW846 8270C**
	112	**(45 - 125)**	**1.8**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Bromophenyl phenyl ether	95	(45 - 115)			SW846 8270C
	93	(45 - 115)	5.9	(0-30)	SW846 8270C
Butyl benzyl phthalate	103	(50 - 125)			SW846 8270C
	105	(50 - 125)	2.1	(0-30)	SW846 8270C
Carbazole	94	(45 - 115)			SW846 8270C
	99	(45 - 115)	0.71	(0-30)	SW846 8270C
4-Chloroaniline	75	(10 - 95)			SW846 8270C
	74	(10 - 95)	5.2	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	96	(45 - 115)			SW846 8270C
	102	(45 - 115)	2.4	(0-30)	SW846 8270C
2-Chloronaphthalene	91	(45 - 105)			SW846 8270C
	87	(45 - 105)	8.2	(0-30)	SW846 8270C
2-Chlorophenol	83	(45 - 105)			SW846 8270C
	78	(45 - 105)	10	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	93	(45 - 110)			SW846 8270C
	99	(45 - 110)	1.5	(0-30)	SW846 8270C
Chrysene	88	(55 - 110)			SW846 8270C
	87	(55 - 110)	3.8	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	101	(40 - 125)			SW846 8270C
	104	(40 - 125)	1.1	(0-30)	SW846 8270C
Dibenzofuran	91	(50 - 105)			SW846 8270C
	95	(50 - 105)	0.12	(0-30)	SW846 8270C
Di-n-butyl phthalate	99	(55 - 110)			SW846 8270C
	108	(55 - 110)	4.8	(0-30)	SW846 8270C
1,2-Dichlorobenzene	74	(45 - 95)			SW846 8270C
	69	(45 - 95)	12	(0-30)	SW846 8270C
1,3-Dichlorobenzene	71	(40 - 100)			SW846 8270C
	66	(40 - 100)	12	(0-30)	SW846 8270C
1,4-Dichlorobenzene	71	(35 - 105)			SW846 8270C
	65	(35 - 105)	13	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	78	(10 - 130)			SW846 8270C
	82	(10 - 130)	0.63	(0-30)	SW846 8270C
2,4-Dichlorophenol	95	(45 - 110)			SW846 8270C
	92	(45 - 110)	7.3	(0-30)	SW846 8270C
Diethyl phthalate	98	(50 - 115)			SW846 8270C
	102	(50 - 115)	0.09	(0-30)	SW846 8270C
2,4-Dimethylphenol	92	(30 - 105)			SW846 8270C
	89	(30 - 105)	6.9	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dimethyl phthalate	96	(50 - 110)			SW846 8270C
	97	(50 - 110)	3.1	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	90	(30 - 135)			SW846 8270C
	96	(30 - 135)	2.1	(0-30)	SW846 8270C
2,4-Dinitrophenol	86	(15 - 130)			SW846 8270C
	96	(15 - 130)	7.2	(0-30)	SW846 8270C
2,4-Dinitrotoluene	98	(50 - 115)			SW846 8270C
	109	(50 - 115)	6.8	(0-30)	SW846 8270C
2,6-Dinitrotoluene	94	(50 - 110)			SW846 8270C
	100	(50 - 110)	2.4	(0-30)	SW846 8270C
Di-n-octyl phthalate	108	(40 - 130)			SW846 8270C
	120	(40 - 130)	6.0	(0-30)	SW846 8270C
Fluoranthene	92	(55 - 115)			SW846 8270C
	97	(55 - 115)	0.89	(0-30)	SW846 8270C
Fluorene	90	(50 - 110)			SW846 8270C
	98	(50 - 110)	3.8	(0-30)	SW846 8270C
Hexachlorobenzene	91	(45 - 120)			SW846 8270C
	95	(45 - 120)	0.32	(0-30)	SW846 8270C
Hexachlorobutadiene	76	(40 - 115)			SW846 8270C
	77	(40 - 115)	3.1	(0-30)	SW846 8270C
Hexachloroethane	71	(35 - 110)			SW846 8270C
	68	(35 - 110)	8.5	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	99	(40 - 120)			SW846 8270C
	110	(40 - 120)	6.2	(0-30)	SW846 8270C
Isophorone	82	(45 - 110)			SW846 8270C
	81	(45 - 110)	5.2	(0-30)	SW846 8270C
2-Methylnaphthalene	87	(45 - 105)			SW846 8270C
	85	(45 - 105)	6.7	(0-30)	SW846 8270C
2-Methylphenol	93	(40 - 105)			SW846 8270C
	82	(40 - 105)	16	(0-30)	SW846 8270C
3-Methylphenol & 4-Methylphenol	93	(40 - 105)			SW846 8270C
	86	(40 - 105)	11	(0-30)	SW846 8270C
Naphthalene	80	(40 - 105)			SW846 8270C
	76	(40 - 105)	10	(0-30)	SW846 8270C
2-Nitroaniline	103	(45 - 120)			SW846 8270C
	104	(45 - 120)	2.9	(0-30)	SW846 8270C
3-Nitroaniline	89	(25 - 110)			SW846 8270C
	99	(25 - 110)	6.5	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitroaniline	94	(35 - 115)			SW846 8270C
	112	(35 - 115)	13	(0-30)	SW846 8270C
Nitrobenzene	77	(40 - 115)			SW846 8270C
	74	(40 - 115)	7.3	(0-30)	SW846 8270C
2-Nitrophenol	85	(40 - 110)			SW846 8270C
	81	(40 - 110)	9.6	(0-30)	SW846 8270C
4-Nitrophenol	115	(15 - 140)			SW846 8270C
	129	(15 - 140)	7.1	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	90	(50 - 115)			SW846 8270C
	88	(50 - 115)	5.9	(0-30)	SW846 8270C
Pentachlorophenol	94	(25 - 120)			SW846 8270C
	97	(25 - 120)	0.15	(0-30)	SW846 8270C
Phenanthrene	74	(50 - 110)			SW846 8270C
	75	(50 - 110)	2.4	(0-30)	SW846 8270C
Phenol	86	(40 - 100)			SW846 8270C
	79	(40 - 100)	13	(0-30)	SW846 8270C
Pyrene	78	(45 - 125)			SW846 8270C
	77	(45 - 125)	4.7	(0-30)	SW846 8270C
1,2,4-Trichloro-benzene	75	(45 - 110)			SW846 8270C
	74	(45 - 110)	4.5	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	99	(50 - 110)			SW846 8270C
	104	(50 - 110)	1.0	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	98	(45 - 110)			SW846 8270C
	101	(45 - 110)	1.4	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	93	(45 - 105)
	86	(45 - 105)
2-Fluorophenol	82	(35 - 105)
	79	(35 - 105)
Nitrobenzene-d5	82	(35 - 100)
	78	(35 - 100)
Phenol-d5	91	(40 - 100)
	84	(40 - 100)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	102	(30 - 125)
	103	(30 - 125)
2,4,6-Tribromophenol	103	(35 - 125)
	115	(35 - 125)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 Work Order #...: MAC5P1AE-MS Matrix.....: SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD
Date Sampled...: 11/19/10 Date Received..: 11/20/10
Prep Date.....: 11/20/10 Analysis Date..: 11/21/10
Prep Batch #...: 0324068
Dilution Factor: 1.01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	3940	3520	ug/kg	89		SW846 8270C
	ND	3780	3430	ug/kg	91	2.6	SW846 8270C
Acenaphthylene	ND	3940	3740	ug/kg	95		SW846 8270C
	ND	3780	3670	ug/kg	97	2.1	SW846 8270C
Anthracene	160	3940	3750	ug/kg	91		SW846 8270C
	160	3780	3790	ug/kg	96	1.2	SW846 8270C
Azobenzene	ND	3940	3780	ug/kg	96		SW846 8270C
	ND	3780	3410	ug/kg	90	10	SW846 8270C
Benz(a)anthracene	440	3940	4070	ug/kg	92		SW846 8270C
	440	3780	3890	ug/kg	91	4.6	SW846 8270C
Benzo(b)fluoranthene	390	3940	4370	ug/kg	101		SW846 8270C
	390	3780	4020	ug/kg	96	8.2	SW846 8270C
Benzo(k)fluoranthene	340	3940	3740	ug/kg	86		SW846 8270C
	340	3780	3750	ug/kg	90	0.24	SW846 8270C
Benzoic acid	ND	3940	3350	ug/kg	85		SW846 8270C
	ND	3780	3180	ug/kg	84	5.1	SW846 8270C
Benzo(ghi)perylene	240	3940	3740	ug/kg	89		SW846 8270C
	240	3780	3690	ug/kg	91	1.5	SW846 8270C
Benzo(a)pyrene	400	3940	3580	ug/kg	81		SW846 8270C
	400	3780	3500	ug/kg	82	2.3	SW846 8270C
Benzyl alcohol	ND	3940	3510	ug/kg	89		SW846 8270C
	ND	3780	3080	ug/kg	82	13	SW846 8270C
bis(2-Chloroethoxy) methane	ND	3940	3130	ug/kg	79		SW846 8270C
	ND	3780	2910	ug/kg	77	7.4	SW846 8270C
bis(2-Chloroethyl)-ether	ND	3940	3060	ug/kg	78		SW846 8270C
	ND	3780	2800	ug/kg	74	8.8	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	3940	2910	ug/kg	74		SW846 8270C
	ND	3780	2690	ug/kg	71	8.0	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	3940	4140	ug/kg	105		SW846 8270C
	ND	3780	4220	ug/kg	112	1.8	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Bromophenyl phenyl ether	ND	3940	3720	ug/kg	95		SW846 8270C
	ND	3780	3510	ug/kg	93	5.9	SW846 8270C
Butyl benzyl phthalate	ND	3940	4040	ug/kg	103		SW846 8270C
	ND	3780	3960	ug/kg	105	2.1	SW846 8270C
Carbazole	ND	3940	3710	ug/kg	94		SW846 8270C
	ND	3780	3740	ug/kg	99	0.71	SW846 8270C
4-Chloroaniline	ND	3940	2950	ug/kg	75		SW846 8270C
	ND	3780	2800	ug/kg	74	5.2	SW846 8270C
4-Chloro-3-methylphenol	ND	3940	3780	ug/kg	96		SW846 8270C
	ND	3780	3870	ug/kg	102	2.4	SW846 8270C
2-Chloronaphthalene	ND	3940	3570	ug/kg	91		SW846 8270C
	ND	3780	3290	ug/kg	87	8.2	SW846 8270C
2-Chlorophenol	ND	3940	3260	ug/kg	83		SW846 8270C
	ND	3780	2950	ug/kg	78	10	SW846 8270C
4-Chlorophenyl phenyl ether	ND	3940	3670	ug/kg	93		SW846 8270C
	ND	3780	3720	ug/kg	99	1.5	SW846 8270C
Chrysene	480	3940	3930	ug/kg	88		SW846 8270C
	480	3780	3780	ug/kg	87	3.8	SW846 8270C
Dibenz(a,h)anthracene	ND	3940	3970	ug/kg	101		SW846 8270C
	ND	3780	3930	ug/kg	104	1.1	SW846 8270C
Dibenzofuran	ND	3940	3590	ug/kg	91		SW846 8270C
	ND	3780	3580	ug/kg	95	0.12	SW846 8270C
Di-n-butyl phthalate	ND	3940	3900	ug/kg	99		SW846 8270C
	ND	3780	4100	ug/kg	108	4.8	SW846 8270C
1,2-Dichlorobenzene	ND	3940	2920	ug/kg	74		SW846 8270C
	ND	3780	2600	ug/kg	69	12	SW846 8270C
1,3-Dichlorobenzene	ND	3940	2780	ug/kg	71		SW846 8270C
	ND	3780	2470	ug/kg	66	12	SW846 8270C
1,4-Dichlorobenzene	ND	3940	2790	ug/kg	71		SW846 8270C
	ND	3780	2460	ug/kg	65	13	SW846 8270C
3,3'-Dichlorobenzidine	ND	3940	3090	ug/kg	78		SW846 8270C
	ND	3780	3110	ug/kg	82	0.63	SW846 8270C
2,4-Dichlorophenol	ND	3940	3740	ug/kg	95		SW846 8270C
	ND	3780	3480	ug/kg	92	7.3	SW846 8270C
Diethyl phthalate	ND	3940	3840	ug/kg	98		SW846 8270C
	ND	3780	3840	ug/kg	102	0.09	SW846 8270C
2,4-Dimethylphenol	ND	3940	3610	ug/kg	92		SW846 8270C
	ND	3780	3370	ug/kg	89	6.9	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dimethyl phthalate	ND	3940	3780	ug/kg	96		SW846 8270C
	ND	3780	3670	ug/kg	97	3.1	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	3940	3550	ug/kg	90		SW846 8270C
	ND	3780	3620	ug/kg	96	2.1	SW846 8270C
2,4-Dinitrophenol	ND	3940	3370	ug/kg	86		SW846 8270C
	ND	3780	3630	ug/kg	96	7.2	SW846 8270C
2,4-Dinitrotoluene	ND	3940	3850	ug/kg	98		SW846 8270C
	ND	3780	4120	ug/kg	109	6.8	SW846 8270C
2,6-Dinitrotoluene	ND	3940	3700	ug/kg	94		SW846 8270C
	ND	3780	3790	ug/kg	100	2.4	SW846 8270C
Di-n-octyl phthalate	ND	3940	4270	ug/kg	108		SW846 8270C
	ND	3780	4530	ug/kg	120	6.0	SW846 8270C
Fluoranthene	900	3940	4520	ug/kg	92		SW846 8270C
	900	3780	4560	ug/kg	97	0.89	SW846 8270C
Fluorene	ND	3940	3550	ug/kg	90		SW846 8270C
	ND	3780	3680	ug/kg	98	3.8	SW846 8270C
Hexachlorobenzene	ND	3940	3580	ug/kg	91		SW846 8270C
	ND	3780	3600	ug/kg	95	0.32	SW846 8270C
Hexachlorobutadiene	ND	3940	3000	ug/kg	76		SW846 8270C
	ND	3780	2910	ug/kg	77	3.1	SW846 8270C
Hexachloroethane	ND	3940	2810	ug/kg	71		SW846 8270C
	ND	3780	2580	ug/kg	68	8.5	SW846 8270C
Indeno(1,2,3-cd)pyrene	320	3940	4200	ug/kg	99		SW846 8270C
	320	3780	4470	ug/kg	110	6.2	SW846 8270C
Isophorone	ND	3940	3240	ug/kg	82		SW846 8270C
	ND	3780	3080	ug/kg	81	5.2	SW846 8270C
2-Methylnaphthalene	ND	3940	3430	ug/kg	87		SW846 8270C
	ND	3780	3210	ug/kg	85	6.7	SW846 8270C
2-Methylphenol	ND	3940	3650	ug/kg	93		SW846 8270C
	ND	3780	3110	ug/kg	82	16	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	7880	7320	ug/kg	93		SW846 8270C
	ND	7560	6530	ug/kg	86	11	SW846 8270C
Naphthalene	ND	3940	3170	ug/kg	80		SW846 8270C
	ND	3780	2860	ug/kg	76	10	SW846 8270C
2-Nitroaniline	ND	3940	4060	ug/kg	103		SW846 8270C
	ND	3780	3940	ug/kg	104	2.9	SW846 8270C
3-Nitroaniline	ND	3940	3510	ug/kg	89		SW846 8270C
	ND	3780	3740	ug/kg	99	6.5	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitroaniline	ND	3940	3720	ug/kg	94		SW846 8270C
	ND	3780	4240	ug/kg	112	13	SW846 8270C
Nitrobenzene	ND	3940	3020	ug/kg	77		SW846 8270C
	ND	3780	2810	ug/kg	74	7.3	SW846 8270C
2-Nitrophenol	ND	3940	3360	ug/kg	85		SW846 8270C
	ND	3780	3050	ug/kg	81	9.6	SW846 8270C
4-Nitrophenol	ND	3940	4540	ug/kg	115		SW846 8270C
	ND	3780	4880	ug/kg	129	7.1	SW846 8270C
N-Nitrosodiphenylamine	ND	3940	3540	ug/kg	90		SW846 8270C
	ND	3780	3340	ug/kg	88	5.9	SW846 8270C
Pentachlorophenol	ND	3940	3680	ug/kg	94		SW846 8270C
	ND	3780	3680	ug/kg	97	0.15	SW846 8270C
Phenanthrene	910	3940	3820	ug/kg	74		SW846 8270C
	910	3780	3720	ug/kg	75	2.4	SW846 8270C
Phenol	ND	3940	3410	ug/kg	86		SW846 8270C
	ND	3780	2990	ug/kg	79	13	SW846 8270C
Pyrene	1100	3940	4150	ug/kg	78		SW846 8270C
	1100	3780	3960	ug/kg	77	4.7	SW846 8270C
1,2,4-Trichloro-benzene	ND	3940	2940	ug/kg	75		SW846 8270C
	ND	3780	2810	ug/kg	74	4.5	SW846 8270C
2,4,5-Trichloro-phenol	ND	3940	3900	ug/kg	99		SW846 8270C
	ND	3780	3940	ug/kg	104	1.0	SW846 8270C
2,4,6-Trichloro-phenol	ND	3940	3860	ug/kg	98		SW846 8270C
	ND	3780	3810	ug/kg	101	1.4	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	93	(45 - 105)
	86	(45 - 105)
2-Fluorophenol	82	(35 - 105)
	79	(35 - 105)
Nitrobenzene-d5	82	(35 - 100)
	78	(35 - 100)
Phenol-d5	91	(40 - 100)
	84	(40 - 100)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G0K200425 **Work Order #...:** MAC5P1AE-MS **Matrix.....:** SO
MS Lot-Sample #: G0K200425-006 MAC5P1AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	102	(30 - 125)
	103	(30 - 125)
2,4,6-Tribromophenol	103	(35 - 125)
	115	(35 - 125)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

SOLID, D 2216-90, Percent Moisture

ERRG

Client Sample ID: SS-RP01

General Chemistry

Lot-Sample #...: G0K200425-001 **Work Order #...:** MAC5G **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	11.3	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP02

General Chemistry

Lot-Sample #...: G0K200425-002 Work Order #...: MAC5K Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 7.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	7.3	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP03

General Chemistry

Lot-Sample #...: G0K200425-003 **Work Order #...:** MAC5L **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
% Moisture.....: 8.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**8.7**	**0.10**	**%**	**ASTM D 2216-90**	**11/24/10**	**0328193**

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP04

General Chemistry

Lot-Sample #...: G0K200425-004 Work Order #...: MAC5M Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 9.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	9.5	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP05

General Chemistry

Lot-Sample #...: G0K200425-005 Work Order #...: MAC5N Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.4	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP06

General Chemistry

Lot-Sample #...: G0K200425-006 **Work Order #...:** MAC5P **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.8	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP07

General Chemistry

Lot-Sample #...: G0K200425-007 Work Order #...: MAC5R Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	11.2	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP08

General Chemistry

Lot-Sample #...: G0K200425-008 **Work Order #...:** MAC5T **Matrix.....:** SO
Date Sampled...: 11/19/10 **Date Received..:** 11/20/10
% Moisture.....: 8.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**8.8**	**0.10**	**%**	**ASTM D 2216-90**	**11/24-11/25/10**	**0328193**

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP09

General Chemistry

Lot-Sample #...: G0K200425-009 Work Order #...: MAC5V Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	12.6	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP10

General Chemistry

Lot-Sample #...: G0K200425-010 Work Order #...: MAC57 Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.5	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP11

General Chemistry

Lot-Sample #...: G0K200425-011 Work Order #...: MAC59 Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	12.4	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

ERRG

Client Sample ID: SS-RP12

General Chemistry

Lot-Sample #...: G0K200425-012 Work Order #...: MAC6C Matrix.....: SO
Date Sampled...: 11/19/10 Date Received..: 11/20/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	11.3	0.10	%	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1 MDL.....: 0.10

QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
002	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
003	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
004	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
005	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
006	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	SW846 8270C		0324068	0324035
	SO	DHS CALUFT/GCMS V		0326482	0326308
007	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
008	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
009	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
010	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G0K200425

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
011	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
012	SO	ASTM D 2216-90		0328193	0328092
	SO	SW846 8260B		0325062	0325027
	SO	DHS CALUFT/GCMS V		0326482	0326308
013	WQ	SW846 8260B		0328196	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G0K200425 **Work Order #...:** MAC5G-SMP MAC5G-DUP **Matrix.....:** SO

Date Sampled...: 11/19/10 **Date Received..:** 11/20/10

% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G0K200425-001	
	11.3	11.1	%	2.0	(0-20)	ASTM D 2216-90	11/24-11/25/10	0328193

Dilution Factor: 1

SOLID, 8260B, Volatile Organics and CALUFT/GCMS, TPH-GRO

Raw Data Package

Run/Batch Data

Unused 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

TestAmerica West Sacramento

GC/MS VOA INSTRUMENT LOG

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8260B / Gas

SOP : WS-MS-0007 Rev# 4.2

Standard ID's

BFB-50	10MSV0408	8260s-IS	10MSV0529	8260s-SURR	10MSV0528
TCLA	10MSV0520	TCLA SS	10MSV0521	TFT-SURR	10MSV0199
TCLB	10MSV0497	TCLB SS	10MSV0444		
Odd #1	10MSV0515	Odd #1 ss	10MSV0516	WDM	10MSV0313
Odd #2	10MSV0517	Odd #2 SS	10MSV0518	Gasoline (PS)	10MSV0362
VA	10MSV0498	VA SS	10MSV0523	Gasoline (SS)	10MSV0375
AP9A	10MSV0487	AP9A SS	10MSV0409		
AP9B	10MSV0419	AP9B SS	10MSV0422	Gasoline Stock	10MSV0374
ACRLN	10MSV0412	ACRLN SS	10MSV0415	**SS USED FOR ICV ONLY**	

Inst ID : HP11.i
Batch ID : 112010.b
Matrix : SOIL
Level : LOW
Name/date: JB 11/21/10

Gas Key: 1=CA-LUFT 2=8015-Mod(C6-C12)
3=AK101 4=NW-TPH
5=Other (C___-C___)

HSL ICAL# 11/17/10 GAS ICAL# 7/15/10 AP9 ICAL# NA

Batch# 03250462 03250463 0324482

8260B[X] Gas[ ] 8260B[X] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ] 8260B[ ] Gas[ ]

Lot(s)# 425 444

Lot(s)#

QC WO# MADNQ1AA AC MADNR1AE/AF MAFCG1AA/AC

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
20-NOV-2010	19:41	CG	WDM	WDM1120.D	5 g	51			Not used
20-NOV-2010	20:02	LB	50ng BFB 1ul	BFB1120.D	0 mL	2			
20-NOV-2010	20:21	LB	HSL_40	HSL1120.D	5 g	1			
20-NOV-2010	20:45	LB	GAS_1000	GAS1120.D	5 g	2			
20-NOV-2010	21:09	LB	HSL_40	HSL1120A.	5 g	1			
20-NOV-2010	21:43	LB	50ng BFB 1ul	BFB1120A.	0 mL	2			raised EM
20-NOV-2010	22:03	LB	HSL_40	HSL1120B.	5 g	1			ok
20-NOV-2010	22:27	LB	GAS_1000	GAS1120A.	5 g	2			
20-NOV-2010	22:51	LB	LCS_HSL	D1120.D	5 g	3			
20-NOV-2010	23:15	LB	LCS_GAS	G1119.D	5 g	4			
20-NOV-2010	23:39	LB	VBLK	W1120.D	5 g	5			
21-NOV-2010	00:05	LB	MAC5T1AC G0K200425-6 1X	SA111901.	6.17 g	6	1		↓153
21-NOV-2010	00:29	LB	MAC5G1AC G0K200425-1 1X	SA111902.	5.31 g	7	3		↓54
21-NOV-2010	00:53	LB	MAC5K1AC G0K200425-2 1X	SA111903.	5.73 g	8	3		
21-NOV-2010	01:16	LB	MAC5L1AC G0K200425-3 1X	SA111904.	6.41 g	9	3		
21-NOV-2010	01:40	LB	MAC5M1AC G0K200425-4 1X	SA111905.	5.87 g	10	1		
21-NOV-2010	02:04	LB	MAC5N1AC G0K200425-5 1X	SA111906.	6.52 g	11	3		↓153,2,3 ↑53 ↓54
21-NOV-2010	02:28	LB	MAC5P1AC G0K200425-6 1X	SA111907.	6.38 g	12	4		↓153,2,3 ↑51 53
21-NOV-2010	02:52	LB	MAC5R1AC G0K200425-7 1X	SA111908.	6.17 g	13	1		↓153 ↓54
21-NOV-2010	03:16	LB	MAC5T1AF G0K200425-8S	SA111909.	5.75 g	14	5		
21-NOV-2010	03:40	LB	MAC5T1AG G0K200425-8D	SA111910	g	15	7		
21-NOV-2010	04:03	LB	COB	COB01.D	5 g	16			
21-NOV-2010	04:27	LB	GAS_1000	GAS1120B.	5 g	17			
21-NOV-2010	04:51	LB	MAC5V1AC G0K200425-9 1X	SA111913.	6.28 g	18	1		↓153 ↑53
21-NOV-2010	05:15	LB	MAC5T1AC G0K200425-10 1X	SA111914.	6.05 g	19	3		↓153 ↓54
21-NOV-2010	05:39	LB	MAC5R1AC G0K200425-11 1X	SA111915.	6.24 g	20	1		↓153
21-NOV-2010	06:03	LB	MAC5G1AC G0K200425-12 1X	SA111916.	6.55 g	21	1		↓153,2,3 ↑51,53 ↓54
21-NOV-2010	06:27	LB	COB	COB02.D	5 g	22			
21-NOV-2010	06:50	LB	GAS_2500	GAS1120C.	5 g	23			
21-NOV-2010	07:14	LB	MAC5T1AE G0K200425-8S	SA111917.	5.73 g	24	2		↓153 ↓54
21-NOV-2010	07:38	LB	MAC5T1AE G0K200425-8D	SA111918	g	25	4		↓54
21-NOV-2010	08:02	LB	COB	COB03.D	5 g	26			

Sequence continued on next page

TestAmerica West Sacramento

GC/MS VOA INSTRUMENT LOG

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Page 2 of Batch 112010.b on Instrument HP11.I

For header information, refer to the first page of this batch's log.

Date	Time	Optr	Sample ID	File ID	Vol or Wt	AS Posn	Vial #	pH <2	Comments
21-NOV-2010	08:26	LB	L9X951AN G0K120444-5 1X	SA111919.	5.37 g	27			OK
21-NOV-2010	08:50	LB	L9X961AN G0K120444-6 1X	SA111920.	5.41 g	28			OK
21-NOV-2010	09:13	LB	L9X981AN G0K120444-7 1X	SA111921.	6.2 g	29			OK
21-NOV-2010	09:37	LB	WDM	WDM1120A.	5 g	30			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8260/GAS CCV Checklist

Instrument:HP11

ICAL Date: HSL111710, GAS071510

Date/Initiator: November 20, 2010 JB

Reviewer/Date: [illegible] 11/22/10

Matrix: Low Level Soils

BFB ID: BFB1120A

Standard ID: HSL1118B, GAS1120A

Mid/Ending Gasoline CCV's: GAS1120B/C

NCM #: None

I: 8260B Criteria

	Initiated	Reviewed
Log Book page included and filled out.	☑	☑
CCV compared to correct ICAL.	☑	☑
Tune documentation is present and meets criteria.	☑	☑
Manual re-integrations are checked, initialed and hardcopies included.	☑	☑
Retention time correct for Isomers and all other analytes.	☑	☑
CCV Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Samples analyzed within 12 hours of Tune time.	☑	☑
Minimum SPCC RRF and CCC %D criteria met.	☑	☑
Analytes using same quantitation mass and close elution times checked.		

Mass	Target ID#	Analytes	Initiated	Reviewed
101	13, 15	Trichlorofluoromethane & Trichlorotrifluoroethane	☑	☑
96	17, 26, 35	1,1-Dichloroethene, trans-1,2-Dichloroethene & cis-1,2-Dichloroethene	☑	☑
43	31, 38	Vinyl Acetate & 2-Butanone	☑	☑
78	44, 47	Benzene & 1,1-Dichloropropene	☑	☑
106, 104	71, 72, 73	Xylenes (m,p) & Xylene (o) & Styrene	☑	☑
105	75, 82, 85, 86	Isopropylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene & Sec-Butylbenzene	☑	☑
146	87, 89, 91	1,3-Dichlorobenzene, 1,4-dichlorobenzene & 1,2-Dichlorobenzene	☑	☑
91	79, 81, 83, 90	N-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene & N-Butylbenzene	☑	☑
180	93, 96	1,2,4-Trichlorobenzene & 1,2,3-Trichlorobenzene	☑	☑

II: AFCEE 3.1 and 4.0 QAPP and QSM V4 Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	☑	See Note
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	☑	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☑	☑

IV: Gas Criteria

	Initiated	Reviewed
CCV and alternate level must be <20% D.	☑	See Note
CCV compared to correct ICAL.	☑	☑
Window Defining Mix is present and retention times are correct.	☑	☑

V: Analytes Over 20%D

Dichlorodifluoromethane @-28%D (OK problematic compounds for QSM 4.2) ; Acetone @ +28 %D.
t-Butanol @ +45%D (Not a compound of interest for QSM 4.2, OK for A15QK3Y)
1,4-Dioxane @ +41%D (Not a compound of interest) ; Acrylonitrile @ +21 %D.

Blk surrogates good for A4DQKD4, A15QK34
gas ccvs good for CA1UFT

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP11.i
Lab File ID: HSL1120B.D
Analysis Type: SOIL
Lab Sample ID: HSL 40
Method: \\qsacca01\chem\HP11.i\112010.b\8260S.m

Injection Date: 20-NOV-2010 22:03
Init. Cal. Date(s): 17-NOV-2010 17-NOV-2010
Init. Cal. Times: 13:30 16:23
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.32556	0.33331	0.33331	0.010	2.38166	40.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.28682	0.29850	0.29850	0.010	4.07074	40.00000	Averaged	
$ 6 Toluene-d8	0.94331	1.05775	1.05775	0.010	12.13160	40.00000	Averaged	
$ 7 4-Bromofluorobenzene	0.45901	0.44157	0.44157	0.010	-3.80074	40.00000	Averaged	
8 Dichlorodifluoromethane	0.39891	0.28794	0.28794	0.010	-27.81762	40.00000	Averaged	
9 Chloromethane (**)	0.43447	0.41883	0.41883	0.100	-3.60090	40.00000	Averaged	
10 Vinyl Chloride (*)	0.40572	0.39768	0.39768	0.010	-1.98328	20.00000	Averaged	
11 Bromomethane	0.20932	0.22142	0.22142	0.010	5.77735	40.00000	Averaged	
12 Chloroethane	0.24715	0.25191	0.25191	0.010	1.92609	40.00000	Averaged	
13 Trichlorofluoromethane	0.52221	0.46401	0.46401	0.010	-11.14484	40.00000	Averaged	
15 Trichlorotrifluoroethane	0.33769	0.28433	0.28433	0.010	-15.80279	40.00000	Averaged	
17 1,1-Dichloroethene(*)	0.30836	0.28073	0.28073	0.010	-8.95958	20.00000	Averaged	
18 Acetone	0.08068	0.10331	0.10331	0.010	28.03791	40.00000	Averaged	
21 Carbon disulfide	1.06077	1.01277	1.01277	0.010	-4.52551	40.00000	Averaged	
31 Vinyl acetate	0.45632	0.50328	0.50328	0.010	10.29104	40.00000	Averaged	
22 Methylene Chloride	0.37971	0.36159	0.36159	0.010	-4.77218	40.00000	Averaged	
23 t-Butanol	0.02255	0.03275	0.03275	0.001	45.23963	40.00000	Averaged	<-OK 34
25 Methyl-t-butyl-ether	0.81849	0.94193	0.94193	0.010	15.08140	40.00000	Averaged	
26 trans-1,2-Dichloroethene	0.35887	0.33844	0.33844	0.010	-5.69110	40.00000	Averaged	
27 Acrylonitrile	0.10945	0.13238	0.13238	0.010	20.94956	40.00000	Averaged	
30 1,1-Dichloroethane (**)	0.59006	0.55605	0.55605	0.100	-5.76455	40.00000	Averaged	
33 2,2-Dichloropropane	0.30846	0.32552	0.32552	0.010	5.52989	40.00000	Averaged	
35 cis 1,2-Dichloroethene	0.37928	0.36290	0.36290	0.010	-4.31923	40.00000	Averaged	
38 2-Butanone	0.11554	0.12654	0.12654	0.010	9.52045	40.00000	Averaged	
40 Bromochloromethane	0.18296	0.18102	0.18102	0.010	-1.06441	40.00000	Averaged	
41 Chloroform (*)	0.56507	0.53767	0.53767	0.010	-4.84913	20.00000	Averaged	
42 1,1,1-Trichloroethane	0.45774	0.43764	0.43764	0.010	-4.39210	40.00000	Averaged	
43 Carbon Tetrachloride	0.42180	0.39470	0.39470	0.010	-6.42514	40.00000	Averaged	
44 1,1-Dichloropropene	0.39405	0.34142	0.34142	0.010	-13.35636	40.00000	Averaged	
47 Benzene	1.25072	1.15678	1.15678	0.010	-7.51091	40.00000	Averaged	
48 1,2-Dichloroethane	0.35867	0.35044	0.35044	0.010	-2.29619	40.00000	Averaged	
49 Trichloroethene	0.29585	0.25611	0.25611	0.010	-13.43326	40.00000	Averaged	
51 1,2-Dichloropropane(*)	0.28006	0.26482	0.26482	0.010	-5.44309	20.00000	Averaged	
52 Dibromomethane	0.15853	0.15526	0.15526	0.010	-2.06016	40.00000	Averaged	
53 1,4-Dioxane	0.00228	0.00322	0.00322	0.000	41.33961	40.00000	Averaged	<- NC
54 Bromodichloromethane	0.34657	0.33604	0.33604	0.010	-3.03796	40.00000	Averaged	
55 2-Chloroethyl vinyl ether	40.00000	39.61091	0.07263	0.001	-0.97272	40.00000	Quadratic	
56 cis-1,3-Dichloropropene (xt	40.00000	35.64394	0.31617	0.010	-10.89015	40.00000	Quadratic	
57 4-Methyl-2-pentanone	40.00000	43.55570	0.26980	0.010	8.88925	40.00000	Quadratic	
58 Toluene (*)	0.67652	0.63085	0.63085	0.010	-6.75101	20.00000	Averaged	
60 trans-1,3-Dichloropropene(x	40.00000	37.73231	0.23877	0.010	-5.66923	40.00000	Quadratic	
61 1,1,2-Trichloroethane	0.19529	0.19251	0.19251	0.010	-1.42392	40.00000	Averaged	

Manual calculation for Bromochloromethane:

$\frac{89046}{814901} \times \frac{50}{40} = 0.18102$ RY 11/22/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP11.i
Lab File ID: HSL1120B.D
Analysis Type: SOIL
Lab Sample ID: HSL 40
Method: \\qsacca01\chem\HP11.i\112010.b\8260S.m

Injection Date: 20-NOV-2010 22:03
Init. Cal. Date(s): 17-NOV-2010 17-NOV-2010
Init. Cal. Times: 13:30 16:23
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
62 Tetrachloroethene	0.39108	0.33493	0.33493	0.010	-14.35730	40.00000	Averaged
63 1,3-Dichloropropane	0.40537	0.38063	0.38063	0.010	-6.10312	40.00000	Averaged
64 2-Hexanone	0.14493	0.16753	0.16753	0.010	15.59189	40.00000	Averaged
65 Dibromochloromethane	0.29129	0.28229	0.28229	0.010	-3.09264	40.00000	Averaged
66 1,2-Dibromoethane	0.23146	0.21567	0.21567	0.010	-6.82290	40.00000	Averaged
67 1-Chlorohexane	0.39172	0.32458	0.32458	0.010	-17.13880	40.00000	Averaged
68 Chlorobenzene (**)	0.93372	0.81187	0.81187	0.300	-13.04953	40.00000	Averaged
69 Ethylbenzene (*)	0.51778	0.46290	0.46290	0.010	-10.59877	20.00000	Averaged
70 1,1,1,2-Tetrachloroethane	0.38467	0.35643	0.35643	0.010	-7.34126	40.00000	Averaged
71 Xylenes (m,p)	0.64503	0.58236	0.58236	0.010	-9.71680	40.00000	Averaged
72 Xylene (o)	0.65960	0.60211	0.60211	0.010	-8.71550	40.00000	Averaged
73 Styrene	0.98509	0.86996	0.86996	0.010	-11.68783	40.00000	Averaged
74 Bromoform (**)	0.18921	0.18308	0.18308	0.100	-3.23932	40.00000	Averaged
75 Isopropylbenzene	1.64698	1.52249	1.52249	0.010	-7.55876	40.00000	Averaged
77 Bromobenzene	0.63685	0.61333	0.61333	0.010	-3.69254	40.00000	Averaged
78 1,1,2,2-Tetrachloroethane(*	0.56226	0.63237	0.63237	0.300	12.46823	40.00000	Averaged
79 N-Propylbenzene	3.09980	3.21312	3.21312	0.010	3.65561	40.00000	Averaged
80 1,2,3-Trichloropropane	0.17274	0.18889	0.18889	0.010	9.35236	40.00000	Averaged
81 2-Chlorotoluene	1.83445	1.85101	1.85101	0.010	0.90256	40.00000	Averaged
82 1,3,5-Trimethylbenzene	2.33808	2.30128	2.30128	0.010	-1.57422	40.00000	Averaged
83 4-Chlorotoluene	2.03047	1.94566	1.94566	0.010	-4.17669	40.00000	Averaged
84 T-Butylbenzene	40.00000	35.51824	2.05397	0.010	-11.20441	40.00000	Quadratic
85 1,2,4-Trimethylbenzene	2.34604	2.32332	2.32332	0.010	-0.96861	40.00000	Averaged
86 Sec-Butylbenzene	3.24536	3.22686	3.22686	0.010	-0.57025	40.00000	Averaged
87 1,3-Dichlorobenzene	1.39121	1.26736	1.26736	0.010	-8.90191	40.00000	Averaged
88 P-Isopropyltoluene	2.80779	2.72470	2.72470	0.010	-2.95911	40.00000	Averaged
89 1,4-Dichlorobenzene	1.41232	1.23664	1.23664	0.010	-12.43935	40.00000	Averaged
90 N-Butylbenzene	2.45983	2.48152	2.48152	0.010	0.88203	40.00000	Averaged
91 1,2-Dichlorobenzene	1.36984	1.28425	1.28425	0.010	-6.24790	40.00000	Averaged
92 1,2-Dibromo-3-chloropropane	0.09496	0.10223	0.10223	0.001	7.65505	40.00000	Averaged
93 1,2,4-Trichlorobenzene	0.90770	0.91996	0.91996	0.010	1.35026	40.00000	Averaged
94 Hexachlorobutadiene	0.60316	0.60422	0.60422	0.010	0.17619	40.00000	Averaged
95 Naphthalene	40.00000	34.93400	2.06252	0.010	-12.66499	40.00000	Quadratic
96 1,2,3-Trichlorobenzene	0.85782	0.90974	0.90974	0.010	6.05353	40.00000	Averaged
M 97 1,2-Dichloroethene (Total)	0.36907	0.35067	0.35067	0.010	-4.98620	40.00000	Averaged
M 98 Xylenes (Total)	0.64989	0.58894	0.58894	0.010	-9.37805	40.00000	Averaged

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP11.i Injection Date: 20-NOV-2010 22:03
Lab File ID: HSL1120B.D Init. Cal. Date(s): 17-NOV-2010 17-NOV-2010
Analysis Type: SOIL Init. Cal. Times: 13:30 16:23
Lab Sample ID: HSL 40 Quant Type: ISTD
Method: \\qsacca01\chem\HP11.i\112010.b\8260S.m

```
|Average %D / Drift Results.                          |
|=====================================================|
|Calculated Average %D/Drift =    8.41280            |
|Maximun Average %D/Drift    =   15.00000            |
|* Passed Average %D/Drift Test.                      |
|_____________________________________________________|
```

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP11.i Injection Date: 21-NOV-2010 04:27
Lab File ID: GAS1120B.D Init. Cal. Date(s): 15-JUL-2010 15-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 10:39 13:34
Lab Sample ID: Quant Type: ESTD
Method: \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	25457	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	24586	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	26556	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	15549	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	9026	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	31093	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	19104	0.010	++++	0.000e+000	Averaged	<-
S 147 8015B (GRO)	25247	21485	0.010	-14.90099	15.00000	Averaged	
S 148 AK101	20247	16333	0.010	-19.33450	20.00000	Averaged	
S 149 CALUFT	20333	17765	0.010	-12.63335	15.00000	Averaged	
S 150 NWTPH-Gx	17951	13913	0.010	-22.49419	15.00000	Averaged	<-
S 151 Gas C6-C12	25264	20888	0.010	-17.32288	15.00000	Averaged	<-
S 152 GAS C6-C10	20753	17751	0.010	-14.46710	20.00000	Averaged	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP11.i Injection Date: 20-NOV-2010 22:27
Lab File ID: GAS1120A.D Init. Cal. Date(s): 15-JUL-2010 15-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 10:39 13:34
Lab Sample ID: Quant Type: ESTD
Method: \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	30341	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	29371	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	31862	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	12737	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	9917	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	34740	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	21353	0.010	++++	0.000e+000	Averaged	<-
S 147 8015B (GRO)	25247	24976	0.010	-1.07378	15.00000	Averaged	
S 148 AK101	20247	19026	0.010	-6.03338	20.00000	Averaged	
S 149 CALUFT	20333	20417	0.010	0.41038	15.00000	Averaged	
S 150 NWTPH-Gx	17951	16043	0.010	-10.62673	15.00000	Averaged	
S 151 Gas C6-C12	25264	24469	0.010	-3.14850	15.00000	Averaged	
S 152 GAS C6-C10	20753	20681	0.010	-0.34721	20.00000	Averaged	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: HP11.i Injection Date: 21-NOV-2010 06:50
Lab File ID: GAS1120C.D Init. Cal. Date(s): 15-JUL-2010 15-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 10:39 13:34
Lab Sample ID: Quant Type: ESTD
Method: \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M

COMPOUND	RRF / AMOUNT	RF2500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
3 1,4-Difluorobenzene	++++	29288	0.010	++++	0.000e+000	Averaged	<-
6 Chlorobenzene-d5	++++	25419	0.010	++++	0.000e+000	Averaged	<-
8 1,4-Dichlorobenzene-d4	++++	27911	0.010	++++	0.000e+000	Averaged	<-
1 Dibromofluoromethane	++++	11002	0.010	++++	0.000e+000	Averaged	<-
2 1,2-Dichloroethane-d4	++++	8612	0.010	++++	0.000e+000	Averaged	<-
5 Toluene-d8	++++	33356	0.010	++++	0.000e+000	Averaged	<-
7 4-Bromofluorobenzene	++++	20446	0.010	++++	0.000e+000	Averaged	<-
S 147 8015B (GRO)	25247	21907	0.010	-13.22810	15.00000	Averaged	
S 148 AK101	20247	16715	0.010	-17.44855	20.00000	Averaged	
S 149 CALUFT	20333	18073	0.010	-11.11691	15.00000	Averaged	
S 150 NWTPH-Gx	17951	14261	0.010	-20.55753	15.00000	Averaged	<-
S 151 Gas C6-C12	25264	21605	0.010	-14.48525	15.00000	Averaged	
S 152 GAS C6-C10	20753	18163	0.010	-12.47833	20.00000	Averaged	

TestAmerica West Sacramento

Data file : \\qsacca01\chem\HP11.i\112010.b\BFB1120A.D
Lab Smp Id: BFB 1uL
Inj Date : 20-NOV-2010 21:43
Operator : LB Inst ID: HP11.i
Smp Info : 50ng BFB 1ul ;cg
Misc Info : 1;water;0;3_BFB.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\BFB39011.m
Meth Date : 12-Nov-2010 07:47 gainesc Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3_bfb.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.559	3.510	(0.000)	95	407360			0.00- 100.00	100.00
3.559	3.510	(0.000)	50	72040			15.00- 40.00	17.68
3.559	3.510	(0.000)	75	185920			30.00- 60.00	45.64
3.559	3.510	(0.000)	96	26656			5.00- 9.00	6.54
3.559	3.510	(0.000)	173	2310			0.00- 2.00	0.63
3.559	3.510	(0.000)	174	365760			50.00- 0.00	89.79
3.559	3.510	(0.000)	175	25624			5.00- 9.00	7.01
3.559	3.510	(0.000)	176	356864			95.00- 101.00	97.57
3.559	3.510	(0.000)	177	22664			5.00- 9.00	6.35

LB 11/21/10

Data File: \\qsacca01\chem\HP11.i\112010.b\BFB1120A.D

Date : 20-NOV-2010 21:43

Client ID:

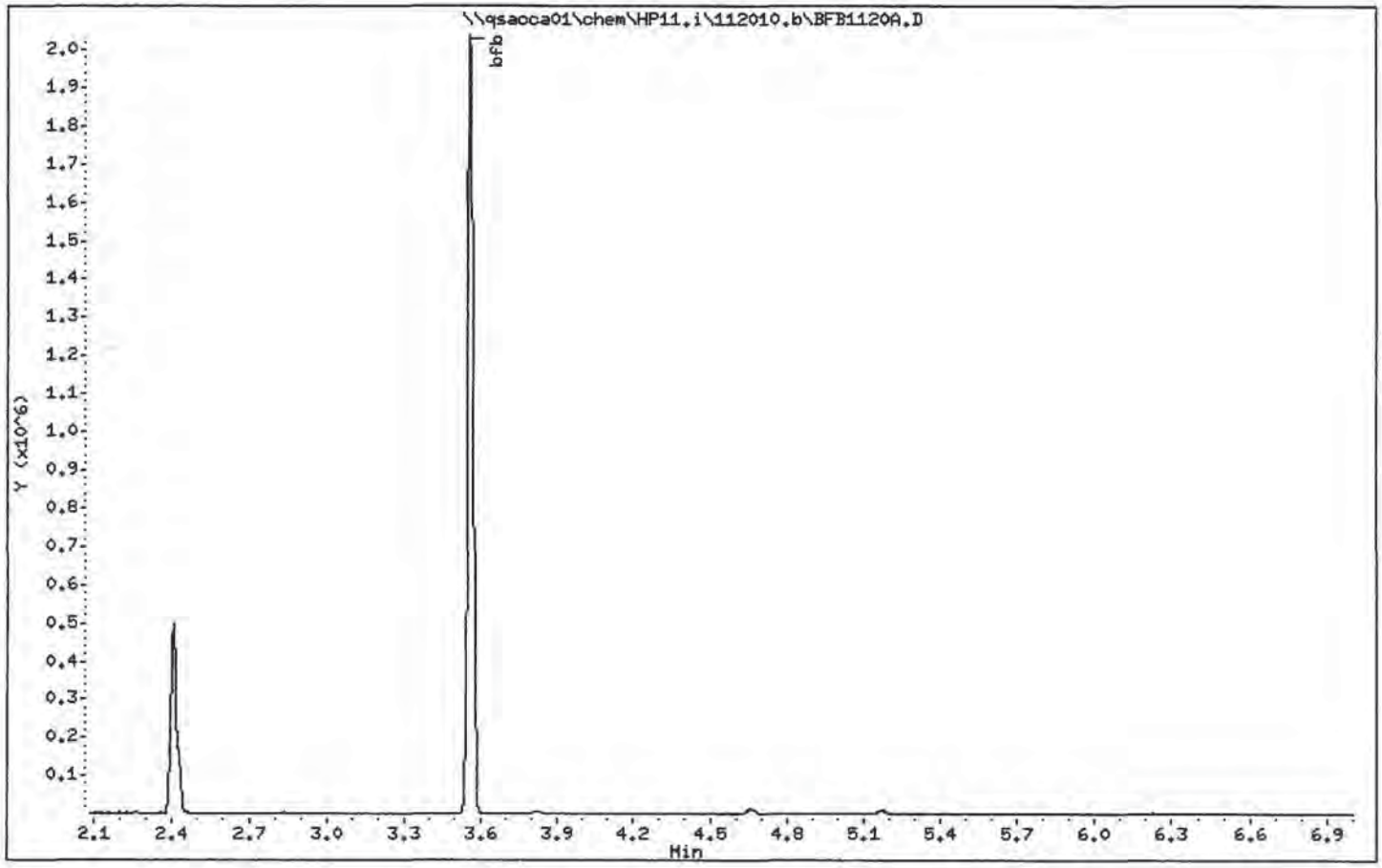
Instrument: HP11.i

Sample Info: 50ng BFB 1ul ;cg

Operator: LB

Column phase:

Column diameter: 2.00



Data File: \\qsacca01\chem\HP11.i\112010.b\BFB1120A.D

Date : 20-NOV-2010 21:43

Client ID:

Instrument: HP11.i

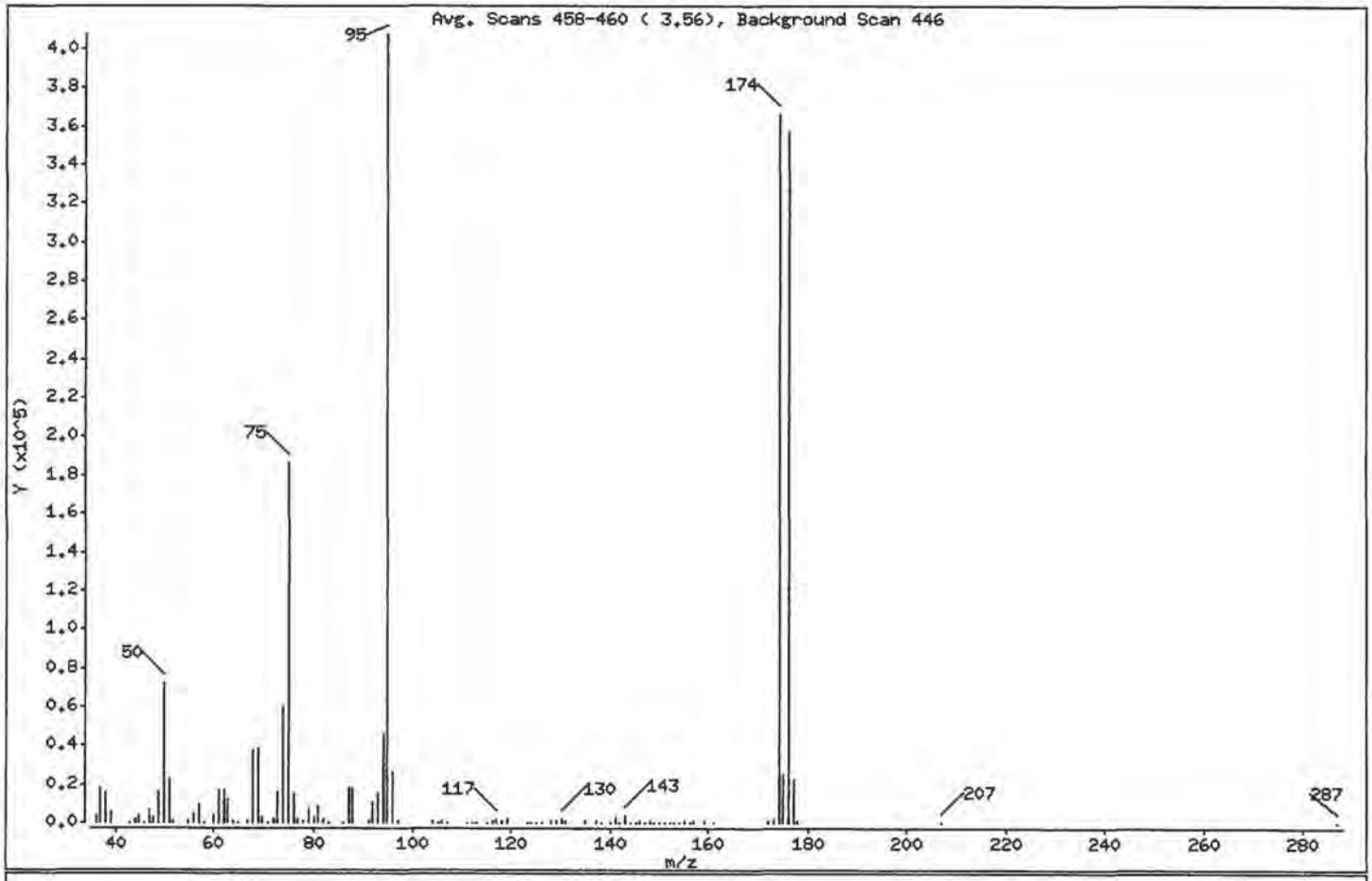
Sample Info: 50ng BFB 1ul ;cg

Operator: LB

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.68
75	30.00 - 60.00% of mass 95	45.64
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.57 (0.63)
174	Greater than 50.00% of mass 95	89.79
175	5.00 - 9.00% of mass 174	6.29 (7.01)
176	95.00 - 101.00% of mass 174	87.60 (97.57)
177	5.00 - 9.00% of mass 176	5.56 (6.35)

Data File: \\qsacca01\chem\HP11.i\112010.b\BFB1120A.D

Date : 20-NOV-2010 21:43

Client ID:

Instrument: HP11.i

Sample Info: 50ng BFB 1ul ;cg

Operator: LB

Column phase:

Column diameter: 2.00

Data File: BFB1120A.D
Spectrum: Avg. Scans 458-460 (3.56), Background Scan 446
Location of Maximum: 95.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3576	69.00	38168	105.00	424	144.00	225
37.00	17584	70.00	3072	106.00	1141	145.00	274
38.00	16384	71.00	50	107.00	241	146.00	696
39.00	6072	72.00	2040	111.00	240	147.00	333
43.00	58	73.00	15666	112.00	119	148.00	871
44.00	1976	74.00	60352	113.00	237	149.00	290
45.00	3356	75.00	185920	115.00	371	150.00	433
46.00	338	76.00	15271	116.00	1201	151.00	58
47.00	6283	77.00	1718	117.00	2112	152.00	137
48.00	2344	78.00	1375	118.00	1147	153.00	280
49.00	15477	79.00	7194	119.00	1987	154.00	345
50.00	72040	80.00	2356	123.00	51	155.00	1015
51.00	22536	81.00	8243	124.00	246	156.00	86
52.00	808	82.00	1512	125.00	54	157.00	707
55.00	785	83.00	86	126.00	68	159.00	551
56.00	5005	86.00	427	128.00	1288	161.00	429
57.00	9234	87.00	17336	129.00	634	172.00	546
58.00	415	88.00	17568	130.00	1422	173.00	2310
60.00	3297	91.00	1170	131.00	505	174.00	365760
61.00	16408	92.00	10000	135.00	607	175.00	25624
62.00	16520	93.00	15327	137.00	902	176.00	356864
63.00	11983	94.00	45752	138.00	56	177.00	22664
64.00	1247	95.00	407360	140.00	98	178.00	560
65.00	430	96.00	26656	141.00	3154	207.00	57
67.00	970	97.00	769	142.00	427	287.00	56
68.00	37016	104.00	1397	143.00	3647		

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\WDM1120A.D
Lab Smp Id:
Inj Date : 21-NOV-2010 09:37
Operator : LB Inst ID: HP11.i
Smp Info : WDM;CG;0;;;;;5.00
Misc Info : 2;SOIL;0;WDM.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:13 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: WDM.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1134310			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1132502			(a)
8 1,4-Dichlorobenzene-d4	10.446	10.446	0.000	1281641			(a)
1 Dibromofluoromethane	4.954	4.954	0.000	1071461			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	827832			(a)
5 Toluene-d8	6.912	6.913	-0.001	2689948			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1653310			(a)
153 Pentafluoroethane	Compound Not Detected.						
154 2-Methylpentane	3.411	3.408	0.003	354106			(a)
155 Hexane	3.896	3.893	0.003	182535			(a)
156 Heptane	5.369	5.369	0.000	489362			(a)
157 Decane	9.751	9.748	0.003	143868			(a)
158 1,2,4-Trimethylbenzene	10.112	10.109	0.003	241330			(a)
159 Dodecane	12.005	12.009	-0.004	80949			(a)
160 Naphthalene	12.677	12.678	-0.001	146663			(a)
161 Toluene	6.973	6.974	-0.001	495115			(a)
S 147 8015B (GRO)	3.340-10.165			980939	38.8540	38.85	
S 148 AK101	3.830-9.650			977168	48.2612	48.26	
S 149 CALUFT	5.300-12.050			849342	41.7706	41.77	
S 150 NWTPH-Gx	6.870-12.730			759215	42.2940	42.29	

LB 11/21/10

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\WDM1120A.D
Lab Smp Id:
Inj Date : 21-NOV-2010 09:37
Operator : LB Inst ID: HP11.i
Smp Info : WDM;CG;0;;;;;5.00
Misc Info : 2;SOIL;0;WDM.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:13 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: WDM.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.984	7357	3223	0.438	0.05	
3.411	354107	174421	0.493	2.73	154 2-Methylpentane
3.897	182535	103422	0.567	1.41	155 Hexane
4.955	1071462	600872	0.561	8.27	1 Dibromofluoromethan
5.247	827832	466669	0.564	6.39	2 1,2-Dichloroethane-
5.370	489363	255097	0.521	3.78	156 Heptane
5.627	1134311	670963	0.592	8.76	3 1,4-Difluorobenzene
6.740	977169	601824	0.616	7.54	S 148 AK101
6.753	980940	603420	0.615	7.57	S 147 8015B (GRO)
6.815	977169	601824	0.616	7.54	S 152 GAS C6-C10
5.299	155521	90613	0.583		
5.527	96525	58989	0.611		
7.328	4676	2120	0.453		
7.646	4853	2810	0.579		
8.138	4429	3070	0.693		
8.347	143573	87536	0.610		
8.453	274919	170581	0.620		
8.832	281169	179737	0.639		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.514	11504	6368	0.554		
6.913	2689948	1649517	0.613	-14.17	5 Toluene-d8
6.974	495115	294204	0.594	3.82	161 Toluene
7.940	1004863	617176	0.614	7.76	S 151 Gas C6-C12
9.951	3771	1596	0.423		
10.321	4099	1836	0.448		
11.347	7026	2875	0.409		
11.482	12798	9045	0.707		
8.222	1132503	695535	0.614	8.74	6 Chlorobenzene-d5
8.675	849342	526563	0.620	6.56	S 149 CALUFT
9.328	1653311	1063018	0.643	12.77	7 4-Bromofluorobenzen
9.752	143869	98239	0.683	1.11	157 Decane
9.800	759215	471257	0.621	5.86	S 150 NWTPH-Gx
12.562	6398	3683	0.576		
10.112	241331	157264	0.652	1.86	158 1,2,4-Trimethylbenz
10.446	1281641	798465	0.623	9.90	8 1,4-Dichlorobenzene
12.006	80950	59030	0.729	0.62	159 Dodecane
12.678	146664	91649	0.625	1.13	160 Naphthalene
	12943559	7802447		100.000	

Total unknown % area = 0.0500

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
S 151 Gas C6-C12	3.830-	12.050		1004863	39.7743	39.77
S 152 GAS C6-C10	3.830-	9.800		977168	47.0858	47.08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

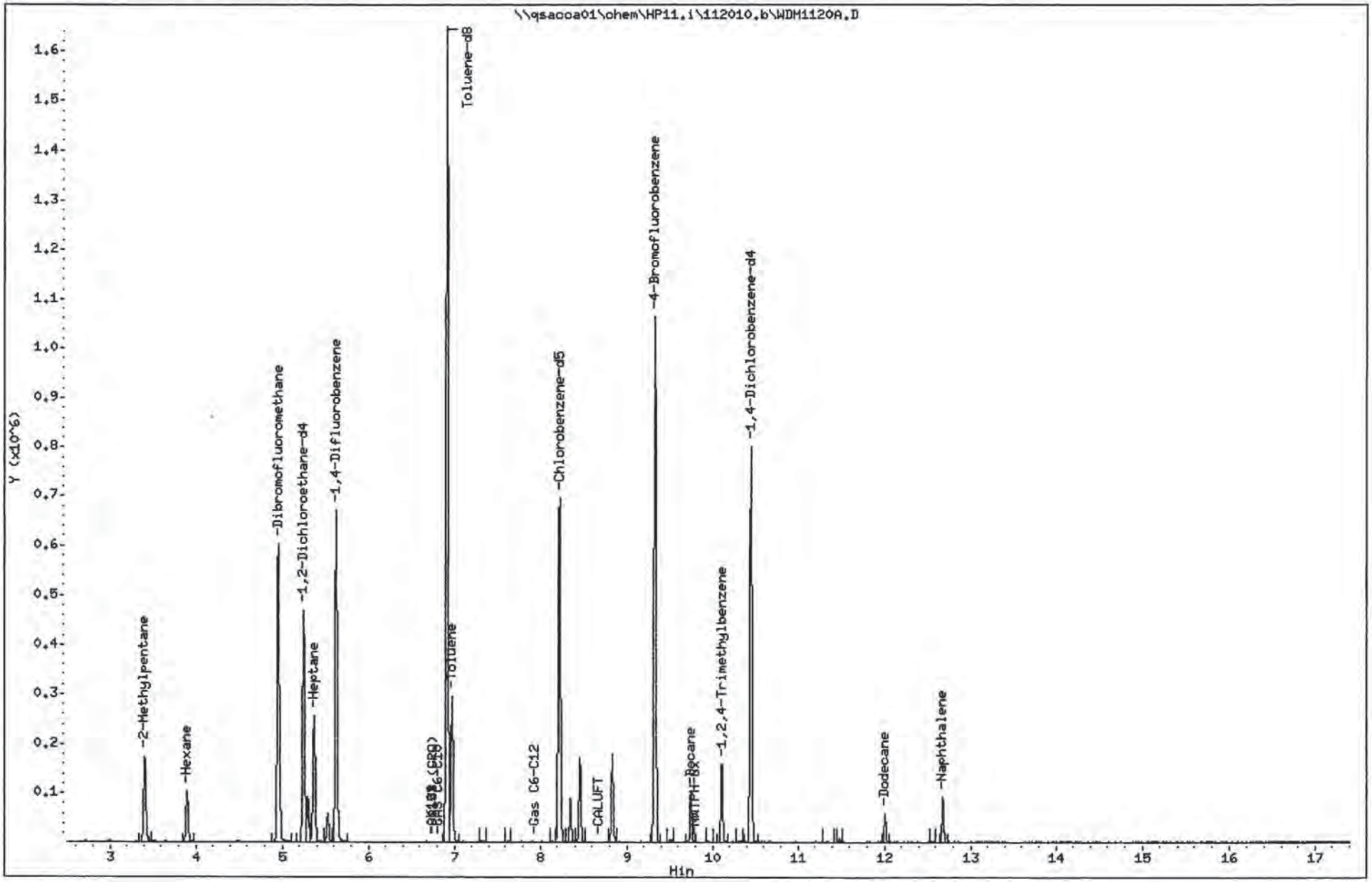
Data File: \\qsacoa01\chem\HP11.i\112010.b\WDM1120A.D
Date : 21-NOV-2010 09:37
Client ID:
Sample Info: WDM:CG:0:::::5.00

Column phase: J&W DB-624

Page 5

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\HSL1120B.D
Lab Smp Id: HSL_40
Inj Date : 20-NOV-2010 22:03
Operator : LB Inst ID: HP11.i
Smp Info : HSL_40;CG ;2;;5;;;5.00
Misc Info : 2;SOIL;0;1_8260.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 22:24 target Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1_8260.sub
Target Version: 4.14
Processing Host: SACPHP11

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/KG)	AMOUNTS ON-COL (ug/KG)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	614901	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	501718	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.446	10.446	(1.000)	289308	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	409906	100.000	102.382
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	367094	100.000	104.071
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1300825	100.000	112.132
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	443085	100.000	96.1992
8 Dichlorodifluoromethane	85	1.398	1.398	(0.249)	141646	40.0000	28.8730
9 Chloromethane (**)	50	1.556	1.556	(0.277)	206029	40.0000	38.5596
10 Vinyl Chloride (*)	62	1.675	1.675	(0.298)	195626	40.0000	39.2067
11 Bromomethane	94	2.015	2.015	(0.358)	108920	40.0000	42.3109
12 Chloroethane	64	2.125	2.125	(0.378)	123920	40.0000	40.7704
13 Trichlorofluoromethane	101	2.398	2.398	(0.426)	228258	40.0000	35.5421
15 Trichlorotrifluoroethane	101	2.935	2.935	(0.522)	139867	40.0000	33.6789
17 1,1-Dichloroethene(*)	96	2.909	2.909	(0.517)	138099	40.0000	36.4162
18 Acetone	43	2.974	2.974	(0.529)	50819	40.0000	51.2152(M)
21 Carbon disulfide	76	3.109	3.109	(0.553)	498201	40.0000	38.1898
31 Vinyl acetate	43	4.080	4.080	(0.725)	247576	40.0000	44.1164
22 Methylene Chloride	84	3.382	3.382	(0.601)	177873	40.0000	38.0911
23 t-Butanol	59	3.507	3.507	(0.623)	402803	1000.00	1452.40
25 Methyl-t-butyl-ether	73	3.642	3.642	(0.647)	463356	40.0000	46.0326

LB 11/21/10

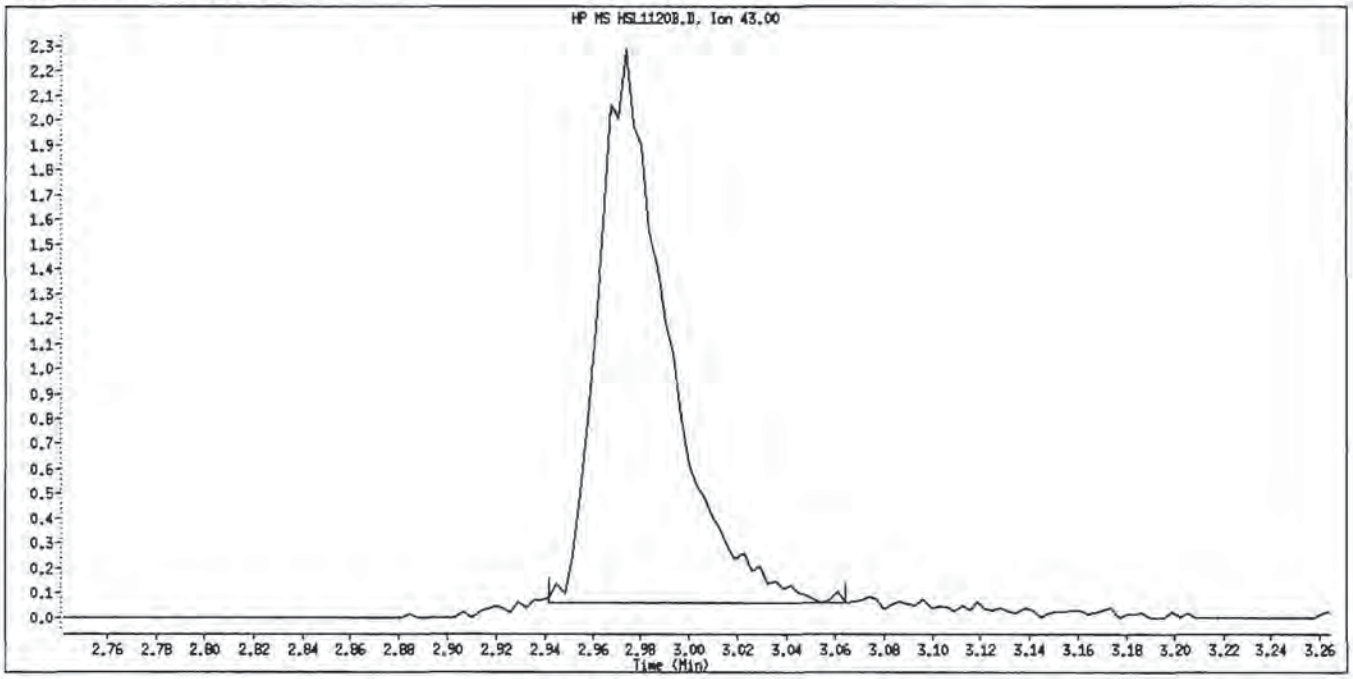
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/KG)	AMOUNTS ON-COL (ug/KG)
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	166488	40.0000	37.7236
27 Acrylonitrile	53	3.613	3.613	(0.642)	651219	400.000	483.798
30 1,1-Dichloroethane (**)	63	4.022	4.022	(0.715)	273532	40.0000	37.6942
33 2,2-Dichloropropane	77	4.539	4.539	(0.807)	160131	40.0000	42.2120
35 cis 1,2-Dichloroethene	96	4.536	4.536	(0.806)	178516	40.0000	38.2723
38 2-Butanone	43	4.556	4.556	(0.810)	62249	40.0000	43.8082
40 Bromochloromethane	128	4.745	4.745	(0.843)	89046	40.0000	39.5742
41 Chloroform (*)	83	4.819	4.819	(0.857)	264489	40.0000	38.0603
42 1,1,1-Trichloroethane	97	4.973	4.973	(0.884)	215283	40.0000	38.2432
43 Carbon Tetrachloride	117	5.121	5.121	(0.910)	194159	40.0000	37.4299
44 1,1-Dichloropropene	75	5.121	5.121	(0.910)	167951	40.0000	34.6574
47 Benzene	78	5.298	5.298	(0.942)	569042	40.0000	36.9956
48 1,2-Dichloroethane	62	5.311	5.311	(0.944)	172388	40.0000	39.0815
49 Trichloroethene	95	5.851	5.851	(1.040)	125986	40.0000	34.6267
51 1,2-Dichloropropane(*)	63	6.047	6.047	(1.075)	130270	40.0000	37.8228
52 Dibromomethane	93	6.147	6.147	(1.093)	76376	40.0000	39.1759
53 1,4-Dioxane	88	6.163	6.163	(1.095)	39578	1000.00	1413.40
54 Bromodichloromethane	83	6.282	6.282	(1.117)	165304	40.0000	38.7848
55 2-Chloroethyl vinyl ether	63	6.546	6.546	(1.163)	35726	40.0000	39.6109
56 cis-1,3-Dichloropropene (xtr)	75	6.674	6.674	(1.186)	155530	40.0000	35.6439
57 4-Methyl-2-pentanone	43	6.809	6.809	(1.210)	132720	40.0000	43.5557
58 Toluene (*)	92	6.973	6.973	(1.239)	310329	40.0000	37.2996
60 trans-1,3-Dichloropropene(xt)	75	7.163	7.163	(1.273)	117455	40.0000	37.7323
61 1,1,2-Trichloroethane	97	7.327	7.327	(1.302)	94699	40.0000	39.4304
62 Tetrachloroethene	166	7.465	7.465	(0.908)	134434	40.0000	34.2571
63 1,3-Dichloropropane	76	7.481	7.481	(0.910)	152774	40.0000	37.5588
64 2-Hexanone	43	7.552	7.552	(0.919)	67241	40.0000	46.2368
65 Dibromochloromethane	129	7.687	7.687	(0.935)	113302	40.0000	38.7629
66 1,2-Dibromoethane	107	7.797	7.797	(0.948)	86563	40.0000	37.2708
67 1-Chlorohexane	91	8.221	8.221	(1.000)	130278	40.0000	33.1445
68 Chlorobenzene (**)	112	8.247	8.247	(1.003)	325864	40.0000	34.7802
69 Ethylbenzene (*)	106	8.346	8.346	(1.015)	185797	40.0000	35.7605
70 1,1,1,2-Tetrachloroethane	131	8.321	8.321	(1.012)	143063	40.0000	37.0635
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	467486	80.0000	72.2266
72 Xylene (o)	106	8.829	8.829	(1.074)	241673	40.0000	36.5138
73 Styrene	104	8.842	8.842	(1.075)	349178	40.0000	35.3249
74 Bromoform (**)	173	9.018	9.018	(1.097)	73485	40.0000	38.7043
75 Isopropylbenzene	105	9.182	9.182	(1.117)	611087	40.0000	36.9765
77 Bromobenzene	156	9.472	9.472	(0.907)	141954	40.0000	38.5230
78 1,1,2,2-Tetrachloroethane(**)	83	9.459	9.459	(0.906)	146359	40.0000	44.9873
79 N-Propylbenzene	91	9.575	9.575	(0.917)	743664	40.0000	41.4622
80 1,2,3-Trichloropropane	110	9.507	9.507	(0.910)	43718	40.0000	43.7409
81 2-Chlorotoluene	91	9.661	9.661	(0.925)	428409	40.0000	40.3610
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	532622	40.0000	39.3703
83 4-Chlorotoluene	91	9.764	9.764	(0.935)	450316	40.0000	38.3293
84 T-Butylbenzene	119	10.063	10.063	(0.963)	475385	40.0000	35.5182
85 1,2,4-Trimethylbenzene	105	10.108	10.108	(0.968)	537724	40.0000	39.6126
86 Sec-Butylbenzene	105	10.279	10.279	(0.984)	746844	40.0000	39.7719
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	293327	40.0000	36.4392
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	630622	40.0000	38.8164
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	286215	40.0000	35.0243
90 N-Butylbenzene	91	10.822	10.822	(1.036)	574340	40.0000	40.3528
91 1,2-Dichlorobenzene	146	10.835	10.835	(1.037)	297236	40.0000	37.5008
92 1,2-Dibromo-3-chloropropane	75	11.610	11.610	(1.111)	23660	40.0000	43.0620

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/KG)	AMOUNTS ON-COL (ug/KG)
	93 1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	212921	40.0000	40.5401
	94 Hexachlorobutadiene	225	12.603	12.603	(1.207)	139845	40.0000	40.0705
	95 Naphthalene	128	12.677	12.677	(1.214)	477363	40.0000	34.9340
	96 1,2,3-Trichlorobenzene	180	12.919	12.919	(1.237)	210557	40.0000	42.4214
M	97 1,2-Dichloroethene (Total)	96				345004	80.0000	75.9959
M	98 Xylenes (Total)	106				709159	120.000	108.740

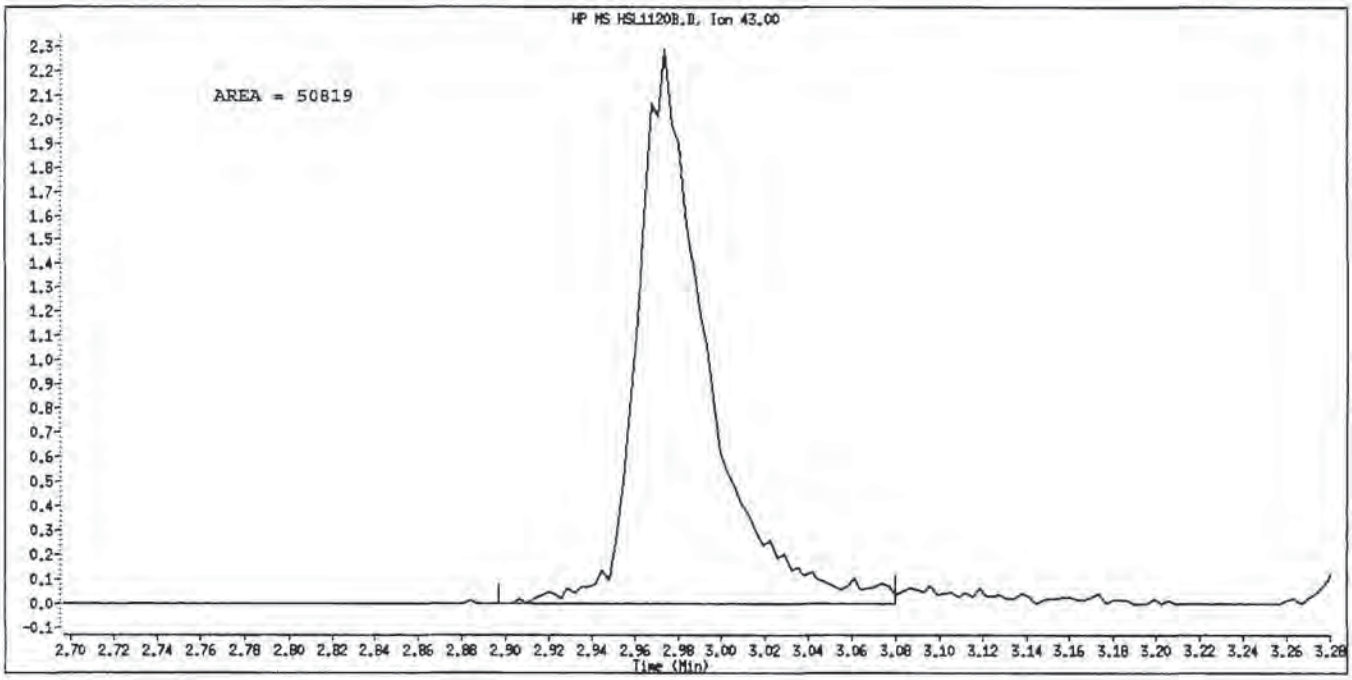
QC Flag Legend

M - Compound response manually integrated.

Data File Name: HSL1120B.D
Inj. Date and Time: 20-NOV-2010 22:03
Instrument ID: HP11.i
Client ID:
Compound Name: Acetone
CAS #: 67-64-1
Report Date: 11/20/2010



Original Integration



Manual Integration

Manually Integrated By: beldenl
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\HSL1120B.D
Lab Smp Id: HSL_40
Inj Date : 20-NOV-2010 22:03
Operator : LB Inst ID: HP11.i
Smp Info : HSL_40;CG ;2;;5;;;5.00
Misc Info : 2;SOIL;0;1_8260.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 22:24 target Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1_8260.sub
Target Version: 4.14
Processing Host: SACPHP11

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/KG)	ON-COL (ug/KG)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	614901	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	501718	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.446	10.446	(1.000)	289308	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	409906	100.000	102.382
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	367094	100.000	104.071
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1300825	100.000	112.132
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	443085	100.000	96.1992
8 Dichlorodifluoromethane	85	1.398	1.398	(0.249)	141646	40.0000	28.8730
9 Chloromethane (**)	50	1.556	1.556	(0.277)	206029	40.0000	38.5596
10 Vinyl Chloride (*)	62	1.675	1.675	(0.298)	195626	40.0000	39.2067
11 Bromomethane	94	2.015	2.015	(0.358)	108920	40.0000	42.3109
12 Chloroethane	64	2.125	2.125	(0.378)	123920	40.0000	40.7704
13 Trichlorofluoromethane	101	2.398	2.398	(0.426)	228258	40.0000	35.5421
15 Trichlorotrifluoroethane	101	2.935	2.935	(0.522)	139867	40.0000	33.6789
17 1,1-Dichloroethene(*)	96	2.909	2.909	(0.517)	138099	40.0000	36.4162
18 Acetone	43	2.974	2.974	(0.529)	44871	40.0000	45.2208
21 Carbon disulfide	76	3.109	3.109	(0.553)	498201	40.0000	38.1898
31 Vinyl acetate	43	4.080	4.080	(0.725)	247576	40.0000	44.1164
22 Methylene Chloride	84	3.382	3.382	(0.601)	177873	40.0000	38.0911
23 t-Butanol	59	3.507	3.507	(0.623)	402803	1000.00	1452.40
25 Methyl-t-butyl-ether	73	3.642	3.642	(0.647)	463356	40.0000	46.0326

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/KG)	AMOUNTS ON-COL (ug/KG)
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	166488	40.0000	37.7236
27 Acrylonitrile	53	3.613	3.613	(0.642)	651219	400.000	483.798
30 1,1-Dichloroethane (**)	63	4.022	4.022	(0.715)	273532	40.0000	37.6942
33 2,2-Dichloropropane	77	4.539	4.539	(0.807)	160131	40.0000	42.2120
35 cis 1,2-Dichloroethene	96	4.536	4.536	(0.806)	178516	40.0000	38.2723
38 2-Butanone	43	4.556	4.556	(0.810)	62249	40.0000	43.8082
40 Bromochloromethane	128	4.745	4.745	(0.843)	89046	40.0000	39.5742
41 Chloroform (*)	83	4.819	4.819	(0.857)	264489	40.0000	38.0603
42 1,1,1-Trichloroethane	97	4.973	4.973	(0.884)	215283	40.0000	38.2432
43 Carbon Tetrachloride	117	5.121	5.121	(0.910)	194159	40.0000	37.4299
44 1,1-Dichloropropene	75	5.121	5.121	(0.910)	167951	40.0000	34.6574
47 Benzene	78	5.298	5.298	(0.942)	569042	40.0000	36.9956
48 1,2-Dichloroethane	62	5.311	5.311	(0.944)	172388	40.0000	39.0815
49 Trichloroethene	95	5.851	5.851	(1.040)	125986	40.0000	34.6267
51 1,2-Dichloropropane(*)	63	6.047	6.047	(1.075)	130270	40.0000	37.8228
52 Dibromomethane	93	6.147	6.147	(1.093)	76376	40.0000	39.1759
53 1,4-Dioxane	88	6.163	6.163	(1.095)	39578	1000.00	1413.40
54 Bromodichloromethane	83	6.282	6.282	(1.117)	165304	40.0000	38.7848
55 2-Chloroethyl vinyl ether	63	6.546	6.546	(1.163)	35726	40.0000	39.6109
56 cis-1,3-Dichloropropene (xtr)	75	6.674	6.674	(1.186)	155530	40.0000	35.6439
57 4-Methyl-2-pentanone	43	6.809	6.809	(1.210)	132720	40.0000	43.5557
58 Toluene (*)	92	6.973	6.973	(1.239)	310329	40.0000	37.2996
60 trans-1,3-Dichloropropene(xt)	75	7.163	7.163	(1.273)	117455	40.0000	37.7323
61 1,1,2-Trichloroethane	97	7.327	7.327	(1.302)	94699	40.0000	39.4304
62 Tetrachloroethene	166	7.465	7.465	(0.908)	134434	40.0000	34.2571
63 1,3-Dichloropropane	76	7.481	7.481	(0.910)	152774	40.0000	37.5588
64 2-Hexanone	43	7.552	7.552	(0.919)	67241	40.0000	46.2368
65 Dibromochloromethane	129	7.687	7.687	(0.935)	113302	40.0000	38.7629
66 1,2-Dibromoethane	107	7.797	7.797	(0.948)	86563	40.0000	37.2708
67 1-Chlorohexane	91	8.221	8.221	(1.000)	130278	40.0000	33.1445
68 Chlorobenzene (**)	112	8.247	8.247	(1.003)	325864	40.0000	34.7802
69 Ethylbenzene (*)	106	8.346	8.346	(1.015)	185797	40.0000	35.7605
70 1,1,1,2-Tetrachloroethane	131	8.321	8.321	(1.012)	143063	40.0000	37.0635
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	467486	80.0000	72.2266
72 Xylene (o)	106	8.829	8.829	(1.074)	241673	40.0000	36.5138
73 Styrene	104	8.842	8.842	(1.075)	349178	40.0000	35.3249
74 Bromoform (**)	173	9.018	9.018	(1.097)	73485	40.0000	38.7043
75 Isopropylbenzene	105	9.182	9.182	(1.117)	611087	40.0000	36.9765
77 Bromobenzene	156	9.472	9.472	(0.907)	141954	40.0000	38.5230
78 1,1,2,2-Tetrachloroethane(**)	83	9.459	9.459	(0.906)	146359	40.0000	44.9873
79 N-Propylbenzene	91	9.575	9.575	(0.917)	743664	40.0000	41.4622
80 1,2,3-Trichloropropane	110	9.507	9.507	(0.910)	43718	40.0000	43.7409
81 2-Chlorotoluene	91	9.661	9.661	(0.925)	428409	40.0000	40.3610
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	532622	40.0000	39.3703
83 4-Chlorotoluene	91	9.764	9.764	(0.935)	450316	40.0000	38.3293
84 T-Butylbenzene	119	10.063	10.063	(0.963)	475385	40.0000	35.5182
85 1,2,4-Trimethylbenzene	105	10.108	10.108	(0.968)	537724	40.0000	39.6126
86 Sec-Butylbenzene	105	10.279	10.279	(0.984)	746844	40.0000	39.7719
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	293327	40.0000	36.4392
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	630622	40.0000	38.8164
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	286215	40.0000	35.0243
90 N-Butylbenzene	91	10.822	10.822	(1.036)	574340	40.0000	40.3528
91 1,2-Dichlorobenzene	146	10.835	10.835	(1.037)	297236	40.0000	37.5008
92 1,2-Dibromo-3-chloropropane	75	11.610	11.610	(1.111)	23660	40.0000	43.0620

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/KG)	AMOUNTS ON-COL (ug/KG)
	93 1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	212921	40.0000	40.5401
	94 Hexachlorobutadiene	225	12.603	12.603	(1.207)	139845	40.0000	40.0705
	95 Naphthalene	128	12.677	12.677	(1.214)	477363	40.0000	34.9340
	96 1,2,3-Trichlorobenzene	180	12.919	12.919	(1.237)	210557	40.0000	42.4214
M	97 1,2-Dichloroethene (Total)	96				345004	80.0000	75.9959
M	98 Xylenes (Total)	106				709159	120.000	108.740

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: HSL1120B.D
Lab Smp Id: HSL_40
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;1_8260.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 21:09

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	682444	341222	1364888	614901	-9.90
2 Chlorobenzene-d5	526668	263334	1053336	501718	-4.74
3 1,4 Dichlorobenze	348511	174256	697022	289308	-16.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	-0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	-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: \\qsacca01\chem\HP11.i\112010.b\HSL1120B.D

Date : 20-NOV-2010 22:03

Client ID:

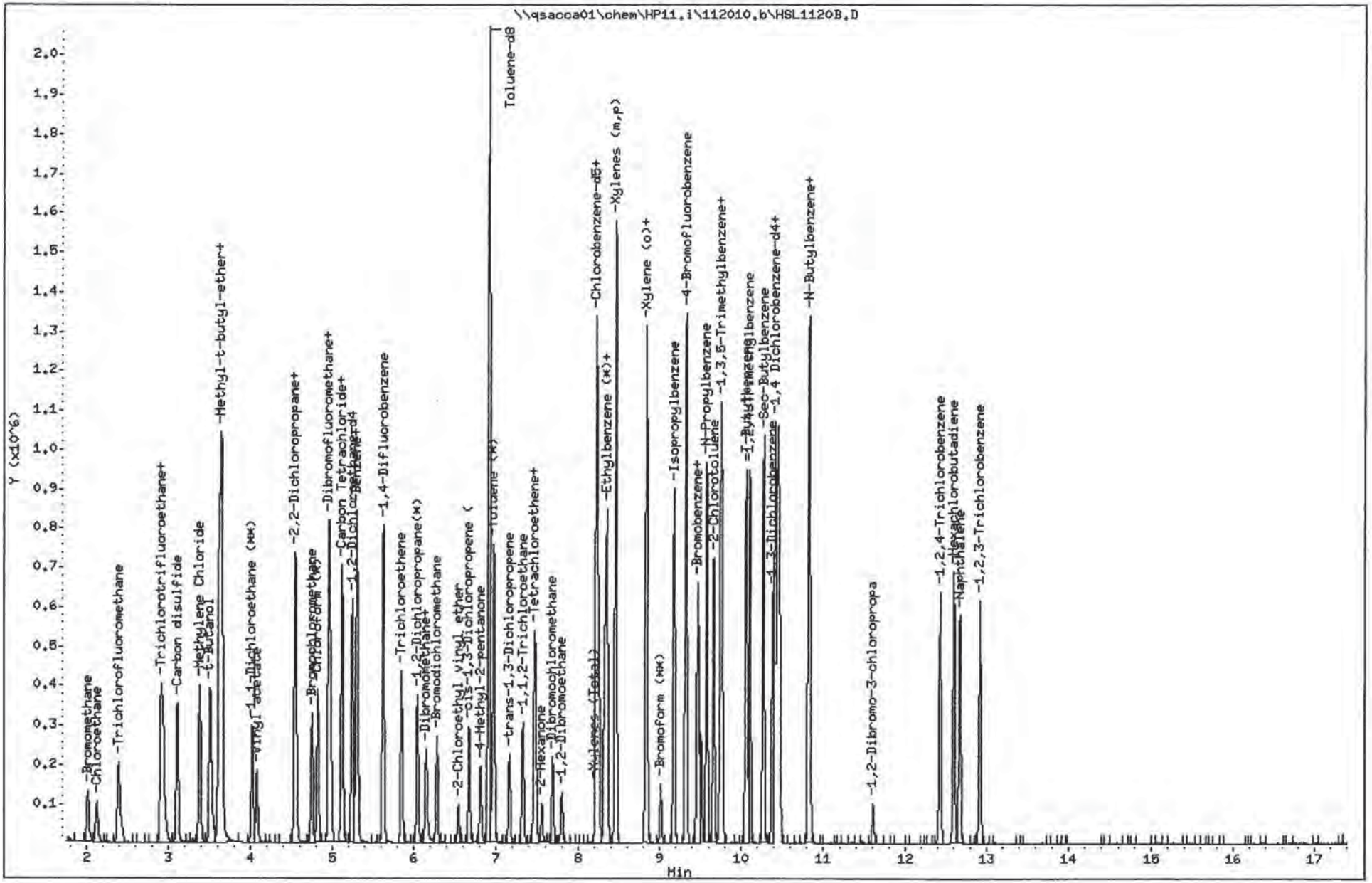
Sample Info: HSL_40;CG ;2;;5;;;5.00

Column phase:

Instrument: HP11.i

Operator: LB

Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\GAS1120A.D
Lab Smp Id:
Inj Date : 20-NOV-2010 22:27
Operator : LB Inst ID: HP11.i
Smp Info : GAS_1000;CG;2;;4;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:11 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
3 1,4-Difluorobenzene	5.626	5.623	0.003	1517044	50.0000	(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1468573	50.0000	(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	1593092	50.0000	(a)
1 Dibromofluoromethane	4.957	4.954	0.003	1273667	100.000	(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	991674	100.000	(a)
5 Toluene-d8	6.916	6.913	0.003	3473989	100.000	(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	2135305	100.000	(a)
S 147 8015B (GRO)	3.340-10.165			24975724	1000.00	989.3
S 148 AK101	3.830-9.650			19025888	1000.00	939.7
S 149 CALUFT	5.300-12.050			20416922	1000.00	1004
S 150 NWTPH-Gx	6.870-12.730			16043311	1000.00	893.7
S 151 Gas C6-C12	3.830-12.050			24468692	1000.00	968.5
S 152 GAS C6-C10	3.830-9.800			20680881	1000.00	996.5

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

LB 11/21/10

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\GAS1120A.D
Lab Smp Id:
Inj Date : 20-NOV-2010 22:27
Operator : LB Inst ID: HP11.i
Smp Info : GAS_1000;CG;2;;4;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:11 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.209	2020914	772464	0.382	4.56	
2.415	60970	31447	0.516	0.13	
2.476	1352061	649466	0.480	3.05	
2.620	230465	119258	0.517	0.52	
2.733	115669	61077	0.528	0.26	
2.794	327276	168786	0.516	0.73	
2.939	352161	143221	0.407	0.79	
4.958	1273667	704639	0.553	2.87	1 Dibromofluoromethan
5.247	991675	570837	0.576	2.24	2 1,2-Dichloroethane-
5.627	1517044	819500	0.540	3.42	3 1,4-Difluorobenzene
6.740	19025888	10184229	0.535	43.01	S 148 AK101
6.753	24975724	13081474	0.524	-165.80	S 147 8015B (GRO)
3.411	1806866	608656	0.337		
3.643	698290	341505	0.489		
3.813	66020	32055	0.486		
6.815	20680882	11005307	0.532	46.75	S 152 GAS C6-C10
3.897	717194	405131	0.565		
3.993	50088	27206	0.543		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.048	73965	39579	0.535		
4.087	88908	48918	0.550		
4.157	53221	28420	0.534		
4.222	53686	26895	0.501		
4.312	124413	49388	0.397		
4.376	156393	81618	0.522		
4.447	551699	268675	0.487		
4.755	7927	3996	0.504		
4.839	34379	20392	0.593		
4.874	97817	47689	0.488		
4.993	668914	291657	0.436		
5.064	314496	149794	0.476		
5.148	580460	322089	0.555		
5.299	478212	258740	0.541		
5.369	1454286	635116	0.437		
5.443	116606	57946	0.497		
5.527	379451	215154	0.567		
5.775	27143	15332	0.565		
5.849	24187	17301	0.715		
5.871	42780	20902	0.489		
6.022	456932	215678	0.472		
6.074	188363	110327	0.586		
6.135	30380	17412	0.573		
6.183	77033	41089	0.533		
6.247	59969	27463	0.458		
6.302	8874	4905	0.553		
6.385	431870	224577	0.520		
6.498	490502	200035	0.408		
6.562	311999	124630	0.399		
6.691	295759	122347	0.414		
6.810	37386	22728	0.608		
6.832	126312	65760	0.521		
6.974	3657847	2162591	0.591		
7.070	241793	108157	0.447		
7.141	24323	14106	0.580		
7.199	47068	24624	0.523		
7.260	13443	9175	0.683		
7.311	123696	32052	0.259		
7.414	31273	13457	0.430		
7.501	30032	14725	0.490		
7.549	22259	11738	0.527		
7.607	55748	24874	0.446		
7.662	50020	17078	0.341		
7.733	46307	25183	0.544		
7.778	50680	16939	0.334		
7.887	28318	10402	0.367		
7.922	29092	15507	0.533		
8.003	154838	68598	0.443		
8.112	97776	46174	0.472		
8.347	858786	512114	0.596		
8.456	3053932	1791638	0.587		
8.578	5899	3836	0.650		
8.675	8147	3356	0.412		
8.729	7998	7083	0.886		
8.762	22960	10094	0.440		
8.829	1270502	779450	0.613		
8.938	30516	12801	0.419		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.996	9671	7004	0.724		
9.061	41400	10643	0.257		
9.180	77540	42858	0.553		
9.228	16914	8824	0.522		
9.411	48510	19590	0.404		
9.517	26032	11455	0.440		
9.575	230967	139214	0.603		
9.662	1217306	557424	0.458		
9.745	437688	263654	0.602		
6.916	3473989	2053726	0.591	7.85	5 Toluene-d8
7.940	24468693	13174421	0.538	55.31	S 151 Gas C6-C12
9.845	8421	3720	0.442		
9.942	331351	199438	0.602		
10.035	8038	5442	0.677		
10.109	1375857	885351	0.643		
10.180	17959	7202	0.401		
10.244	18368	11216	0.611		
10.279	18775	11878	0.633		
10.318	21188	11118	0.525		
10.372	38408	19953	0.520		
10.524	344961	188017	0.545		
10.720	311344	117398	0.377		
10.800	274415	137188	0.500		
10.922	39375	18897	0.480		
10.987	52073	28903	0.555		
11.070	86846	58222	0.670		
11.102	91474	55860	0.611		
11.176	157512	101660	0.645		
11.221	19422	12353	0.636		
11.289	72251	28618	0.396		
11.395	8506	3928	0.462		
11.479	42443	23651	0.557		
11.572	88846	49052	0.552		
11.623	121663	75678	0.622		
11.704	34873	10231	0.293		
11.752	10605	8352	0.788		
11.884	56926	27237	0.478		
11.938	11612	6451	0.556		
12.003	22401	11761	0.525		
12.048	101898	50339	0.494		
8.221	1468574	877988	0.598	3.31	6 Chlorobenzene-d5
8.675	20416922	11104234	0.544	46.15	S 149 CALUFT
9.327	2135306	1310849	0.614	4.82	7 4-Bromofluorobenzen
9.800	16043311	9052284	0.564	36.26	S 150 NWTPH-Gx
12.141	22042	7446	0.338		
12.221	13136	5699	0.434		
12.321	6933	4671	0.674		
12.379	15737	7425	0.472		
12.424	36862	15882	0.431		
12.524	27499	6791	0.247		
12.675	64012	38838	0.607		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.450	1593093	960046	0.603	3.60	8 1,4-Dichlorobenzene
12.787	5056	2413	0.477	0.01	
12.874	10333	4157	0.402	0.02	
12.919	16187	7515	0.464	0.03	
13.012	4993	3184	0.638	0.01	
13.064	9807	4769	0.486	0.02	
13.257	11857	4215	0.355	0.02	
13.398	6355	2498	0.393	0.01	
13.880	15887	7163	0.451	0.03	
16.668	4086	1910	0.467	0.00	
17.285	5686	2087	0.367	0.01	
17.337	5255	1825	0.347	0.01	
	44234457	23528429		100.000	

Total unknown % area = 10.21

Data File: \\qsacca01\chem\HP11.i\112010.b\GAS1120A.D

Date : 20-NOV-2010 22:27

Client ID:

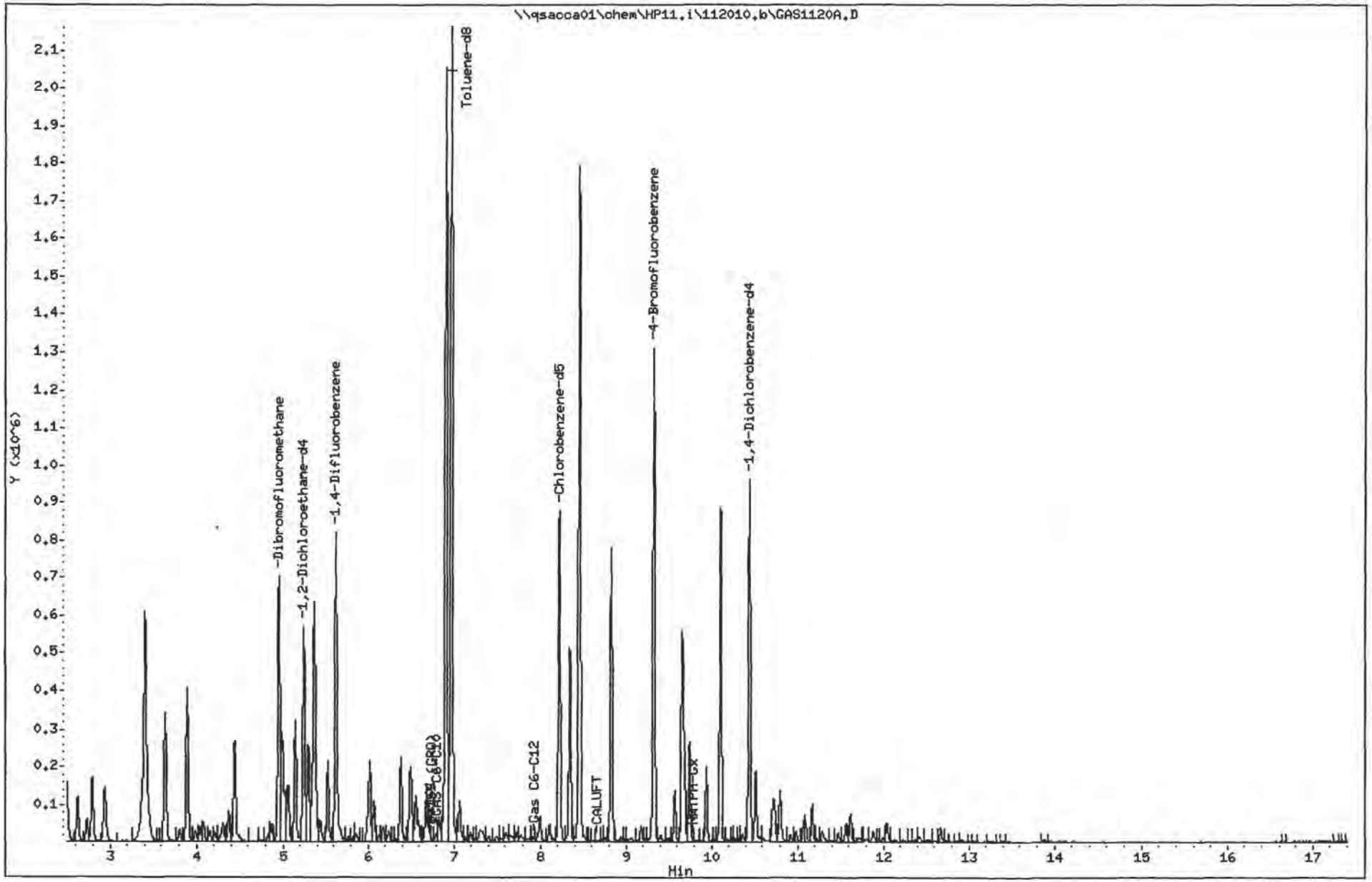
Sample Info: GAS_1000;CG;2;;4;;;5.00

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB

Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\GAS1120B.D
Lab Smp Id:
Inj Date : 21-NOV-2010 04:27
Operator : LB Inst ID: HP11.i
Smp Info : GAS_1000;CG;2;;4;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:12 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
3 1,4-Difluorobenzene	5.626	5.623	0.003	1272855	50.0000	(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1229321	50.0000	(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	1327818	50.0000	(a)
1 Dibromofluoromethane	4.954	4.954	0.000	1554918	100.000	(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	902618	100.000	(a)
5 Toluene-d8	6.916	6.913	0.003	3109263	100.000	(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1910375	100.000	(a)
S 147 8015B (GRO)	3.340-10.165			21484794	1000.00	851.0
S 148 AK101	3.830-9.650			16332743	1000.00	806.6
S 149 CALUFT	5.300-12.050			17764678	1000.00	873.7
S 150 NWTPH-Gx	6.870-12.730			13912994	1000.00	775.0
S 151 Gas C6-C12	3.830-12.050			20887657	1000.00	826.8
S 152 GAS C6-C10	3.830-9.800			17750589	1000.00	855.3

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

LB 11/21/10

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\GAS1120B.D
Lab Smp Id:
Inj Date : 21-NOV-2010 04:27
Operator : LB Inst ID: HP11.i
Smp Info : GAS_1000;CG;2;;4;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:12 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.209	1817323	696108	0.383	4.71	
2.415	50943	29371	0.577	0.13	
2.476	1201994	580113	0.483	3.11	
2.624	195951	105220	0.537	0.50	
2.736	100281	54137	0.540	0.25	
2.797	288699	145772	0.505	0.74	
2.945	316660	125863	0.397	0.82	
4.955	1554919	630590	0.406	4.03	1 Dibromofluoromethan
5.247	902619	522908	0.579	2.33	2 1,2-Dichloroethane-
5.627	1272855	696743	0.547	3.29	3 1,4-Difluorobenzene
6.740	16332744	8841207	0.541	42.33	S 148 AK101
6.753	21484795	11349123	0.528	-164.22	S 147 8015B (GRO)
3.411	1601472	533241	0.333		
3.643	607913	298693	0.491		
3.810	55071	26432	0.480		
6.815	17750590	9531402	0.537	46.01	S 152 GAS C6-C10
3.900	627937	352815	0.562		
3.990	43988	21885	0.498		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.048	60795	35821	0.589		
4.087	76415	41358	0.541		
4.161	44963	23723	0.528		
4.218	48758	22510	0.462		
4.312	104756	41822	0.399		
4.379	136745	72834	0.533		
4.447	485079	237836	0.490		
4.746	5188	2728	0.526		
4.874	113329	40770	0.360		
5.029	206962	122395	0.591		
5.061	246881	132966	0.539		
5.151	502563	270931	0.539		
5.299	418620	232734	0.556		
5.370	1282313	561274	0.438		
5.444	104252	50005	0.480		
5.527	325777	189787	0.583		
5.775	22594	13092	0.579		
5.849	56129	14266	0.254		
6.022	393817	187616	0.476		
6.074	162926	91880	0.564		
6.135	26983	15498	0.574		
6.183	62953	34839	0.553		
6.247	53554	24113	0.450		
6.386	363132	188664	0.520		
6.498	425486	176345	0.414		
6.559	269929	110014	0.408		
6.691	258764	108804	0.420		
6.800	27959	19093	0.683		
6.836	112575	57927	0.515		
6.974	3314382	1958773	0.591		
7.070	214181	96391	0.450		
7.144	23483	11874	0.506		
7.199	40882	21409	0.524		
7.270	13733	7531	0.548		
7.312	100672	28343	0.282		
7.418	26442	12035	0.455		
7.495	21512	12082	0.562		
7.540	16849	8177	0.485		
7.607	43218	21362	0.494		
7.659	45558	13388	0.294		
7.726	38797	21152	0.545		
7.775	51443	13263	0.258		
7.897	14820	8291	0.559		
7.923	23214	13840	0.596		
8.000	128359	57749	0.450		
8.112	79660	39136	0.491		
8.347	767308	464339	0.605		
8.408	12329	10985	0.891		
8.456	2712830	1593341	0.587		
8.662	6851	2573	0.376		
8.730	26051	6106	0.234		
8.832	1139332	704428	0.618		
8.913	4318	4003	0.927		
8.939	19882	11123	0.559		
9.000	9594	5811	0.606		
9.061	33827	9186	0.272		
9.176	62353	35187	0.564		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.257	11226	6993	0.623		
9.411	35658	15245	0.428		
9.511	27622	12003	0.435		
9.575	194236	118743	0.611		
9.662	1047410	471726	0.450		
9.746	370435	218469	0.590		
6.916	3109263	1820300	0.585	8.06	5 Toluene-d8
7.940	20887658	11345789	0.543	54.14	S 151 Gas C6-C12
9.897	3717	2827	0.761		
9.942	284897	177302	0.622		
10.038	8327	4832	0.580		
10.109	1172809	774394	0.660		
10.189	14499	5905	0.407		
10.250	27315	9054	0.331		
10.321	20191	9715	0.481		
10.366	27740	15544	0.560		
10.524	298323	169628	0.569		
10.662	5324	3476	0.653		
10.723	262300	100593	0.384		
10.800	208162	107014	0.514		
10.919	28696	15537	0.541		
10.990	41332	22915	0.554		
11.074	68515	45259	0.661		
11.099	71451	44790	0.627		
11.176	137237	74480	0.543		
11.292	57804	23012	0.398		
11.479	37953	22376	0.590		
11.569	64824	37014	0.571		
11.620	96822	61893	0.639		
11.726	33752	8534	0.253		
11.794	12703	6613	0.521		
11.887	52707	22834	0.433		
12.003	13915	8606	0.618		
12.045	85754	40240	0.469		
8.222	1229321	734528	0.598	3.18	6 Chlorobenzene-d5
8.675	17764679	9692661	0.546	46.05	S 149 CALUFT
9.328	1910376	1154406	0.604	4.95	7 4-Bromofluorobenzen
9.800	13912995	7900379	0.568	36.06	S 150 NWTPH-Gx
12.144	10983	6791	0.618		
12.218	8287	4400	0.531		
12.315	5794	3178	0.549		
12.376	9911	6282	0.634		
12.418	22188	8595	0.387		
12.504	3293	2360	0.717		
12.675	37004	19329	0.522		
10.450	1327818	800839	0.603	3.44	8 1,4-Dichlorobenzene
12.871	6803	2910	0.428	0.01	
13.022	3149	2202	0.699	0.00	
13.064	5271	2807	0.533	0.01	
13.257	8717	3378	0.388	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.880	11343	5637	0.497	0.02	
14.112	8309	2950	0.355	0.02	
15.414	3858	1365	0.354	0.01	
	38576045	20373237		100.000	

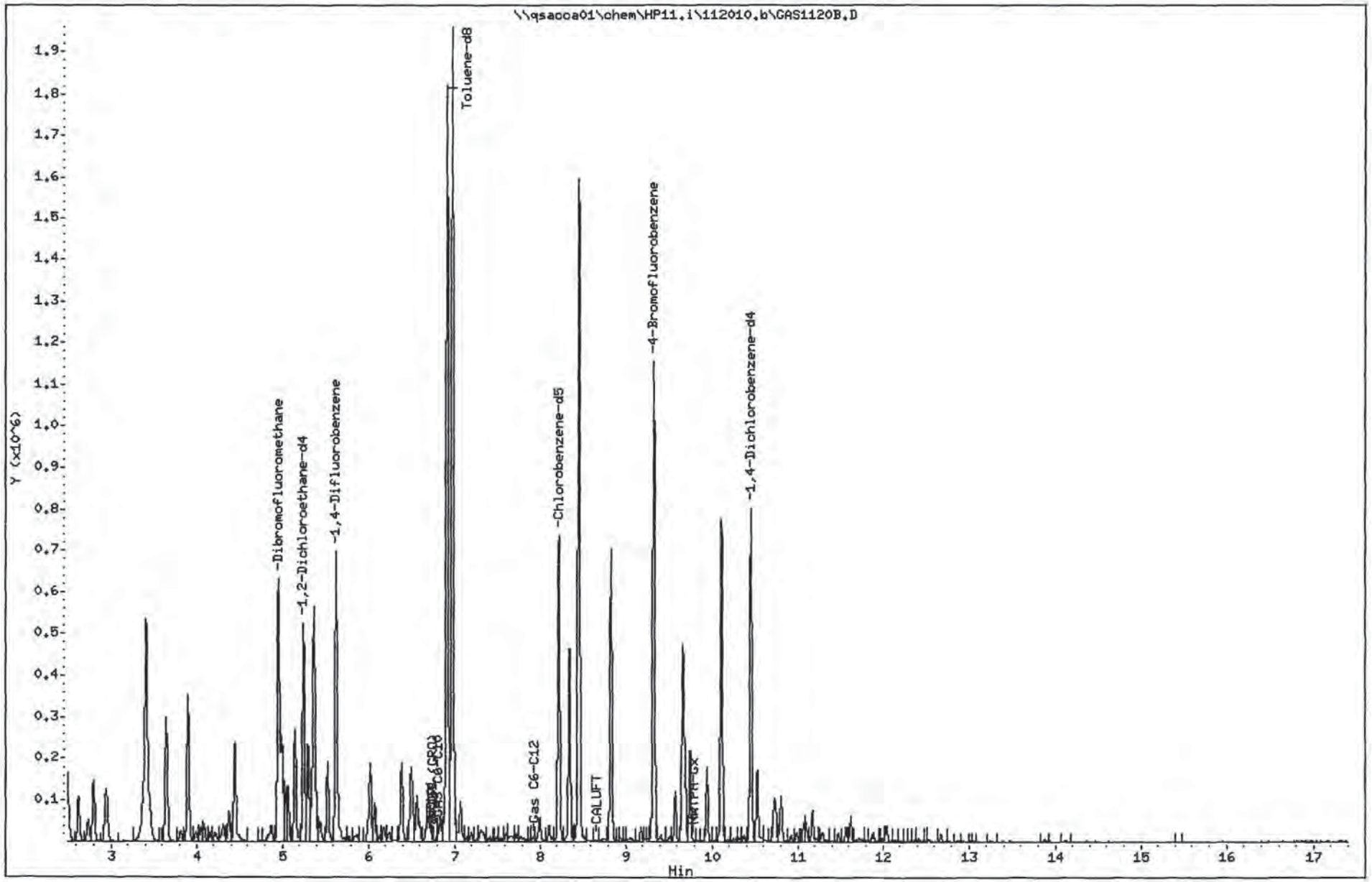
Total unknown % area = 10.35

Data File: \\qsacca01\chem\HP11.i\112010.b\GAS1120B.D
Date : 21-NOV-2010 04:27
Client ID:
Sample Info: GAS_1000;CG;2;;4;;;5.00

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\GAS1120C.D
Lab Smp Id:
Inj Date : 21-NOV-2010 06:50
Operator : LB Inst ID: HP11.i
Smp Info : GAS 2500;CG;2;;5;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:13 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1464392	50.0000		(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1270929	50.0000		(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	1395557	50.0000		(a)
1 Dibromofluoromethane	4.954	4.954	0.000	1100177	100.000		(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	861208	100.000		(a)
5 Toluene-d8	6.912	6.913	-0.001	3335624	100.000		(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	2044635	100.000		(a)
S 147 8015B (GRO)	3.340-10.165			54767863	2500.00	2169	
S 148 AK101	3.830-9.650			41786503	2500.00	2064	
S 149 CALUFT	5.300-12.050			45182561	2500.00	2222	
S 150 NWTPH-Gx	6.870-12.730			35651605	2500.00	1986	
S 151 Gas C6-C12	3.830-12.050			54011402	2500.00	2138	
S 152 GAS C6-C10	3.830-9.800			45408291	2500.00	2188	

dB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\GAS1120C.D
Lab Smp Id:
Inj Date : 21-NOV-2010 06:50
Operator : LB Inst ID: HP11.i
Smp Info : GAS_2500;CG;2;;5;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\8260SGAS.M
Meth Date : 21-Nov-2010 20:13 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.206	4265345	1619223	0.380	5.26	
2.411	124052	70569	0.569	0.15	
2.473	2897634	1376211	0.475	3.57	
2.620	486465	258376	0.531	0.60	
2.736	245640	123675	0.503	0.30	
2.794	707731	365315	0.516	0.87	
2.942	761541	311790	0.409	0.93	
3.148	5491	2960	0.539	0.00	
3.190	6464	3080	0.476	0.00	
4.955	1100178	635177	0.577	1.35	1 Dibromofluoromethan
5.247	861209	506210	0.588	1.06	2 1,2-Dichloroethane-
5.627	1464392	711426	0.486	1.80	3 1,4-Difluorobenzene
6.740	41786503	22557175	0.540	51.56	S 148 AK101
6.753	54767864	28895357	0.528	-199.92	S 147 8015B (GRO)
3.408	3886728	1291406	0.332		
3.643	1488370	729722	0.490		
3.810	138307	65324	0.472		
6.815	45408291	24384728	0.537	56.03	S 152 GAS C6-C10

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.897	1542606	867471	0.562		
3.993	104294	55219	0.529		
4.048	148240	88071	0.594		
4.090	203510	106459	0.523		
4.157	112548	58570	0.520		
4.218	120514	56195	0.466		
4.312	271020	101282	0.374		
4.379	339896	172374	0.507		
4.444	1179865	572564	0.485		
4.681	3889	2631	0.677		
4.746	14486	7916	0.546		
4.874	293511	107145	0.365		
4.993	1547968	618887	0.400		
5.064	679364	325636	0.479		
5.148	1247109	681597	0.547		
5.299	1020023	558320	0.547		
5.370	3120767	1328109	0.426		
5.440	251028	119992	0.478		
5.530	805008	470901	0.585		
5.730	30658	18366	0.599		
5.771	56572	31763	0.561		
5.845	52092	35481	0.681		
5.871	98966	46377	0.469		
6.022	998141	473367	0.474		
6.074	404437	228191	0.564		
6.135	70845	37427	0.528		
6.183	150781	84450	0.560		
6.247	136051	56901	0.418		
6.328	30212	12524	0.415		
6.389	924722	475149	0.514		
6.495	1072187	446794	0.417		
6.562	479474	278067	0.580		
6.595	205345	119216	0.581		
6.691	652205	279152	0.428		
6.804	81627	47434	0.581		
6.839	281848	148824	0.528		
6.974	8060520	4864550	0.604		
7.074	519460	230608	0.444		
7.144	51822	28380	0.548		
7.196	104637	50810	0.486		
7.276	39269	19072	0.486		
7.312	254767	69343	0.272		
7.414	70568	33252	0.471		
7.498	60921	34349	0.564		
7.543	48825	20473	0.419		
7.611	126284	58667	0.465		
7.656	108127	31484	0.291		
7.730	109156	57958	0.531		
7.778	112321	40033	0.356		
7.890	47445	21792	0.459		
7.919	68691	34180	0.498		
8.000	362433	163779	0.452		
8.109	218381	110110	0.504		
8.347	1903288	1149840	0.604		
8.456	6598877	3969458	0.602		
8.511	72787	35321	0.485		
8.614	22940	9774	0.426		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.668	18318	7379	0.403		
8.736	74660	16915	0.227		
8.829	2907091	1799484	0.619		
8.945	69680	29451	0.423		
8.993	33380	16537	0.495		
9.032	20197	16922	0.838		
9.061	77378	23650	0.306		
9.180	184881	99689	0.539		
9.225	37218	20447	0.549		
9.411	103807	39008	0.376		
9.511	53014	17664	0.333		
9.575	513554	317974	0.619		
9.662	2657531	1238906	0.466		
9.746	964257	588647	0.610		
6.913	3335625	1893326	0.568	4.11	5 Toluene-d8
7.940	54011403	29270943	0.542	66.65	S 151 Gas C6-C12
9.839	18305	10072	0.550		
9.942	755353	463337	0.613		
10.003	18873	11925	0.632		
10.041	22599	13094	0.579		
10.109	3031037	1925749	0.635		
10.189	43632	15384	0.353		
10.244	75751	24028	0.317		
10.311	49796	24182	0.486		
10.369	86028	44828	0.521		
10.520	847311	450542	0.532		
10.723	701868	272669	0.388		
10.800	551430	287685	0.522		
10.871	14235	7756	0.545		
10.922	79200	39325	0.497		
10.990	121921	67010	0.550		
11.070	206932	132751	0.642		
11.102	214213	130310	0.608		
11.173	347420	216820	0.624		
11.218	47935	27881	0.582		
11.292	162608	62503	0.384		
11.398	25857	8946	0.346		
11.479	90547	49714	0.549		
11.572	204888	111901	0.546		
11.623	292992	184328	0.629		
11.704	31355	20928	0.667		
11.723	43364	24623	0.568		
11.758	29987	19523	0.651		
11.807	30519	11499	0.377		
11.887	129453	63102	0.487		
11.935	26058	13965	0.536		
12.000	43359	24737	0.571		
12.048	258286	125098	0.484		
8.222	1270929	719710	0.566	1.56	6 Chlorobenzene-d5
8.675	45182561	24890606	0.551	55.75	S 149 CALUFT
9.328	2044636	1176321	0.575	2.52	7 4-Bromofluorobenzen
9.800	35651605	20316591	0.570	43.99	S 150 NWTPH-Gx

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.144	34270	15547	0.454		
12.218	31663	13385	0.423		
12.321	17467	10051	0.575		
12.369	32425	17133	0.528		
12.424	75482	25554	0.339		
12.501	10077	8466	0.840		
12.530	60545	17896	0.296		
12.678	110081	56438	0.513		
10.450	1395557	825339	0.591	1.72	8 1,4-Dichlorobenzene
12.774	6813	4925	0.723	0.00	
12.864	22668	9191	0.405	0.02	
12.932	16403	7950	0.485	0.02	
13.012	6930	3855	0.556	0.00	
13.064	21769	10853	0.499	0.02	
13.250	22804	9473	0.415	0.02	
13.405	10583	5491	0.519	0.01	
13.482	10295	5398	0.524	0.01	
13.880	29177	14152	0.485	0.03	
14.112	15397	6252	0.406	0.01	
	81032546	42198113		100.000	

Total unknown % area = 11.82

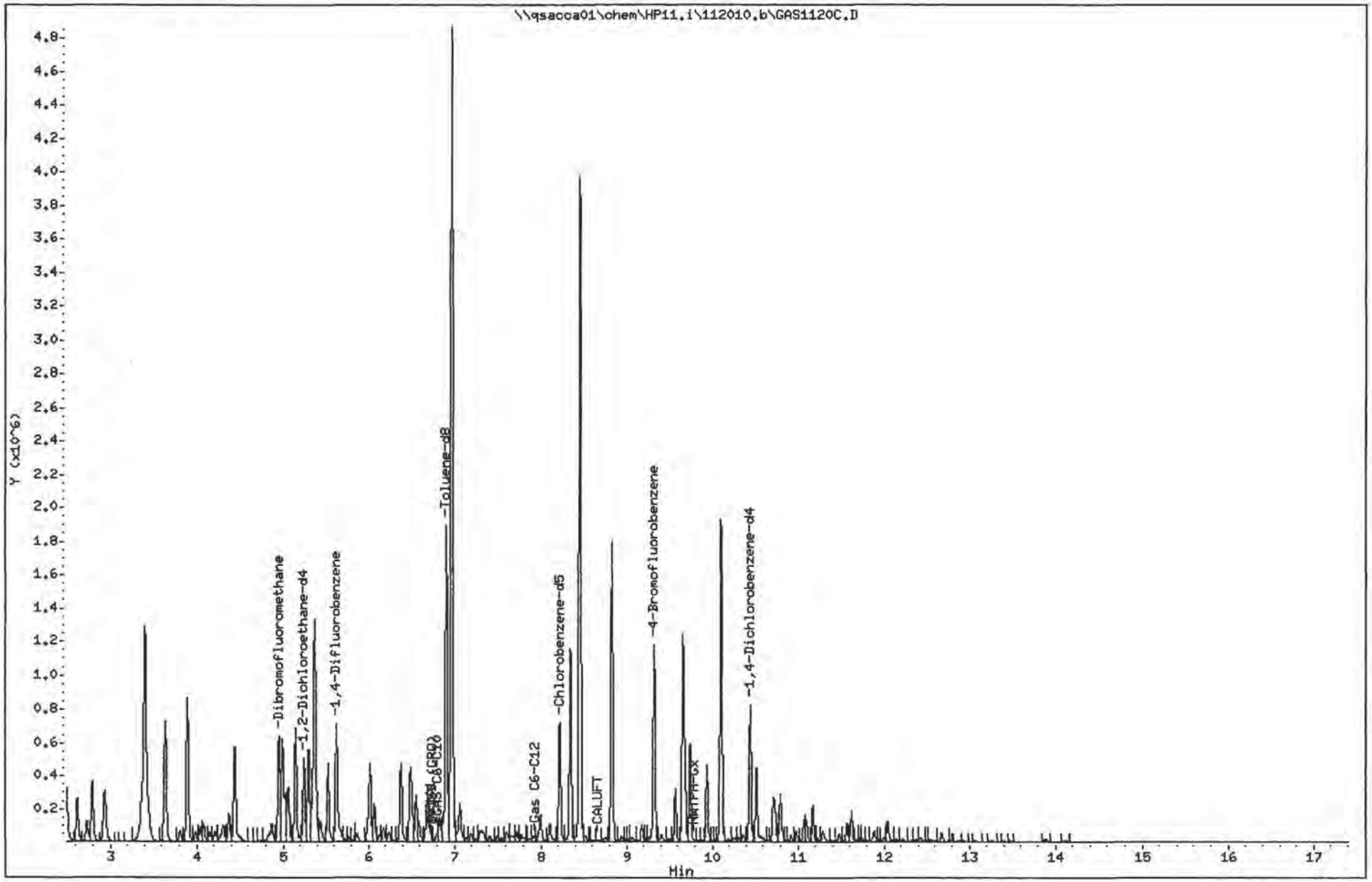
Data File: \\qsacca01\chem\HP11.i\112010.b\GAS1120C.D
Date : 21-NOV-2010 06:50
Client ID:
Sample Info: GAS_2500;CG;2;;5;;;5.00

Instrument: HP11.i

Operator: LB

Column phase: J&W DB-624

Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\D1120.D
Lab Smp Id: LCS_HSL
Inj Date : 20-NOV-2010 22:51
Operator : LB Inst ID: HP11.i
Smp Info : LCS_HSL;CG;3;LCS;;;5.00
Misc Info : 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.M
Meth Date : 21-Nov-2010 21:50 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQK01.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	627327	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	513043	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	287689	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	408148	99.9233	99.9233
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	358492	99.6190	99.6190
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1323133	111.795	111.795
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	450499	95.6499	95.6499
8 Dichlorodifluoromethane	85	1.401	1.398	(0.249)	136857	27.3442	27.3442
9 Chloromethane (**)	50	1.556	1.556	(0.277)	193963	35.5824	35.5824
10 Vinyl Chloride (*)	62	1.678	1.675	(0.298)	185226	36.3870	36.3870
11 Bromomethane	94	2.019	2.015	(0.359)	100214	38.1579	38.1579
12 Chloroethane	64	2.128	2.125	(0.378)	116763	37.6548	37.6548
13 Trichlorofluoromethane	101	2.398	2.398	(0.426)	231068	35.2669	35.2669
15 Trichlorotrifluoroethane	101	2.935	2.935	(0.522)	165275	39.0086	39.0086
17 1,1-Dichloroethene(*)	96	2.909	2.909	(0.517)	129334	33.4293	33.4293
18 Acetone	43	2.974	2.974	(0.529)	42581	42.0629	42.0629(M)
21 Carbon disulfide	76	3.109	3.109	(0.553)	546062	41.0295	41.0295
22 Methylene Chloride	84	3.382	3.382	(0.601)	177468	37.2516	37.2516
23 t-Butanol	59	3.507	3.507	(0.623)	319715	1129.97	1129.97
25 Methyl-t-butyl-ether	73	3.646	3.642	(0.648)	442756	43.1148	43.1148
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	161587	35.8878	35.8878

dB 11/21/10

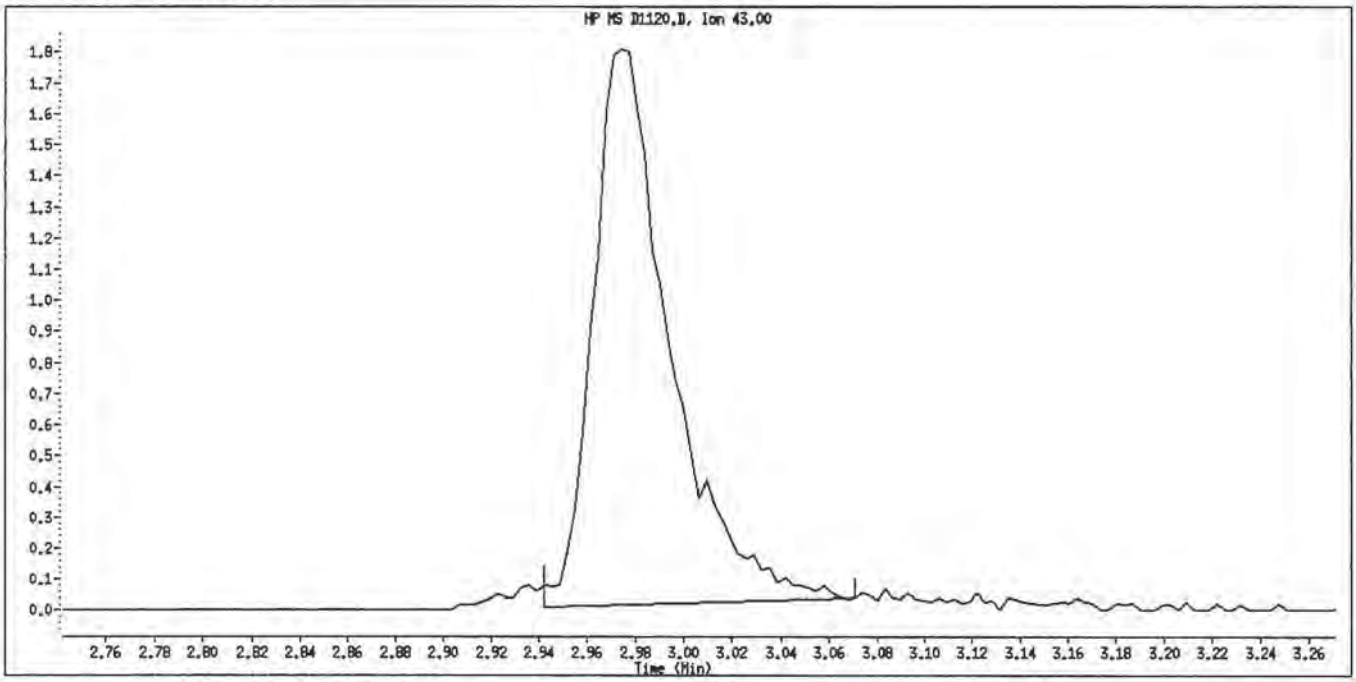
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	CONCENTRATIONS FINAL (ug/Kg)
27 Acrylonitrile	53	3.614	3.613	(0.642)	580392	422.639	422.639
30 1,1-Dichloroethane (**)	63	4.025	4.022	(0.715)	273288	36.9146	36.9146
31 Vinyl acetate	43	4.077	4.080	(0.725)	211190	36.8872	36.8872
33 2,2-Dichloropropane	77	4.536	4.539	(0.806)	153978	39.7860	39.7860
35 cis 1,2-Dichloroethene	96	4.540	4.536	(0.807)	179397	37.6994	37.6994
38 2-Butanone	43	4.556	4.556	(0.810)	54523	37.6109	37.6109
40 Bromochloromethane	128	4.745	4.745	(0.843)	87948	38.3120	38.3120
41 Chloroform (*)	83	4.819	4.819	(0.857)	262474	37.0222	37.0222
42 1,1,1-Trichloroethane	97	4.977	4.973	(0.885)	206653	35.9830	35.9830
43 Carbon Tetrachloride	117	5.118	5.121	(0.910)	187197	35.3730	35.3730
44 1,1-Dichloropropene	75	5.118	5.121	(0.910)	167664	33.9129	33.9129
47 Benzene	78	5.298	5.298	(0.942)	566269	36.0861	36.0861
48 1,2-Dichloroethane	62	5.314	5.311	(0.945)	169567	37.6805	37.6805
49 Trichloroethene	95	5.851	5.851	(1.040)	126986	34.2102	34.2102
51 1,2-Dichloropropane(*)	63	6.048	6.047	(1.075)	133072	37.8710	37.8710
52 Dibromomethane	93	6.147	6.147	(1.093)	74826	37.6206	37.6206
53 1,4-Dioxane	88	6.163	6.163	(1.095)	37167	1301.00	1301.00
54 Bromodichloromethane	83	6.282	6.282	(1.117)	166826	38.3666	38.3666
55 2-Chloroethyl vinyl ether	63	6.546	6.546	(1.163)	33464	36.8084	36.8084
56 cis-1,3-Dichloropropene (xtr)	75	6.675	6.674	(1.186)	162774	36.4910	36.4910
57 4-Methyl-2-pentanone	43	6.810	6.809	(1.210)	112297	36.0902	36.0902
58 Toluene (*)	92	6.974	6.973	(1.239)	312253	36.7874	36.7874
60 trans-1,3-Dichloropropene(xt)	75	7.163	7.163	(1.273)	119531	37.6457	37.6457
61 1,1,2-Trichloroethane	97	7.330	7.327	(1.303)	94434	38.5412	38.5412
62 Tetrachloroethene	166	7.466	7.465	(0.908)	133862	33.3583	33.3583
63 1,3-Dichloropropane	76	7.482	7.481	(0.910)	154671	37.1857	37.1857
64 2-Hexanone	43	7.552	7.552	(0.919)	57603	38.7351	38.7350
65 Dibromochloromethane	129	7.687	7.687	(0.935)	112928	37.7822	37.7822
66 1,2-Dibromoethane	107	7.797	7.797	(0.948)	86284	36.3306	36.3306
67 1-Chlorohexane	91	8.221	8.221	(1.000)	166152	41.3382	41.3382
68 Chlorobenzene (**)	112	8.247	8.247	(1.003)	323786	33.7956	33.7956
69 Ethylbenzene (*)	106	8.347	8.346	(1.015)	185389	34.8943	34.8943
70 1,1,1,2-Tetrachloroethane	131	8.321	8.321	(1.012)	142213	36.0300	36.0300
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	467919	70.6976	70.6976
72 Xylene (o)	106	8.832	8.829	(1.074)	244313	36.0979	36.0978
73 Styrene	104	8.842	8.842	(1.075)	351485	34.7733	34.7733
74 Bromoform (**)	173	9.019	9.018	(1.097)	70520	36.3227	36.3227
75 Isopropylbenzene	105	9.179	9.182	(1.117)	619147	36.6372	36.6372
77 Bromobenzene	156	9.475	9.472	(0.907)	139611	38.1004	38.1004
78 1,1,2,2-Tetrachloroethane(**)	83	9.462	9.459	(0.906)	135032	41.7392	41.7392
79 N-Propylbenzene	91	9.575	9.575	(0.916)	747221	41.8950	41.8950
80 1,2,3-Trichloropropane	110	9.507	9.507	(0.910)	40754	41.0049	41.0048
81 2-Chlorotoluene	91	9.658	9.661	(0.924)	422822	40.0588	40.0588
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	534136	39.7044	39.7044
83 4-Chlorotoluene	91	9.761	9.764	(0.934)	445166	38.1042	38.1042
84 T-Butylbenzene	119	10.063	10.063	(0.963)	483074	36.2484	36.2484
85 1,2,4-Trimethylbenzene	105	10.109	10.108	(0.967)	537081	39.7878	39.7878
86 Sec-Butylbenzene	105	10.276	10.279	(0.983)	754269	40.3934	40.3934
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	287223	35.8818	35.8818
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	636111	39.3746	39.3746
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	283646	34.9052	34.9052
90 N-Butylbenzene	91	10.822	10.822	(1.036)	565609	39.9630	39.9630
91 1,2-Dichlorobenzene	146	10.838	10.835	(1.037)	289488	36.7288	36.7288
92 1,2-Dibromo-3-chloropropane	75	11.604	11.610	(1.110)	20021	36.6440	36.6440

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	CONCENTRATIONS FINAL (ug/Kg)
93	1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	195748	37.4801	37.4801
94	Hexachlorobutadiene	225	12.604	12.603	(1.206)	134306	38.6999	38.6999
95	Naphthalene	128	12.678	12.677	(1.213)	403112	29.5488	29.5488
96	1,2,3-Trichlorobenzene	180	12.915	12.919	(1.236)	189289	38.3511	38.3511
M 97	1,2-Dichloroethene (Total)	96				340984	73.5872	73.5872
M 98	Xylenes (Total)	106				712232	106.795	106.795

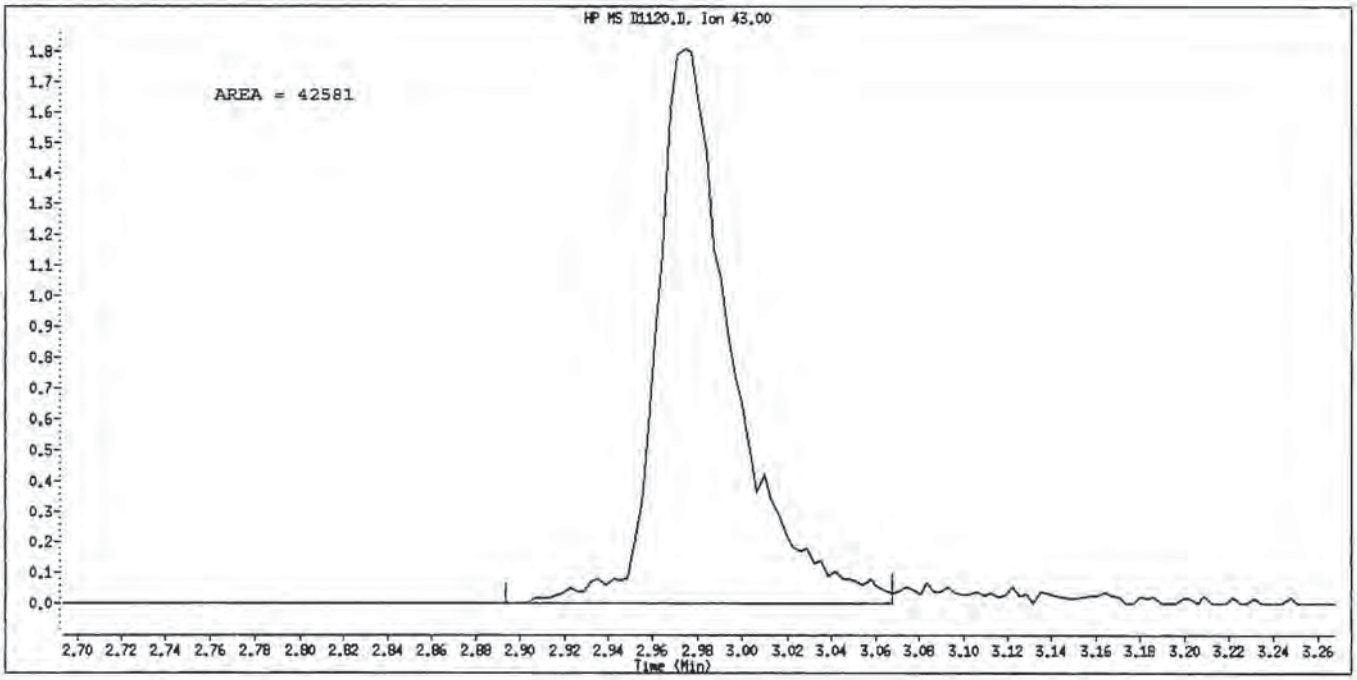
QC Flag Legend

M - Compound response manually integrated.

Inj. Date and Time: 20-NOV-2010 22:51
Instrument ID: HP11.i
Client ID:
Compound Name: Acetone
CAS #: 67-64-1
Report Date: 11/21/2010



Original Integration



Manual Integration

Manually Integrated By: beldenl
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\D1120.D
Lab Smp Id: LCS_HSL
Inj Date : 20-NOV-2010 22:51
Operator : LB Inst ID: HP11.i
Smp Info : LCS_HSL;CG;3;LCS;;;5.00
Misc Info : 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQK01.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	627327	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	513043	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	287689	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	408148	99.9233	99.9233
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	358492	99.6190	99.6190
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1323133	111.795	111.795
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	450499	95.6499	95.6499
8 Dichlorodifluoromethane	85	1.401	1.398	(0.249)	136857	27.3442	27.3442(R)
9 Chloromethane (**)	50	1.556	1.556	(0.277)	193963	35.5824	35.5824(R)
10 Vinyl Chloride (*)	62	1.678	1.675	(0.298)	185226	36.3870	36.3870(R)
11 Bromomethane	94	2.019	2.015	(0.359)	100214	38.1579	38.1579(R)
12 Chloroethane	64	2.128	2.125	(0.378)	116763	37.6548	37.6548(R)
13 Trichlorofluoromethane	101	2.398	2.398	(0.426)	231068	35.2669	35.2669(R)
15 Trichlorotrifluoroethane	101	2.935	2.935	(0.522)	165275	39.0086	39.0086(R)
17 1,1-Dichloroethene(*)	96	2.909	2.909	(0.517)	129334	33.4293	33.4293(R)
18 Acetone	43	2.974	2.974	(0.529)	39814	39.3296	39.3296(R)
21 Carbon disulfide	76	3.109	3.109	(0.553)	546062	41.0295	41.0295(R)
22 Methylene Chloride	84	3.382	3.382	(0.601)	177468	37.2516	37.2516(R)
23 t-Butanol	59	3.507	3.507	(0.623)	319715	1129.97	1129.97(R)
25 Methyl-t-butyl-ether	73	3.646	3.642	(0.648)	442756	43.1148	43.1148(R)
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	161587	35.8878	35.8878(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	3.614	3.613	(0.642)	580392	422.639	422.639(R)
30 1,1-Dichloroethane (**)	63	4.025	4.022	(0.715)	273288	36.9146	36.9146(R)
31 Vinyl acetate	43	4.077	4.080	(0.725)	211190	36.8872	36.8872(R)
33 2,2-Dichloropropane	77	4.536	4.539	(0.806)	153978	39.7860	39.7860(R)
35 cis 1,2-Dichloroethene	96	4.540	4.536	(0.807)	179397	37.6994	37.6994(R)
38 2-Butanone	43	4.556	4.556	(0.810)	54523	37.6109	37.6109(R)
40 Bromochloromethane	128	4.745	4.745	(0.843)	87948	38.3120	38.3120(R)
41 Chloroform (*)	83	4.819	4.819	(0.857)	262474	37.0222	37.0222(R)
42 1,1,1-Trichloroethane	97	4.977	4.973	(0.885)	206653	35.9830	35.9830(R)
43 Carbon Tetrachloride	117	5.118	5.121	(0.910)	187197	35.3730	35.3730(R)
44 1,1-Dichloropropene	75	5.118	5.121	(0.910)	167664	33.9129	33.9129(R)
47 Benzene	78	5.298	5.298	(0.942)	566269	36.0861	36.0861(R)
48 1,2-Dichloroethane	62	5.314	5.311	(0.945)	169567	37.6805	37.6805(R)
49 Trichloroethene	95	5.851	5.851	(1.040)	126986	34.2102	34.2102(R)
51 1,2-Dichloropropane(*)	63	6.048	6.047	(1.075)	133072	37.8710	37.8710(R)
52 Dibromomethane	93	6.147	6.147	(1.093)	74826	37.6206	37.6206(R)
53 1,4-Dioxane	88	6.163	6.163	(1.095)	37167	1301.00	1301.00
54 Bromodichloromethane	83	6.282	6.282	(1.117)	166826	38.3666	38.3666(R)
55 2-Chloroethyl vinyl ether	63	6.546	6.546	(1.163)	33464	36.8084	36.8084
56 cis-1,3-Dichloropropene (xtr)	75	6.675	6.674	(1.186)	162774	36.4910	36.4910(R)
57 4-Methyl-2-pentanone	43	6.810	6.809	(1.210)	112297	36.0902	36.0902(R)
58 Toluene (*)	92	6.974	6.973	(1.239)	312253	36.7874	36.7874(R)
60 trans-1,3-Dichloropropene(xt)	75	7.163	7.163	(1.273)	119531	37.6457	37.6457(R)
61 1,1,2-Trichloroethane	97	7.330	7.327	(1.303)	94434	38.5412	38.5412(R)
62 Tetrachloroethene	166	7.466	7.465	(0.908)	133862	33.3583	33.3583(R)
63 1,3-Dichloropropane	76	7.482	7.481	(0.910)	154671	37.1857	37.1857(R)
64 2-Hexanone	43	7.552	7.552	(0.919)	57603	38.7351	38.7350(R)
65 Dibromochloromethane	129	7.687	7.687	(0.935)	112928	37.7822	37.7822(R)
66 1,2-Dibromoethane	107	7.797	7.797	(0.948)	86284	36.3306	36.3306(R)
67 1-Chlorohexane	91	8.221	8.221	(1.000)	166152	41.3382	41.3382(R)
68 Chlorobenzene (**)	112	8.247	8.247	(1.003)	323786	33.7956	33.7956(R)
69 Ethylbenzene (*)	106	8.347	8.346	(1.015)	185389	34.8943	34.8943(R)
70 1,1,1,2-Tetrachloroethane	131	8.321	8.321	(1.012)	142213	36.0300	36.0300(R)
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	467919	70.6976	70.6976(R)
72 Xylene (o)	106	8.832	8.829	(1.074)	244313	36.0979	36.0978(R)
73 Styrene	104	8.842	8.842	(1.075)	351485	34.7733	34.7733(R)
74 Bromoform (**)	173	9.019	9.018	(1.097)	70520	36.3227	36.3227(R)
75 Isopropylbenzene	105	9.179	9.182	(1.117)	619147	36.6372	36.6372(R)
77 Bromobenzene	156	9.475	9.472	(0.907)	139611	38.1004	38.1004(R)
78 1,1,2,2-Tetrachloroethane(**)	83	9.462	9.459	(0.906)	135032	41.7392	41.7392(R)
79 N-Propylbenzene	91	9.575	9.575	(0.916)	747221	41.8950	41.8950(R)
80 1,2,3-Trichloropropane	110	9.507	9.507	(0.910)	40754	41.0049	41.0048(R)
81 2-Chlorotoluene	91	9.658	9.661	(0.924)	422822	40.0588	40.0588(R)
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	534136	39.7044	39.7044(R)
83 4-Chlorotoluene	91	9.761	9.764	(0.934)	445166	38.1042	38.1042(R)
84 T-Butylbenzene	119	10.063	10.063	(0.963)	483074	36.2484	36.2484(R)
85 1,2,4-Trimethylbenzene	105	10.109	10.108	(0.967)	537081	39.7878	39.7878(R)
86 Sec-Butylbenzene	105	10.276	10.279	(0.983)	754269	40.3934	40.3934(R)
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	287223	35.8818	35.8818(R)
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	636111	39.3746	39.3746(R)
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	283646	34.9052	34.9052(R)
90 N-Butylbenzene	91	10.822	10.822	(1.036)	565609	39.9630	39.9630(R)
91 1,2-Dichlorobenzene	146	10.838	10.835	(1.037)	289488	36.7288	36.7288(R)
92 1,2-Dibromo-3-chloropropane	75	11.604	11.610	(1.110)	20021	36.6440	36.6440(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
93 1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	195748	37.4801	37.4801(R)
94 Hexachlorobutadiene	225	12.604	12.603	(1.206)	134306	38.6999	38.6999(R)
95 Naphthalene	128	12.678	12.677	(1.213)	403112	29.5488	29.5488(R)
96 1,2,3-Trichlorobenzene	180	12.915	12.919	(1.236)	189289	38.3511	38.3511(R)
M 97 1,2-Dichloroethene (Total)	96				340984	73.5872	73.5872
M 98 Xylenes (Total)	106				712232	106.795	106.795

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: D1120.D
Lab Smp Id: LCS HSL
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	682444	341222	1364888	627327	-8.08
2 Chlorobenzene-d5	526668	263334	1053336	513043	-2.59
3 1,4 Dichlorobenze	348511	174256	697022	287689	-17.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: \\qsacca01\chem\HP11.i\112010.b\D1120.D
Report Date: 21-Nov-2010 23:51

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: D1120.D
Lab Smp Id: LCS_HSL
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	614901	307451	1229802	627327	2.02
2 Chlorobenzene-d5	501718	250859	1003436	513043	2.26
3 1,4 Dichlorobenze	289308	144654	578616	287689	-0.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.63	5.13	6.13	5.63	0.00
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: LCS_HSL
Level: LOW Operator: LB
Data Type: MS DATA SampleType: LCS
SpikeList File: A4DQKD4.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
8 Dichlorodifluorome	40.0000	27.3442	68.36	35-135
9 Chloromethane (**)	40.0000	35.5824	88.96	50-130
10 Vinyl Chloride (*)	40.0000	36.3870	90.97	60-125
11 Bromomethane	40.0000	38.1579	95.39	30-160
12 Chloroethane	40.0000	37.6548	94.14	40-155
13 Trichlorofluoromet	40.0000	35.2669	88.17	25-185
15 Trichlorotrifluoro	40.0000	39.0086	97.52	62-138
17 1,1-Dichloroethene	40.0000	33.4293	83.57	65-135
18 Acetone	40.0000	42.0629	105.16	20-160
21 Carbon disulfide	40.0000	41.0295	102.57	45-160
22 Methylene Chloride	40.0000	37.2516	93.13	55-140
23 t-Butanol	1000.00	1129.97	113.00	46-181
27 Acrylonitrile	400.000	422.639	105.66	75-148
26 trans-1,2-Dichloro	40.0000	35.8878	89.72	65-135
25 Methyl-t-butyl-eth	40.0000	43.1148	107.79	66-146
30 1,1-Dichloroethane	40.0000	36.9146	92.29	75-125
31 Vinyl acetate	40.0000	36.8872	92.22	39-160
33 2,2-Dichloropropan	40.0000	39.7860	99.46	65-135
35 cis 1,2-Dichloroet	40.0000	37.6994	94.25	65-125
38 2-Butanone	40.0000	37.6109	94.03	30-160
40 Bromochloromethane	40.0000	38.3120	95.78	70-125
41 Chloroform (*)	40.0000	37.0222	92.56	70-125
42 1,1,1-Trichloroeth	40.0000	35.9830	89.96	70-135
43 Carbon Tetrachlori	40.0000	35.3730	88.43	65-135
44 1,1-Dichloropropen	40.0000	33.9129	84.78	70-135
47 Benzene	40.0000	36.0861	90.22	75-125
48 1,2-Dichloroethane	40.0000	37.6805	94.20	70-135
49 Trichloroethene	40.0000	34.2102	85.53	75-125
51 1,2-Dichloropropan	40.0000	37.8710	94.68	70-120
52 Dibromomethane	40.0000	37.6206	94.05	75-130
53 1,4-Dioxane	1000.00	1301.00	130.10	47-151
54 Bromodichlorometha	40.0000	38.3666	95.92	70-130
56 cis-1,3-Dichloropr	40.0000	36.4910	91.23	70-125
57 4-Methyl-2-pentano	40.0000	36.0902	90.23	45-145
58 Toluene (*)	40.0000	36.7874	91.97	70-125
60 trans-1,3-Dichloro	40.0000	37.6457	94.11	65-125
61 1,1,2-Trichloroeth	40.0000	38.5412	96.35	60-125
62 Tetrachloroethene	40.0000	33.3583	83.40	65-140
63 1,3-Dichloropropan	40.0000	37.1857	92.96	75-125
64 2-Hexanone	40.0000	38.7350	96.84	45-145

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
65 Dibromochlorometha	40.0000	37.7822	94.46	65-130
66 1,2-Dibromoethane	40.0000	36.3306	90.83	70-125
68 Chlorobenzene (**)	40.0000	33.7956	84.49	75-125
67 1-Chlorohexane	40.0000	41.3382	103.35	55-145
70 1,1,1,2-Tetrachlor	40.0000	36.0300	90.08	77-134
69 Ethylbenzene (*)	40.0000	34.8943	87.24	75-125
71 Xylenes (m,p)	80.0000	70.6976	88.37	80-125
72 Xylene (o)	40.0000	36.0978	90.24	75-125
73 Styrene	40.0000	34.7733	86.93	75-125
74 Bromoform (**)	40.0000	36.3227	90.81	55-135
75 Isopropylbenzene	40.0000	36.6372	91.59	75-130
77 Bromobenzene	40.0000	38.1004	95.25	65-120
78 1,1,2,2-Tetrachlor	40.0000	41.7392	104.35	55-130
80 1,2,3-Trichloropro	40.0000	41.0048	102.51	60-135
79 N-Propylbenzene	40.0000	41.8950	104.74	65-135
81 2-Chlorotoluene	40.0000	40.0588	100.15	70-130
83 4-Chlorotoluene	40.0000	38.1042	95.26	75-125
82 1,3,5-Trimethylben	40.0000	39.7044	99.26	65-135
84 T-Butylbenzene	40.0000	36.2484	90.62	65-130
85 1,2,4-Trimethylben	40.0000	39.7878	99.47	65-130
86 Sec-Butylbenzene	40.0000	40.3934	100.98	65-130
87 1,3-Dichlorobenzen	40.0000	35.8818	89.70	75-125
88 P-Isopropyltoluene	40.0000	39.3746	98.44	64-137
89 1,4-Dichlorobenzen	40.0000	34.9052	87.26	70-125
91 1,2-Dichlorobenzen	40.0000	36.7288	91.82	75-120
90 N-Butylbenzene	40.0000	39.9630	99.91	65-140
92 1,2-Dibromo-3-chlo	40.0000	36.6440	91.61	40-135
93 1,2,4-Trichloroben	40.0000	37.4801	93.70	65-135
94 Hexachlorobutadien	40.0000	38.6999	96.75	55-140
95 Naphthalene	40.0000	29.5488	73.87	40-125
96 1,2,3-Trichloroben	40.0000	38.3511	95.88	60-135

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	100.000	99.9233	99.92	68-116
$ 5 1,2-Dichloroethane	100.000	99.6190	99.62	59-130
$ 6 Toluene-d8	100.000	111.795	111.80	85-115
$ 7 4-Bromofluorobenze	100.000	95.6499	95.65	85-120

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS_HSL
Level: LOW
Data Type: MS DATA
SpikeList File: A15QK3Y.spk
Sublist File: A15QK3Y.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
9 Chloromethane (**)	40.0000	35.5824	88.96	70-130
10 Vinyl Chloride (*)	40.0000	36.3870	90.97	70-130
11 Bromomethane	40.0000	38.1579	95.39	70-130
13 Trichlorofluoromet	40.0000	35.2669	88.17	70-130
17 1,1-Dichloroethene	40.0000	33.4293	83.57	70-130
26 trans-1,2-Dichloro	40.0000	35.8878	89.72	70-130
30 1,1-Dichloroethane	40.0000	36.9146	92.29	70-130
35 cis 1,2-Dichloroet	40.0000	37.6994	94.25	70-130
41 Chloroform (*)	40.0000	37.0222	92.56	70-130
42 1,1,1-Trichloroeth	40.0000	35.9830	89.96	70-130
43 Carbon Tetrachlori	40.0000	35.3730	88.43	70-130
47 Benzene	40.0000	36.0861	90.22	70-130
48 1,2-Dichloroethane	40.0000	37.6805	94.20	70-130
49 Trichloroethene	40.0000	34.2102	85.53	70-130
51 1,2-Dichloropropan	40.0000	37.8710	94.68	70-130
54 Bromodichlorometha	40.0000	38.3666	95.92	70-130
58 Toluene (*)	40.0000	36.7874	91.97	70-130
61 1,1,2-Trichloroeth	40.0000	38.5412	96.35	70-130
62 Tetrachloroethene	40.0000	33.3583	83.40	70-130
65 Dibromochlorometha	40.0000	37.7822	94.46	70-130
68 Chlorobenzene (**)	40.0000	33.7956	84.49	70-130
69 Ethylbenzene (*)	40.0000	34.8943	87.24	70-130
71 Xylenes (m,p)	80.0000	70.6976	88.37	70-130
72 Xylene (o)	40.0000	36.0978	90.24	70-130
75 Isopropylbenzene	40.0000	36.6372	91.59	70-130
85 1,2,4-Trimethylben	40.0000	39.7878	99.47	70-130
87 1,3-Dichlorobenzen	40.0000	35.8818	89.70	70-130
89 1,4-Dichlorobenzen	40.0000	34.9052	87.26	70-130
91 1,2-Dichlorobenzen	40.0000	36.7288	91.82	70-130

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	100.000	99.9233	99.92	65-135
$ 5 1,2-Dichloroethane	100.000	99.6190	99.62	55-135
$ 6 Toluene-d8	100.000	111.795	111.80	75-125
$ 7 4-Bromofluorobenze	100.000	95.6499	95.65	70-130

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS_HSL
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQK01.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A4DQK01.sub;A4DQK01.spk;1;;5

Client SDG: I80
Fraction: VOA

Operator: LB
SampleType: LCS
Quant Type: ISTD

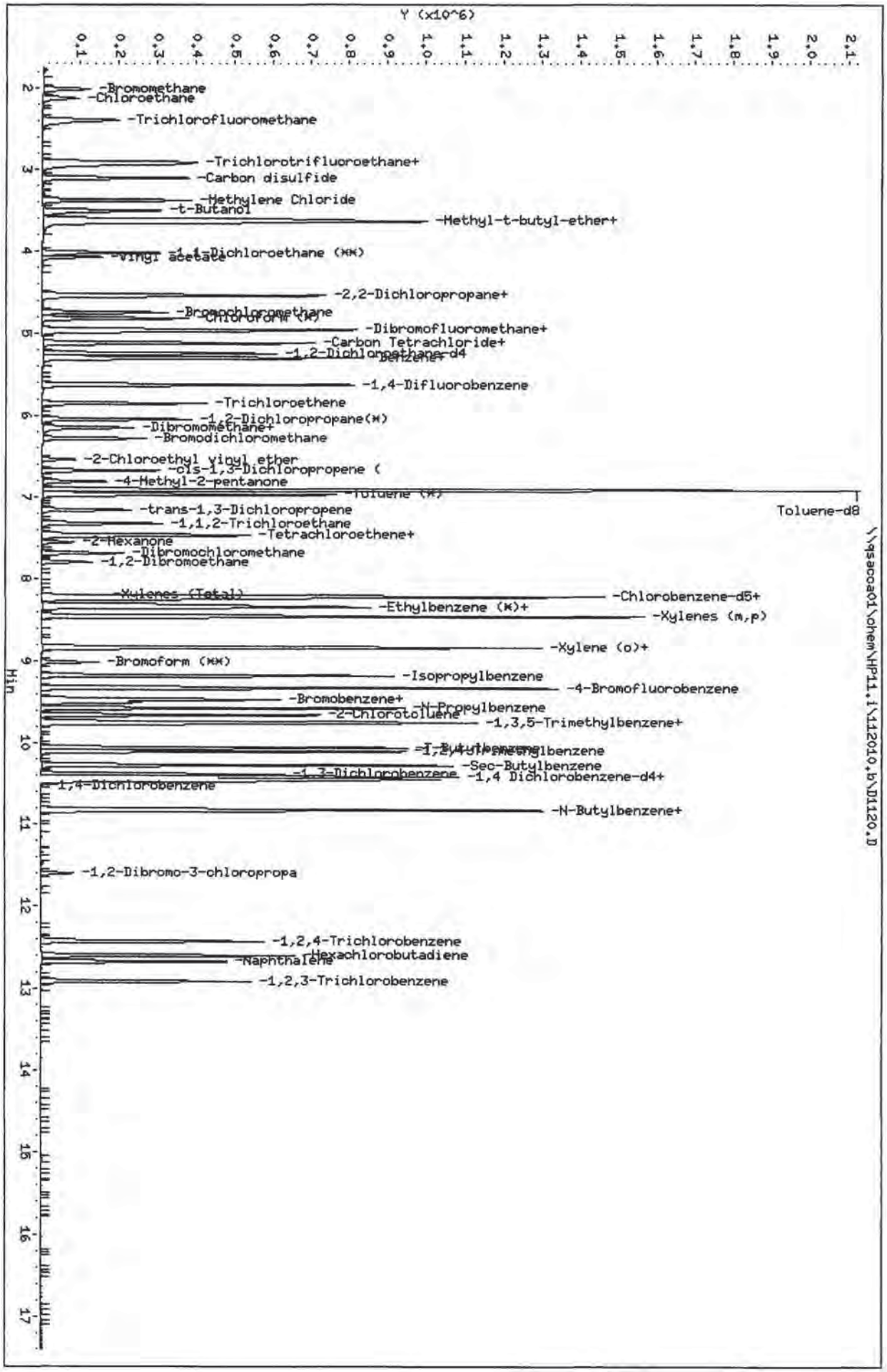
SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
8	Dichlorodifluorome	40.0000	27.3442	68.36	60-130
9	Chloromethane (**)	40.0000	35.5824	88.96	60-141
10	Vinyl Chloride (*)	40.0000	36.3870	90.97	67-127
11	Bromomethane	40.0000	38.1579	95.39	48-164
12	Chloroethane	40.0000	37.6548	94.14	54-148
13	Trichlorofluoromet	40.0000	35.2669	88.17	43-158
15	Trichlorotrifluoro	40.0000	39.0086	97.52	62-138
17	1,1-Dichloroethene	40.0000	33.4293	83.57	66-136
18	Acetone	40.0000	42.0629	105.16	64-128
21	Carbon disulfide	40.0000	41.0295	102.57	52-145
22	Methylene Chloride	40.0000	37.2516	93.13	77-125
23	t-Butanol	1000.00	1129.97	113.00	46-181
27	Acrylonitrile	400.000	422.639	105.66	75-148
26	trans-1,2-Dichloro	40.0000	35.8878	89.72	67-135
25	Methyl-t-butyl-eth	40.0000	43.1148	107.79	66-146
30	1,1-Dichloroethane	40.0000	36.9146	92.29	76-134
31	Vinyl acetate	40.0000	36.8872	92.22	39-160
33	2,2-Dichloropropan	40.0000	39.7860	99.46	69-153
35	cis 1,2-Dichloroet	40.0000	37.6994	94.25	74-131
38	2-Butanone	40.0000	37.6109	94.03	71-142
40	Bromochloromethane	40.0000	38.3120	95.78	80-127
41	Chloroform (*)	40.0000	37.0222	92.56	78-135
42	1,1,1-Trichloroeth	40.0000	35.9830	89.96	67-150
43	Carbon Tetrachlori	40.0000	35.3730	88.43	62-154
44	1,1-Dichloropropen	40.0000	33.9129	84.78	76-132
47	Benzene	40.0000	36.0861	90.22	78-128
48	1,2-Dichloroethane	40.0000	37.6805	94.20	66-150
49	Trichloroethene	40.0000	34.2102	85.53	80-126
51	1,2-Dichloropropan	40.0000	37.8710	94.68	80-129
52	Dibromomethane	40.0000	37.6206	94.05	80-129
53	1,4-Dioxane	1000.00	1301.00	130.10	47-151
54	Bromodichlorometha	40.0000	38.3666	95.92	80-137
56	cis-1,3-Dichloropr	40.0000	36.4910	91.23	80-134
57	4-Methyl-2-pentano	40.0000	36.0902	90.23	79-150
58	Toluene (*)	40.0000	36.7874	91.97	80-124
60	trans-1,3-Dichloro	40.0000	37.6457	94.11	80-148
61	1,1,2-Trichloroeth	40.0000	38.5412	96.35	80-128
62	Tetrachloroethene	40.0000	33.3583	83.40	65-135
63	1,3-Dichloropropan	40.0000	37.1857	92.96	80-123
64	2-Hexanone	40.0000	38.7350	96.84	78-143

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
65 Dibromochlorometha	40.0000	37.7822	94.46	80-133
66 1,2-Dibromoethane	40.0000	36.3306	90.83	80-124
68 Chlorobenzene (**)	40.0000	33.7956	84.49	74-125
67 1-Chlorohexane	40.0000	41.3382	103.35	55-145
70 1,1,1,2-Tetrachlor	40.0000	36.0300	90.08	77-134
69 Ethylbenzene (*)	40.0000	34.8943	87.24	72-125
71 Xylenes (m,p)	80.0000	70.6976	88.37	73-128
72 Xylene (o)	40.0000	36.0978	90.24	76-127
73 Styrene	40.0000	34.7733	86.93	79-128
74 Bromoform (**)	40.0000	36.3227	90.81	80-136
75 Isopropylbenzene	40.0000	36.6372	91.59	69-137
77 Bromobenzene	40.0000	38.1004	95.25	67-132
78 1,1,2,2-Tetrachlor	40.0000	41.7392	104.35	71-134
80 1,2,3-Trichloropro	40.0000	41.0048	102.51	54-140
79 N-Propylbenzene	40.0000	41.8950	104.74	63-128
81 2-Chlorotoluene	40.0000	40.0588	100.15	64-127
83 4-Chlorotoluene	40.0000	38.1042	95.26	67-128
82 1,3,5-Trimethylben	40.0000	39.7044	99.26	66-135
84 T-Butylbenzene	40.0000	36.2484	90.62	67-131
85 1,2,4-Trimethylben	40.0000	39.7878	99.47	48-145
86 Sec-Butylbenzene	40.0000	40.3934	100.98	68-131
87 1,3-Dichlorobenzen	40.0000	35.8818	89.70	64-126
88 P-Isopropyltoluene	40.0000	39.3746	98.44	64-137
89 1,4-Dichlorobenzen	40.0000	34.9052	87.26	65-124
91 1,2-Dichlorobenzen	40.0000	36.7288	91.82	68-121
90 N-Butylbenzene	40.0000	39.9630	99.91	68-136
92 1,2-Dibromo-3-chlo	40.0000	36.6440	91.61	75-137
93 1,2,4-Trichloroben	40.0000	37.4801	93.70	64-137
94 Hexachlorobutadien	40.0000	38.6999	96.75	52-140
95 Naphthalene	40.0000	29.5488	73.87	53-140
96 1,2,3-Trichloroben	40.0000	38.3511	95.88	54-140

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	100.000	99.9233	99.92	55-129
$ 5 1,2-Dichloroethane	100.000	99.6190	99.62	32-156
$ 6 Toluene-d8	100.000	111.795	111.80	63-138
$ 7 4-Bromofluorobenze	100.000	95.6499	95.65	63-143

Data File: \\qsacoa01\chem\HP11.i\112010.b\D1120.D
Date : 20-NOV-2010 22:51
Client ID:
Sample Info: LCS_HSL;CC;3;LCS;;;5.00
Column phase:

Instrument: HP11.i
Operator: LB
Column diameter: 0.53



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TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\G1119.D
Lab Smp Id: LCS_GAS
Inj Date : 20-NOV-2010 23:15
Operator : LB Inst ID: HP11.i
Smp Info : LCS_GAS;CG;3;LCS;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACPHP11

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
3 1,4-Difluorobenzene	5.626	5.623	0.003	1539805		(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1482003		(a)
8 1,4-Dichlorobenzene-d4	10.446	10.446	0.000	1609703		(a)
1 Dibromofluoromethane	4.957	4.954	0.003	1267634		(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	994374		(a)
5 Toluene-d8	6.916	6.913	0.003	3560691		(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	2179379		(a)
S 147 8015B (GRO)	3.340-10.165			27037763	1070.94	1071
S 148 AK101	3.830-9.650			20624570	1018.62	1019
S 149 CALUFT	5.300-12.050			23078760	1135.01	1135
S 150 NWTPH-Gx	6.870-12.730			18189538	1013.29	1013
S 151 Gas C6-C12	3.830-12.050			26707555	1057.13	1057
S 152 GAS C6-C10	3.830-9.800			22514654	1084.89	1085

LB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS_GAS
Level: LOW
Data Type: GC DATA
SpikeList File: TPHALL.spk
Sublist File: TPHALL.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Misc Info: 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
S 147 8015B (GRO)	1000	1071	107.09	70-130
S 148 AK101	1000	1019	101.86	70-130
S 149 CALUFT	1000	1135	113.50	79-123
S 150 NWTPH-Gx	1000	1013	101.33	70-130
S 152 GAS C6-C10	1000	1085	108.49	79-123
S 151 Gas C6-C12	1000	1057	105.71	57-146

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS_GAS
Level: LOW
Data Type: MS DATA
SpikeList File: TPHALL.spk
Sublist File: A4DQK01BTX.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5

Client SDG: I80
Fraction: VOA

Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	100.000	97.3771	97.38	78-128
$ 5 1,2-Dichloroethane	100.000	93.9286	93.93	65-139
$ 6 Toluene-d8	100.000	107.730	107.73	80-123
$ 7 4-Bromofluorobenze	100.000	92.0674	92.07	74-122

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\G1119.D
Lab Smp Id: LCS_GAS
Inj Date : 20-NOV-2010 23:15
Operator : LB Inst ID: HP11.i
Smp Info : LCS_GAS;CG;3;LCS;;;5.00
Misc Info : 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACPHP11

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.508	43578	22021	0.505	0.09	
1.540	101932	30067	0.295	0.21	
1.688	212740	72236	0.340	0.45	
1.852	35109	12813	0.365	0.07	
2.080	24712	9667	0.391	0.05	
2.209	1953825	743767	0.381	4.14	
2.415	60502	32181	0.532	0.12	
2.479	1332731	638801	0.479	2.82	
2.624	230482	124685	0.541	0.48	
2.736	116569	58836	0.505	0.24	
2.794	324102	162993	0.503	0.68	
2.945	345694	139862	0.405	0.73	
3.196	3118	2801	0.898	0.00	
4.958	1267635	712600	0.562	2.69	1 Dibromofluoromethan
5.247	994374	574715	0.578	2.11	2 1,2-Dichloroethane-
5.627	1539806	832051	0.540	3.26	3 1,4-Difluorobenzene
6.740	20624571	11137938	0.540	43.78	S 148 AK101
6.753	27037763	14293963	0.529	-172.85	S 147 8015B (GRO)
3.411	1809379	601222	0.332		
3.646	696447	343420	0.493		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.813	66951	31642	0.473		
6.815	22514654	12060108	0.536	47.79	S 152 GAS C6-C10
3.900	723551	401688	0.555		
3.993	49427	26699	0.540		
4.048	73345	41796	0.570		
4.087	92353	50080	0.542		
4.157	53274	27492	0.516		
4.218	59360	27123	0.457		
4.312	122203	49514	0.405		
4.379	156052	79990	0.513		
4.447	552760	266825	0.483		
4.752	8533	4396	0.515		
4.845	38805	21039	0.542		
4.871	98838	48102	0.487		
4.993	730658	297347	0.407		
5.064	287636	157525	0.548		
5.151	582001	318273	0.547		
5.302	492252	269994	0.548		
5.373	1504461	636916	0.423		
5.444	114446	57194	0.500		
5.527	385159	221361	0.575		
5.771	27765	16841	0.607		
5.845	29700	17888	0.602		
5.871	39553	20647	0.522		
6.022	469172	219037	0.467		
6.077	195740	109565	0.560		
6.135	33407	18757	0.561		
6.186	77260	41858	0.542		
6.247	65422	28503	0.436		
6.324	17384	6505	0.374		
6.389	438266	232439	0.530		
6.498	514830	212820	0.413		
6.562	325156	130590	0.402		
6.691	312535	133655	0.428		
6.836	166162	69001	0.415		
6.974	4108774	2485006	0.605		
7.074	288360	116264	0.403		
7.196	51035	27113	0.531		
7.260	13887	8744	0.630		
7.312	130187	34764	0.267		
7.414	34787	14598	0.420		
7.498	29736	15629	0.526		
7.550	22321	11255	0.504		
7.607	57224	28240	0.493		
7.665	56428	16345	0.290		
7.730	51509	27434	0.533		
7.784	54999	18647	0.339		
7.881	24880	10156	0.408		
7.926	41369	17338	0.419		
8.003	171882	78377	0.456		
8.112	106564	53107	0.498		
8.350	991695	600748	0.606		
8.402	14671	14773	1.007		
8.456	3497679	2080964	0.595		
8.614	9971	4271	0.428		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.730	9706	9321	0.960		
8.758	26859	10800	0.402		
8.829	1471392	904929	0.615		
8.942	32508	14112	0.434		
8.993	15593	8234	0.528		
9.064	45532	12541	0.275		
9.180	90358	52076	0.576		
9.225	16642	10120	0.608		
9.411	42795	20429	0.477		
9.495	13592	8542	0.628		
9.575	264171	161601	0.612		
9.662	1385866	624855	0.451		
9.746	504217	297315	0.590		
6.916	3560692	2094977	0.588	7.55	5 Toluene-d8
7.940	26707556	14456083	0.541	56.69	S 151 Gas C6-C12
9.942	371878	231594	0.623		
10.006	19401	5668	0.292		
10.109	1559053	1020309	0.654		
10.199	20949	8244	0.394		
10.247	41550	12819	0.309		
10.318	24492	13458	0.549		
10.369	43858	21312	0.486		
10.524	394056	220313	0.559		
10.610	19090	11196	0.586		
10.720	356211	131806	0.370		
10.800	306412	147558	0.482		
10.919	40728	22222	0.546		
10.987	57611	32839	0.570		
11.070	96405	61352	0.636		
11.099	103610	66730	0.644		
11.173	193575	105085	0.543		
11.289	86415	32781	0.379		
11.398	11642	4176	0.359		
11.479	43194	25061	0.580		
11.572	96395	54404	0.564		
11.623	138928	88494	0.637		
11.704	36818	11356	0.308		
11.752	13672	9276	0.678		
11.797	17715	7408	0.418		
11.890	62890	29524	0.469		
11.938	12576	7899	0.628		
12.003	23777	13091	0.551		
8.222	1482004	869503	0.587	3.14	6 Chlorobenzene-d5
8.675	23078761	12638194	0.548	48.99	S 149 CALUFT
9.328	2179380	1317826	0.605	4.62	7 4-Bromofluorobenzen
9.800	18189539	10339891	0.568	38.61	S 150 NWTPH-Gx
12.051	117325	56739	0.484		
12.141	17413	9128	0.524		
12.225	13042	5767	0.442		
12.327	8623	5025	0.583		
12.372	15303	8589	0.561		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.424	37764	14996	0.397		
12.533	40890	7656	0.187		
12.678	69090	37368	0.541		
10.447	1609704	991373	0.616	3.41	8 1,4-Dichlorobenzene
12.858	8685	4200	0.484	0.01	
12.916	15454	6966	0.451	0.03	
13.012	3726	2572	0.690	0.00	
13.067	12066	5839	0.484	0.02	
13.250	12750	5194	0.407	0.02	
13.408	7012	2563	0.366	0.01	
13.884	17663	7867	0.445	0.03	
14.112	9256	3477	0.376	0.01	
	47105085	25060088		100.000	

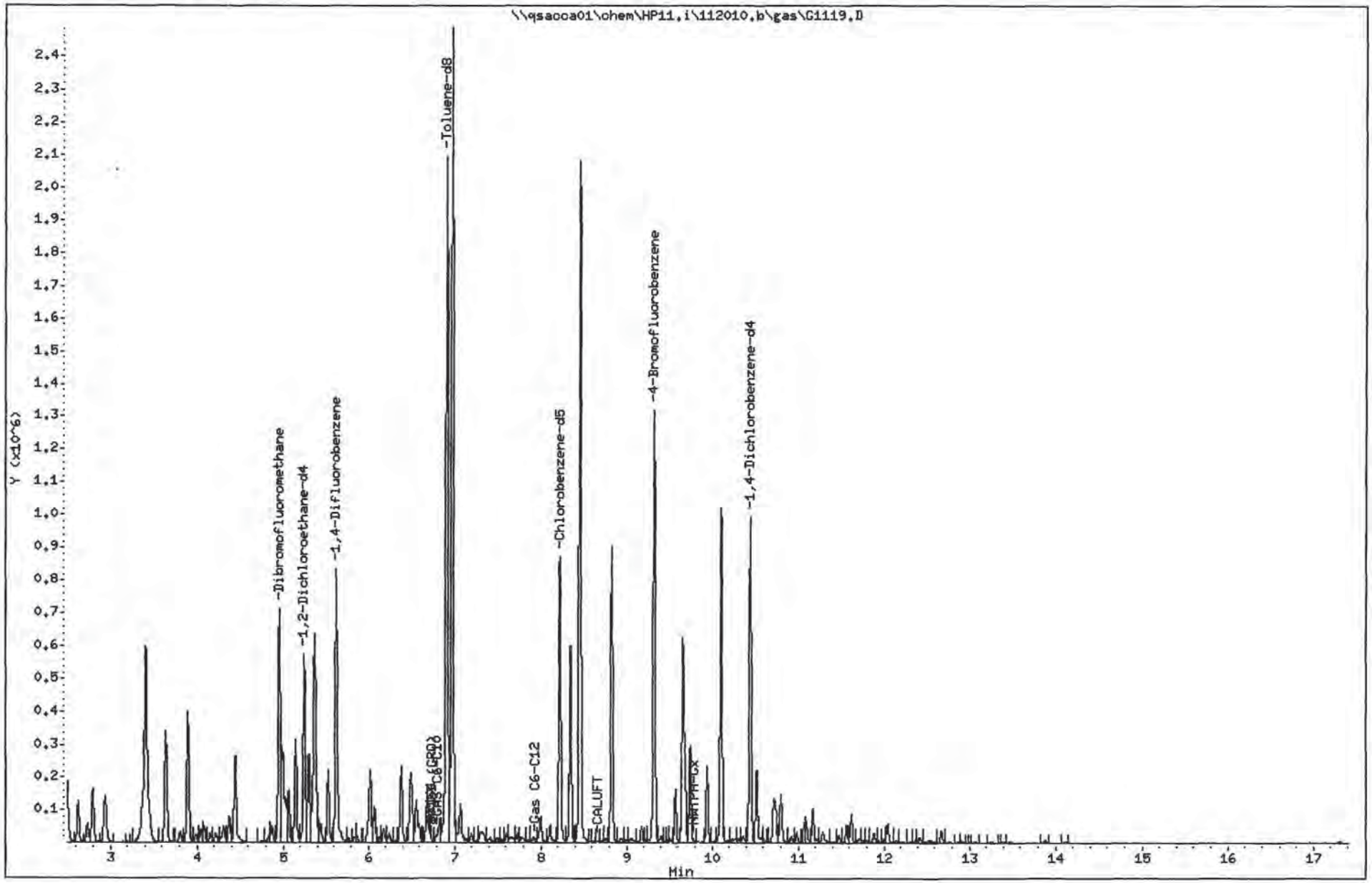
Total unknown % area = 10.21

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\G1119.D
Date : 20-NOV-2010 23:15
Client ID:
Sample Info: LCS_GAS;CG;3;LCS;;;5.00

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\W1120.D
Lab Smp Id: VBLK
Inj Date : 20-NOV-2010 23:39
Operator : LB Inst ID: HP11.i
Smp Info : VBLK;CG;0;;;;;5.00
Misc Info : 2;SOIL;0;A15QK3Y.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.M
Meth Date : 21-Nov-2010 21:11 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A15QK3Y.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	525173	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	417756	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	234174	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	376525	110.112	110.112
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	330354	109.656	109.656
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1118106	112.848	112.848
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	367741	95.8879	95.8879
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

LB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
76 T-1,4-Dichloro-2-Butene	89	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94 Hexachlorobutadiene	225	Compound Not Detected.					
95 Naphthalene	128	Compound Not Detected.					
96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: W1120.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A15QK3Y.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	614901	307451	1229802	525173	-14.59
2 Chlorobenzene-d5	501718	250859	1003436	417756	-16.73
3 1,4 Dichlorobenze	289308	144654	578616	234174	-19.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.63	5.13	6.13	5.63	0.00
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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:
Sample Matrix: SOLID
Lab Smp Id: VBLK
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A15QK3Y.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A15QK3Y.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

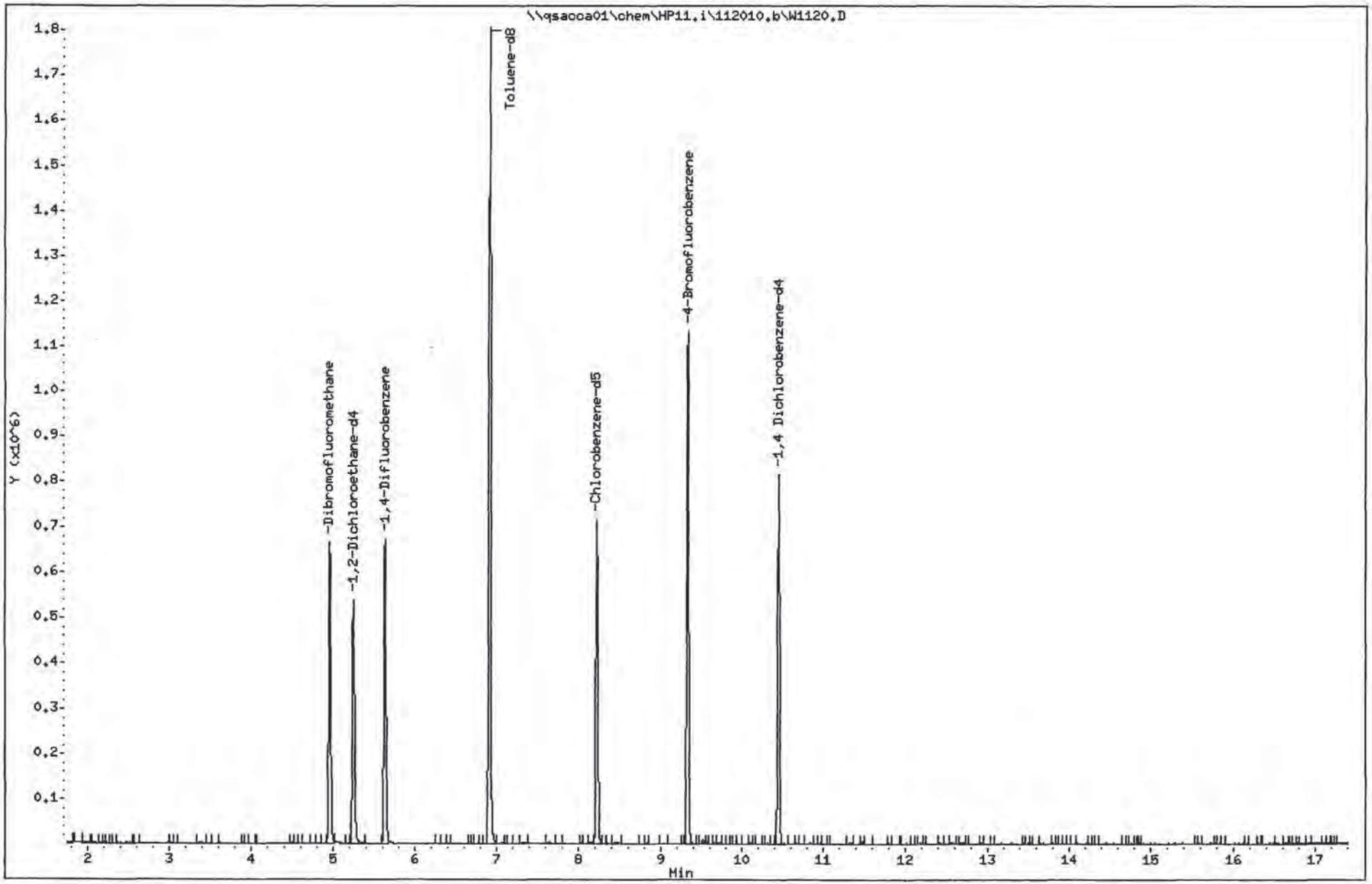
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	100.000	110.112	110.11	65-135
$ 5 1,2-Dichloroethane	100.000	109.656	109.66	55-135
$ 6 Toluene-d8	100.000	112.848	112.85	75-125
$ 7 4-Bromofluorobenze	100.000	95.8879	95.89	70-130

Data File: \\qsaooa01\chem\HP11.i\112010.b\W1120.D
Date : 20-NOV-2010 23:39
Client ID:
Sample Info: VBLK;CG;0;;;;;5.00

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\W1120.D
Lab Smp Id: VBLK
Inj Date : 20-NOV-2010 23:39
Operator : LB Inst ID: HP11.i
Smp Info : VBLK;CG;0;;;;;5.00
Misc Info : 2;SOIL;0;A15QK3Y.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1125785			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1189581			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	1281254			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	1177949			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	964394			(a)
5 Toluene-d8	6.916	6.913	0.003	2984806			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1797536			(a)
S 147 8015B (GRO)	3.340-10.165			46836	1.85512	1.86	
S 148 AK101	3.830-9.650			35923	1.77419	1.77	
S 149 CALUFT	5.300-12.050			67892	3.33893	3.34	
S 150 NWTPH-Gx	6.870-12.730			71116	3.96169	3.96	
S 151 Gas C6-C12	3.830-12.050			67892	2.68729	2.69	
S 152 GAS C6-C10	3.830-9.800			43029	2.07339	2.07	(a)

QC Flag Legend

DB 11/21/10

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: VBLK
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A15QK3Y.sub;;0;;5

Client SDG: I80
Fraction: VOA

Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	100.000	110.112	110.11	68-116
$ 5 1,2-Dichloroethane	100.000	109.656	109.66	59-130
$ 6 Toluene-d8	100.000	112.848	112.85	85-115
$ 7 4-Bromofluorobenze	100.000	95.8879	95.89	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\W1120.D
Lab Smp Id: VBLK
Inj Date : 20-NOV-2010 23:39
Operator : LB Inst ID: HP11.i
Smp Info : VBLK;CG;0;;;;;5.00
Misc Info : 2;SOIL;0;A15QK3Y.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.000	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.511	117000	20023	0.171	1.08	
1.781	12576	3397	0.270	0.11	
1.871	6886	2402	0.349	0.06	
1.977	9993	3012	0.301	0.09	
4.958	1177949	664970	0.565	10.96	1 Dibromofluoromethan
5.247	964394	539171	0.559	8.98	2 1,2-Dichloroethane-
5.627	1125786	671218	0.596	10.48	3 1,4-Difluorobenzene
6.740	35924	19252	0.536	0.33	S 148 AK101
6.753	46837	25919	0.553	0.43	S 147 8015B (GRO)
6.815	43030	22847	0.531	0.40	S 152 GAS C6-C10
7.331	5129	2308	0.450		
7.649	5310	3133	0.590		
8.141	5261	2847	0.541		
8.479	6320	2401	0.380		
9.514	13903	8563	0.616		
9.713	7106	3595	0.506		
6.916	2984807	1805328	0.605	25.43	5 Toluene-d8

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	67892	37239	0.549	0.63	S 151 Gas C6-C12
10.109	3807	3072	0.807		
11.340	5902	2417	0.410		
11.482	10079	6345	0.630		
11.797	5075	2558	0.504		
8.222	1189581	715878	0.602	11.07	6 Chlorobenzene-d5
8.675	67892	37239	0.549	0.63	S 149 CALUFT
9.328	1797536	1132939	0.630	16.73	7 4-Bromofluorobenzen
9.800	71117	38992	0.548	0.66	S 150 NWTPH-Gx
12.430	3225	1753	0.544		
10.450	1281254	814553	0.636	11.93	8 1,4-Dichlorobenzene
	10738879	6411883		100.000	

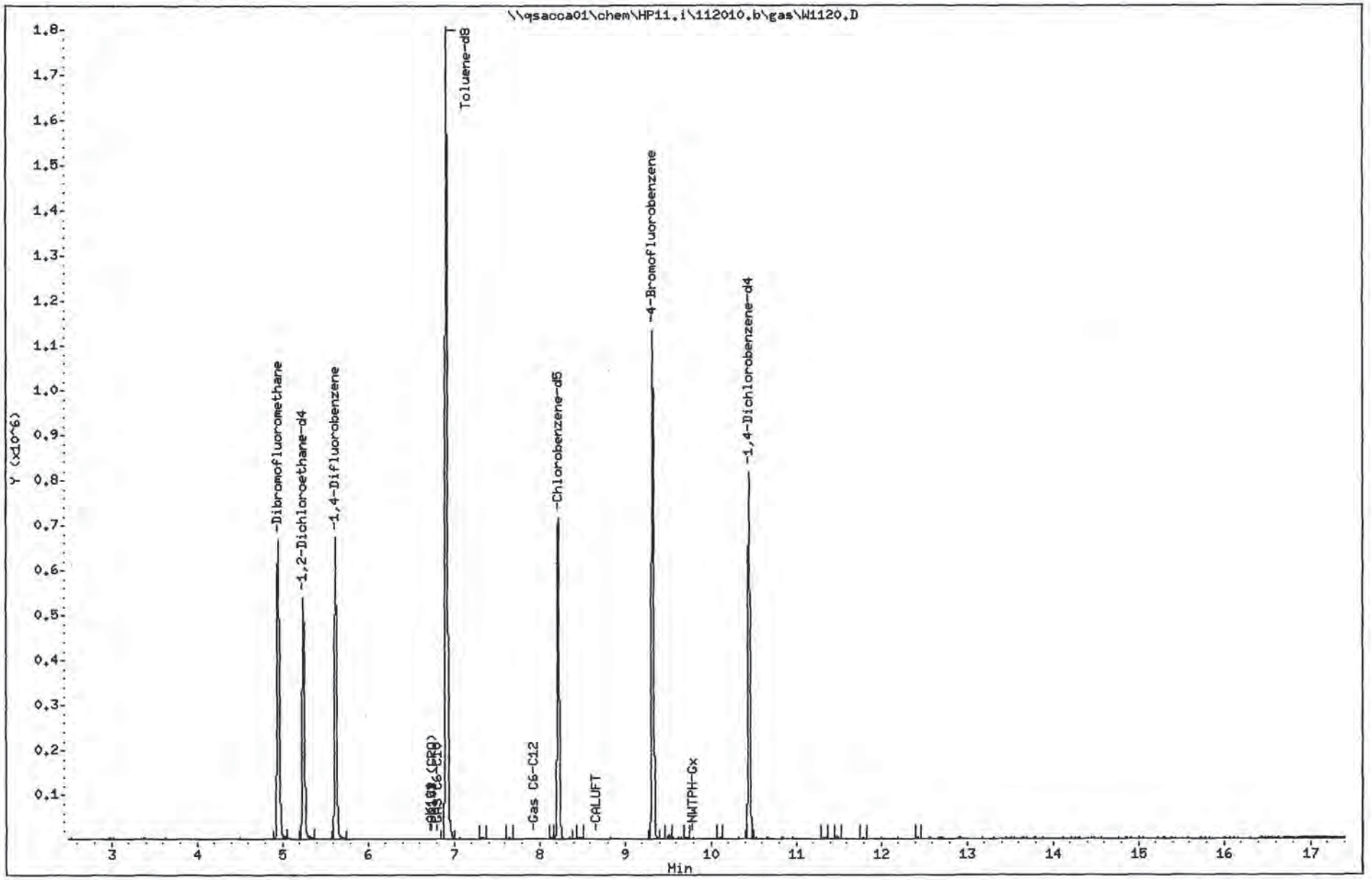
Total unknown % area = 1.34

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\W1120.D
Date : 20-NOV-2010 23:39
Client ID:
Sample Info: VBLK:CG:0:::::5.00

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111917.D
Lab Smp Id: MAC5T1AD G0K100425-
Inj Date : 21-NOV-2010 07:14
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AD G0K100425-8S;CG;3;MS;;;;5.75
Misc Info : 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.M
Meth Date : 21-Nov-2010 21:50 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 24 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable 1/153

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.750	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	495544	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	377009	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	170130	50.0000	
$ 4 Dibromofluoromethane	111	4.957	4.954	(0.881)	316496	98.0910	85.2965
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	249753	87.8588	76.3989
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1007147	107.727	93.6757
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	286858	82.8819	72.0712(R)
8 Dichlorodifluoromethane	85	1.401	1.398	(0.249)	125043	31.6278	27.5024
9 Chloromethane (**)	50	1.559	1.556	(0.277)	180272	41.8655	36.4047
10 Vinyl Chloride (*)	62	1.678	1.675	(0.298)	176300	43.8439	38.1251
11 Bromomethane	94	2.015	2.015	(0.358)	89726	43.2500	37.6087
12 Chloroethane	64	2.125	2.125	(0.378)	112898	46.0907	40.0788
13 Trichlorofluoromethane	101	2.401	2.398	(0.427)	205734	39.7508	34.5659
15 Trichlorotrifluoroethane	101	2.938	2.935	(0.522)	115821	34.6061	30.0923
17 1,1-Dichloroethene(*)	96	2.912	2.909	(0.518)	115089	37.6583	32.7463
18 Acetone	43	2.970	2.974	(0.528)	27125	33.9207	29.4963(M)
21 Carbon disulfide	76	3.109	3.109	(0.553)	368987	35.0975	30.5196
22 Methylene Chloride	84	3.382	3.382	(0.601)	148667	39.5049	34.3521
23 t-Butanol	59	3.511	3.507	(0.624)	159322	712.839	619.860
25 Methyl-t-butyl-ether	73	3.646	3.642	(0.648)	292912	36.1086	31.3988
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	135353	38.0558	33.0920

AB 11/21/10

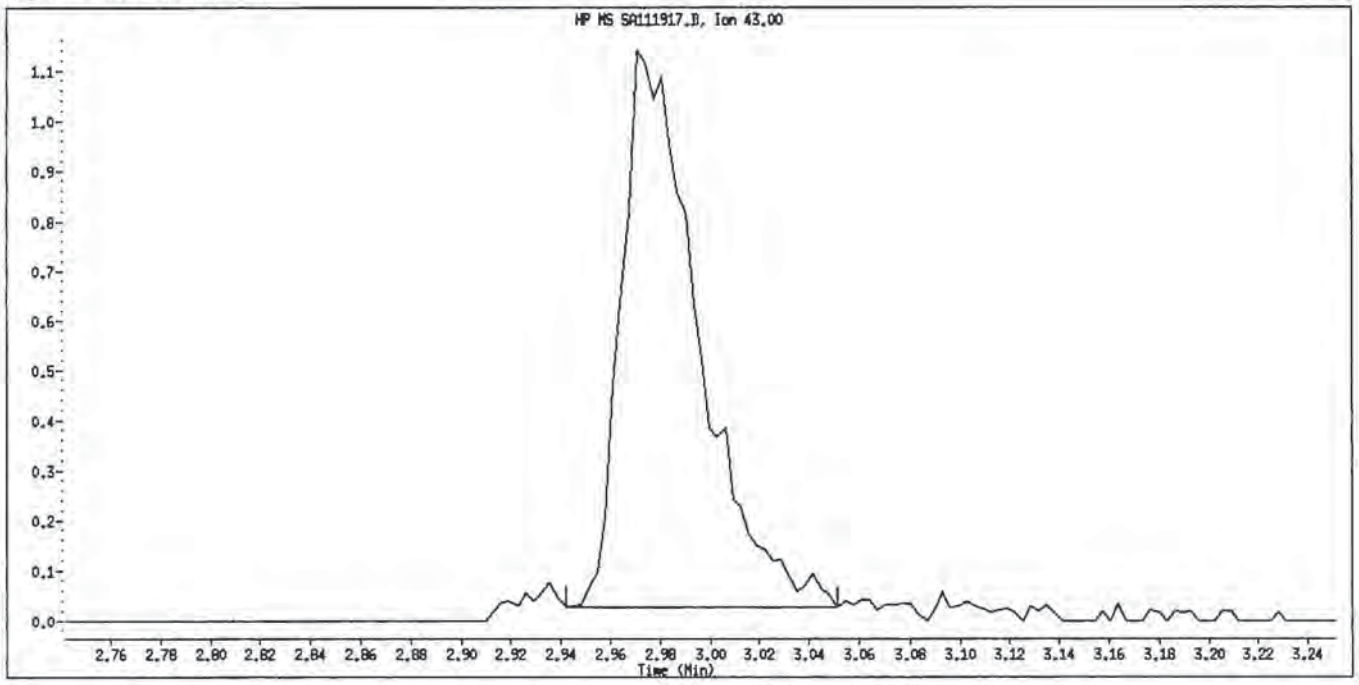
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	3.613	3.613	(0.642)	299116	275.740	239.774(R)
30 1,1-Dichloroethane (**)	63	4.025	4.022	(0.715)	240380	41.1043	35.7429
31 Vinyl acetate	43	4.080	4.080	(0.725)	12937	2.86054	2.48743(R)
33 2,2-Dichloropropane	77	4.536	4.539	(0.806)	137928	45.1165	39.2317
35 cis 1,2-Dichloroethene	96	4.543	4.536	(0.807)	142897	38.0149	33.0564
38 2-Butanone	43	4.559	4.556	(0.810)	29068	25.3841	22.0731
40 Bromochloromethane	128	4.748	4.745	(0.844)	65037	35.8659	31.1877
41 Chloroform (*)	83	4.819	4.819	(0.857)	217584	38.8522	33.7845
42 1,1,1-Trichloroethane	97	4.977	4.973	(0.885)	188323	41.5117	36.0971
43 Carbon Tetrachloride	117	5.121	5.121	(0.910)	165832	39.6692	34.4949
44 1,1-Dichloropropene	75	5.121	5.121	(0.910)	126691	32.4401	28.2088
47 Benzene	78	5.301	5.298	(0.942)	468680	37.8099	32.8782
48 1,2-Dichloroethane	62	5.311	5.311	(0.944)	118943	33.4600	29.0957
49 Trichloroethene	95	5.851	5.851	(1.040)	93726	31.9648	27.7955
51 1,2-Dichloropropane(*)	63	6.047	6.047	(1.075)	103725	37.3693	32.4951
52 Dibromomethane	93	6.150	6.147	(1.093)	49291	31.3728	27.2807
53 1,4-Dioxane	88	6.170	6.163	(1.097)	18647	826.308	718.529
54 Bromodichloromethane	83	6.285	6.282	(1.117)	122542	35.6768	31.0233
55 2-Chloroethyl vinyl ether	63	6.543	6.546	(1.163)	19120	28.0641	24.4036
56 cis-1,3-Dichloropropene (xtr)	75	6.674	6.674	(1.186)	97691	28.4022	24.6975
57 4-Methyl-2-pentanone	43	6.813	6.809	(1.211)	64735	26.3056	22.8745
58 Toluene (*)	92	6.973	6.973	(1.239)	248876	37.1183	32.2768
60 trans-1,3-Dichloropropene(xt)	75	7.163	7.163	(1.273)	68492	28.0599	24.3999
61 1,1,2-Trichloroethane	97	7.330	7.327	(1.303)	64508	33.3290	28.9818
62 Tetrachloroethene	166	7.465	7.465	(0.908)	95354	32.3361	28.1184
63 1,3-Dichloropropane	76	7.481	7.481	(0.910)	101855	33.3236	28.9770
64 2-Hexanone	43	7.555	7.552	(0.919)	26953	24.6643	21.4472
65 Dibromochloromethane	129	7.687	7.687	(0.935)	77330	35.2075	30.6152
66 1,2-Dibromoethane	107	7.797	7.797	(0.948)	51839	29.7031	25.8288
67 1-Chlorohexane	91	8.221	8.221	(1.000)	78696	26.6441	23.1688
68 Chlorobenzene (**)	112	8.247	8.247	(1.003)	228678	32.4809	28.2442
69 Ethylbenzene (*)	106	8.346	8.346	(1.015)	135856	34.7978	30.2589
70 1,1,1,2-Tetrachloroethane	131	8.321	8.321	(1.012)	110086	37.9541	33.0036
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	333701	68.6110	59.6617
72 Xylene (o)	106	8.829	8.829	(1.074)	174819	35.1500	30.5652
73 Styrene	104	8.842	8.842	(1.075)	231029	31.1034	27.0464
74 Bromoform (**)	173	9.018	9.018	(1.097)	43442	30.4493	26.4777
75 Isopropylbenzene	105	9.179	9.182	(1.117)	396157	31.9005	27.7396
77 Bromobenzene	156	9.475	9.472	(0.907)	87669	40.4574	35.1803
78 1,1,2,2-Tetrachloroethane(**)	83	9.462	9.459	(0.906)	85102	44.4826	38.6805
79 N-Propylbenzene	91	9.575	9.575	(0.916)	433835	41.1320	35.7670
80 1,2,3-Trichloropropane	110	9.504	9.507	(0.910)	26537	45.1502	39.2610
81 2-Chlorotoluene	91	9.658	9.661	(0.924)	269450	43.1679	37.5373
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	305411	38.3896	33.3823
83 4-Chlorotoluene	91	9.764	9.764	(0.934)	263772	38.1788	33.1989
84 T-Butylbenzene	119	10.063	10.063	(0.963)	245434	31.4556	27.3527
85 1,2,4-Trimethylbenzene	105	10.108	10.108	(0.967)	305613	38.2847	33.2910
86 Sec-Butylbenzene	105	10.279	10.279	(0.984)	355055	32.1530	27.9591
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	148863	31.4473	27.3455
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	291502	30.5117	26.5319
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	144238	30.0148	26.0998
90 N-Butylbenzene	91	10.822	10.822	(1.036)	214439	25.6205	22.2787(R)
91 1,2-Dichlorobenzene	146	10.838	10.835	(1.037)	149029	31.9735	27.8030
92 1,2-Dibromo-3-chloropropane	75	11.607	11.610	(1.111)	10969	33.9489	29.5208

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	49534	16.0380	13.9460(R)
	94 Hexachlorobutadiene	225	12.603	12.603	(1.206)	31911	15.5488	13.5207(R)
	95 Naphthalene	128	12.677	12.677	(1.213)	112776	13.8140	12.0122(R)
	96 1,2,3-Trichlorobenzene	180	12.919	12.919	(1.236)	47045	16.1179	14.0156(R)
M	97 1,2-Dichloroethene (Total)	96				278250	76.0707	66.1484
M	98 Xylenes (Total)	106				508520	103.761	90.2270

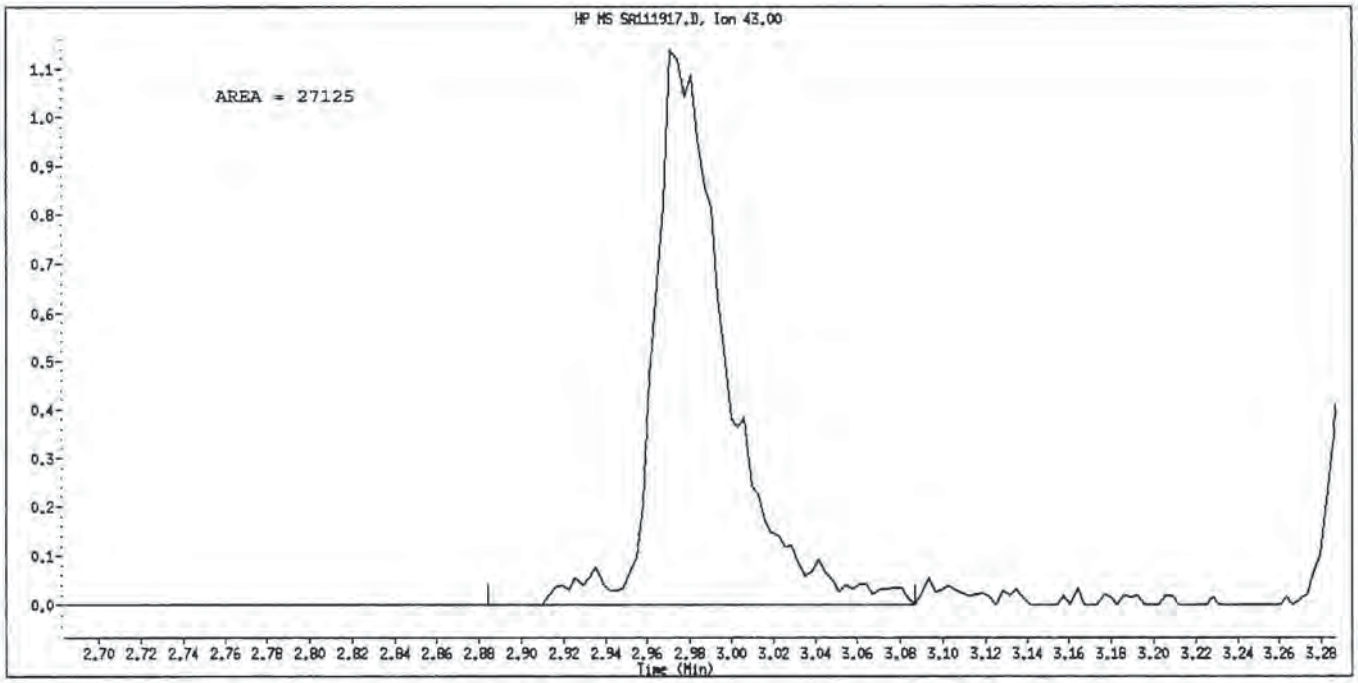
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File Name: SA111917.D
Inj. Date and Time: 21-NOV-2010 07:14
Instrument ID: HP11.i
Client ID:
Compound Name: Acetone
CAS #: 67-64-1
Report Date: 11/21/2010



Original Integration



Manual Integration

Manually Integrated By: beldenl
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111917.D
Lab Smp Id: MAC5T1AD G0K100425-
Inj Date : 21-NOV-2010 07:14
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AD G0K100425-8S;CG;3;MS;;;5.75
Misc Info : 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 24 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

d153

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	495544	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	377009	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	170130	50.0000	
$ 4 Dibromofluoromethane	111	4.957	4.954	(0.881)	316496	98.0910	98.0910
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	249753	87.8588	87.8588
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1007147	107.727	107.727
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	286858	82.8819	82.8819(R)
8 Dichlorodifluoromethane	85	1.401	1.398	(0.249)	125043	31.6278	31.6278(R)
9 Chloromethane (**)	50	1.559	1.556	(0.277)	180272	41.8655	41.8654(R)
10 Vinyl Chloride (*)	62	1.678	1.675	(0.298)	176300	43.8439	43.8439(R)
11 Bromomethane	94	2.015	2.015	(0.358)	89726	43.2500	43.2500
12 Chloroethane	64	2.125	2.125	(0.378)	112898	46.0907	46.0907
13 Trichlorofluoromethane	101	2.401	2.398	(0.427)	205734	39.7508	39.7508
15 Trichlorotrifluoroethane	101	2.938	2.935	(0.522)	115821	34.6061	34.6061(R)
17 1,1-Dichloroethene(*)	96	2.912	2.909	(0.518)	115089	37.6583	37.6583(R)
18 Acetone	43	2.970	2.974	(0.528)	23940	29.9378	29.9378
21 Carbon disulfide	76	3.109	3.109	(0.553)	368987	35.0975	35.0975(R)
22 Methylene Chloride	84	3.382	3.382	(0.601)	148667	39.5049	39.5049(R)
23 t-Butanol	59	3.511	3.507	(0.624)	159322	712.839	712.838(R)
25 Methyl-t-butyl-ether	73	3.646	3.642	(0.648)	292912	36.1086	36.1086(R)
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	135353	38.0558	38.0558(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	3.613	3.613	(0.642)	299116	275.740	275.740(R)
30 1,1-Dichloroethane (**)	63	4.025	4.022	(0.715)	240380	41.1043	41.1043(R)
31 Vinyl acetate	43	4.080	4.080	(0.725)	12937	2.86054	2.86054(R)
33 2,2-Dichloropropane	77	4.536	4.539	(0.806)	137928	45.1165	45.1165(R)
35 cis 1,2-Dichloroethene	96	4.543	4.536	(0.807)	142897	38.0149	38.0149(R)
38 2-Butanone	43	4.559	4.556	(0.810)	29068	25.3841	25.3840(R)
40 Bromochloromethane	128	4.748	4.745	(0.844)	65037	35.8659	35.8659(R)
41 Chloroform (*)	83	4.819	4.819	(0.857)	217584	38.8522	38.8522(R)
42 1,1,1-Trichloroethane	97	4.977	4.973	(0.885)	188323	41.5117	41.5117(R)
43 Carbon Tetrachloride	117	5.121	5.121	(0.910)	165832	39.6692	39.6692(R)
44 1,1-Dichloropropene	75	5.121	5.121	(0.910)	126691	32.4401	32.4401(R)
47 Benzene	78	5.301	5.298	(0.942)	468680	37.8099	37.8099(R)
48 1,2-Dichloroethane	62	5.311	5.311	(0.944)	118943	33.4600	33.4600(R)
49 Trichloroethene	95	5.851	5.851	(1.040)	93726	31.9648	31.9648(R)
51 1,2-Dichloropropane(*)	63	6.047	6.047	(1.075)	103725	37.3693	37.3693(R)
52 Dibromomethane	93	6.150	6.147	(1.093)	49291	31.3728	31.3728(R)
53 1,4-Dioxane	88	6.170	6.163	(1.097)	18647	826.308	826.308(R)
54 Bromodichloromethane	83	6.285	6.282	(1.117)	122542	35.6768	35.6768(R)
55 2-Chloroethyl vinyl ether	63	6.543	6.546	(1.163)	19120	28.0641	28.0641
56 cis-1,3-Dichloropropene (xtr)	75	6.674	6.674	(1.186)	97691	28.4022	28.4022(R)
57 4-Methyl-2-pentanone	43	6.813	6.809	(1.211)	64735	26.3056	26.3056(R)
58 Toluene (*)	92	6.973	6.973	(1.239)	248876	37.1183	37.1183(R)
60 trans-1,3-Dichloropropene(xt)	75	7.163	7.163	(1.273)	68492	28.0599	28.0599(R)
61 1,1,2-Trichloroethane	97	7.330	7.327	(1.303)	64508	33.3290	33.3290(R)
62 Tetrachloroethene	166	7.465	7.465	(0.908)	95354	32.3361	32.3361(R)
63 1,3-Dichloropropane	76	7.481	7.481	(0.910)	101855	33.3236	33.3236(R)
64 2-Hexanone	43	7.555	7.552	(0.919)	26953	24.6643	24.6643(R)
65 Dibromochloromethane	129	7.687	7.687	(0.935)	77330	35.2075	35.2075(R)
66 1,2-Dibromoethane	107	7.797	7.797	(0.948)	51839	29.7031	29.7031(R)
67 1-Chlorohexane	91	8.221	8.221	(1.000)	78696	26.6441	26.6441(R)
68 Chlorobenzene (**)	112	8.247	8.247	(1.003)	228678	32.4809	32.4809(R)
69 Ethylbenzene (*)	106	8.346	8.346	(1.015)	135856	34.7978	34.7978(R)
70 1,1,1,2-Tetrachloroethane	131	8.321	8.321	(1.012)	110086	37.9541	37.9541(R)
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	333701	68.6110	68.6110(R)
72 Xylene (o)	106	8.829	8.829	(1.074)	174819	35.1500	35.1500(R)
73 Styrene	104	8.842	8.842	(1.075)	231029	31.1034	31.1034(R)
74 Bromoform (**)	173	9.018	9.018	(1.097)	43442	30.4493	30.4493(R)
75 Isopropylbenzene	105	9.179	9.182	(1.117)	396157	31.9005	31.9005(R)
77 Bromobenzene	156	9.475	9.472	(0.907)	87669	40.4574	40.4574(R)
78 1,1,2,2-Tetrachloroethane(**)	83	9.462	9.459	(0.906)	85102	44.4826	44.4826(R)
79 N-Propylbenzene	91	9.575	9.575	(0.916)	433835	41.1320	41.1320(R)
80 1,2,3-Trichloropropane	110	9.504	9.507	(0.910)	26537	45.1502	45.1502(R)
81 2-Chlorotoluene	91	9.658	9.661	(0.924)	269450	43.1679	43.1679(R)
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	305411	38.3896	38.3896(R)
83 4-Chlorotoluene	91	9.764	9.764	(0.934)	263772	38.1788	38.1788(R)
84 T-Butylbenzene	119	10.063	10.063	(0.963)	245434	31.4556	31.4556(R)
85 1,2,4-Trimethylbenzene	105	10.108	10.108	(0.967)	305613	38.2847	38.2847(R)
86 Sec-Butylbenzene	105	10.279	10.279	(0.984)	355055	32.1530	32.1530(R)
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	148863	31.4473	31.4473(R)
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	291502	30.5117	30.5117(R)
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	144238	30.0148	30.0148(R)
90 N-Butylbenzene	91	10.822	10.822	(1.036)	214439	25.6205	25.6205(R)
91 1,2-Dichlorobenzene	146	10.838	10.835	(1.037)	149029	31.9735	31.9735(R)
92 1,2-Dibromo-3-chloropropane	75	11.607	11.610	(1.111)	10969	33.9489	33.9489(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	49534	16.0380	16.0380(R)
	94 Hexachlorobutadiene	225	12.603	12.603	(1.206)	31911	15.5488	15.5488(R)
	95 Naphthalene	128	12.677	12.677	(1.213)	112776	13.8140	13.8140(R)
	96 1,2,3-Trichlorobenzene	180	12.919	12.919	(1.236)	47045	16.1179	16.1179(R)
M	97 1,2-Dichloroethene (Total)	96				278250	76.0707	76.0706
M	98 Xylenes (Total)	106				508520	103.761	103.761

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111917.D
Lab Smp Id: MAC5T1AD G0K100425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	495544	-27.39	
2 Chlorobenzene-d5	526668	263334	1053336	377009	-28.42	
3 1,4 Dichlorobenze	348511	174256	697022	170130	-51.18	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	-0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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:
Sample Matrix: SOLID
Lab Smp Id: MAC5T1AD G0K100425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQKD4.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
8 Dichlorodifluorome	34.7826	27.5024	79.07	35-135
9 Chloromethane (**)	34.7826	36.4047	104.66	50-130
10 Vinyl Chloride (*)	34.7826	38.1251	109.61	60-125
11 Bromomethane	34.7826	37.6087	108.13	30-160
12 Chloroethane	34.7826	40.0788	115.23	40-155
13 Trichlorofluoromet	34.7826	34.5659	99.38	25-185
15 Trichlorotrifluoro	34.7826	30.0923	86.52	62-138
17 1,1-Dichloroethene	34.7826	32.7463	94.15	65-135
18 Acetone	34.7826	29.4963	84.80	20-160
21 Carbon disulfide	34.7826	30.5196	87.74	45-160
22 Methylene Chloride	34.7826	34.3521	98.76	55-140
23 t-Butanol	869.565	619.860	71.28	46-181
27 Acrylonitrile	347.826	239.774	68.94*	75-148
26 trans-1,2-Dichloro	34.7826	33.0920	95.14	65-135
25 Methyl-t-butyl-eth	34.7826	31.3988	90.27	66-146
30 1,1-Dichloroethane	34.7826	35.7429	102.76	75-125
31 Vinyl acetate	34.7826	2.48743	7.15*	39-160
33 2,2-Dichloropropan	34.7826	39.2317	112.79	65-135
35 cis 1,2-Dichloroet	34.7826	33.0564	95.04	65-125
38 2-Butanone	34.7826	22.0731	63.46	30-160
40 Bromochloromethane	34.7826	31.1877	89.66	70-125
41 Chloroform (*)	34.7826	33.7845	97.13	70-125
42 1,1,1-Trichloroeth	34.7826	36.0971	103.78	70-135
43 Carbon Tetrachlori	34.7826	34.4949	99.17	65-135
44 1,1-Dichloropropen	34.7826	28.2088	81.10	70-135
47 Benzene	34.7826	32.8782	94.52	75-125
48 1,2-Dichloroethane	34.7826	29.0957	83.65	70-135
49 Trichloroethene	34.7826	27.7955	79.91	75-125
51 1,2-Dichloropropan	34.7826	32.4951	93.42	70-120
52 Dibromomethane	34.7826	27.2807	78.43	75-130
53 1,4-Dioxane	869.565	718.529	82.63	47-151
54 Bromodichlorometha	34.7826	31.0233	89.19	70-130
56 cis-1,3-Dichloropr	34.7826	24.6975	71.01	70-125
57 4-Methyl-2-pentano	34.7826	22.8745	65.76	45-145
58 Toluene (*)	34.7826	32.2768	92.80	70-125
60 trans-1,3-Dichloro	34.7826	24.3999	70.15	65-125
61 1,1,2-Trichloroeth	34.7826	28.9818	83.32	60-125
62 Tetrachloroethene	34.7826	28.1184	80.84	65-140
63 1,3-Dichloropropan	34.7826	28.9770	83.31	75-125
64 2-Hexanone	34.7826	21.4472	61.66	45-145

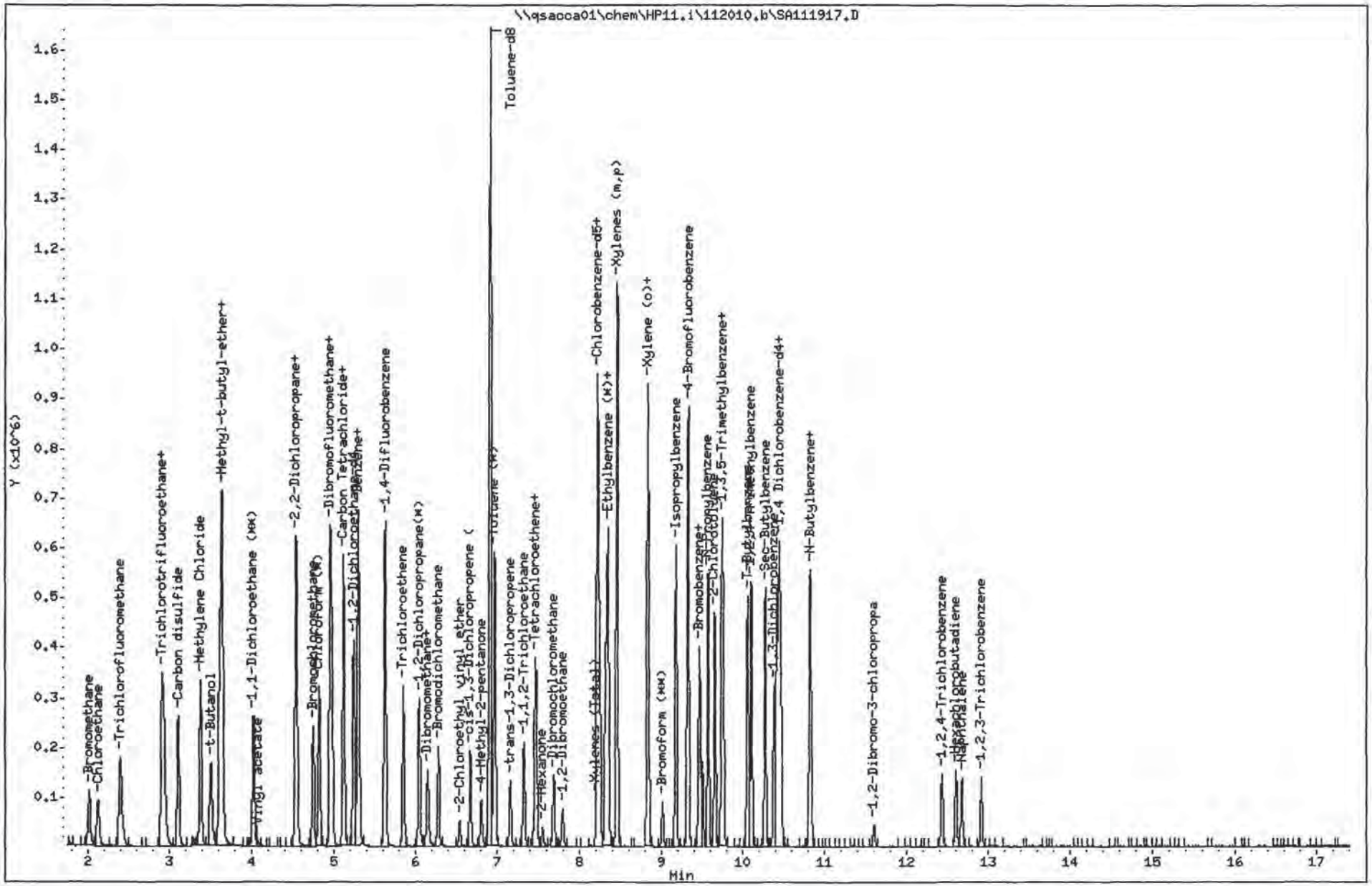
SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
65 Dibromochlorometha	34.7826	30.6152	88.02	65-130
66 1,2-Dibromoethane	34.7826	25.8288	74.26	70-125
68 Chlorobenzene (**)	34.7826	28.2442	81.20	75-125
67 1-Chlorohexane	34.7826	23.1688	66.61	55-145
70 1,1,1,2-Tetrachlor	34.7826	33.0036	94.89	77-134
69 Ethylbenzene (*)	34.7826	30.2589	86.99	75-125
71 Xylenes (m,p)	69.5652	59.6617	85.76	80-125
72 Xylene (o)	34.7826	30.5652	87.88	75-125
73 Styrene	34.7826	27.0464	77.76	75-125
74 Bromoform (**)	34.7826	26.4777	76.12	55-135
75 Isopropylbenzene	34.7826	27.7396	79.75	75-130
77 Bromobenzene	34.7826	35.1803	101.14	65-120
78 1,1,2,2-Tetrachlor	34.7826	38.6805	111.21	55-130
80 1,2,3-Trichloropro	34.7826	39.2610	112.88	60-135
79 N-Propylbenzene	34.7826	35.7670	102.83	65-135
81 2-Chlorotoluene	34.7826	37.5373	107.92	70-130
83 4-Chlorotoluene	34.7826	33.1989	95.45	75-125
82 1,3,5-Trimethylben	34.7826	33.3823	95.97	65-135
84 T-Butylbenzene	34.7826	27.3527	78.64	65-130
85 1,2,4-Trimethylben	34.7826	33.2910	95.71	65-130
86 Sec-Butylbenzene	34.7826	27.9591	80.38	65-130
87 1,3-Dichlorobenzen	34.7826	27.3455	78.62	75-125
88 P-Isopropyltoluene	34.7826	26.5319	76.28	64-137
89 1,4-Dichlorobenzen	34.7826	26.0998	75.04	70-125
91 1,2-Dichlorobenzen	34.7826	27.8030	79.93	75-120
90 N-Butylbenzene	34.7826	22.2787	64.05*	65-140
92 1,2-Dibromo-3-chlo	34.7826	29.5208	84.87	40-135
93 1,2,4-Trichloroben	34.7826	13.9460	40.09*	65-135
94 Hexachlorobutadien	34.7826	13.5207	38.87*	55-140
95 Naphthalene	34.7826	12.0122	34.54*	40-125
96 1,2,3-Trichloroben	34.7826	14.0156	40.29*	60-135

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	86.9565	85.2965	98.09	68-116
$ 5 1,2-Dichloroethane	86.9565	76.3989	87.86	59-130
$ 6 Toluene-d8	86.9565	93.6757	107.73	85-115
$ 7 4-Bromofluorobenze	86.9565	72.0712	82.88*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111917.D
Date : 21-NOV-2010 07:14
Client ID:
Sample Info: MAC5T1AD GOK100425-8S;CG;3;HS;;;5.75

Instrument: HP11.i
Operator: LB
Column diameter: 0.53

Column phase:



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111918.D
Lab Smp Id: MAC5T1AE G0K100425-
Inj Date : 21-NOV-2010 07:38
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AE G0K100425-8D;CG;3;MS;;;;6.33
Misc Info : 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.M
Meth Date : 21-Nov-2010 21:50 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.330	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	533932	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	404961	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	193933	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	327191	94.1149	74.3404
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	259483	84.7187	66.9184
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1048828	104.120	82.2430
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	314255	84.5305	66.7697(R)
8 Dichlorodifluoromethane	85	1.398	1.398	(0.249)	123805	29.0633	22.9568
9 Chloromethane (**)	50	1.556	1.556	(0.277)	172821	37.2495	29.4230
10 Vinyl Chloride (*)	62	1.675	1.675	(0.298)	170951	39.4570	31.1667
11 Bromomethane	94	2.016	2.015	(0.358)	85212	38.1211	30.1114
12 Chloroethane	64	2.125	2.125	(0.378)	106588	40.3861	31.9005
13 Trichlorofluoromethane	101	2.395	2.398	(0.426)	204941	36.7506	29.0289
15 Trichlorotrifluoroethane	101	2.938	2.935	(0.522)	119110	33.0301	26.0901
17 1,1-Dichloroethene(*)	96	2.913	2.909	(0.518)	110813	33.6522	26.5815
18 Acetone	43	2.977	2.974	(0.529)	26482	30.7357	24.2778(M)
21 Carbon disulfide	76	3.109	3.109	(0.553)	382252	33.7452	26.6550
22 Methylene Chloride	84	3.382	3.382	(0.601)	142907	35.2441	27.8390
23 t-Butanol	59	3.511	3.507	(0.624)	186857	775.927	612.897
25 Methyl-t-butyl-ether	73	3.646	3.642	(0.648)	319008	36.4982	28.8295
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	130587	34.0760	26.9163

LB 11/21/10

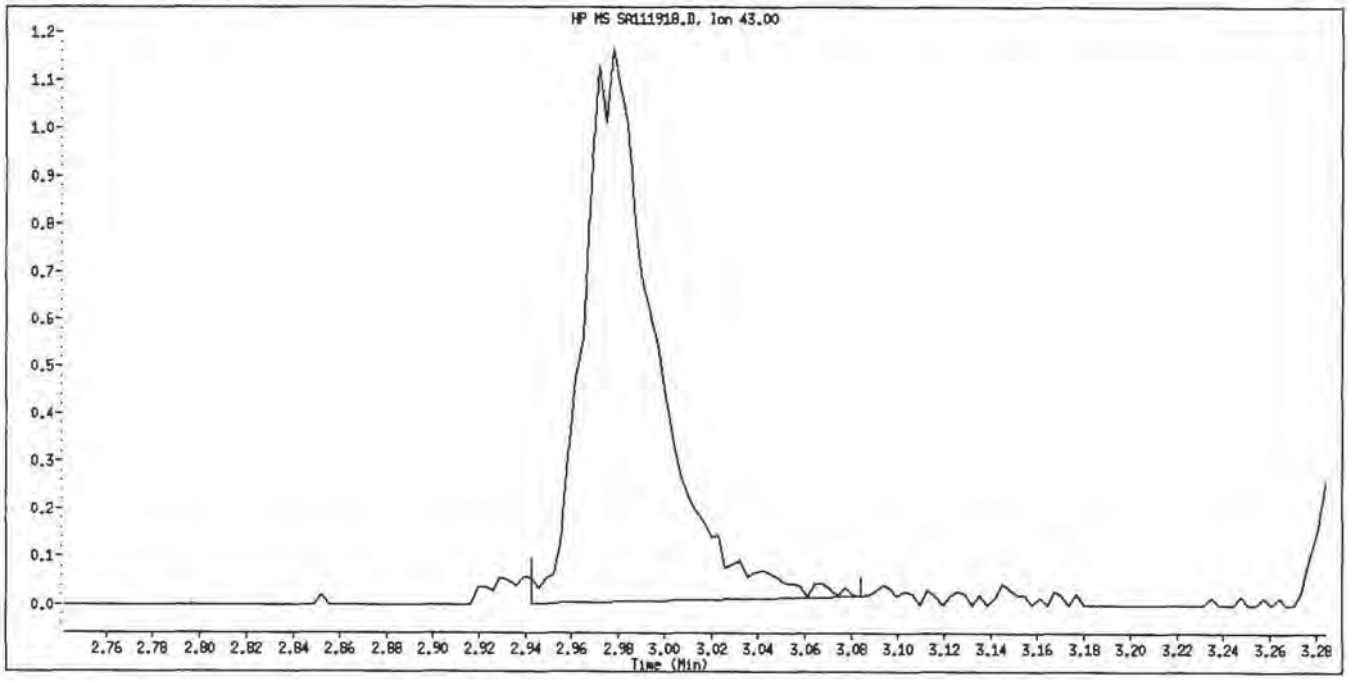
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	3.617	3.613	(0.643)	323177	276.501	218.405(R)
30 1,1-Dichloroethane (**)	63	4.025	4.022	(0.715)	232035	36.8247	29.0874
31 Vinyl acetate	43	4.083	4.080	(0.726)	16037	3.29105	2.59956(R)
33 2,2-Dichloropropane	77	4.540	4.539	(0.807)	133821	40.6260	32.0900
35 cis 1,2-Dichloroethene	96	4.540	4.536	(0.807)	139638	34.4771	27.2331
38 2-Butanone	43	4.556	4.556	(0.810)	29653	24.0332	18.9835
40 Bromochloromethane	128	4.745	4.745	(0.843)	65109	33.3241	26.3224
41 Chloroform (*)	83	4.819	4.819	(0.857)	214684	35.5782	28.1028
42 1,1,1-Trichloroethane	97	4.980	4.973	(0.885)	182846	37.4066	29.5471
43 Carbon Tetrachloride	117	5.122	5.121	(0.910)	159143	35.3320	27.9084
44 1,1-Dichloropropene	75	5.118	5.121	(0.910)	121964	28.9844	22.8945
47 Benzene	78	5.298	5.298	(0.942)	458052	34.2957	27.0898
48 1,2-Dichloroethane	62	5.311	5.311	(0.944)	118723	30.9969	24.4841
49 Trichloroethene	95	5.852	5.851	(1.040)	91531	28.9718	22.8846(R)
51 1,2-Dichloropropane(*)	63	6.048	6.047	(1.075)	100877	33.7303	26.6432
52 Dibromomethane	93	6.147	6.147	(1.093)	50110	29.6010	23.3815(R)
53 1,4-Dioxane	88	6.170	6.163	(1.097)	21023	864.617	682.952
54 Bromodichloromethane	83	6.282	6.282	(1.117)	123495	33.3693	26.3580
55 2-Chloroethyl vinyl ether	63	6.543	6.546	(1.163)	18927	26.1972	20.6929
56 cis-1,3-Dichloropropene (xtr)	75	6.678	6.674	(1.187)	97570	26.5295	20.9554(R)
57 4-Methyl-2-pentanone	43	6.810	6.809	(1.210)	65401	24.6605	19.4791
58 Toluene (*)	92	6.974	6.973	(1.239)	237705	32.9033	25.9900
60 trans-1,3-Dichloropropene(xt)	75	7.167	7.163	(1.274)	68107	26.0991	20.6154
61 1,1,2-Trichloroethane	97	7.331	7.327	(1.303)	64507	30.9323	24.4331
62 Tetrachloroethene	166	7.462	7.465	(0.908)	91853	28.9989	22.9059
63 1,3-Dichloropropane	76	7.482	7.481	(0.910)	102110	31.1012	24.5665
64 2-Hexanone	43	7.552	7.552	(0.919)	28230	24.0497	18.9966
65 Dibromochloromethane	129	7.687	7.687	(0.935)	77185	32.7159	25.8419
66 1,2-Dibromoethane	107	7.800	7.797	(0.949)	53217	28.3879	22.4233
67 1-Chlorohexane	91	8.221	8.221	(1.000)	83499	26.3189	20.7890
68 Chlorobenzene (**)	112	8.250	8.247	(1.004)	225595	29.8313	23.5634(R)
69 Ethylbenzene (*)	106	8.347	8.346	(1.015)	131740	31.4144	24.8139
70 1,1,1,2-Tetrachloroethane	131	8.324	8.321	(1.013)	108306	34.7631	27.4590
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	328998	62.9750	49.7433(R)
72 Xylene (o)	106	8.832	8.829	(1.074)	171480	32.0988	25.3545
73 Styrene	104	8.842	8.842	(1.075)	228164	28.5974	22.5888(R)
74 Bromoform (**)	173	9.019	9.018	(1.097)	45059	29.4028	23.2249
75 Isopropylbenzene	105	9.179	9.182	(1.117)	402338	30.1620	23.8246
77 Bromobenzene	156	9.475	9.472	(0.907)	89116	36.0775	28.4972
78 1,1,2,2-Tetrachloroethane(**)	83	9.459	9.459	(0.905)	87645	40.1889	31.7448
79 N-Propylbenzene	91	9.575	9.575	(0.916)	450652	37.4823	29.6069
80 1,2,3-Trichloropropane	110	9.511	9.507	(0.910)	26575	39.6652	31.3311
81 2-Chlorotoluene	91	9.658	9.661	(0.924)	270915	38.0755	30.0754
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	317561	35.0175	27.6600
83 4-Chlorotoluene	91	9.761	9.764	(0.934)	270273	34.3183	27.1076
84 T-Butylbenzene	119	10.064	10.063	(0.963)	264496	29.8637	23.5890
85 1,2,4-Trimethylbenzene	105	10.112	10.108	(0.968)	314150	34.5239	27.2700
86 Sec-Butylbenzene	105	10.276	10.279	(0.983)	390180	30.9970	24.4842
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	155545	28.8258	22.7692(R)
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	314869	28.9124	22.8376
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	150980	27.5616	21.7706(R)
90 N-Butylbenzene	91	10.819	10.822	(1.035)	249095	26.1083	20.6227
91 1,2-Dichlorobenzene	146	10.838	10.835	(1.037)	158277	29.7897	23.5306(R)
92 1,2-Dibromo-3-chloropropane	75	11.604	11.610	(1.110)	12083	32.8067	25.9137

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
93	1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	58972	16.7502	13.2308(R)
94	Hexachlorobutadiene	225	12.604	12.603	(1.206)	39690	16.9655	13.4009(R)
95	Naphthalene	128	12.678	12.677	(1.213)	132458	14.2381	11.2465(R)
96	1,2,3-Trichlorobenzene	180	12.916	12.919	(1.236)	56478	16.9748	13.4082(R)
M 97	1,2-Dichloroethene (Total)	96				270225	68.5531	54.1494
M 98	Xylenes (Total)	106				500478	95.0738	75.0978

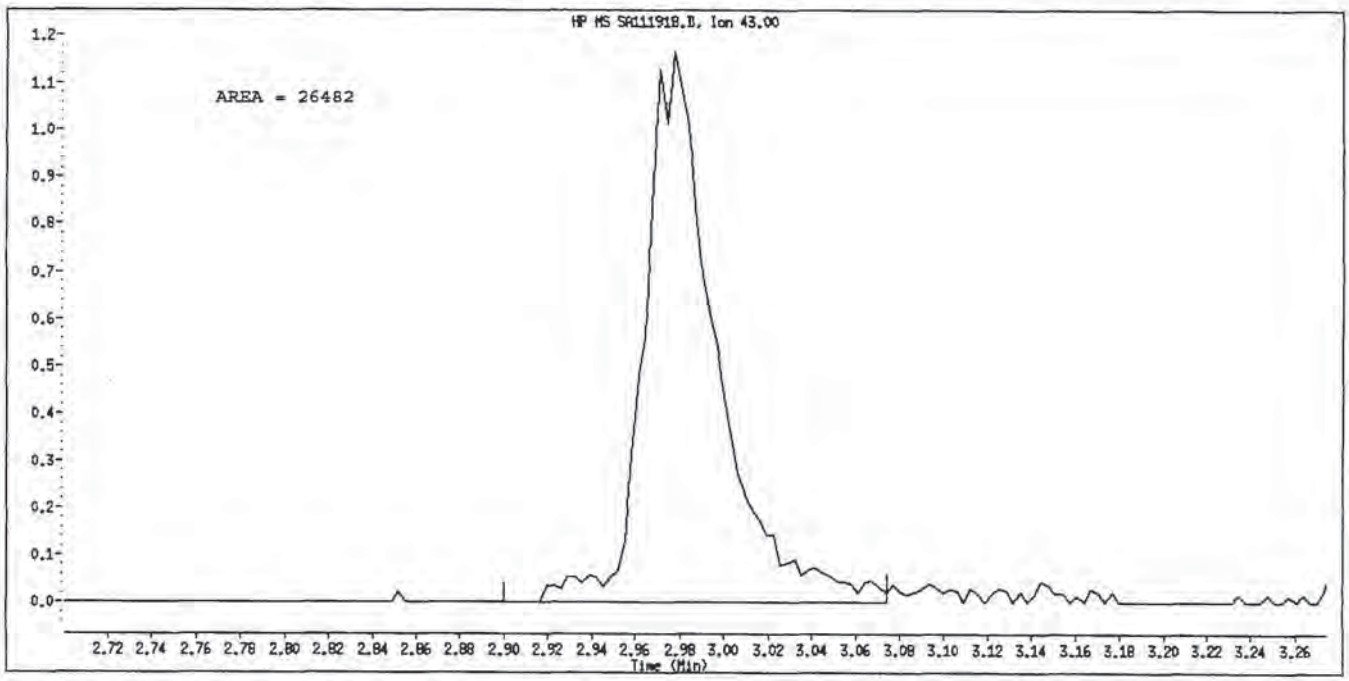
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File Name: SR111918.D
Inj. Date and Time: 21-NOV-2010 07:38
Instrument ID: HP11.i
Client ID:
Compound Name: Acetone
CAS #: 67-64-1
Report Date: 11/21/2010



Original Integration



Manual Integration

Manually Integrated By: beldenl
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111918.D
Lab Smp Id: MAC5T1AE G0K100425-
Inj Date : 21-NOV-2010 07:38
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AE G0K100425-8D;CG;3;MS;;;6.33
Misc Info : 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.000	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	533932	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	404961	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	193933	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	327191	94.1149	94.1149
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	259483	84.7187	84.7187
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	1048828	104.120	104.120
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	314255	84.5305	84.5305(R)
8 Dichlorodifluoromethane	85	1.398	1.398	(0.249)	123805	29.0633	29.0632(R)
9 Chloromethane (**)	50	1.556	1.556	(0.277)	172821	37.2495	37.2495(R)
10 Vinyl Chloride (*)	62	1.675	1.675	(0.298)	170951	39.4570	39.4570(R)
11 Bromomethane	94	2.016	2.015	(0.358)	85212	38.1211	38.1211
12 Chloroethane	64	2.125	2.125	(0.378)	106588	40.3861	40.3861
13 Trichlorofluoromethane	101	2.395	2.398	(0.426)	204941	36.7506	36.7506
15 Trichlorotrifluoroethane	101	2.938	2.935	(0.522)	119110	33.0301	33.0301(R)
17 1,1-Dichloroethene(*)	96	2.913	2.909	(0.518)	110813	33.6522	33.6522(R)
18 Acetone	43	2.977	2.974	(0.529)	25168	29.2106	29.2106
21 Carbon disulfide	76	3.109	3.109	(0.553)	382252	33.7452	33.7452(R)
22 Methylene Chloride	84	3.382	3.382	(0.601)	142907	35.2441	35.2441(R)
23 t-Butanol	59	3.511	3.507	(0.624)	186857	775.927	775.927(R)
25 Methyl-t-butyl-ether	73	3.646	3.642	(0.648)	319008	36.4982	36.4982(R)
26 trans-1,2-Dichloroethene	96	3.639	3.639	(0.647)	130587	34.0760	34.0760(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	3.617	3.613	(0.643)	323177	276.501	276.501(R)
30 1,1-Dichloroethane (**)	63	4.025	4.022	(0.715)	232035	36.8247	36.8247(R)
31 Vinyl acetate	43	4.083	4.080	(0.726)	16037	3.29105	3.29105(R)
33 2,2-Dichloropropane	77	4.540	4.539	(0.807)	133821	40.6260	40.6260(R)
35 cis 1,2-Dichloroethene	96	4.540	4.536	(0.807)	139638	34.4771	34.4771(R)
38 2-Butanone	43	4.556	4.556	(0.810)	29653	24.0332	24.0332(R)
40 Bromochloromethane	128	4.745	4.745	(0.843)	65109	33.3241	33.3241(R)
41 Chloroform (*)	83	4.819	4.819	(0.857)	214684	35.5782	35.5782(R)
42 1,1,1-Trichloroethane	97	4.980	4.973	(0.885)	182846	37.4066	37.4066(R)
43 Carbon Tetrachloride	117	5.122	5.121	(0.910)	159143	35.3320	35.3320(R)
44 1,1-Dichloropropene	75	5.118	5.121	(0.910)	121964	28.9844	28.9844(R)
47 Benzene	78	5.298	5.298	(0.942)	458052	34.2957	34.2957(R)
48 1,2-Dichloroethane	62	5.311	5.311	(0.944)	118723	30.9969	30.9969(R)
49 Trichloroethene	95	5.852	5.851	(1.040)	91531	28.9718	28.9718(R)
51 1,2-Dichloropropane(*)	63	6.048	6.047	(1.075)	100877	33.7303	33.7303(R)
52 Dibromomethane	93	6.147	6.147	(1.093)	50110	29.6010	29.6010(R)
53 1,4-Dioxane	88	6.170	6.163	(1.097)	21023	864.617	864.617(R)
54 Bromodichloromethane	83	6.282	6.282	(1.117)	123495	33.3693	33.3693(R)
55 2-Chloroethyl vinyl ether	63	6.543	6.546	(1.163)	18927	26.1972	26.1972
56 cis-1,3-Dichloropropene (xtr)	75	6.678	6.674	(1.187)	97570	26.5295	26.5295(R)
57 4-Methyl-2-pentanone	43	6.810	6.809	(1.210)	65401	24.6605	24.6605(R)
58 Toluene (*)	92	6.974	6.973	(1.239)	237705	32.9033	32.9033(R)
60 trans-1,3-Dichloropropene(xt)	75	7.167	7.163	(1.274)	68107	26.0991	26.0991(R)
61 1,1,2-Trichloroethane	97	7.331	7.327	(1.303)	64507	30.9323	30.9323(R)
62 Tetrachloroethene	166	7.462	7.465	(0.908)	91853	28.9989	28.9989(R)
63 1,3-Dichloropropane	76	7.482	7.481	(0.910)	102110	31.1012	31.1012(R)
64 2-Hexanone	43	7.552	7.552	(0.919)	28230	24.0497	24.0497(R)
65 Dibromochloromethane	129	7.687	7.687	(0.935)	77185	32.7159	32.7159(R)
66 1,2-Dibromoethane	107	7.800	7.797	(0.949)	53217	28.3879	28.3879(R)
67 1-Chlorohexane	91	8.221	8.221	(1.000)	83499	26.3189	26.3189(R)
68 Chlorobenzene (**)	112	8.250	8.247	(1.004)	225595	29.8313	29.8312(R)
69 Ethylbenzene (*)	106	8.347	8.346	(1.015)	131740	31.4144	31.4144(R)
70 1,1,1,2-Tetrachloroethane	131	8.324	8.321	(1.013)	108306	34.7631	34.7631(R)
71 Xylenes (m,p)	106	8.456	8.456	(1.029)	328998	62.9750	62.9750(R)
72 Xylene (o)	106	8.832	8.829	(1.074)	171480	32.0988	32.0988(R)
73 Styrene	104	8.842	8.842	(1.075)	228164	28.5974	28.5974(R)
74 Bromoform (**)	173	9.019	9.018	(1.097)	45059	29.4028	29.4028(R)
75 Isopropylbenzene	105	9.179	9.182	(1.117)	402338	30.1620	30.1620(R)
77 Bromobenzene	156	9.475	9.472	(0.907)	89116	36.0775	36.0775(R)
78 1,1,2,2-Tetrachloroethane(**)	83	9.459	9.459	(0.905)	87645	40.1889	40.1889(R)
79 N-Propylbenzene	91	9.575	9.575	(0.916)	450652	37.4823	37.4823(R)
80 1,2,3-Trichloropropane	110	9.511	9.507	(0.910)	26575	39.6652	39.6652(R)
81 2-Chlorotoluene	91	9.658	9.661	(0.924)	270915	38.0755	38.0755(R)
82 1,3,5-Trimethylbenzene	105	9.745	9.745	(0.933)	317561	35.0175	35.0175(R)
83 4-Chlorotoluene	91	9.761	9.764	(0.934)	270273	34.3183	34.3182(R)
84 T-Butylbenzene	119	10.064	10.063	(0.963)	264496	29.8637	29.8637(R)
85 1,2,4-Trimethylbenzene	105	10.112	10.108	(0.968)	314150	34.5239	34.5238(R)
86 Sec-Butylbenzene	105	10.276	10.279	(0.983)	390180	30.9970	30.9970(R)
87 1,3-Dichlorobenzene	146	10.385	10.385	(0.994)	155545	28.8258	28.8258(R)
88 P-Isopropyltoluene	119	10.417	10.417	(0.997)	314869	28.9124	28.9124(R)
89 1,4-Dichlorobenzene	146	10.472	10.472	(1.002)	150980	27.5616	27.5616(R)
90 N-Butylbenzene	91	10.819	10.822	(1.035)	249095	26.1083	26.1083(R)
91 1,2-Dichlorobenzene	146	10.838	10.835	(1.037)	158277	29.7897	29.7897(R)
92 1,2-Dibromo-3-chloropropane	75	11.604	11.610	(1.110)	12083	32.8067	32.8067(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	CONCENTRATIONS FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	12.430	12.430	(1.190)	58972	16.7502	16.7502(R)
	94 Hexachlorobutadiene	225	12.604	12.603	(1.206)	39690	16.9655	16.9655(R)
	95 Naphthalene	128	12.678	12.677	(1.213)	132458	14.2381	14.2381(R)
	96 1,2,3-Trichlorobenzene	180	12.916	12.919	(1.236)	56478	16.9748	16.9748(R)
M	97 1,2-Dichloroethene (Total)	96				270225	68.5531	68.5531
M	98 Xylenes (Total)	106				500478	95.0738	95.0738

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111918.D
Lab Smp Id: MAC5T1AE G0K100425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	682444	341222	1364888	533932	-21.76
2 Chlorobenzene-d5	526668	263334	1053336	404961	-23.11
3 1,4 Dichlorobenze	348511	174256	697022	193933	-44.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5T1AE G0K100425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: MS
SpikeList File: A4DQKD4.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;A4DQKD4.sub;A4DQKD4.spk;1;;5

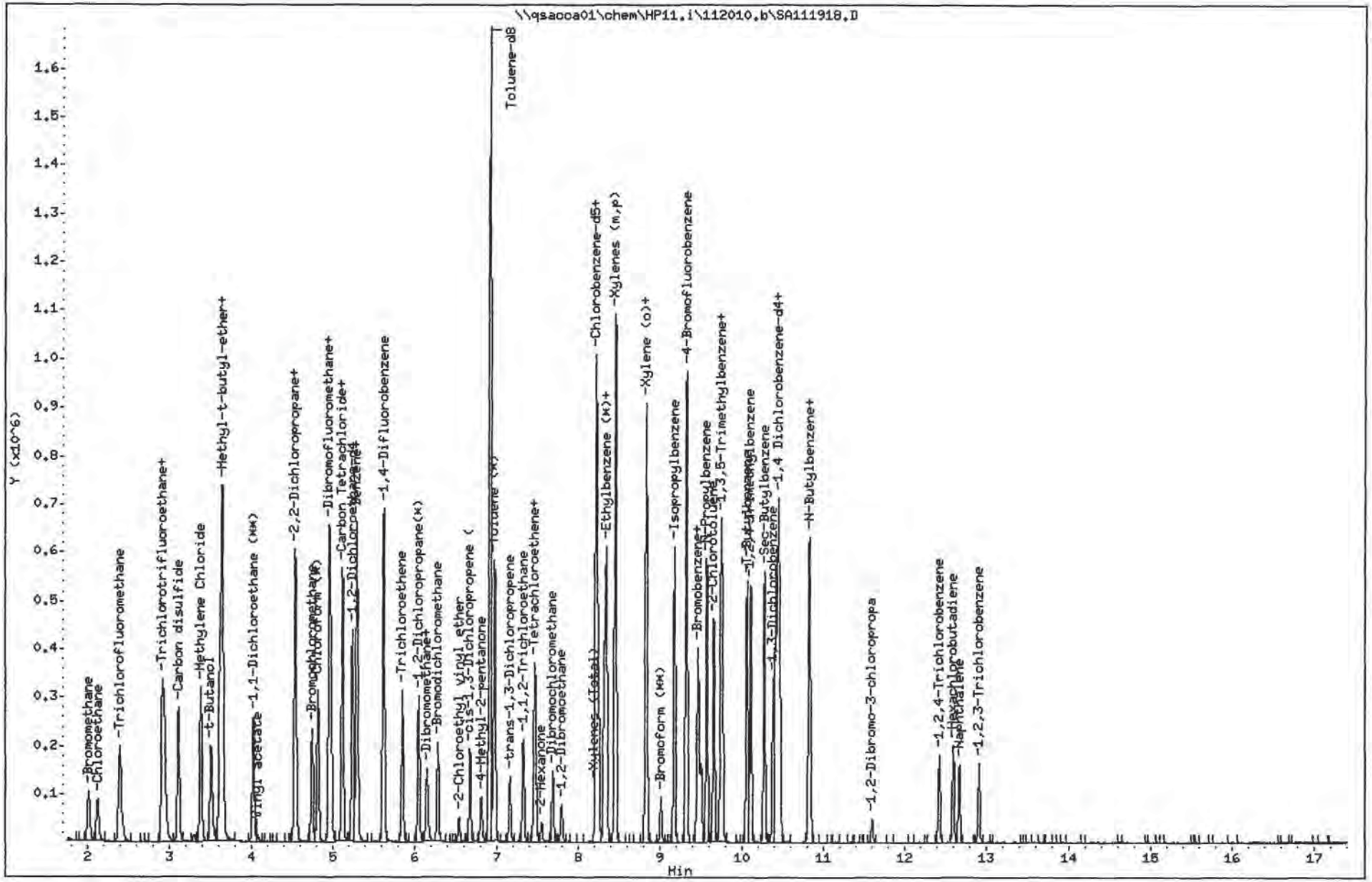
SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
8 Dichlorodifluorome	31.5956	22.9568	72.66	35-135
9 Chloromethane (**)	31.5956	29.4230	93.12	50-130
10 Vinyl Chloride (*)	31.5956	31.1667	98.64	60-125
11 Bromomethane	31.5956	30.1114	95.30	30-160
12 Chloroethane	31.5956	31.9005	100.97	40-155
13 Trichlorofluoromet	31.5956	29.0289	91.88	25-185
15 Trichlorotrifluoro	31.5956	26.0901	82.58	62-138
17 1,1-Dichloroethene	31.5956	26.5815	84.13	65-135
18 Acetone	31.5956	24.2778	76.84	20-160
21 Carbon disulfide	31.5956	26.6550	84.36	45-160
22 Methylene Chloride	31.5956	27.8390	88.11	55-140
23 t-Butanol	789.889	612.897	77.59	46-181
27 Acrylonitrile	315.956	218.405	69.13*	75-148
26 trans-1,2-Dichloro	31.5956	26.9163	85.19	65-135
25 Methyl-t-butyl-eth	31.5956	28.8295	91.25	66-146
30 1,1-Dichloroethane	31.5956	29.0874	92.06	75-125
31 Vinyl acetate	31.5956	2.59956	8.23*	39-160
33 2,2-Dichloropropan	31.5956	32.0900	101.56	65-135
35 cis 1,2-Dichloroet	31.5956	27.2331	86.19	65-125
38 2-Butanone	31.5956	18.9835	60.08	30-160
40 Bromochloromethane	31.5956	26.3224	83.31	70-125
41 Chloroform (*)	31.5956	28.1028	88.95	70-125
42 1,1,1-Trichloroeth	31.5956	29.5471	93.52	70-135
43 Carbon Tetrachlori	31.5956	27.9084	88.33	65-135
44 1,1-Dichloropropen	31.5956	22.8945	72.46	70-135
47 Benzene	31.5956	27.0898	85.74	75-125
48 1,2-Dichloroethane	31.5956	24.4841	77.49	70-135
49 Trichloroethene	31.5956	22.8846	72.43*	75-125
51 1,2-Dichloropropan	31.5956	26.6432	84.33	70-120
52 Dibromomethane	31.5956	23.3815	74.00*	75-130
53 1,4-Dioxane	789.889	682.952	86.46	47-151
54 Bromodichlorometha	31.5956	26.3580	83.42	70-130
56 cis-1,3-Dichloropr	31.5956	20.9554	66.32*	70-125
57 4-Methyl-2-pentano	31.5956	19.4791	61.65	45-145
58 Toluene (*)	31.5956	25.9900	82.26	70-125
60 trans-1,3-Dichloro	31.5956	20.6154	65.25	65-125
61 1,1,2-Trichloroeth	31.5956	24.4331	77.33	60-125
62 Tetrachloroethene	31.5956	22.9059	72.50	65-140
63 1,3-Dichloropropan	31.5956	24.5665	77.75	75-125
64 2-Hexanone	31.5956	18.9966	60.12	45-145

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
65 Dibromochlorometha	31.5956	25.8419	81.79	65-130
66 1,2-Dibromoethane	31.5956	22.4233	70.97	70-125
68 Chlorobenzene (**)	31.5956	23.5634	74.58*	75-125
67 1-Chlorohexane	31.5956	20.7890	65.80	55-145
70 1,1,1,2-Tetrachlor	31.5956	27.4590	86.91	77-134
69 Ethylbenzene (*)	31.5956	24.8139	78.54	75-125
71 Xylenes (m,p)	63.1912	49.7433	78.72*	80-125
72 Xylene (o)	31.5956	25.3545	80.25	75-125
73 Styrene	31.5956	22.5888	71.49*	75-125
74 Bromoform (**)	31.5956	23.2249	73.51	55-135
75 Isopropylbenzene	31.5956	23.8246	75.41	75-130
77 Bromobenzene	31.5956	28.4972	90.19	65-120
78 1,1,2,2-Tetrachlor	31.5956	31.7448	100.47	55-130
80 1,2,3-Trichloropro	31.5956	31.3311	99.16	60-135
79 N-Propylbenzene	31.5956	29.6069	93.71	65-135
81 2-Chlorotoluene	31.5956	30.0754	95.19	70-130
83 4-Chlorotoluene	31.5956	27.1076	85.80	75-125
82 1,3,5-Trimethylben	31.5956	27.6600	87.54	65-135
84 T-Butylbenzene	31.5956	23.5890	74.66	65-130
85 1,2,4-Trimethylben	31.5956	27.2700	86.31	65-130
86 Sec-Butylbenzene	31.5956	24.4842	77.49	65-130
87 1,3-Dichlorobenzen	31.5956	22.7692	72.06*	75-125
88 P-Isopropyltoluene	31.5956	22.8376	72.28	64-137
89 1,4-Dichlorobenzen	31.5956	21.7706	68.90*	70-125
91 1,2-Dichlorobenzen	31.5956	23.5306	74.47*	75-120
90 N-Butylbenzene	31.5956	20.6227	65.27	65-140
92 1,2-Dibromo-3-chlo	31.5956	25.9137	82.02	40-135
93 1,2,4-Trichloroben	31.5956	13.2308	41.88*	65-135
94 Hexachlorobutadien	31.5956	13.4009	42.41*	55-140
95 Naphthalene	31.5956	11.2465	35.60*	40-125
96 1,2,3-Trichloroben	31.5956	13.4082	42.44*	60-135

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	78.9889	74.3404	94.11	68-116
$ 5 1,2-Dichloroethane	78.9889	66.9184	84.72	59-130
$ 6 Toluene-d8	78.9889	82.2430	104.12	85-115
$ 7 4-Bromofluorobenze	78.9889	66.7697	84.53*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111918.D
Date : 21-NOV-2010 07:38
Client ID:
Sample Info: MAC5T1AE G0K100425-8D;CG;3;MS;;;6.33

Instrument: HP11.i
Operator: LB
Column phase:
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111909.D
Lab Smp Id: MAC5T1AF G0K100425-
Inj Date : 21-NOV-2010 03:16
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AF G0K100425-8S;CG;3;MS;;;;5.95
Misc Info : 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.950	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1058716			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	911298			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	754253			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	1140429			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	665118			(a)
5 Toluene-d8	6.916	6.913	0.003	2579922			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1254590			(a)
S 147 8015B (GRO)	3.340-10.165			12669012	501.806	421.7	(R)
S 148 AK101	3.830-9.650			9592564	473.765	398.1	(R)
S 149 CALUFT	5.300-12.050			9722233	478.139	401.8	(R)
S 150 NWTPH-Gx	6.870-12.730			8026794	447.153	375.8	(R)
S 151 Gas C6-C12	3.830-12.050			11744152	464.855	390.6	(R)
S 152 GAS C6-C10	3.830-9.800			10361394	499.274	419.6	(R)

ABn/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5T1AF G0K100425-
Level: LOW Operator: LB
Data Type: GC DATA SampleType: MS
SpikeList File: TPHALL.spk Quant Type: ESTD
Sublist File: TPHALL.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Misc Info: 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
S 147 8015B (GRO)	840.3	421.7	50.18*	70-130
S 148 AK101	840.3	398.1	47.38*	70-130
S 149 CALUFT	840.3	401.8	47.81*	79-123
S 150 NWTPH-Gx	840.3	375.8	44.72*	70-130
S 152 GAS C6-C10	840.3	419.6	49.93*	79-123
S 151 Gas C6-C12	840.3	390.6	46.49*	57-146

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Client SDG: I80
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: MAC5T1AF G0K100425-
Level: LOW
Operator: LB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: TPHALL.spk
Quant Type: ISTD
Sublist File: A4D7ND4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 4-Bromofluorobenze	84.0336	74.5127	88.67	70-131

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111909.D
Lab Smp Id: MAC5T1AF G0K100425-
Inj Date : 21-NOV-2010 03:16
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AF G0K100425-8S;CG;3;MS;;;;5.95
Misc Info : 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.950	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.505	29529	26520	0.898	0.11	
1.537	123425	31902	0.258	0.49	
1.685	167036	51341	0.307	0.66	
1.849	22170	8838	0.399	0.08	
2.074	18552	7065	0.381	0.07	
2.209	1391312	558777	0.402	5.56	
2.415	41474	23027	0.555	0.16	
2.479	867906	421074	0.485	3.47	
2.624	148983	78319	0.526	0.59	
2.740	77411	39496	0.510	0.30	
2.797	228966	116470	0.509	0.91	
2.942	230161	91820	0.399	0.92	
4.958	1140429	535746	0.470	4.56	1 Dibromofluoromethan
5.248	665118	386389	0.581	2.66	2 1,2-Dichloroethane-
5.627	1058716	592206	0.559	4.23	3 1,4-Difluorobenzene
6.740	9592565	5386214	0.561	38.37	S 148 AK101
6.753	12669013	6851221	0.541	-144.55	S 147 8015B (GRO)
3.412	1084663	351590	0.324		
3.646	401145	199146	0.496		
3.810	41336	18732	0.453		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.815	10361394	5770759	0.557	41.45	S 152 GAS C6-C10
3.904	359235	195014	0.543		
3.994	30981	15880	0.513		
4.048	39926	23189	0.581		
4.090	55808	31459	0.564		
4.161	34994	17246	0.493		
4.222	35665	16308	0.457		
4.312	71940	29008	0.403		
4.379	70248	36927	0.526		
4.447	353751	175261	0.495		
4.736	5552	1834	0.330		
4.875	78569	30285	0.385		
5.029	147299	86789	0.589		
5.061	152710	75590	0.495		
5.151	249140	132914	0.533		
5.299	336101	186258	0.554		
5.370	582041	234164	0.402		
5.440	64789	30073	0.464		
5.530	142217	79255	0.557		
5.772	14959	8871	0.593		
5.839	34336	9619	0.280		
6.022	208147	95664	0.460		
6.077	57346	32826	0.572		
6.125	11854	6682	0.564		
6.186	34977	18674	0.534		
6.247	22303	10485	0.470		
6.325	6450	3304	0.512		
6.386	142453	73808	0.518		
6.498	183532	78939	0.430		
6.563	58883	32423	0.551		
6.595	26300	16959	0.645		
6.691	81556	31686	0.389		
6.804	21117	9622	0.456		
6.839	14659	12602	0.860		
6.974	2476017	1500419	0.606		
7.074	77568	28039	0.361		
7.196	17887	9705	0.543		
7.276	5505	3330	0.605		
7.321	42801	14334	0.335		
7.495	4166	3027	0.727		
7.550	5571	3054	0.548		
7.604	9111	4555	0.500		
7.669	13567	4815	0.355		
7.727	14927	8596	0.576		
7.784	6734	4309	0.640		
7.881	7706	2248	0.292		
8.000	19891	8907	0.448		
8.109	15287	5233	0.342		
8.347	494656	308108	0.623		
8.456	1779816	1084961	0.610		
8.829	722566	458683	0.635		
9.000	3870	1719	0.444		
9.186	32683	19640	0.601		
9.514	11579	6295	0.544		
9.575	100819	66619	0.661		
9.662	589889	271719	0.461		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.746	178940	112826	0.631		
6.916	2579922	1559517	0.604	10.32	5 Toluene-d8
7.940	11744152	6608668	0.563	46.98	S 151 Gas C6-C12
9.942	150083	88176	0.588		
10.109	630392	422818	0.671		
10.241	6399	3578	0.559		
10.376	10382	5998	0.578		
10.524	131847	78460	0.595		
10.723	114404	45515	0.398		
10.800	87709	45859	0.523		
10.916	5461	3382	0.619		
10.984	14520	9448	0.651		
11.070	26947	17967	0.667		
11.103	25818	17308	0.670		
11.173	52387	30063	0.574		
11.299	24181	9446	0.391		
11.482	11147	6360	0.571		
11.569	19801	11391	0.575		
11.620	27892	18251	0.654		
11.730	6941	2782	0.401		
11.887	13186	7474	0.567		
12.048	23259	13633	0.586		
8.222	911298	549563	0.603	3.64	6 Chlorobenzene-d5
8.675	9722234	5554706	0.571	38.89	S 149 CALUFT
9.328	1254590	785826	0.626	5.01	7 4-Bromofluorobenzen
9.800	8026795	4777032	0.595	32.11	S 150 NWTPH-Gx
12.373	3250	2482	0.764		
12.678	9231	5500	0.596		
10.450	754254	471873	0.626	3.01	8 1,4-Dichlorobenzene
	24995030	13521887		100.000	

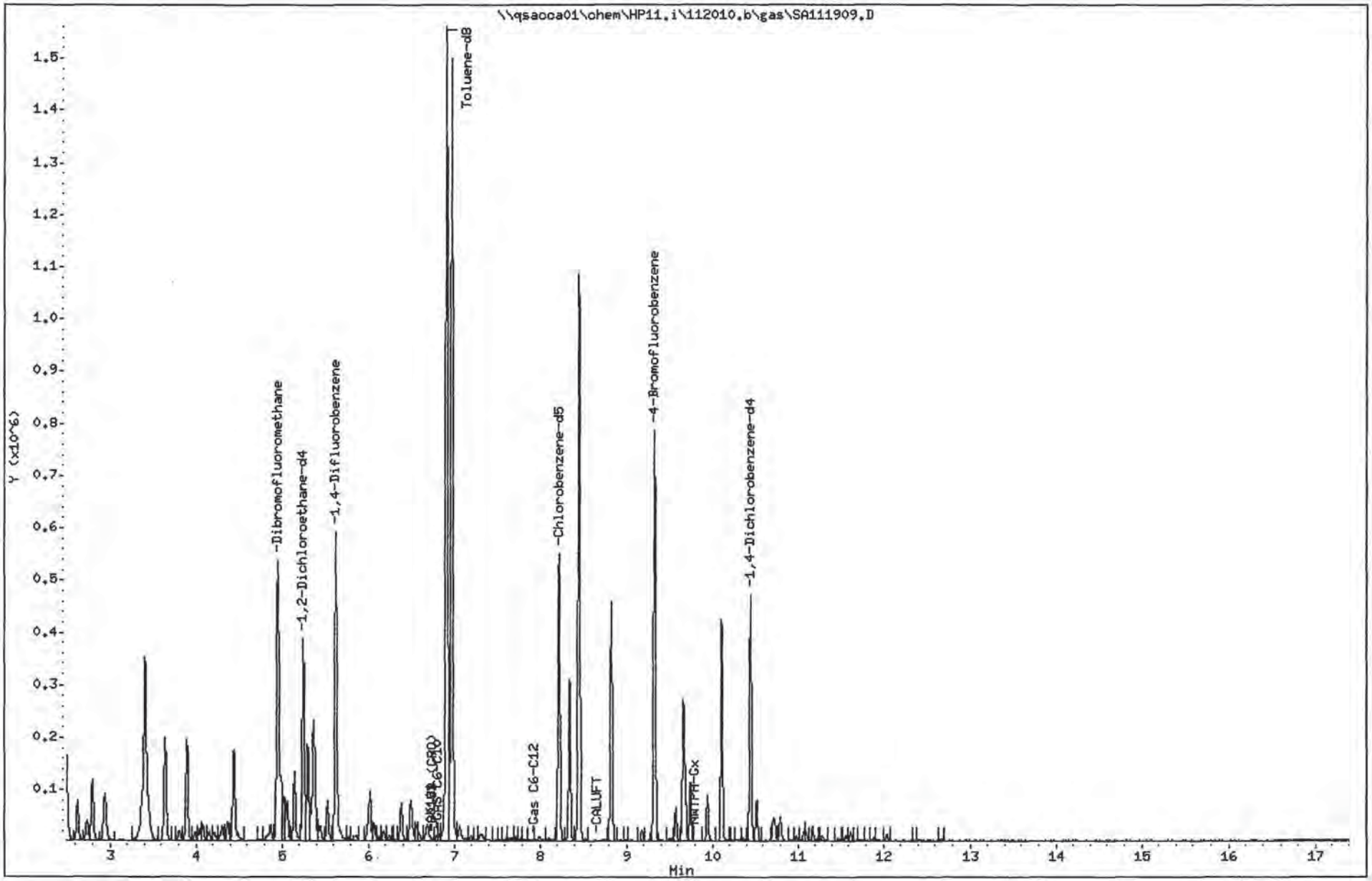
Total unknown % area = 13.32

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111909.D
Date : 21-NOV-2010 03:16
Client ID:
Sample Info: MAC5T1AF G0K100425-8S;CG;3;MS;;;;5.95

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111910.D
Lab Smp Id: MAC5T1AG G0K100425-
Inj Date : 21-NOV-2010 03:40
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AG G0K100425-8D;CG;3;MS;;;;5.86
Misc Info : 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.860	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
3 1,4-Difluorobenzene	5.626	5.623	0.003	1190155		(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1053799		(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	888578		(a)
1 Dibromofluoromethane	4.957	4.954	0.003	1203891		(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	714017		(a)
5 Toluene-d8	6.916	6.913	0.003	2732299		(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1369713		(a)
S 147 8015B (GRO)	3.340-10.165			13159970	521.253	444.8(R)
S 148 AK101	3.830-9.650			9976011	492.703	420.4(R)
S 149 CALUFT	5.300-12.050			10200871	501.679	428.0(R)
S 150 NWTPH-Gx	6.870-12.730			8318979	463.430	395.4(R)
S 151 Gas C6-C12	3.830-12.050			12290283	486.472	415.1(R)
S 152 GAS C6-C10	3.830-9.800			10790176	519.935	443.6(R)

AB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5T1AG G0K100425-
Level: LOW Operator: LB
Data Type: GC DATA SampleType: MS
SpikeList File: TPHALL.spk Quant Type: ESTD
Sublist File: TPHALL.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Misc Info: 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
S 147 8015B (GRO)	853.2	444.8	52.13*	70-130
S 148 AK101	853.2	420.4	49.27*	70-130
S 149 CALUFT	853.2	428.0	50.17*	79-123
S 150 NWTPH-Gx	853.2	395.4	46.34*	70-130
S 152 GAS C6-C10	853.2	443.6	51.99*	79-123
S 151 Gas C6-C12	853.2	415.1	48.65*	57-146

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Client SDG: I80
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: MAC5T1AG G0K100425-
Level: LOW
Operator: LB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: TPHALL.spk
Quant Type: ISTD
Sublist File: A4D7ND4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.M
Misc Info: 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 4-Bromofluorobenze	85.3242	70.4883	82.61	70-131

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111910.D
Lab Smp Id: MAC5T1AG G0K100425-
Inj Date : 21-NOV-2010 03:40
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AG G0K100425-8D;CG;3;MS;;;;5.86
Misc Info : 2;SOIL;0;TPHALL.sub;TPHALL.spk;1;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.860	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.511	32424	29945	0.924	0.12	
1.537	144626	33270	0.230	0.54	
1.685	166513	48027	0.288	0.63	
1.858	23421	8547	0.365	0.08	
2.080	18671	6212	0.333	0.07	
2.209	1365979	532502	0.390	5.18	
2.418	38912	21942	0.564	0.14	
2.479	857499	405653	0.473	3.25	
2.624	150936	79108	0.524	0.57	
2.736	75591	40977	0.542	0.28	
2.794	225423	114930	0.510	0.85	
2.948	234345	91370	0.390	0.88	
4.958	1203892	545934	0.453	4.56	1 Dibromofluoromethan
5.247	714018	418242	0.586	2.71	2 1,2-Dichloroethane-
5.627	1190155	658776	0.554	4.51	3 1,4-Difluorobenzene
6.740	9976011	5562255	0.558	37.86	S 148 AK101
6.753	13159971	7080624	0.538	-143.02	S 147 8015B (GRO)
3.411	1098798	364673	0.332		
3.646	410412	200539	0.489		
3.810	41201	19864	0.482		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.815	10790177	5970584	0.553	40.95	S 152 GAS C6-C10
3.900	383206	210946	0.550		
3.993	30294	16353	0.540		
4.048	41273	22079	0.535		
4.090	55739	29781	0.534		
4.161	33764	18862	0.559		
4.218	38510	16969	0.441		
4.312	70207	27285	0.389		
4.376	80575	39256	0.487		
4.447	351412	167994	0.478		
4.749	8006	3884	0.485		
4.842	19761	11920	0.603		
4.871	61856	30121	0.487		
5.029	149595	88592	0.592		
5.064	160592	78405	0.488		
5.151	264743	145450	0.549		
5.299	339881	184712	0.543		
5.370	640419	262679	0.410		
5.443	71356	33511	0.470		
5.530	162441	88314	0.544		
5.775	15496	8817	0.569		
5.845	20435	9346	0.457		
5.871	19768	11631	0.588		
6.022	224370	103863	0.463		
6.077	64036	38240	0.597		
6.128	14112	8064	0.571		
6.183	38010	21198	0.558		
6.247	26401	11911	0.451		
6.386	153851	83722	0.544		
6.495	207996	87070	0.419		
6.562	97782	39032	0.399		
6.691	100736	41968	0.417		
6.800	17996	10895	0.605		
6.832	25720	15643	0.608		
6.974	2473049	1486675	0.601		
7.074	88156	35634	0.404		
7.196	20212	10472	0.518		
7.321	54781	15837	0.289		
7.405	8556	3200	0.374		
7.495	6236	3341	0.536		
7.553	5446	3534	0.649		
7.614	12670	5339	0.421		
7.659	16249	5685	0.350		
7.733	17454	10421	0.597		
7.771	15542	4519	0.291		
7.929	5938	3607	0.607		
7.996	25162	10946	0.435		
8.109	20358	7953	0.391		
8.347	506399	313200	0.618		
8.456	1813244	1105573	0.610		
8.829	735898	470588	0.639		
9.000	4079	3249	0.796		
9.180	35448	21184	0.598		
9.511	12492	6701	0.536		
9.575	108304	66084	0.610		
9.662	620398	290364	0.468		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.746	193767	117965	0.609		
6.916	2732300	1639774	0.600	10.37	5 Toluene-d8
7.940	12290284	6842192	0.557	46.64	S 151 Gas C6-C12
9.945	154548	94480	0.611		
10.112	664836	430484	0.648		
10.247	12468	4335	0.348		
10.321	6183	3845	0.622		
10.369	11968	7673	0.641		
10.524	143801	85985	0.598		
10.723	127966	50090	0.391		
10.803	93347	49486	0.530		
10.916	7329	3437	0.469		
10.987	16831	10347	0.615		
11.070	59113	20758	0.351		
11.173	58952	33190	0.563		
11.292	26666	10302	0.386		
11.475	10453	6302	0.603		
11.569	22235	13361	0.601		
11.620	33403	22399	0.671		
11.893	16505	8171	0.495		
11.999	3450	2919	0.846		
12.044	30054	14044	0.467		
8.221	1053799	647328	0.614	3.99	6 Chlorobenzene-d5
8.675	10200871	5749583	0.564	38.71	S 149 CALUFT
9.328	1369714	858125	0.626	5.19	7 4-Bromofluorobenzen
9.800	8318980	4885446	0.587	31.57	S 150 NWTPH-Gx
12.144	3642	2132	0.585		
12.417	4203	3256	0.775		
12.675	11188	6379	0.570		
10.450	888578	552335	0.622	3.37	8 1,4-Dichlorobenzene
	26346524	14172032		100.000	

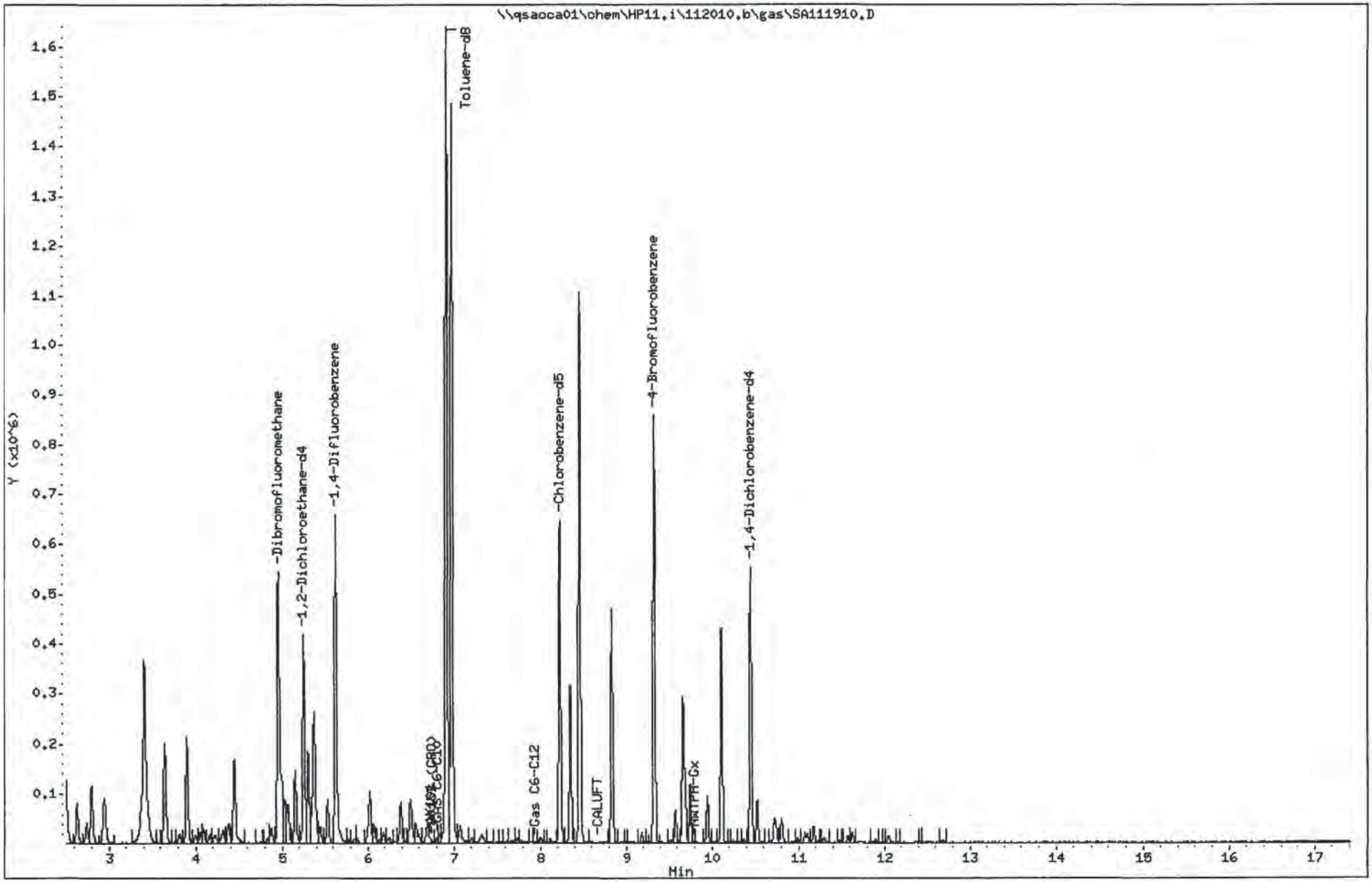
Total unknown % area = 12.59

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111910.D
Date : 21-NOV-2010 03:40
Client ID:
Sample Info: MAC5T1AG G0K100425-8D:CG:3:HS:::::5.86

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111901.D
Lab Smp Id: MAC5T1AC G0K200425-
Inj Date : 21-NOV-2010 00:05
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AC G0K200425-8 1X;CG;0;;;;;6.17
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.170	Sample Weight
Cpnd Variable		Local Compound Variable

✓153

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	467490	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	353316	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	156870	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	339879	111.659	90.4857
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	283225	105.613	85.5856
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	998904	113.257	91.7805
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	281943	86.9245	70.4413
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

QB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111901.D
Lab Smp Id: MAC5T1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	467490	-31.50	
2 Chlorobenzene-d5	526668	263334	1053336	353316	-32.91	
3 1,4 Dichlorobenze	348511	174256	697022	156870	-54.99	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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.

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RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: MAC5T1AC G0K200425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

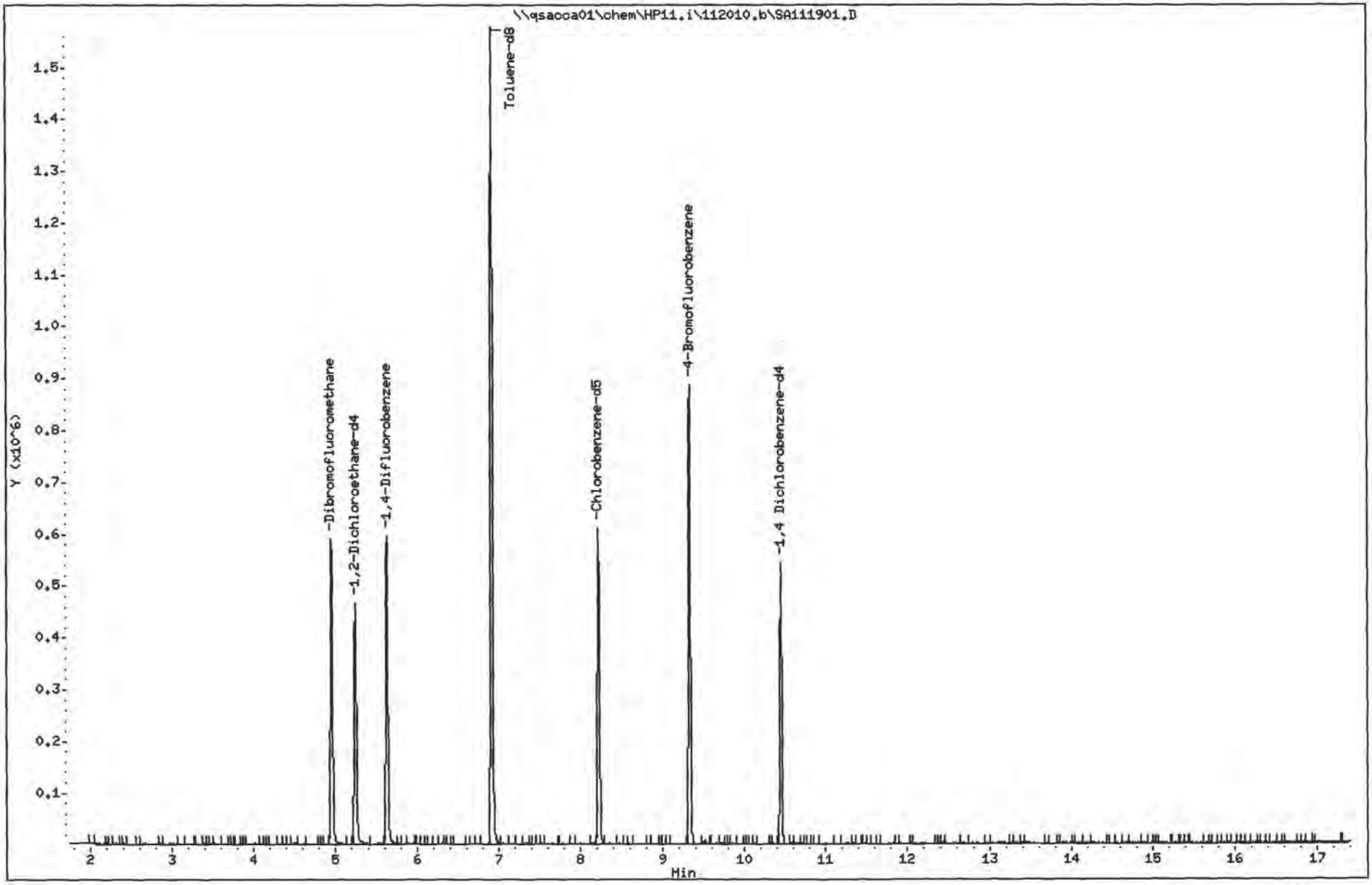
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	81.0373	90.4857	111.66	68-116
$ 5 1,2-Dichloroethane	81.0373	85.5856	105.61	59-130
$ 6 Toluene-d8	81.0373	91.7805	113.26	85-115
$ 7 4-Bromofluorobenze	81.0373	70.4413	86.92	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111901.D
Date : 21-NOV-2010 00:05
Client ID:
Sample Info: MAC5T1AC G0K200425-8 1X;CG;0;;;;;6.17

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



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VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111902.D
Lab Smp Id: MAC5G1AC G0K200425-
Inj Date : 21-NOV-2010 00:29
Operator : LB Inst ID: HP11.i
Smp Info : MAC5G1AC G0K200425-1 1X;CG;0;;;;;5.31
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.310	Sample Weight
Cpnd Variable		Local Compound Variable

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	483618	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	366596	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	168942	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	327356	103.959	97.8896
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	277015	99.8521	94.0227
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	972850	106.625	100.400
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	279652	83.0949	78.2438(R)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

LB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111902.D
Lab Smp Id: MAC5G1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	483618	-29.13	
2 Chlorobenzene-d5	526668	263334	1053336	366596	-30.39	
3 1,4 Dichlorobenze	348511	174256	697022	168942	-51.52	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	-0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5G1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

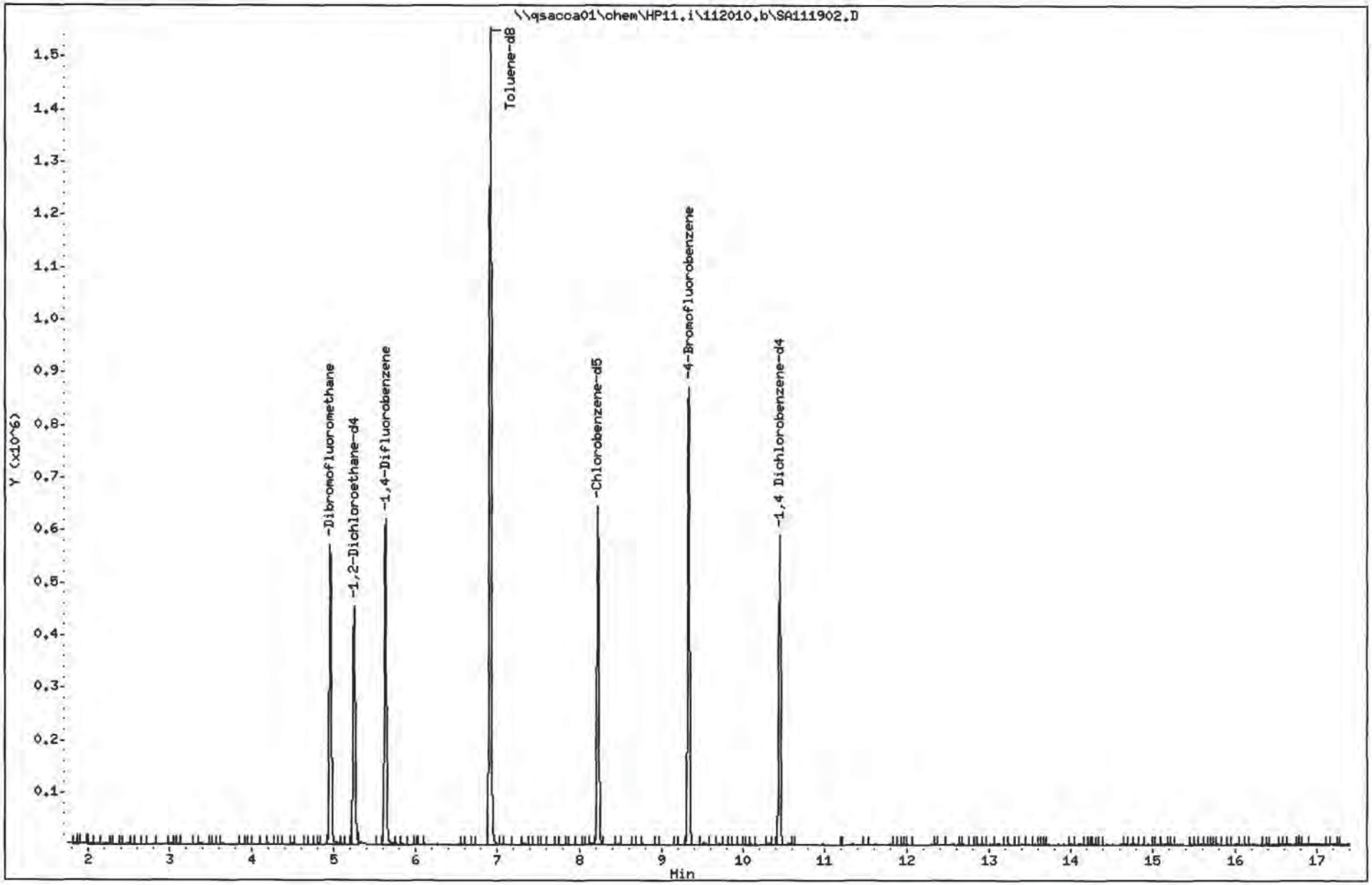
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	94.1620	97.8896	103.96	68-116
$ 5 1,2-Dichloroethane	94.1620	94.0227	99.85	59-130
$ 6 Toluene-d8	94.1620	100.400	106.62	85-115
$ 7 4-Bromofluorobenze	94.1620	78.2438	83.09*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111902.D
Date : 21-NOV-2010 00:29
Client ID:
Sample Info: MAC5G1AC G0K200425-1 1X;CG;0;;;;;5.31

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111903.D
Lab Smp Id: MAC5K1AC G0K200425-
Inj Date : 21-NOV-2010 00:53
Operator : LB Inst ID: HP11.i
Smp Info : MAC5K1AC G0K200425-2 1X;CG;0;;;;;5.73
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.730	Sample Weight
Cpnd Variable		Local Compound Variable

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	442139	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	329169	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	147025	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	319761	111.073	96.9226
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	274021	108.039	94.2751
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	951779	114.102	99.5651
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	262450	86.8504	75.7857
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

dB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111903.D
Lab Smp Id: MAC5K1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	442139	-35.21	
2 Chlorobenzene-d5	526668	263334	1053336	329169	-37.50	
3 1,4 Dichlorobenze	348511	174256	697022	147025	-57.81	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5K1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

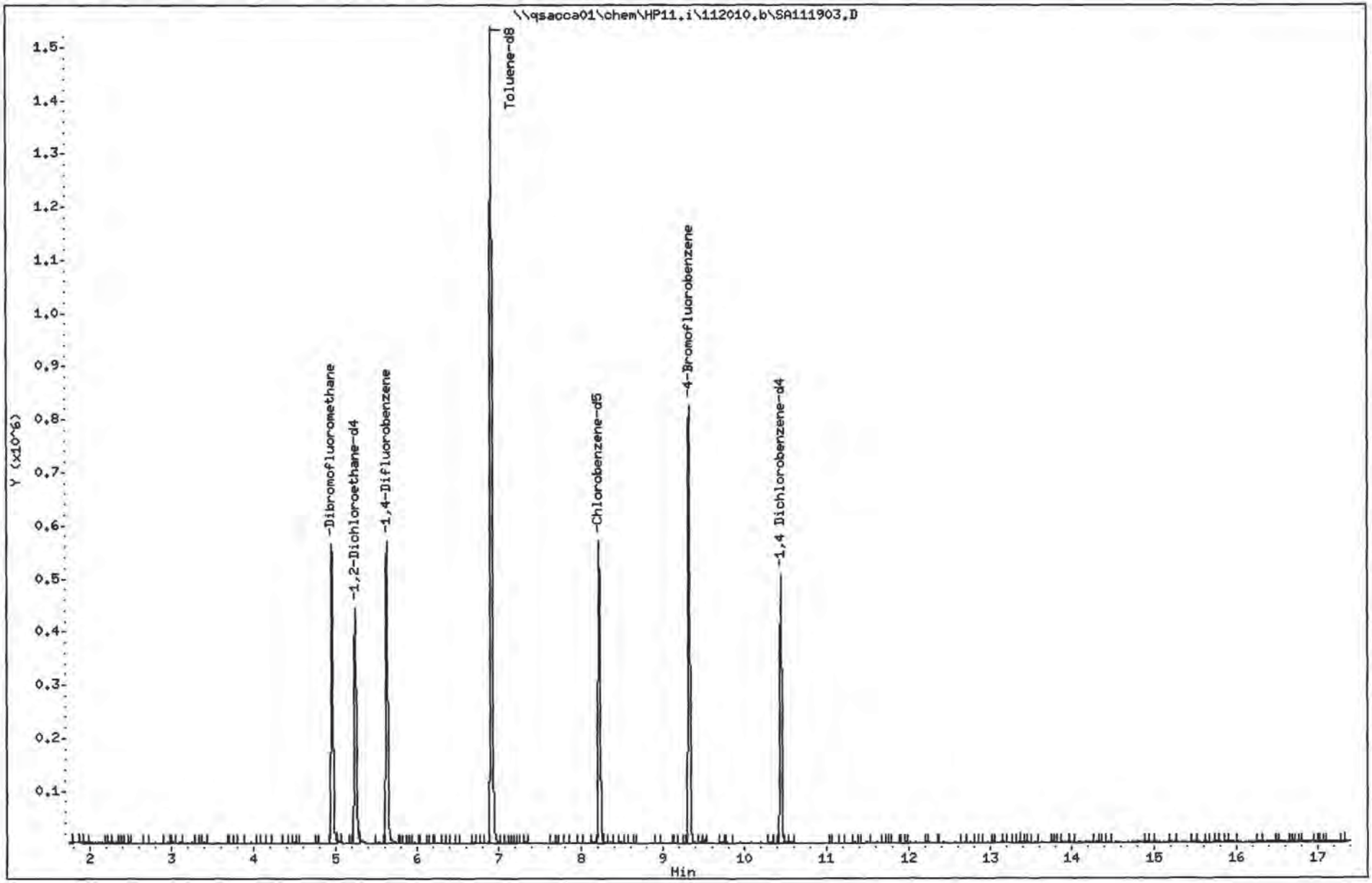
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	87.2600	96.9226	111.07	68-116
$ 5 1,2-Dichloroethane	87.2600	94.2751	108.04	59-130
$ 6 Toluene-d8	87.2600	99.5651	114.10	85-115
$ 7 4-Bromofluorobenze	87.2600	75.7857	86.85	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111903.D
Date : 21-NOV-2010 00:53
Client ID:
Sample Info: MAC5K1AC G0K200425-2 1X:CG:0:::::5.73

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111904.D
Lab Smp Id: MAC5L1AC G0K200425-
Inj Date : 21-NOV-2010 01:16
Operator : LB Inst ID: HP11.i
Smp Info : MAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.410	Sample Weight
Cpnd Variable		Local Compound Variable

↓153

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.629	5.626	(1.000)	452400	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	353242	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.446	10.446	(1.000)	171783	50.0000	
$ 4 Dibromofluoromethane	111	4.957	4.954	(0.881)	318847	108.244	84.4335
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.932)	268979	103.646	80.8471
$ 6 Toluene-d8	98	6.916	6.916	(1.228)	945614	110.791	86.4207
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	281201	86.7139	67.6396
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	2.980	2.974	(0.529)	8729	11.9569	9.32678
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

LB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	4.562	4.556	(0.810)	2776	2.65537	2.07127
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111904.D
Lab Smp Id: MAC5L1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	452400	-33.71	
2 Chlorobenzene-d5	526668	263334	1053336	353242	-32.93	
3 1,4 Dichlorobenze	348511	174256	697022	171783	-50.71	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.11
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	-0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	-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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5L1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

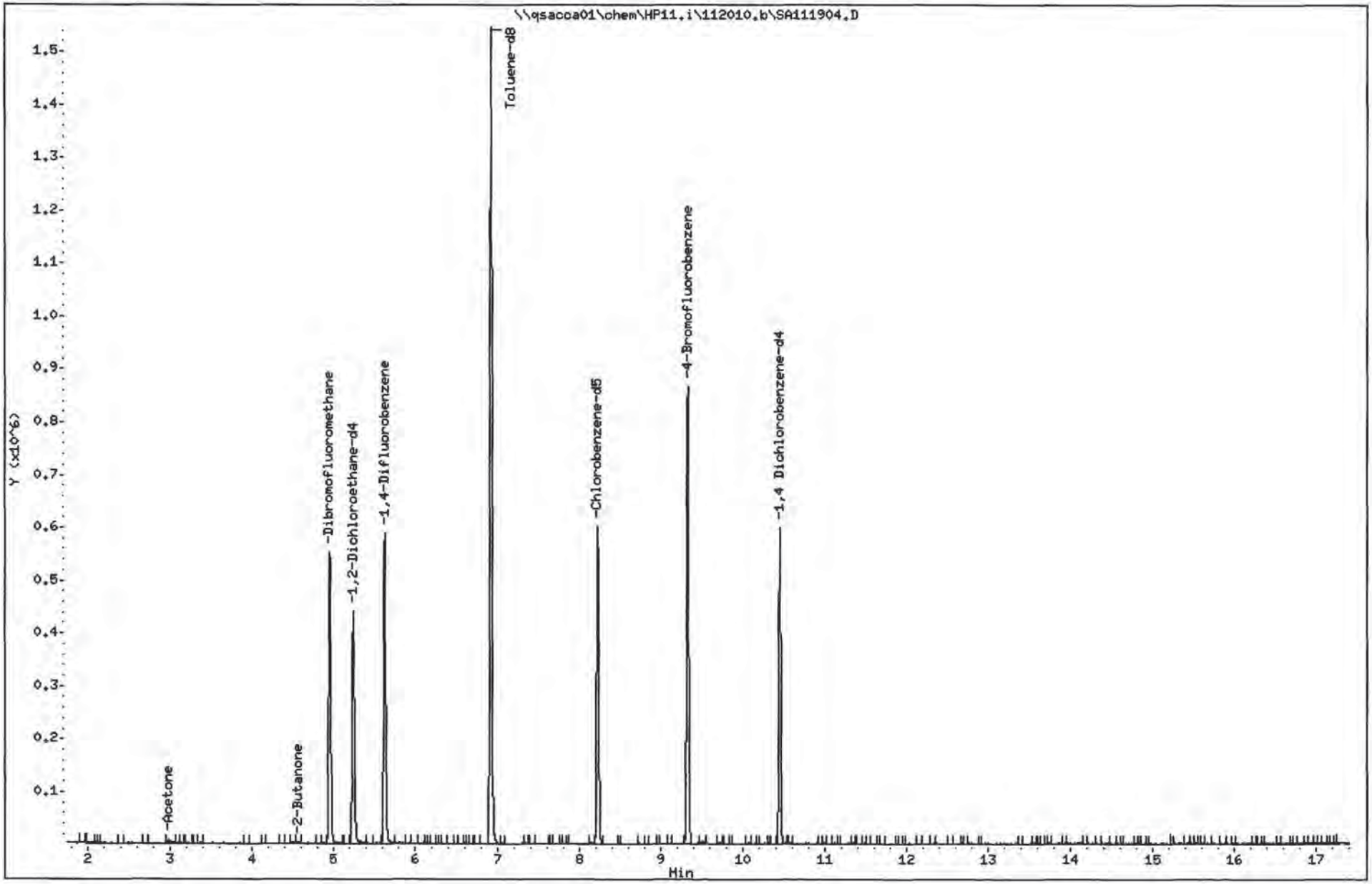
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	78.0031	84.4335	108.24	68-116
$ 5 1,2-Dichloroethane	78.0031	80.8471	103.65	59-130
$ 6 Toluene-d8	78.0031	86.4207	110.79	85-115
$ 7 4-Bromofluorobenze	78.0031	67.6396	86.71	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111904.D
Date : 21-NOV-2010 01:16
Client ID:
Sample Info: MAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



Data File: \\qsacca01\chem\HP11.i\112010.b\SA111904.D

Date : 21-NOV-2010 01:16

Client ID:

Instrument: HP11.i

Sample Info: HAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41

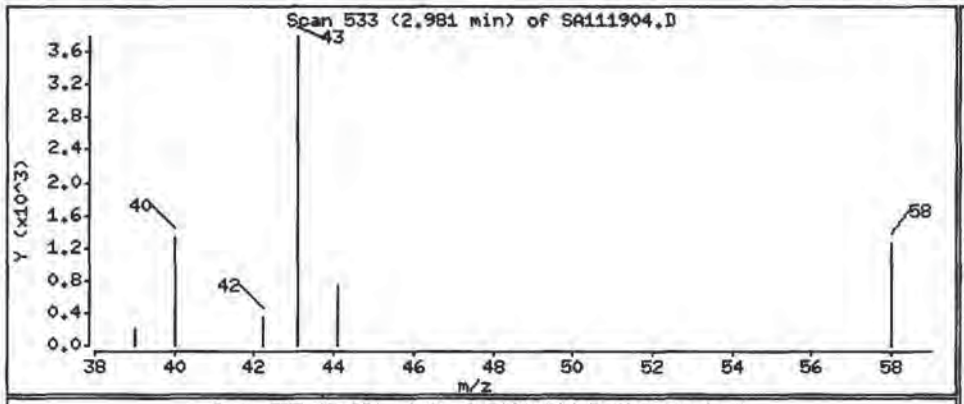
Operator: LB

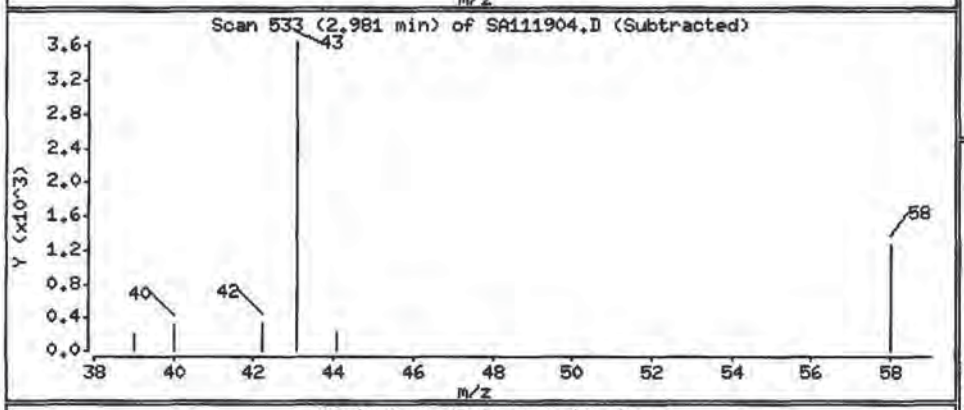
Column phase:

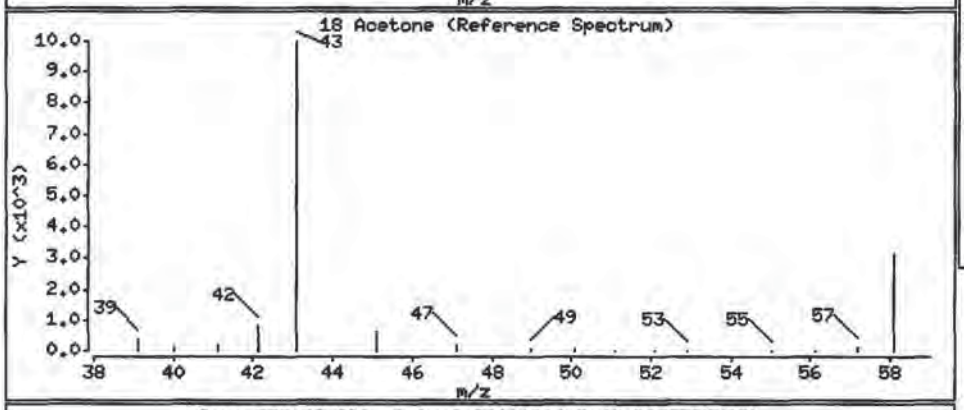
Column diameter: 0.53

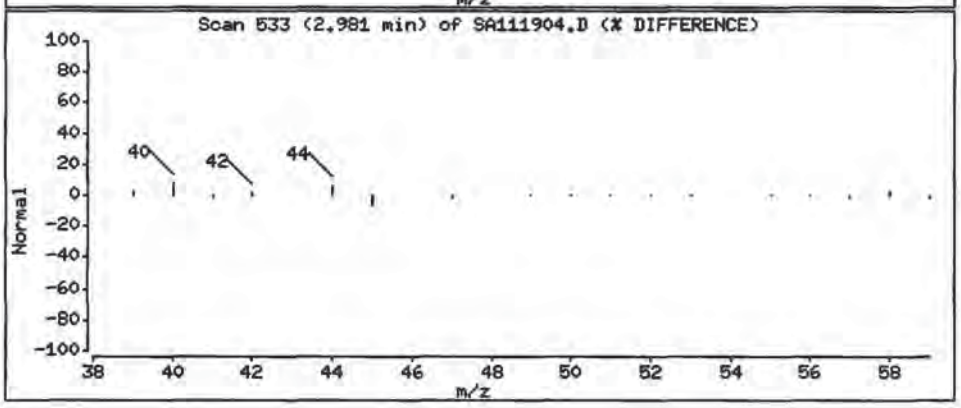
18 Acetone

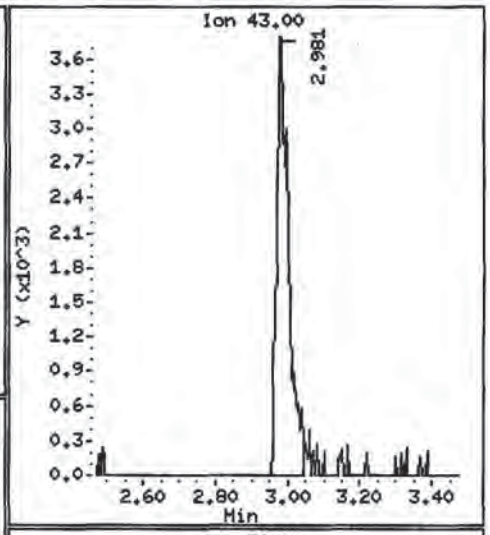
Concentration: 9.32678 ug/Kg

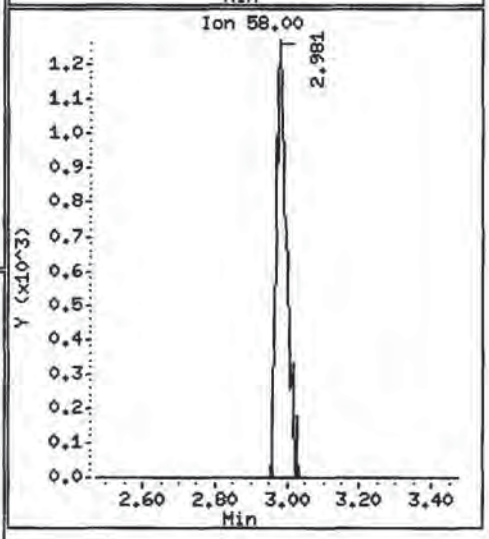












Data File: \\qsacca01\chem\HP11.i\112010.b\SA111904.D

Date : 21-NOV-2010 01:16

Client ID:

Instrument: HP11.i

Sample Info: MAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41

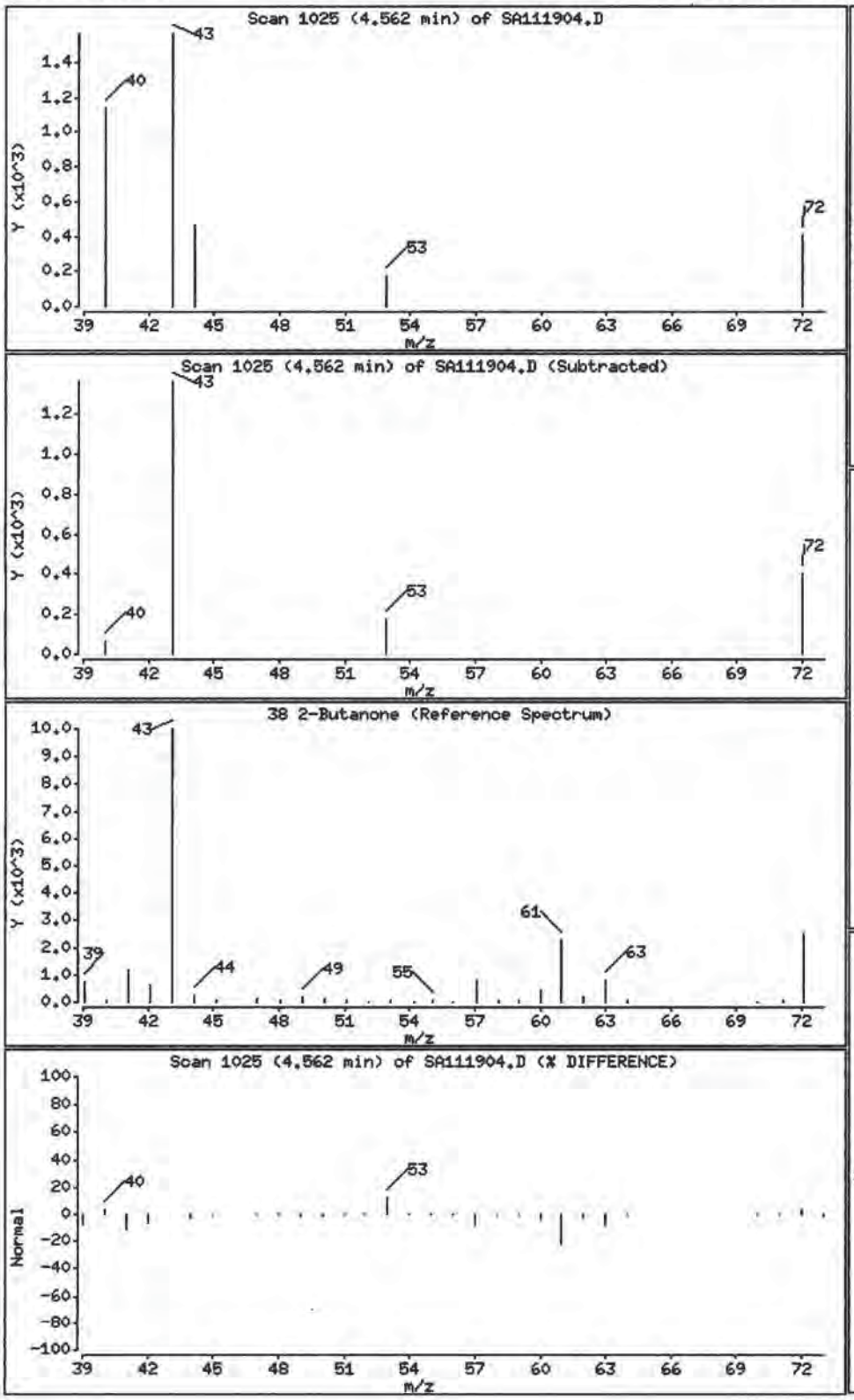
Operator: LB

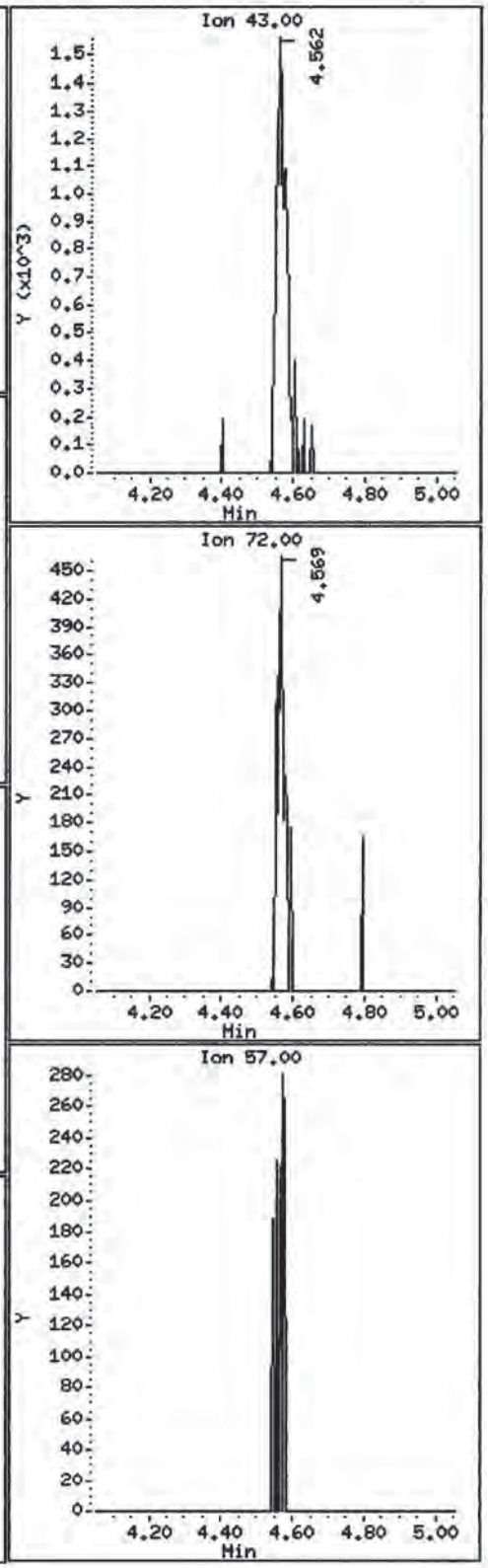
Column phase:

Column diameter: 0.53

38 2-Butanone

Concentration: 2.07127 ug/Kg





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VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111905.D
Lab Smp Id: MAC5M1AC G0K200425-
Inj Date : 21-NOV-2010 01:40
Operator : LB Inst ID: HP11.i
Smp Info : MAC5M1AC G0K200425-4 1X;CG;0;;;;;5.87
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	5.870	Sample Weight
Cpnd Variable		Local Compound Variable

↓(S1,2,3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	81163	50.0000	
* 2 Chlorobenzene-d5	117	8.224	8.221	(1.000)	73162	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.446	10.446	(1.000)	29474	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	59015	111.673	95.1216
$ 5 1,2-Dichloroethane-d4	65	5.244	5.247	(0.932)	53604	115.132	98.0680
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	184231	120.315	102.483(R)
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.134)	46203	68.7906	58.5950(R)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

LB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111905.D
Lab Smp Id: MAC5M1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	81163	-88.11	<
2 Chlorobenzene-d5	526668	263334	1053336	73162	-86.11	<
3 1,4 Dichlorobenze	348511	174256	697022	29474	-91.54	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.04
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	-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:
Sample Matrix: SOLID
Lab Smp Id: MAC5M1AC G0K200425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

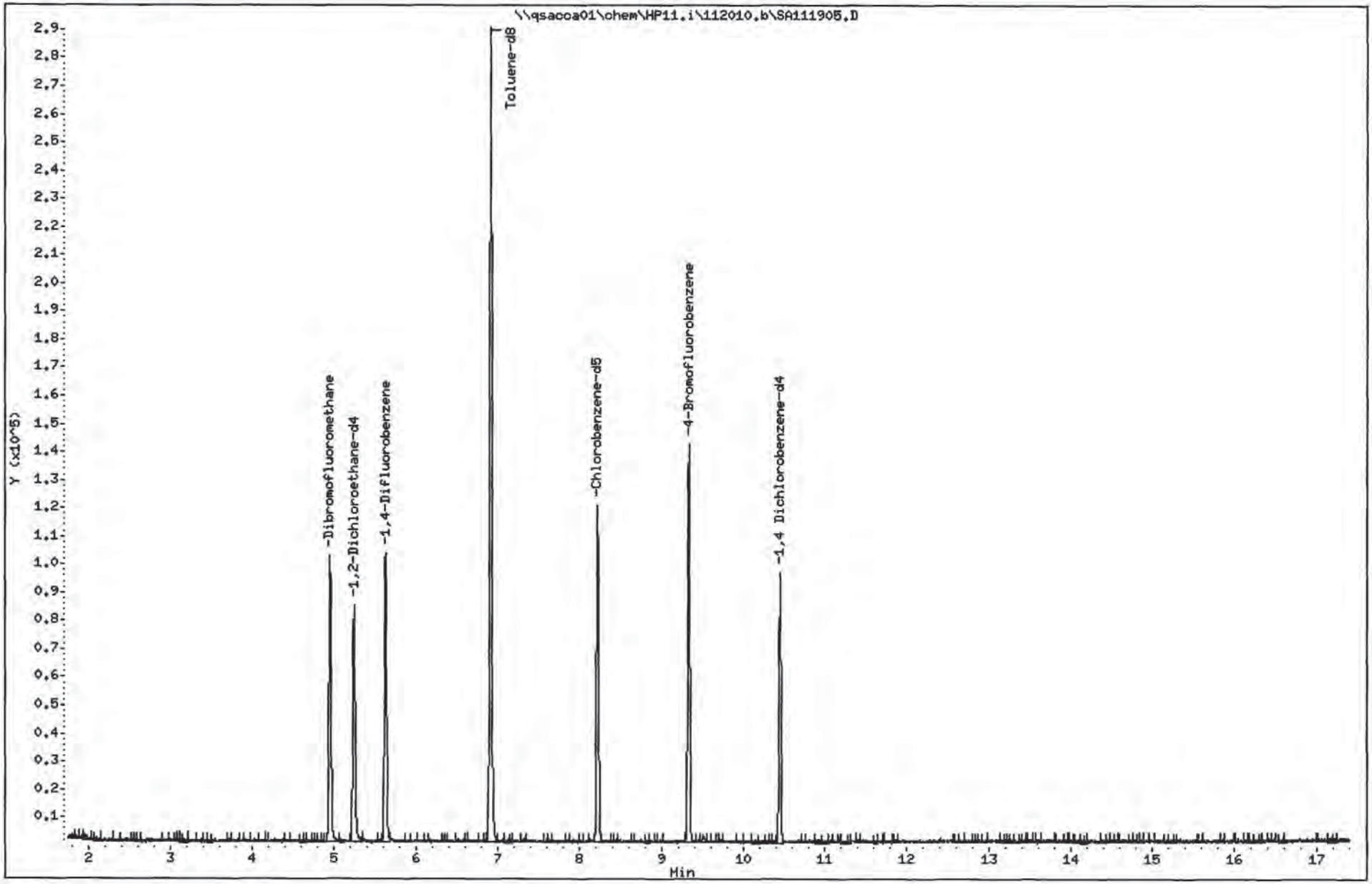
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	85.1789	95.1216	111.67	68-116
$ 5 1,2-Dichloroethane	85.1789	98.0680	115.13	59-130
$ 6 Toluene-d8	85.1789	102.483	120.31*	85-115
$ 7 4-Bromofluorobenze	85.1789	58.5950	68.79*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111905.D
Date : 21-NOV-2010 01:40
Client ID:
Sample Info: MAC5M1AC G0K200425-4 1X;CG;0;;;;;5.87

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111906.D
Lab Smp Id: MAC5N1AC G0K200425-
Inj Date : 21-NOV-2010 02:04
Operator : LB Inst ID: HP11.i
Smp Info : MAC5N1AC G0K200425-5 1X;CG;0;;;;;6.52
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.520	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	349187	50.0000	
* 2 Chlorobenzene-d5	117	8.224	8.221	(1.000)	264320	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	116154	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	263037	115.692	88.7206
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	228614	114.130	87.5233
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	764767	116.087	89.0241(R)
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.134)	208849	86.0690	66.0038
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94 Hexachlorobutadiene	225	Compound Not Detected.					
95 Naphthalene	128	Compound Not Detected.					
96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M 97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M 98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111906.D
Lab Smp Id: MAC5N1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	349187	-48.83	
2 Chlorobenzene-d5	526668	263334	1053336	264320	-49.81	
3 1,4 Dichlorobenze	348511	174256	697022	116154	-66.67	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.04
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5N1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

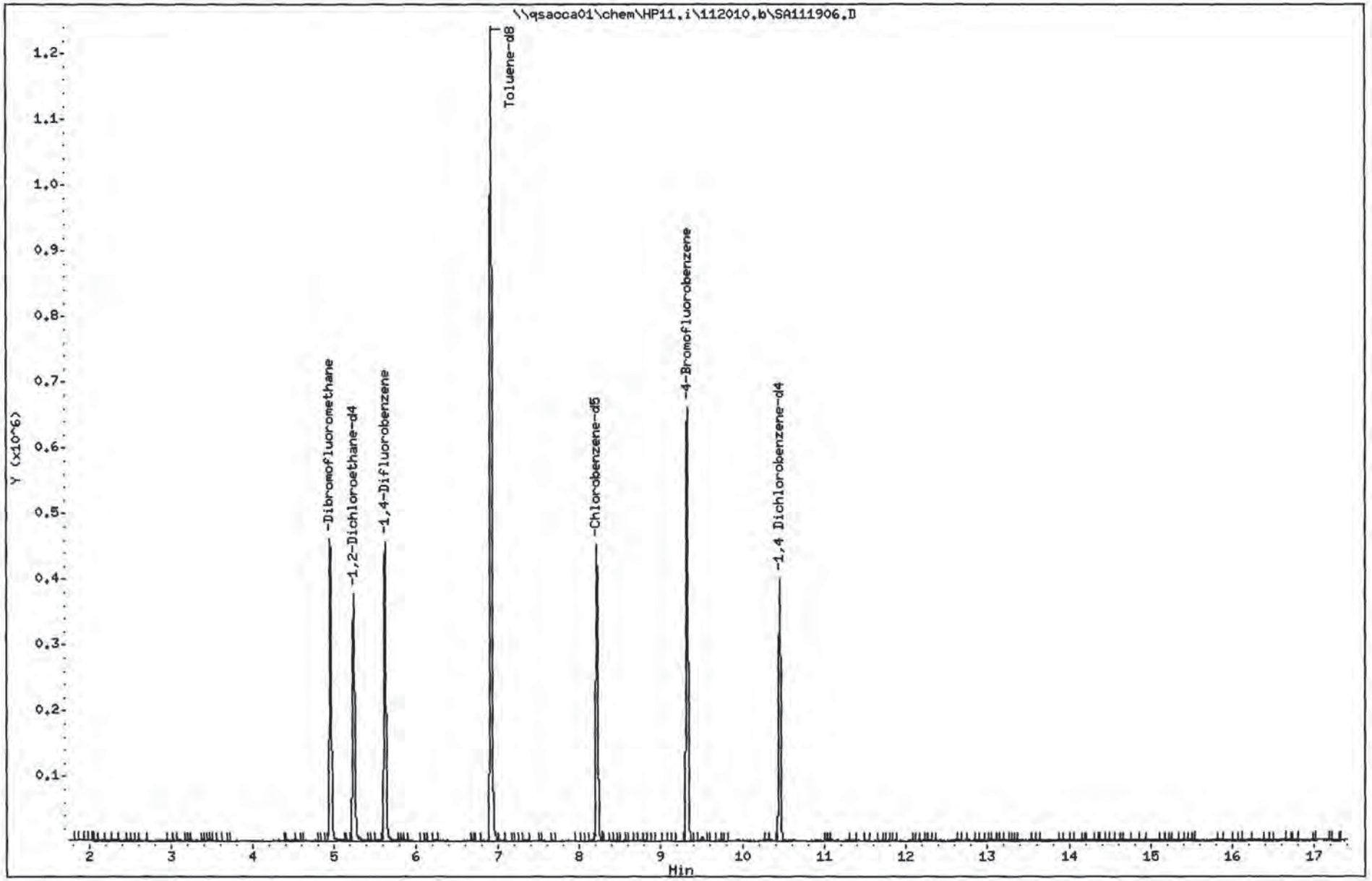
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	76.6871	88.7206	115.69	68-116
$ 5 1,2-Dichloroethane	76.6871	87.5233	114.13	59-130
$ 6 Toluene-d8	76.6871	89.0241	116.09*	85-115
$ 7 4-Bromofluorobenze	76.6871	66.0038	86.07	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111906.D
Date : 21-NOV-2010 02:04
Client ID:
Sample Info: HAC5N1AC G0K200425-5 1X;CG;0;;;;;6.52

Instrument: HP11.i

Operator: LB
Column diameter: 0.53

Column phase:



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111907.D
Lab Smp Id: MAC5P1AC G0K200425-
Inj Date : 21-NOV-2010 02:28
Operator : LB Inst ID: HP11.i
Smp Info : MAC5P1AC G0K200425-6 1X;CG;0;;;;;6.38
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.380	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	315734	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	246467	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	110453	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	247874	120.574	94.4935(R)
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	206237	113.868	89.2383
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	719404	120.772	94.6488(R)
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	195943	86.5995	67.8679
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111907.D
Lab Smp Id: MAC5P1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	315734	-53.73	<
2 Chlorobenzene-d5	526668	263334	1053336	246467	-53.20	<
3 1,4 Dichlorobenze	348511	174256	697022	110453	-68.31	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5P1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

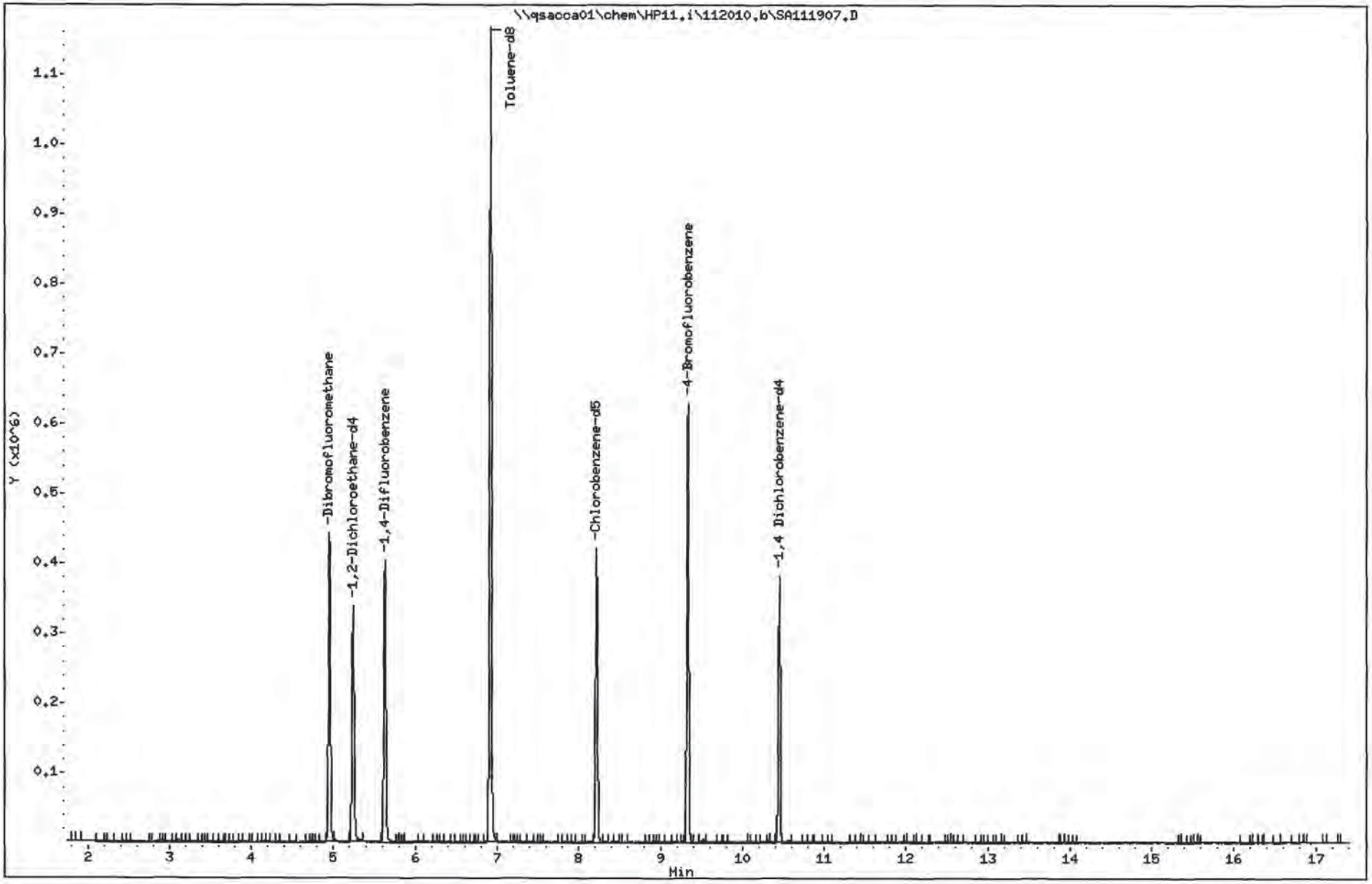
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	78.3699	94.4935	120.57*	68-116
$ 5 1,2-Dichloroethane	78.3699	89.2383	113.87	59-130
$ 6 Toluene-d8	78.3699	94.6488	120.77*	85-115
$ 7 4-Bromofluorobenze	78.3699	67.8679	86.60	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111907.D
Date : 21-NOV-2010 02:28
Client ID:
Sample Info: HAC5P1AC G0K200425-6 1X;CG;0;;;;;6.38

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111908.D
Lab Smp Id: MAC5R1AC G0K200425-
Inj Date : 21-NOV-2010 02:52
Operator : LB Inst ID: HP11.i
Smp Info : MAC5R1AC G0K200425-7 1X;CG;0;;;;;6.17
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.170	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	421128	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	304600	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	120970	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	311437	113.579	92.0416
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	258932	107.184	86.8586
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	884003	111.264	90.1652
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	229045	81.9097	66.3774(R)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

2B 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111908.D
Lab Smp Id: MAC5R1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	421128	-38.29	
2 Chlorobenzene-d5	526668	263334	1053336	304600	-42.16	
3 1,4 Dichlorobenze	348511	174256	697022	120970	-65.29	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5R1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

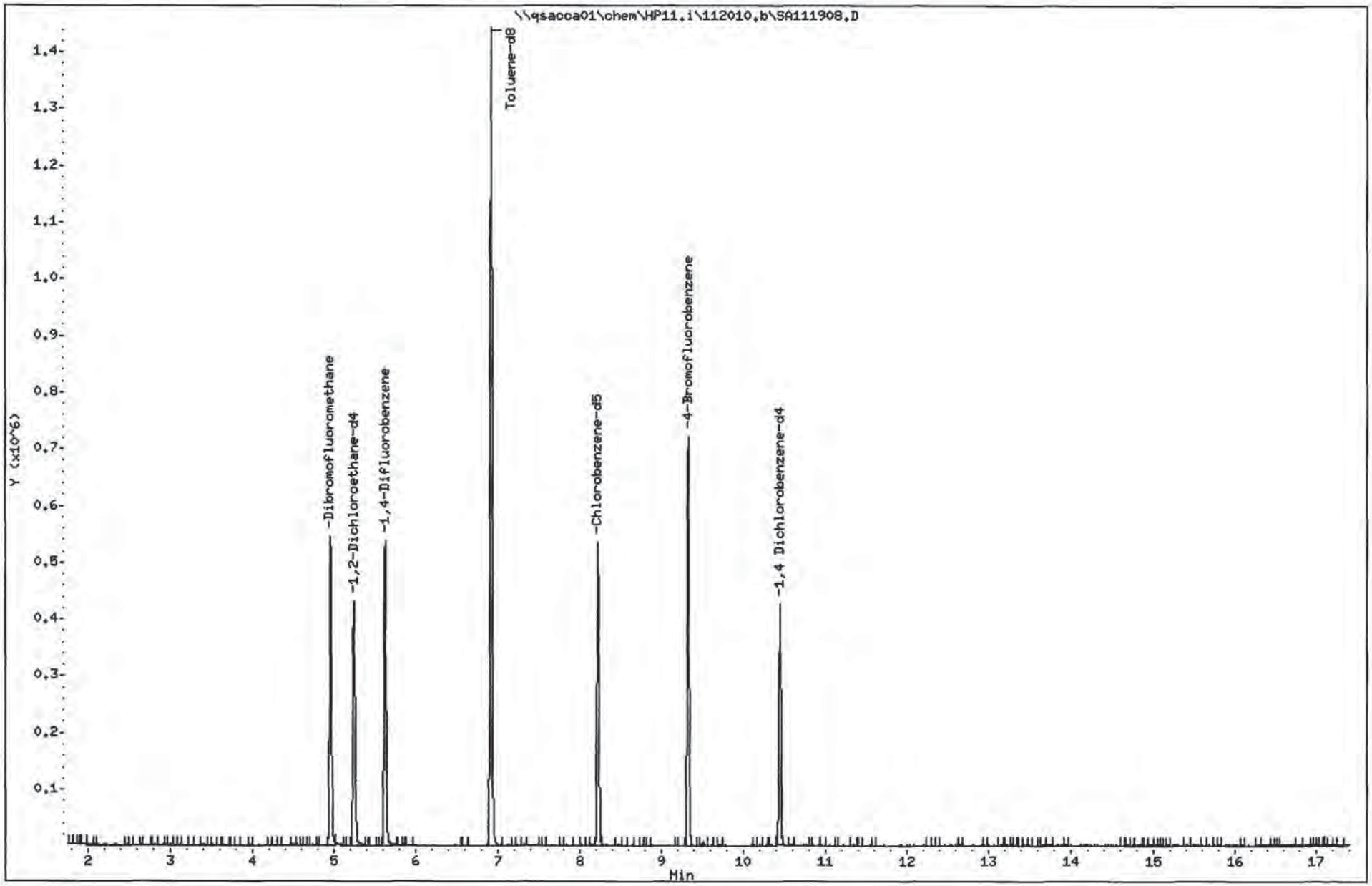
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	81.0373	92.0416	113.58	68-116
$ 5 1,2-Dichloroethane	81.0373	86.8586	107.18	59-130
$ 6 Toluene-d8	81.0373	90.1652	111.26	85-115
$ 7 4-Bromofluorobenze	81.0373	66.3774	81.91*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111908.D
Date : 21-NOV-2010 02:52
Client ID:
Sample Info: HAC5R1AC G0K200425-7 1X;CG;0;;;;;6.17

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111913.D
Lab Smp Id: MAC5V1AC G0K200425-
Inj Date : 21-NOV-2010 04:51
Operator : LB Inst ID: HP11.i
Smp Info : MAC5V1AC G0K200425-9 1X;CG;0;;;;;6.28
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.280	Sample Weight
Cpnd Variable		Local Compound Variable

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	424206	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	321863	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	143386	50.0000	
$ 4 Dibromofluoromethane	111	4.957	4.954	(0.881)	313836	113.624	90.4648
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	261185	107.332	85.4552
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	927719	115.919	92.2921(R)
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	259224	87.7301	69.8488
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111913.D
Lab Smp Id: MAC5V1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	424206	-37.84	
2 Chlorobenzene-d5	526668	263334	1053336	321863	-38.89	
3 1,4 Dichlorobenze	348511	174256	697022	143386	-58.86	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	-0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5V1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

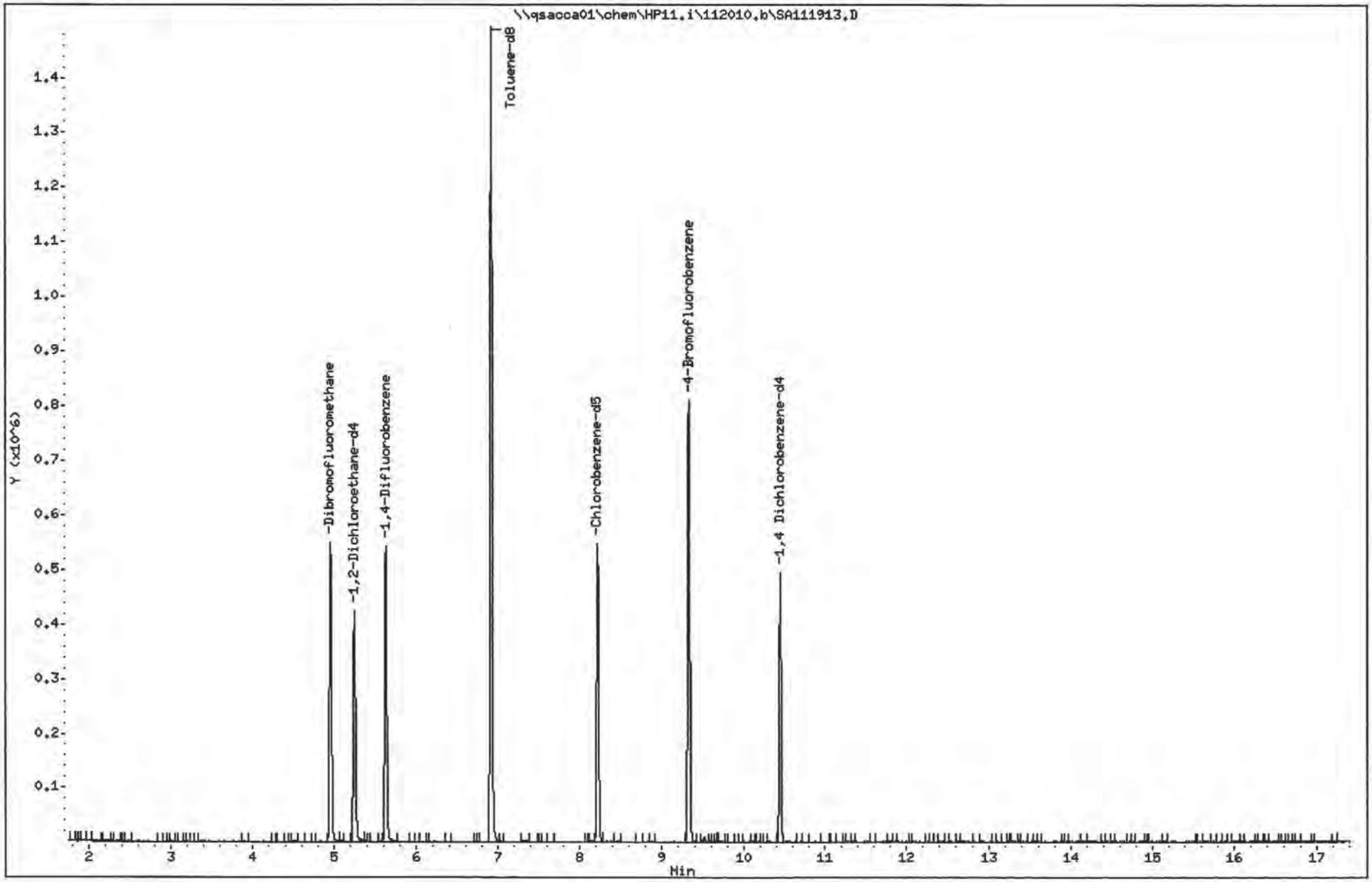
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	79.6178	90.4648	113.62	68-116
$ 5 1,2-Dichloroethane	79.6178	85.4552	107.33	59-130
$ 6 Toluene-d8	79.6178	92.2921	115.92*	85-115
$ 7 4-Bromofluorobenze	79.6178	69.8488	87.73	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111913.D
Date : 21-NOV-2010 04:51
Client ID:
Sample Info: MAC5V1AC G0K200425-9 1X;CG;0;;;;;6.28

Column phase:

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111914.D
Lab Smp Id: MAC571AC G0K200425-
Inj Date : 21-NOV-2010 05:15
Operator : LB Inst ID: HP11.i
Smp Info : MAC571AC G0K200425-10 1X;CG;0;;;;;6.05
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.050	Sample Weight
Cpnd Variable		Local Compound Variable

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	427963	50.0000	
* 2 Chlorobenzene-d5	117	8.224	8.221	(1.000)	314573	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	118229	50.0000	
$ 4 Dibromofluoromethane	111	4.954	4.954	(0.881)	301191	108.088	89.3292
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	252261	102.754	84.9210
$ 6 Toluene-d8	98	6.916	6.916	(1.229)	883410	109.413	90.4243
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.134)	219978	76.1732	62.9530(R)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	2.980	2.974	(0.530)	6430	9.31070	7.69479
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

AB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111914.D
Lab Smp Id: MAC571AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	427963	-37.29	
2 Chlorobenzene-d5	526668	263334	1053336	314573	-40.27	
3 1,4 Dichlorobenze	348511	174256	697022	118229	-66.08	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.04
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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

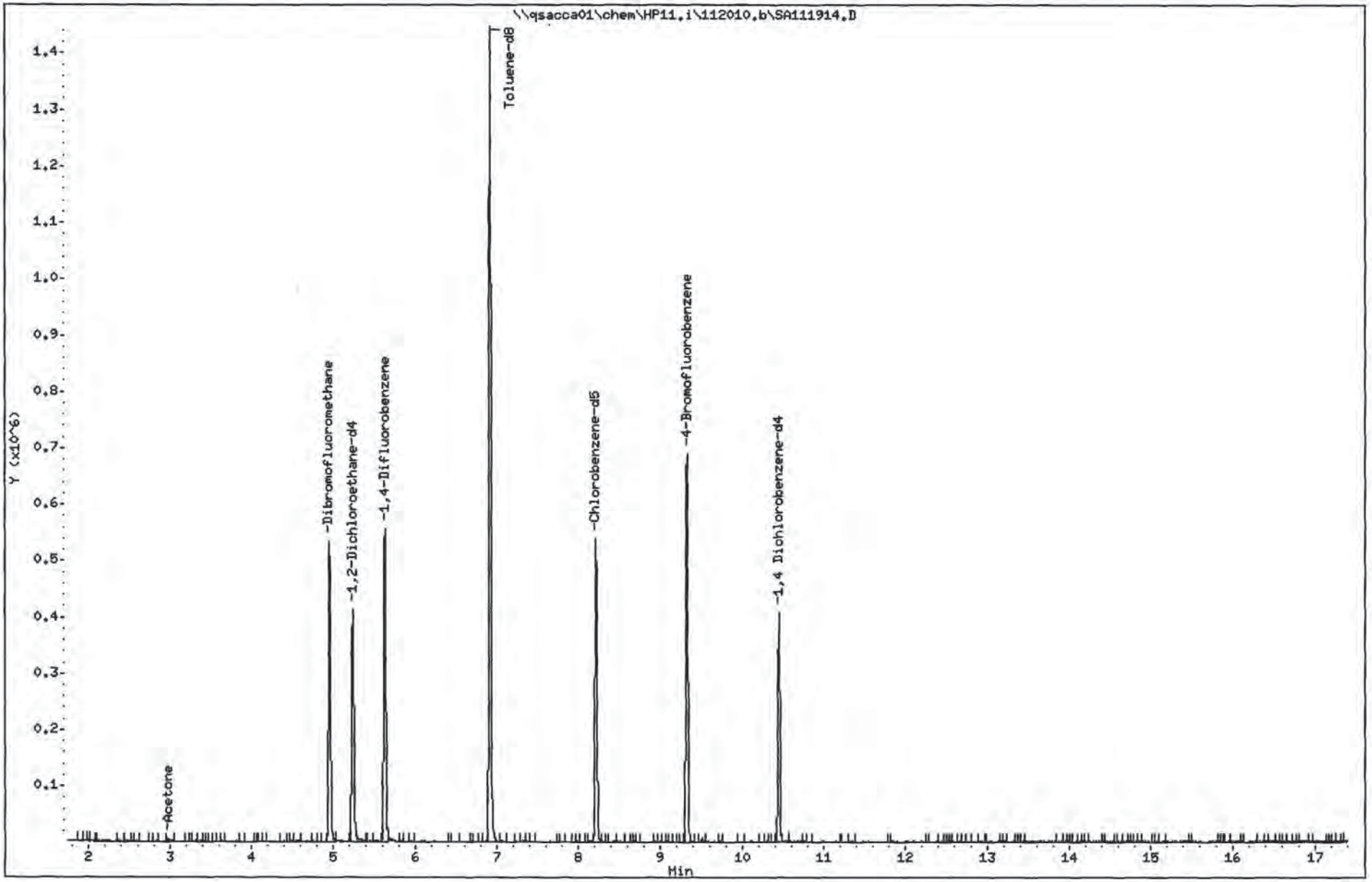
Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC571AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	82.6446	89.3292	108.09	68-116
$ 5 1,2-Dichloroethane	82.6446	84.9210	102.75	59-130
$ 6 Toluene-d8	82.6446	90.4243	109.41	85-115
$ 7 4-Bromofluorobenze	82.6446	62.9530	76.17*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111914.D
Date : 21-NOV-2010 05:15
Client ID:
Sample Info: MAC571AC G0K200425-10 1X;CG;0;;;;;6.05

Instrument: HP11.i

Operator: LB
Column phase:
Column diameter: 0.53



Data File: \\qsacca01\chem\HP11.i\112010.b\SA111914.D

Date : 21-NOV-2010 05:15

Client ID:

Instrument: HP11.i

Sample Info: MAC571AC G0K200425-10 1X;CG;0;;;;;6.05

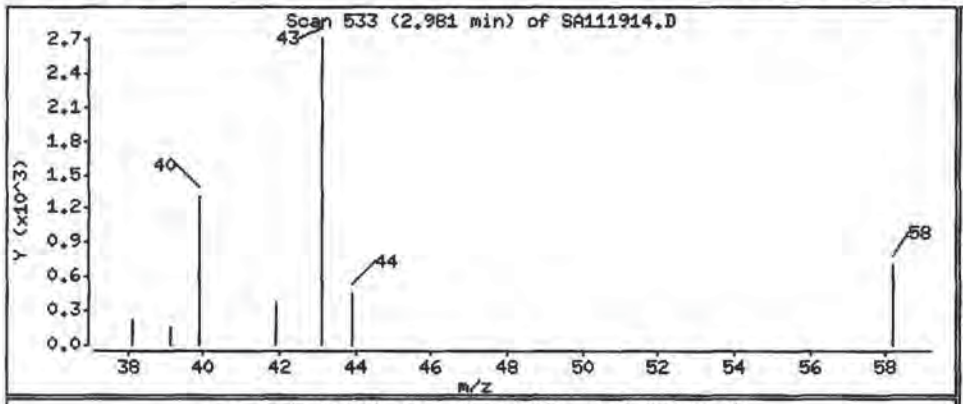
Operator: LB

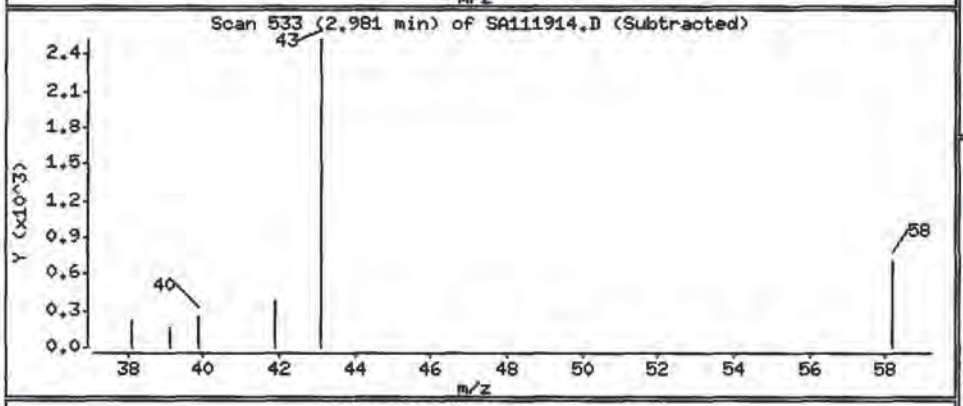
Column phase:

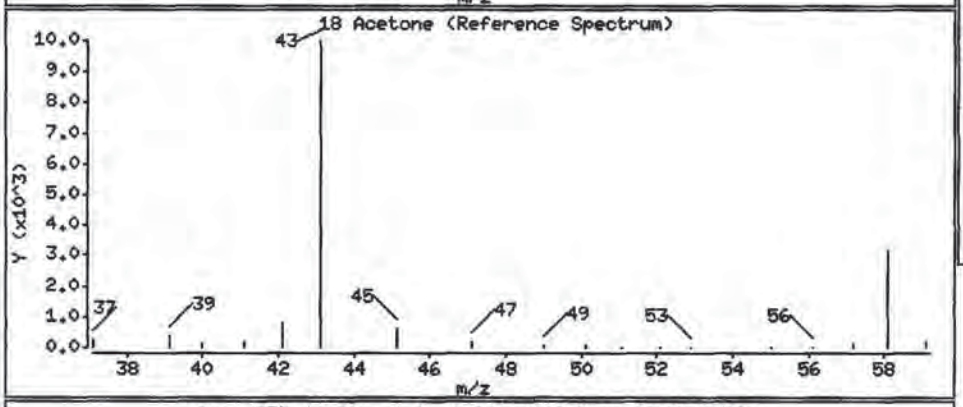
Column diameter: 0.53

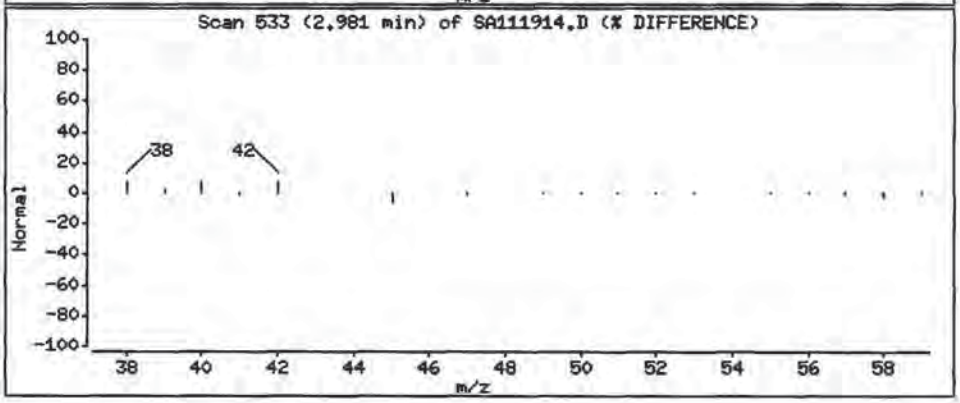
18 Acetone

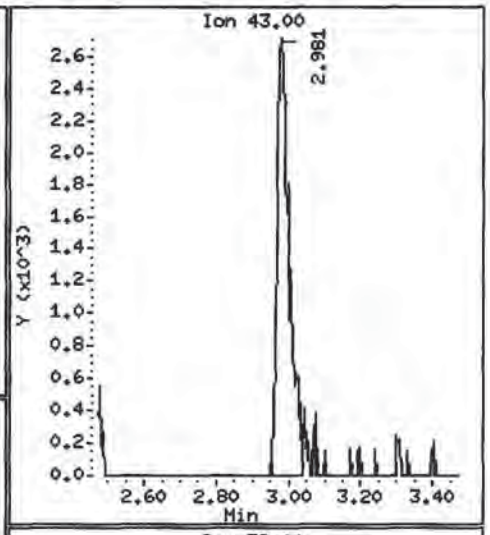
Concentration: 7.69479 ug/Kg

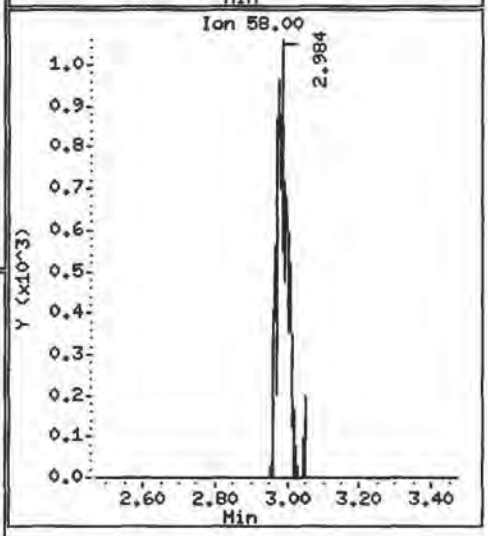












TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111915.D
Lab Smp Id: MAC591AC G0K200425-
Inj Date : 21-NOV-2010 05:39
Operator : LB Inst ID: HP11.i
Smp Info : MAC591AC G0K200425-11 1X;CG;0;;;;;6.24
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.240	Sample Weight
Cpnd Variable		Local Compound Variable

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	462038	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	358052	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.449	10.446	(1.000)	163473	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	324871	107.988	86.5290
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	276101	104.171	83.4704
$ 6 Toluene-d8	98	6.913	6.916	(1.229)	977854	112.179	89.8868
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	281999	85.7918	68.7434
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

JB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111915.D
Lab Smp Id: MAC591AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	462038	-32.30	
2 Chlorobenzene-d5	526668	263334	1053336	358052	-32.02	
3 1,4 Dichlorobenze	348511	174256	697022	163473	-53.09	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	0.03

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:
Sample Matrix: SOLID
Lab Smp Id: MAC591AC G0K200425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	80.1282	86.5290	107.99	68-116
$ 5 1,2-Dichloroethane	80.1282	83.4704	104.17	59-130
$ 6 Toluene-d8	80.1282	89.8868	112.18	85-115
$ 7 4-Bromofluorobenze	80.1282	68.7434	85.79	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111915.D

Date : 21-NOV-2010 05:39

Client ID:

Sample Info: HAC591AC G0K200425-11 1X;CG;0;;;;;6.24

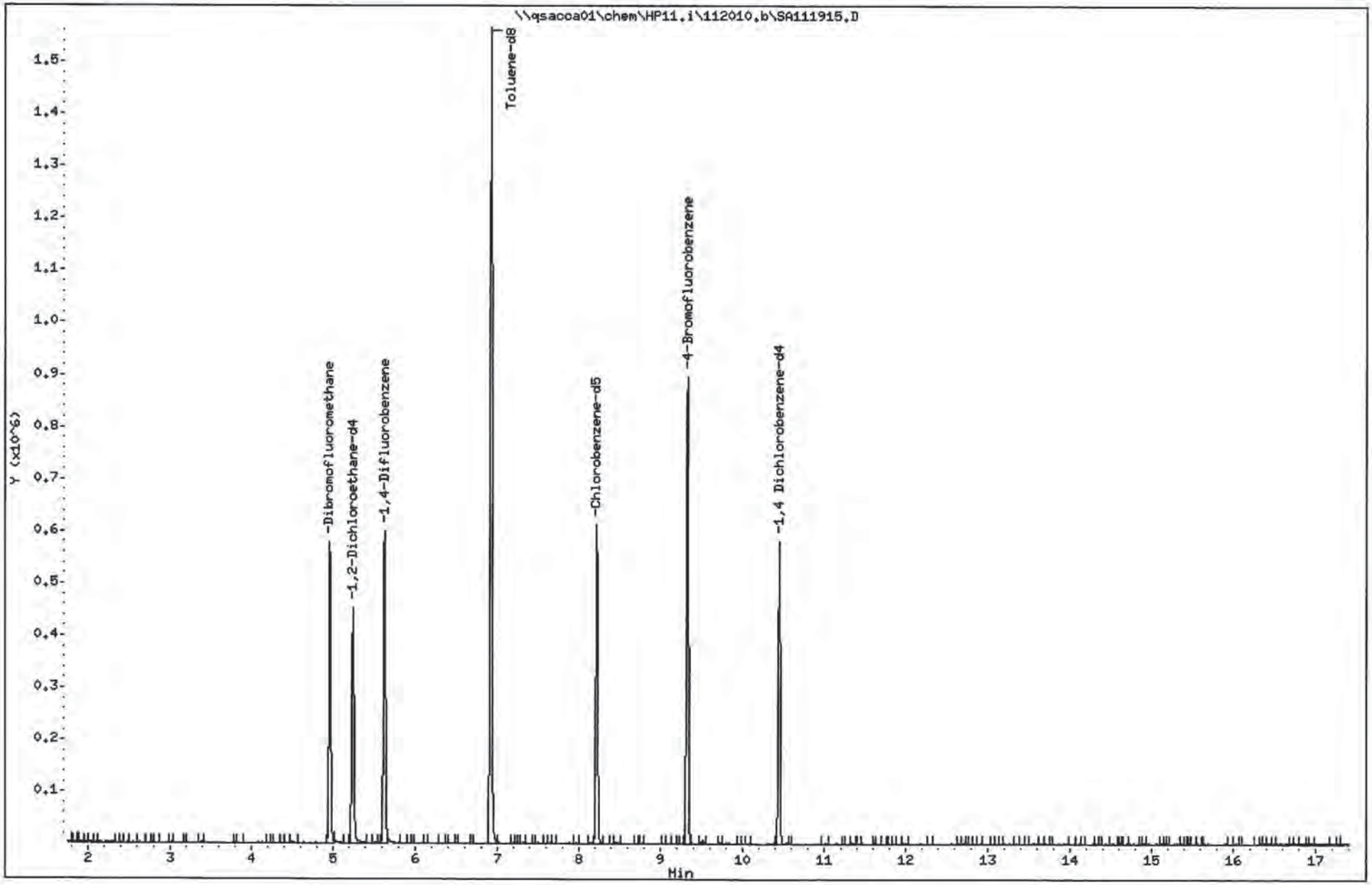
Column phase:

Page 6

Instrument: HP11.i

Operator: LB

Column diameter: 0.53



TestAmerica West Sacramento

VOLATILE REPORT low level 8260

Data file : \\qsacca01\chem\HP11.i\112010.b\SA111916.D
Lab Smp Id: MAC6C1AC G0K200425-
Inj Date : 21-NOV-2010 06:03
Operator : LB Inst ID: HP11.i
Smp Info : MAC6C1AC G0K200425-12 1X;CG;0;;;;;6.55
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment : SOP NO. SAC-MS-0007 rev. 2.0
Method : \\qsacca01\chem\HP11.i\112010.b\8260S.m
Meth Date : 20-Nov-2010 23:07 beldenl Quant Type: ISTD
Cal Date : 17-NOV-2010 16:23 Cal File: HSL111708.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: A4DQKD4.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * x*Uf/Ws * CpndVariable

↓151,2,3

Name	Value	Description
DF	1.000	Dilution Factor
x	5.000	Method Volume Purge
Uf	1.000	ng correction factor
Ws	6.550	Sample Weight
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
* 1 1,4-Difluorobenzene	114	5.626	5.626	(1.000)	52015	50.0000	
* 2 Chlorobenzene-d5	117	8.221	8.221	(1.000)	51375	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.446	10.446	(1.000)	19310	50.0000	
$ 4 Dibromofluoromethane	111	4.958	4.954	(0.881)	39725	117.295	89.5379(R)
$ 5 1,2-Dichloroethane-d4	65	5.247	5.247	(0.933)	38072	127.595	97.4008
$ 6 Toluene-d8	98	6.919	6.916	(1.230)	121347	123.656	94.3938(R)
$ 7 4-Bromofluorobenzene	95	9.327	9.327	(1.135)	30459	64.5815	49.2988(R)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane (**)	50	Compound Not Detected.					
10 Vinyl Chloride (*)	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene(*)	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene Chloride	84	Compound Not Detected.					
23 t-Butanol	59	Compound Not Detected.					
25 Methyl-t-butyl-ether	73	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					

LB 11/21/10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
27 Acrylonitrile	53	Compound Not Detected.					
30 1,1-Dichloroethane (**)	63	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
33 2,2-Dichloropropane	77	Compound Not Detected.					
35 cis 1,2-Dichloroethene	96	Compound Not Detected.					
38 2-Butanone	43	Compound Not Detected.					
40 Bromochloromethane	128	Compound Not Detected.					
41 Chloroform (*)	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
43 Carbon Tetrachloride	117	Compound Not Detected.					
44 1,1-Dichloropropene	75	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	95	Compound Not Detected.					
51 1,2-Dichloropropane(*)	63	Compound Not Detected.					
52 Dibromomethane	93	Compound Not Detected.					
53 1,4-Dioxane	88	Compound Not Detected.					
54 Bromodichloromethane	83	Compound Not Detected.					
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
56 cis-1,3-Dichloropropene (xtr)	75	Compound Not Detected.					
57 4-Methyl-2-pentanone	43	Compound Not Detected.					
58 Toluene (*)	92	Compound Not Detected.					
60 trans-1,3-Dichloropropene(xt)	75	Compound Not Detected.					
61 1,1,2-Trichloroethane	97	Compound Not Detected.					
62 Tetrachloroethene	166	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 2-Hexanone	43	Compound Not Detected.					
65 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
67 1-Chlorohexane	91	Compound Not Detected.					
68 Chlorobenzene (**)	112	Compound Not Detected.					
69 Ethylbenzene (*)	106	Compound Not Detected.					
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
71 Xylenes (m,p)	106	Compound Not Detected.					
72 Xylene (o)	106	Compound Not Detected.					
73 Styrene	104	Compound Not Detected.					
74 Bromoform (**)	173	Compound Not Detected.					
75 Isopropylbenzene	105	Compound Not Detected.					
77 Bromobenzene	156	Compound Not Detected.					
78 1,1,2,2-Tetrachloroethane(**)	83	Compound Not Detected.					
79 N-Propylbenzene	91	Compound Not Detected.					
80 1,2,3-Trichloropropane	110	Compound Not Detected.					
81 2-Chlorotoluene	91	Compound Not Detected.					
82 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 4-Chlorotoluene	91	Compound Not Detected.					
84 T-Butylbenzene	119	Compound Not Detected.					
85 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
86 Sec-Butylbenzene	105	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 P-Isopropyltoluene	119	Compound Not Detected.					
89 1,4-Dichlorobenzene	146	Compound Not Detected.					
90 N-Butylbenzene	91	Compound Not Detected.					
91 1,2-Dichlorobenzene	146	Compound Not Detected.					
92 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/KG)	FINAL (ug/Kg)
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	94 Hexachlorobutadiene	225	Compound Not Detected.					
	95 Naphthalene	128	Compound Not Detected.					
	96 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
M	97 1,2-Dichloroethene (Total)	96	Compound Not Detected.					
M	98 Xylenes (Total)	106	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: HP11.i
Lab File ID: SA111916.D
Lab Smp Id: MAC6C1AC G0K200425-
Analysis Type: VOA
Quant Type: ISTD
Operator: LB
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Calibration Date: 20-NOV-2010
Calibration Time: 22:03

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
1 1,4-Difluorobenze	682444	341222	1364888	52015	-92.38	<
2 Chlorobenzene-d5	526668	263334	1053336	51375	-90.25	<
3 1,4 Dichlorobenze	348511	174256	697022	19310	-94.46	<

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Difluorobenze	5.62	5.12	6.12	5.63	0.06
2 Chlorobenzene-d5	8.22	7.72	8.72	8.22	0.00
3 1,4 Dichlorobenze	10.45	9.95	10.95	10.45	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

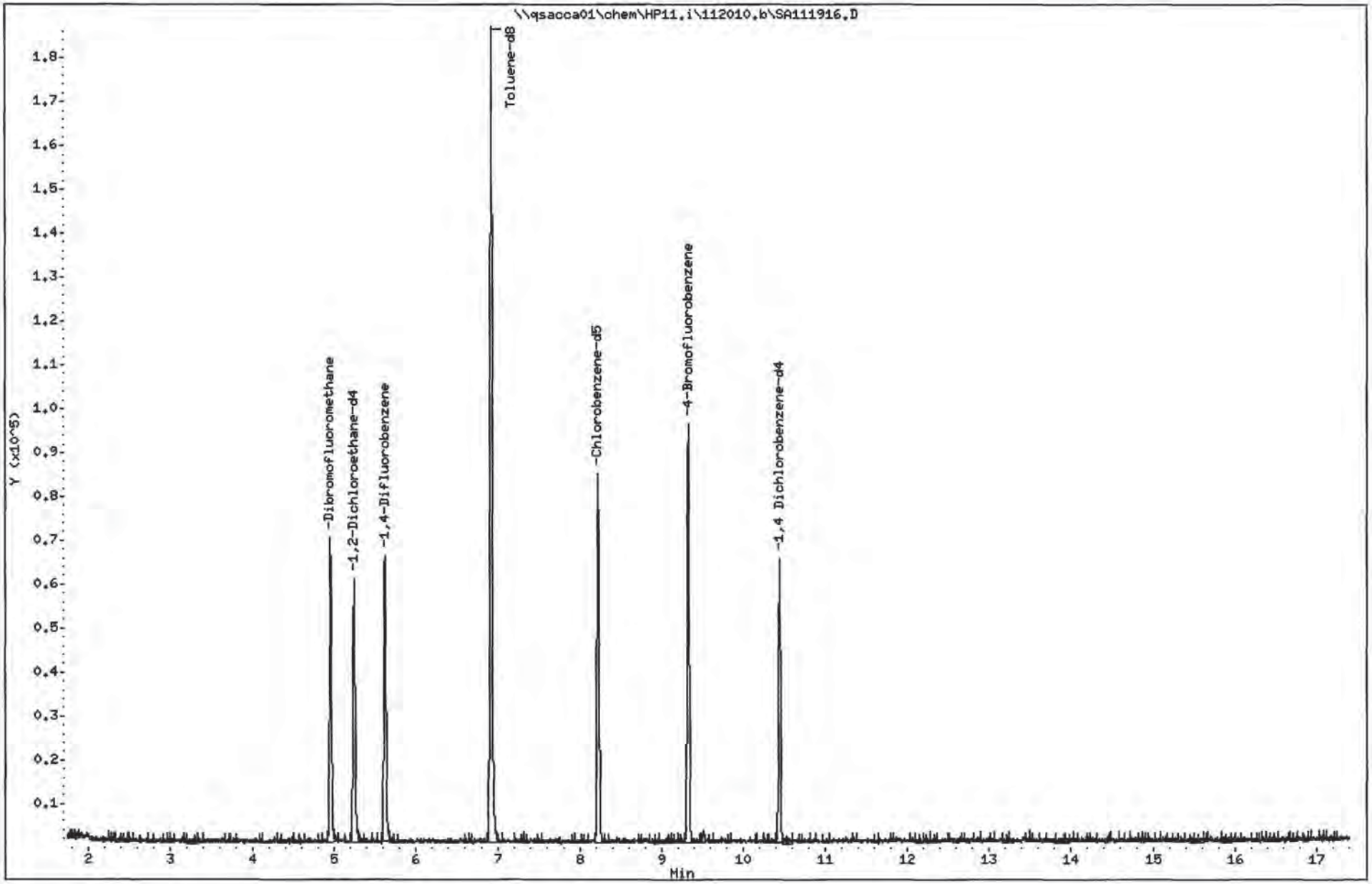
Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC6C1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	76.3359	89.5379	117.29*	68-116
$ 5 1,2-Dichloroethane	76.3359	97.4008	127.59	59-130
$ 6 Toluene-d8	76.3359	94.3938	123.66*	85-115
$ 7 4-Bromofluorobenze	76.3359	49.2988	64.58*	85-120

Data File: \\qsacca01\chem\HP11.i\112010.b\SA111916.D
Date : 21-NOV-2010 06:03
Client ID:
Sample Info: MAC6C1AC G0K200425-12 1X;CG;0;;;;;6.55

Instrument: HP11.i

Operator: LB
Column phase:
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111901.D
Lab Smp Id: MAC5T1AC G0K200425-
Inj Date : 21-NOV-2010 00:05
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AC G0K200425-8 1X;CG;0;;;;;6.17
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.170	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1013286			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1006559			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	865282			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	1068033			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	829157			(a)
5 Toluene-d8	6.916	6.913	0.003	2658122			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1382974			(a)
S 147 8015B (GRO)	3.340-10.165			28263	1.11947	0.907	
S 148 AK101	3.830-9.650			21924	1.08280	0.877	
S 149 CALUFT	5.300-12.050			33520	1.64851	1.34	
S 150 NWTPH-Gx	6.870-12.730			33520	1.86732	1.51	
S 151 Gas C6-C12	3.830-12.050			33520	1.32678	1.08	
S 152 GAS C6-C10	3.830-9.800			28263	1.36188	1.10	(a)

LB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5T1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	81.0373	90.4857	111.66	68-116
$ 5 1,2-Dichloroethane	81.0373	85.5856	105.61	59-130
$ 6 Toluene-d8	81.0373	91.7805	113.26	85-115
$ 7 4-Bromofluorobenze	81.0373	70.4413	86.92	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111901.D
Lab Smp Id: MAC5T1AC G0K200425-
Inj Date : 21-NOV-2010 00:05
Operator : LB Inst ID: HP11.i
Smp Info : MAC5T1AC G0K200425-8 1X;CG;0;;;;;6.17
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.170	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.502	107056	30057	0.281	1.19	
4.958	1068034	590604	0.553	11.90	1 Dibromofluoromethan
5.248	829157	467021	0.563	9.24	2 1,2-Dichloroethane-
5.627	1013287	594477	0.587	11.29	3 1,4-Difluorobenzene
6.740	21925	12368	0.564	0.24	S 148 AK101
6.753	28263	15440	0.546	0.31	S 147 8015B (GRO)
6.815	28263	15440	0.546	0.31	S 152 GAS C6-C10
7.321	4913	2076	0.423		
8.141	5291	2948	0.557		
9.514	11720	7344	0.627		
9.714	6338	3072	0.485		
6.916	2658122	1577222	0.593	28.10	5 Toluene-d8
7.940	33521	18576	0.554	0.37	S 151 Gas C6-C12
11.337	5258	3136	0.596		
8.222	1006560	610658	0.607	11.22	6 Chlorobenzene-d5

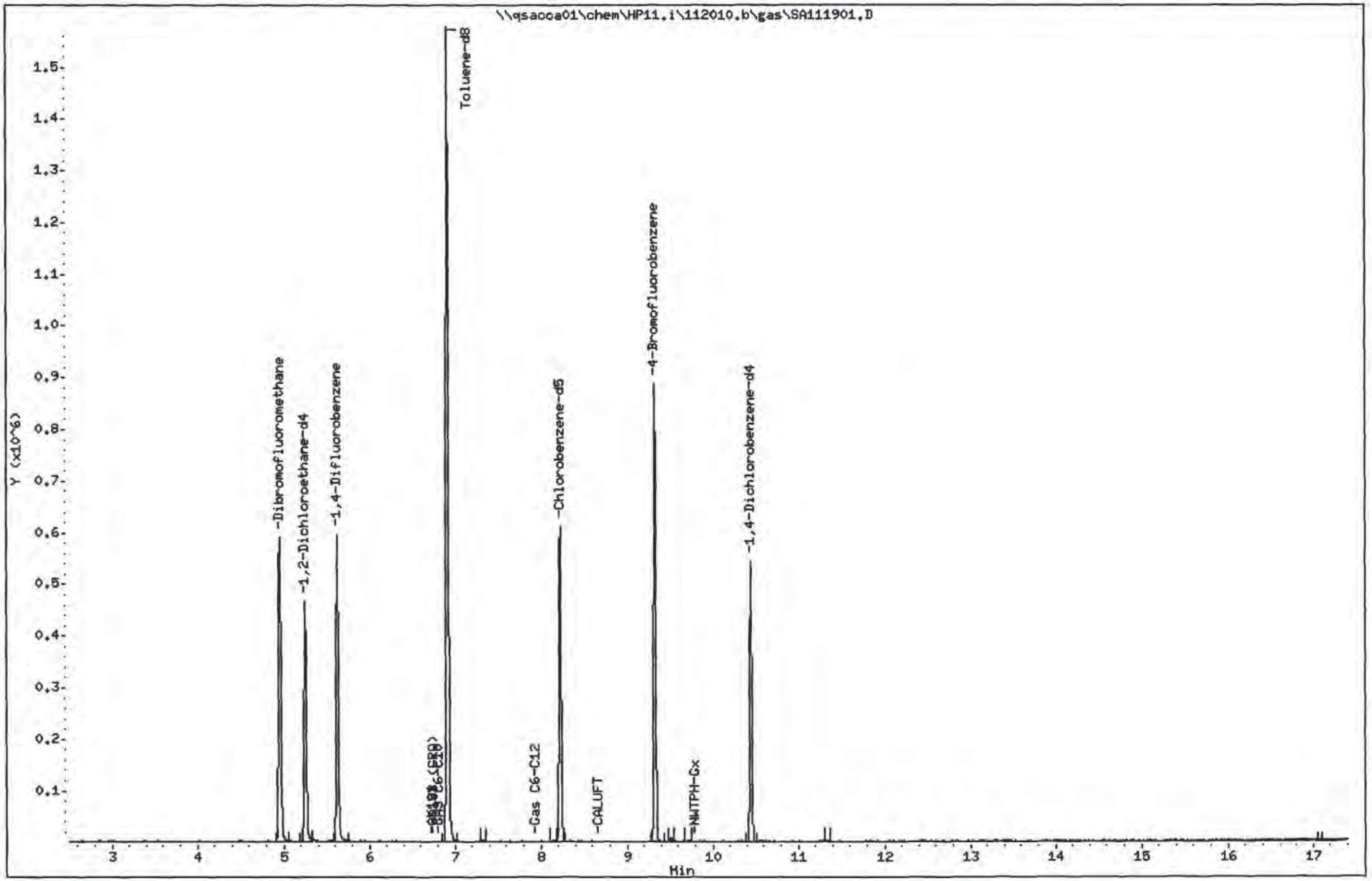
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.675	33521	18576	0.554	0.37	S 149 CALUFT
9.328	1382974	887458	0.642	15.42	7 4-Bromofluorobenzen
9.800	33521	18576	0.554	0.37	S 150 NWTPH-Gx
10.450	865282	541572	0.626	9.64	8 1,4-Dichlorobenzene
17.067	3551	2413	0.679	0.03	
	8967544	5320058		100.000	

Total unknown % area = 1.22

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111901.D
Date : 21-NOV-2010 00:05
Client ID:
Sample Info: HAC5T1AC G0K200425-8 1X;CG;0;;;;;6.17

Instrument: HP11.i

Operator: LB
Column phase: J&W DB-624
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111902.D
Lab Smp Id: MAC5G1AC G0K200425-
Inj Date : 21-NOV-2010 00:29
Operator : LB Inst ID: HP11.i
Smp Info : MAC5G1AC G0K200425-1 1X;CG;0;;;;;5.31
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.310	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1042769			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1045175			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	931914			(a)
1 Dibromofluoromethane	4.957	4.954	0.003	1031200			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	813518			(a)
5 Toluene-d8	6.916	6.913	0.003	2590257			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1370462			(a)
S 147 8015B (GRO)	3.340-10.165			23510	0.93121	0.877	
S 148 AK101	3.830-9.650			18240	0.90085	0.848	
S 149 CALUFT	5.300-12.050			26652	1.31074	1.23	
S 150 NWTPH-Gx	6.870-12.730			26652	1.48472	1.40	
S 151 Gas C6-C12	3.830-12.050			26652	1.05493	0.993	
S 152 GAS C6-C10	3.830-9.800			23510	1.13285	1.07	(a)

LB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5G1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	94.1620	97.8896	103.96	68-116
$ 5 1,2-Dichloroethane	94.1620	94.0227	99.85	59-130
$ 6 Toluene-d8	94.1620	100.400	106.62	85-115
$ 7 4-Bromofluorobenze	94.1620	78.2438	83.09*	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111902.D
Lab Smp Id: MAC5G1AC G0K200425-
Inj Date : 21-NOV-2010 00:29
Operator : LB Inst ID: HP11.i
Smp Info : MAC5G1AC G0K200425-1 1X;CG;0;;;;;5.31
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.310	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.611	50011	11415	0.228	0.56	
4.958	1031201	571010	0.554	11.58	1 Dibromofluoromethan
5.247	813518	455045	0.559	9.13	2 1,2-Dichloroethane-
5.627	1042770	619731	0.594	11.71	3 1,4-Difluorobenzene
6.740	18240	9851	0.540	0.20	S 148 AK101
6.753	23511	12444	0.529	0.26	S 147 8015B (GRO)
6.815	23511	12444	0.529	0.26	S 152 GAS C6-C10
7.328	3235	2138	0.661		
8.141	4365	2487	0.570		
9.514	10640	5226	0.491		
9.710	5271	2593	0.492		
6.916	2590257	1554540	0.600	27.84	5 Toluene-d8
7.940	26653	14226	0.534	0.29	S 151 Gas C6-C12
10.308	3142	1782	0.567		
8.221	1045176	643356	0.616	11.74	6 Chlorobenzene-d5

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.675	26653	14226	0.534	0.29	S 149 CALUFT
9.328	1370462	871551	0.636	15.39	7 4-Bromofluorobenzen
9.800	26653	14226	0.534	0.29	S 150 NWTPH-Gx
10.450	931915	588583	0.632	10.46	8 1,4-Dichlorobenzene
	8901963	5329457		100.000	

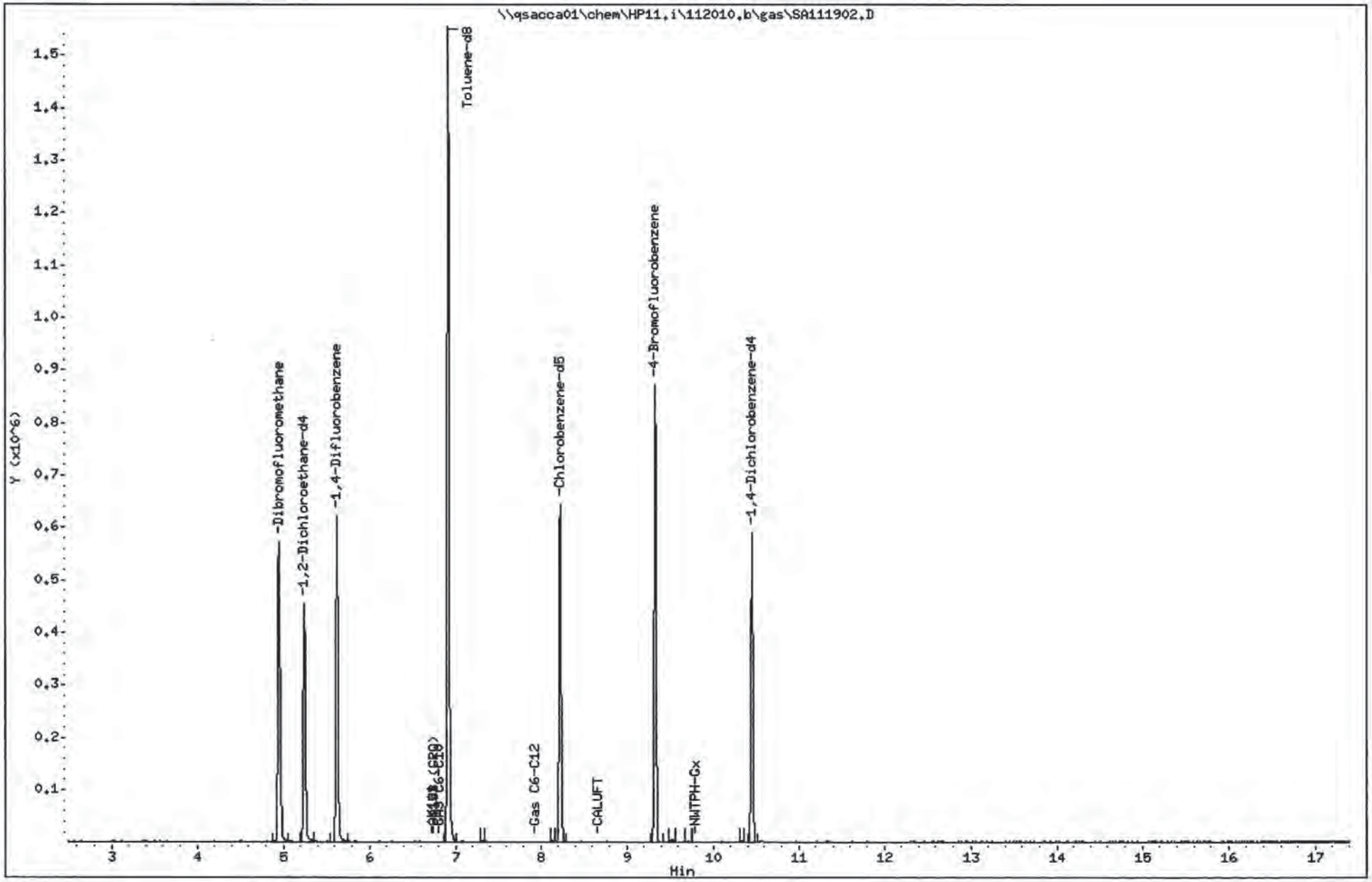
Total unknown % area = 0.560

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111902.D
Date : 21-NOV-2010 00:29
Client ID:
Sample Info: MAC5G1AC G0K200425-1 1X;CG;0;;;;;5.31

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111903.D
Lab Smp Id: MAC5K1AC G0K200425-
Inj Date : 21-NOV-2010 00:53
Operator : LB Inst ID: HP11.i
Smp Info : MAC5K1AC G0K200425-2 1X;CG;0;;;;;5.73
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.730	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	942029			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	940776			(a)
8 1,4-Dichlorobenzene-d4	10.446	10.446	0.000	799143			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	1007132			(a)
2 1,2-Dichloroethane-d4	5.250	5.244	0.006	803562			(a)
5 Toluene-d8	6.916	6.913	0.003	2541616			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1290270			(a)
S 147 8015B (GRO)	3.340-10.165			27980	1.10826	0.967	
S 148 AK101	3.830-9.650			22586	1.11550	0.973	
S 149 CALUFT	5.300-12.050			32729	1.60961	1.40	
S 150 NWTPH-Gx	6.870-12.730			32729	1.82325	1.59	
S 151 Gas C6-C12	3.830-12.050			32729	1.29547	1.13	
S 152 GAS C6-C10	3.830-9.800			27980	1.34824	1.18	(a)

AB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5K1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	87.2600	96.9226	111.07	68-116
$ 5 1,2-Dichloroethane	87.2600	94.2751	108.04	59-130
$ 6 Toluene-d8	87.2600	99.5651	114.10	85-115
$ 7 4-Bromofluorobenze	87.2600	75.7857	86.85	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111903.D
Lab Smp Id: MAC5K1AC G0K200425-
Inj Date : 21-NOV-2010 00:53
Operator : LB Inst ID: HP11.i
Smp Info : MAC5K1AC G0K200425-2 1X;CG;0;;;;;5.73
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.730	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.505	78028	18913	0.242	0.92	
1.910	3557	2362	0.664	0.04	
4.958	1007133	563489	0.559	11.93	1 Dibromofluoromethan
5.251	803563	442382	0.551	9.52	2 1,2-Dichloroethane-
5.627	942030	570618	0.606	11.16	3 1,4-Difluorobenzene
6.740	22586	13175	0.583	0.26	S 148 AK101
6.753	27981	15765	0.563	0.33	S 147 8015B (GRO)
6.815	27981	15765	0.563	0.33	S 152 GAS C6-C10
7.315	3818	1966	0.515		
8.154	3490	2386	0.684		
8.472	3539	2052	0.580		
9.514	11740	6771	0.577		
9.717	5394	2590	0.480		
6.916	2541616	1537161	0.605	28.49	5 Toluene-d8
7.940	32730	17668	0.540	0.38	S 151 Gas C6-C12
11.340	4749	1903	0.401		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.222	940776	569505	0.605	11.14	6 Chlorobenzene-d5
8.675	32730	17668	0.540	0.38	S 149 CALUFT
9.328	1290271	826447	0.641	15.28	7 4-Bromofluorobenzen
9.800	32730	17668	0.540	0.38	S 150 NWTPH-Gx
10.447	799143	505053	0.632	9.46	8 1,4-Dichlorobenzene
	8438846	5053598		100.000	

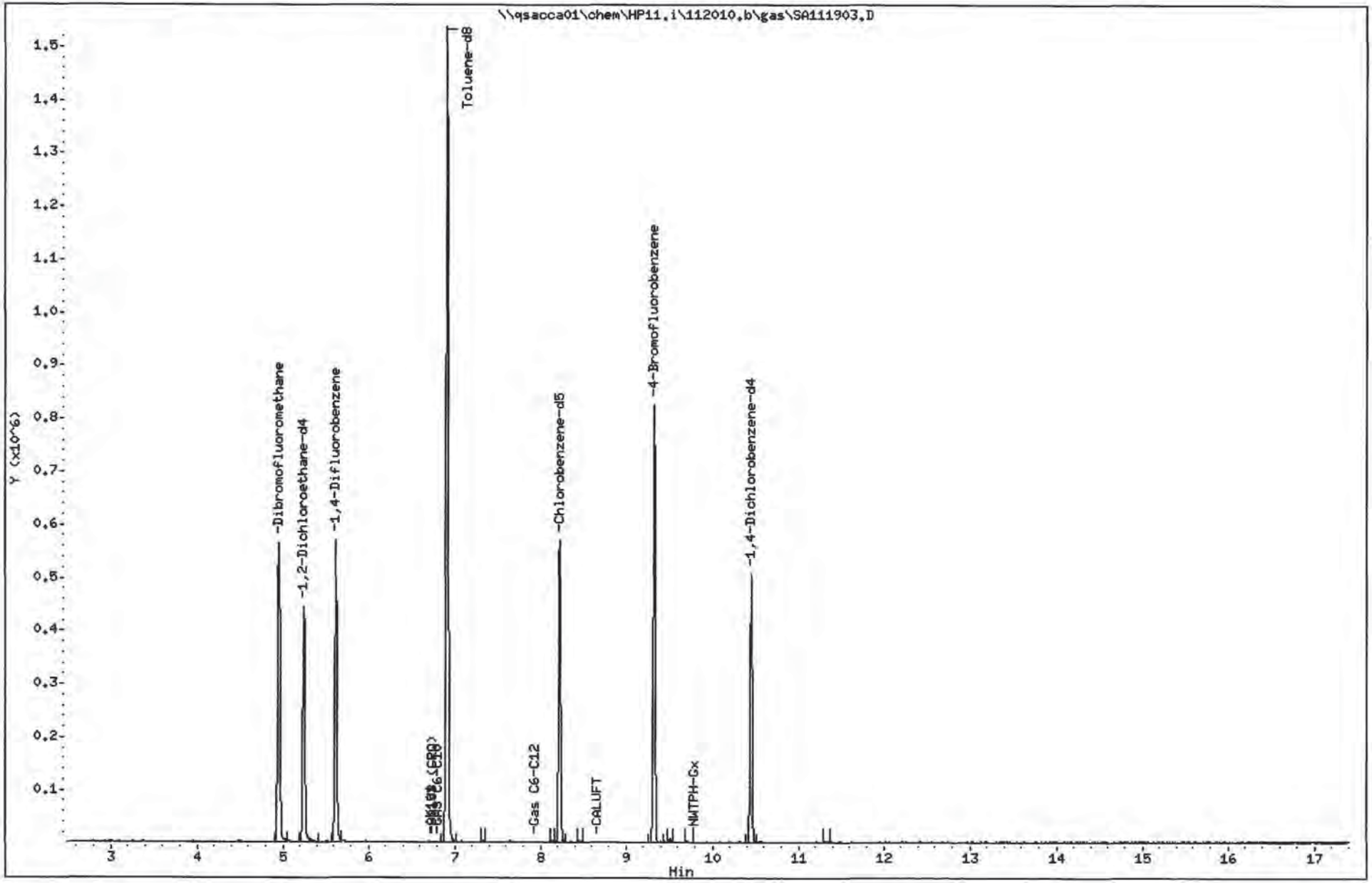
Total unknown % area = 0.960

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111903.D
Date : 21-NOV-2010 00:53
Client ID:
Sample Info: MAC5K1AC G0K200425-2 1X;CG;0;;;;;5.73

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111904.D
Lab Smp Id: MAC5L1AC G0K200425-
Inj Date : 21-NOV-2010 01:16
Operator : LB Inst ID: HP11.i
Smp Info : MAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.410	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	984927			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1002969			(a)
8 1,4-Dichlorobenzene-d4	10.446	10.446	0.000	945098			(a)
1 Dibromofluoromethane	4.957	4.954	0.003	1005666			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	798088			(a)
5 Toluene-d8	6.916	6.913	0.003	2519878			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1377254			(a)
S 147 8015B (GRO)	3.340-10.165			32149	1.27339	0.993	
S 148 AK101	3.830-9.650			22099	1.09144	0.851	
S 149 CALUFT	5.300-12.050			22283	1.09588	0.855	
S 150 NWTPH-Gx	6.870-12.730			22283	1.24133	0.968	
S 151 Gas C6-C12	3.830-12.050			28105	1.11245	0.868	
S 152 GAS C6-C10	3.830-9.800			28105	1.35427	1.06	(a)

JB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5L1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	78.0031	84.4335	108.24	68-116
$ 5 1,2-Dichloroethane	78.0031	80.8471	103.65	59-130
$ 6 Toluene-d8	78.0031	86.4207	110.79	85-115
$ 7 4-Bromofluorobenze	78.0031	67.6396	86.71	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111904.D
Lab Smp Id: MAC5L1AC G0K200425-
Inj Date : 21-NOV-2010 01:16
Operator : LB Inst ID: HP11.i
Smp Info : MAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.410	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.505	71843	15194	0.211	0.82	
1.833	6697	2560	0.382	0.07	
2.977	16568	6777	0.409	0.18	
4.958	1005667	553280	0.550	11.47	1 Dibromofluoromethan
5.247	798088	439964	0.551	9.10	2 1,2-Dichloroethane-
5.627	984927	588028	0.597	11.24	3 1,4-Difluorobenzene
6.740	22100	10799	0.489	0.25	S 148 AK101
6.753	32149	15936	0.496	0.36	S 147 8015B (GRO)
3.389	4044	2616	0.647		
6.815	28106	13320	0.474	0.32	S 152 GAS C6-C10
4.562	5822	2735	0.470		
8.148	5015	2323	0.463		
9.514	11263	5741	0.510		
9.717	6006	2521	0.420		
6.916	2519879	1546077	0.614	27.43	5 Toluene-d8
7.940	28106	13320	0.474	0.32	S 151 Gas C6-C12

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.221	1002969	601148	0.599	11.44	6 Chlorobenzene-d5
8.675	22283	10585	0.475	0.25	S 149 CALUFT
9.328	1377255	866197	0.629	15.72	7 4-Bromofluorobenzen
9.800	22283	10585	0.475	0.25	S 150 NWTPH-Gx
10.446	945098	597956	0.633	10.78	8 1,4-Dichlorobenzene
	8761141	5233117		100.000	

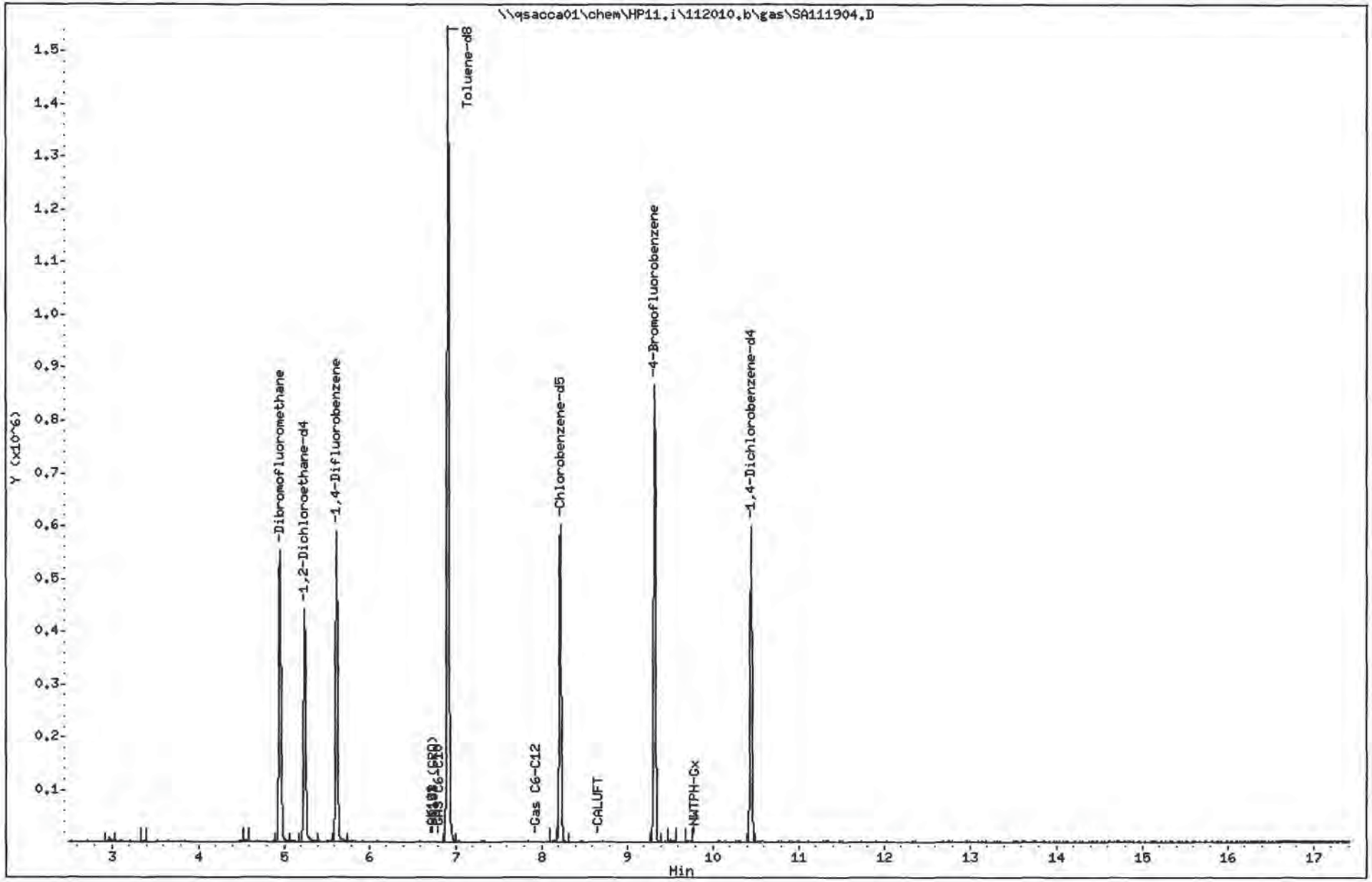
Total unknown % area = 1.07

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111904.D
Date : 21-NOV-2010 01:16
Client ID:
Sample Info: MAC5L1AC G0K200425-3 1X;CG;0;;;;;6.41

Instrument: HP11.i

Operator: LB
Column diameter: 0.53

Column phase: J&W DB-624



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111905.D
Lab Smp Id: MAC5M1AC G0K200425-
Inj Date : 21-NOV-2010 01:40
Operator : LB Inst ID: HP11.i
Smp Info : MAC5M1AC G0K200425-4 1X;CG;0;;;;;5.87
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.870	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	178325			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	207819			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	159279			(a)
1 Dibromofluoromethane	4.957	4.954	0.003	184495			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	159528			(a)
5 Toluene-d8	6.916	6.913	0.003	495499			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	227451			(a)
S 147 8015B (GRO)	3.340-10.165			4834	0.19147	0.163	
S 148 AK101	3.830-9.650			4834	0.23875	0.203	
S 149 CALUFT	5.300-12.050			4834	0.23774	0.202	
S 150 NWTPH-Gx	6.870-12.730			4834	0.26929	0.229	
S 151 Gas C6-C12	3.830-12.050			4834	0.19134	0.163	
S 152 GAS C6-C10	3.830-9.800			4834	0.23293	0.198	(a)

LB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5M1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	85.1789	95.1216	111.67	68-116
$ 5 1,2-Dichloroethane	85.1789	98.0680	115.13	59-130
$ 6 Toluene-d8	85.1789	102.483	120.31*	85-115
$ 7 4-Bromofluorobenze	85.1789	58.5950	68.79*	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111905.D
Lab Smp Id: MAC5M1AC G0K200425-
Inj Date : 21-NOV-2010 01:40
Operator : LB Inst ID: HP11.i
Smp Info : MAC5M1AC G0K200425-4 1X;CG;0;;;;;5.87
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	5.870	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.964	7191	2360	0.328	0.44	
4.958	184495	101928	0.552	11.35	1 Dibromofluoromethan
5.247	159528	84625	0.530	9.82	2 1,2-Dichloroethane-
5.627	178326	102782	0.576	10.97	3 1,4-Difluorobenzene
6.740	4834	2948	0.610	0.29	S 148 AK101
6.753	4834	2948	0.610	0.29	S 147 8015B (GRO)
6.815	4834	2948	0.610	0.29	S 152 GAS C6-C10
9.508	4834	2948	0.610		
6.916	495499	289905	0.585	29.09	5 Toluene-d8
7.940	4834	2948	0.610	0.29	S 151 Gas C6-C12
8.221	207819	120215	0.578	12.79	6 Chlorobenzene-d5
8.675	4834	2948	0.610	0.29	S 149 CALUFT
9.328	227451	142165	0.625	14.00	7 4-Bromofluorobenzen

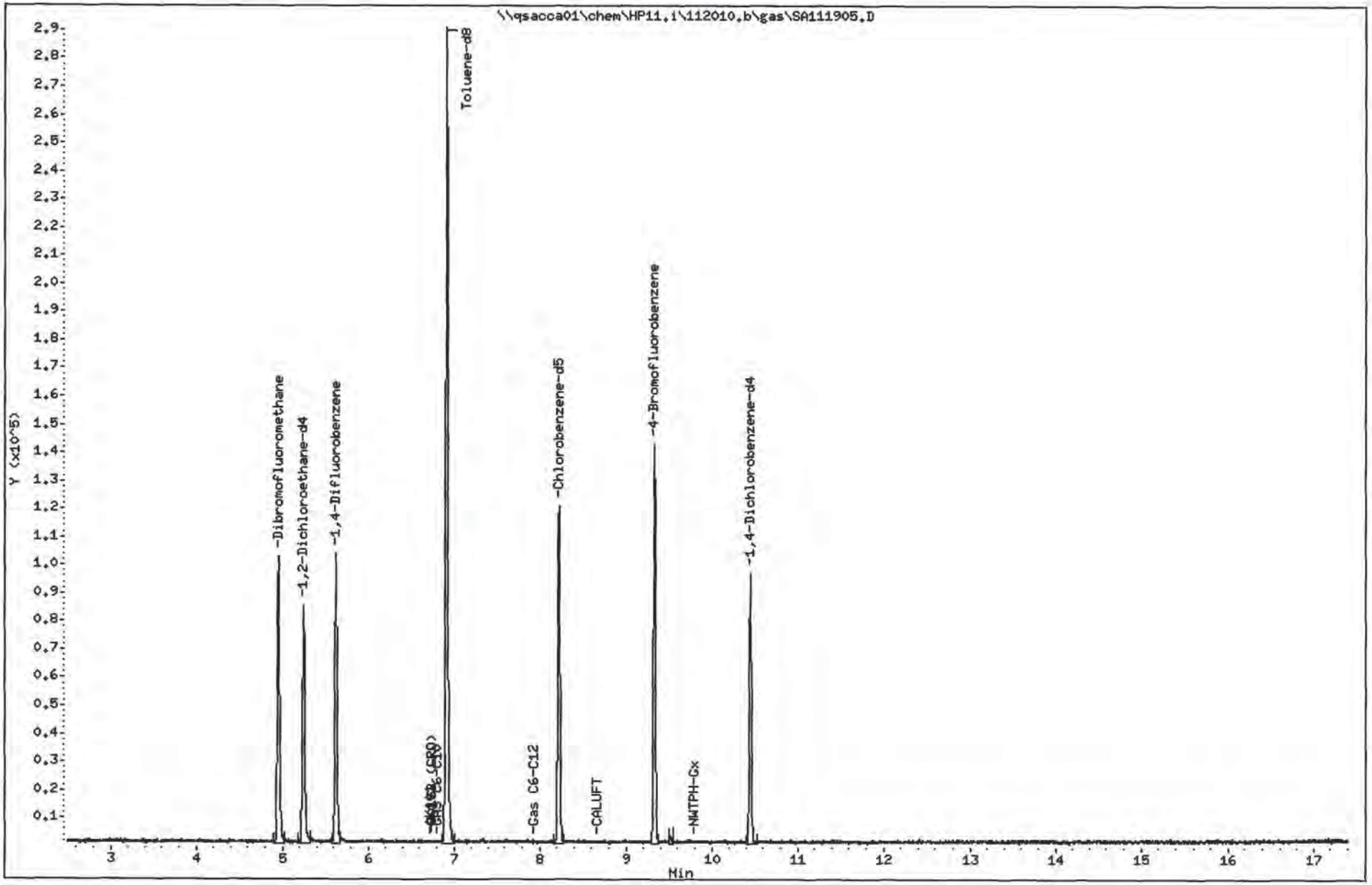
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.800	4834	2948	0.610	0.29	S 150 NWTPH-Gx
10.450	159280	96351	0.605	9.80	8 1,4-Dichlorobenzene
	1624423	943279		100.000	

Total unknown % area = 0.440

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111905.D
Date : 21-NOV-2010 01:40
Client ID:
Sample Info: MAC5M1AC G0K200425-4 1X;CG;0;;;;;5.87

Instrument: HP11.i

Operator: LB
Column phase: J&W DB-624
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111906.D
Lab Smp Id: MAC5N1AC G0K200425-
Inj Date : 21-NOV-2010 02:04
Operator : LB Inst ID: HP11.i
Smp Info : MAC5N1AC G0K200425-5 1X;CG;0;;;;;6.52
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.520	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
3 1,4-Difluorobenzene	5.626	5.623	0.003	754341		(a)
6 Chlorobenzene-d5	8.224	8.221	0.003	752652		(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	636184		(a)
1 Dibromofluoromethane	4.958	4.954	0.004	829346		(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	666094		(a)
5 Toluene-d8	6.916	6.913	0.003	2041921		(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1024113		(a)
S 147 8015B (GRO)	3.340-10.165			20886	0.82727	0.634
S 148 AK101	3.830-9.650			17689	0.87364	0.670
S 149 CALUFT	5.300-12.050			16152	0.79436	0.609
S 150 NWTPH-Gx	6.870-12.730			16152	0.89979	0.690
S 151 Gas C6-C12	3.830-12.050			20886	0.82671	0.634
S 152 GAS C6-C10	3.830-9.800			20886	1.00641	0.772(a)

QC Flag Legend

2B 11/21/10

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5N1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	76.6871	88.7206	115.69	68-116
$ 5 1,2-Dichloroethane	76.6871	87.5233	114.13	59-130
$ 6 Toluene-d8	76.6871	89.0241	116.09*	85-115
$ 7 4-Bromofluorobenze	76.6871	66.0038	86.07	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111906.D
Lab Smp Id: MAC5N1AC G0K200425-
Inj Date : 21-NOV-2010 02:04
Operator : LB Inst ID: HP11.i
Smp Info : MAC5N1AC G0K200425-5 1X;CG;0;;;;;6.52
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.520	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.781	3713	2285	0.615	0.05	
1.958	4352	2479	0.570	0.06	
4.958	829347	459529	0.554	12.30	1 Dibromofluoromethan
5.248	666094	375992	0.564	9.88	2 1,2-Dichloroethane-
5.627	754341	455693	0.604	11.19	3 1,4-Difluorobenzene
6.740	17689	9895	0.559	0.26	S 148 AK101
6.753	20886	12040	0.576	0.30	S 147 8015B (GRO)
6.815	20886	12040	0.576	0.30	S 152 GAS C6-C10
4.489	4734	2592	0.548		
8.151	3116	1952	0.626		
9.514	9839	5351	0.544		
9.717	3197	2145	0.671		
6.916	2041921	1241052	0.608	29.02	5 Toluene-d8
7.940	20886	12040	0.576	0.30	S 151 Gas C6-C12
8.225	752652	451887	0.600	11.16	6 Chlorobenzene-d5

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.675	16152	9448	0.585	0.23	S 149 CALUFT
9.328	1024114	658977	0.643	15.19	7 4-Bromofluorobenzen
9.800	16152	9448	0.585	0.23	S 150 NWTPH-Gx
10.450	636185	399622	0.628	9.43	8 1,4-Dichlorobenzene
16.610	7138	1670	0.234	0.10	
	6740744	4061226		100.000	

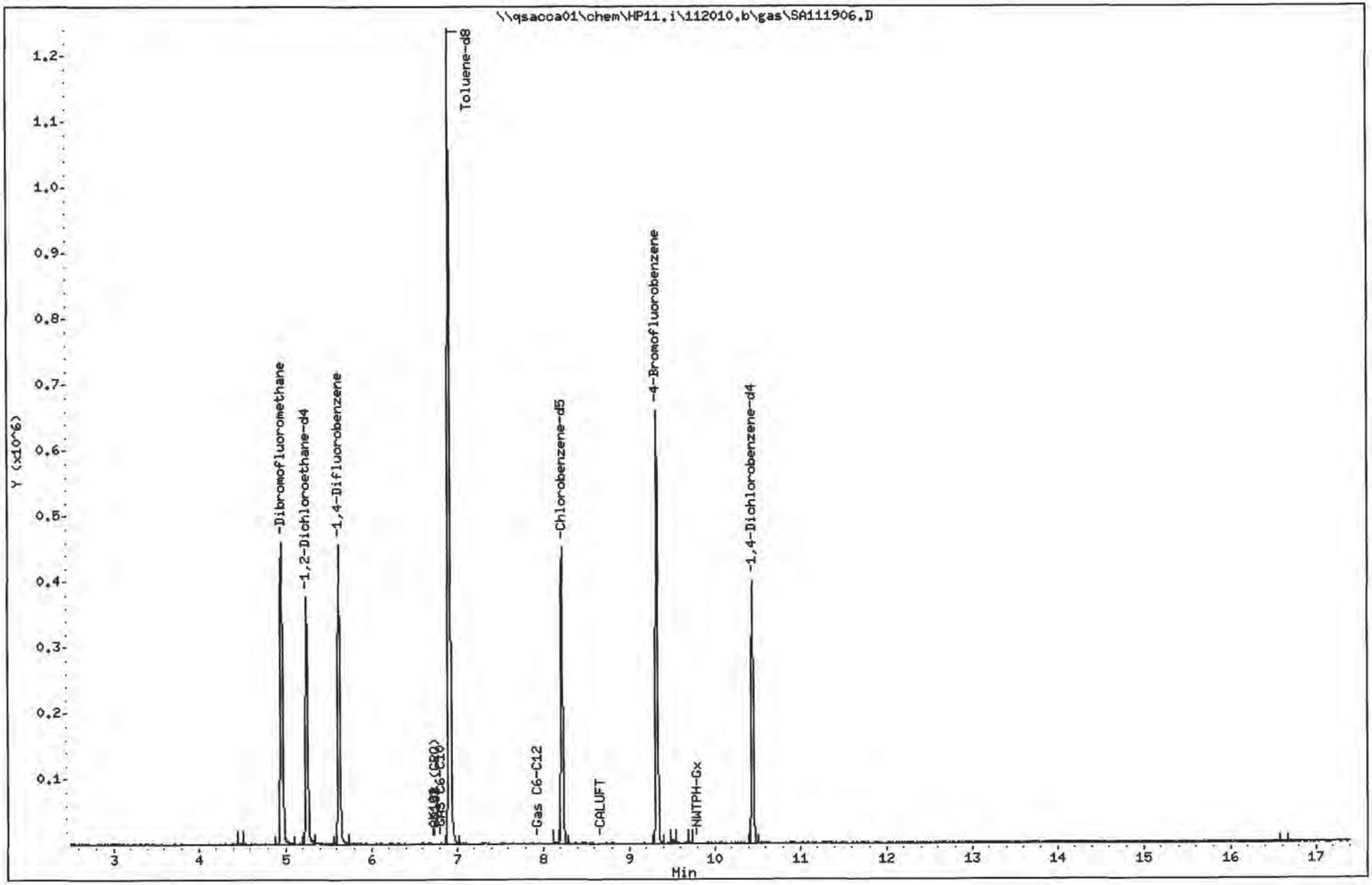
Total unknown % area = 0.210

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111906.D
Date : 21-NOV-2010 02:04
Client ID:
Sample Info: MAC5N1AC G0K200425-5 1X;CG;0;;;;;6.52

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111907.D
Lab Smp Id: MAC5P1AC G0K200425-
Inj Date : 21-NOV-2010 02:28
Operator : LB Inst ID: HP11.i
Smp Info : MAC5P1AC G0K200425-6 1X;CG;0;;;;;6.38
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.380	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	686647			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	704863			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	609887			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	782339			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	612121			(a)
5 Toluene-d8	6.916	6.913	0.003	1923577			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	974584			(a)
S 147 8015B (GRO)	3.340-10.165			18018	0.71367	0.559	
S 148 AK101	3.830-9.650			14020	0.69243	0.543	
S 149 CALUFT	5.300-12.050			40401	1.98692	1.56	
S 150 NWTPH-Gx	6.870-12.730			40401	2.25064	1.76	
S 151 Gas C6-C12	3.830-12.050			40401	1.59914	1.25	
S 152 GAS C6-C10	3.830-9.800			18018	0.86821	0.680	(a)

LB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: MAC5P1AC G0K200425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	78.3699	94.4935	120.57*	68-116
$ 5 1,2-Dichloroethane	78.3699	89.2383	113.87	59-130
$ 6 Toluene-d8	78.3699	94.6488	120.77*	85-115
$ 7 4-Bromofluorobenze	78.3699	67.8679	86.60	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111907.D
Lab Smp Id: MAC5P1AC G0K200425-
Inj Date : 21-NOV-2010 02:28
Operator : LB Inst ID: HP11.i
Smp Info : MAC5P1AC G0K200425-6 1X;CG;0;;;;;6.38
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.380	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.502	44441	18842	0.424	0.69	
3.113	6405	3137	0.490	0.10	
4.958	782340	442412	0.565	12.23	1 Dibromofluoromethan
5.247	612121	338839	0.554	9.57	2 1,2-Dichloroethane-
5.627	686648	403072	0.587	10.73	3 1,4-Difluorobenzene
6.740	14021	6278	0.448	0.21	S 148 AK101
6.753	18019	8528	0.473	0.28	S 147 8015B (GRO)
6.815	18019	8528	0.473	0.28	S 152 GAS C6-C10
9.151	3431	1290	0.376		
9.511	10590	4988	0.471		
9.720	3998	2250	0.563		
6.916	1923578	1167380	0.607	28.10	5 Toluene-d8
7.940	40402	17376	0.430	0.63	S 151 Gas C6-C12
10.318	6294	3142	0.499		
10.562	10895	3367	0.309		
11.347	5194	2339	0.450		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.222	704864	421875	0.599	11.02	6 Chlorobenzene-d5
8.675	40402	17376	0.430	0.63	S 149 CALUFT
9.328	974584	629505	0.646	15.24	7 4-Bromofluorobenzen
9.800	40402	17376	0.430	0.63	S 150 NWTPH-Gx
10.450	609888	382082	0.626	9.53	8 1,4-Dichlorobenzene
13.019	5558	1986	0.357	0.08	
13.131	3726	1600	0.429	0.05	
	6394554	3828106		100.000	

Total unknown % area = 0.920

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111907.D

Date : 21-NOV-2010 02:28

Client ID:

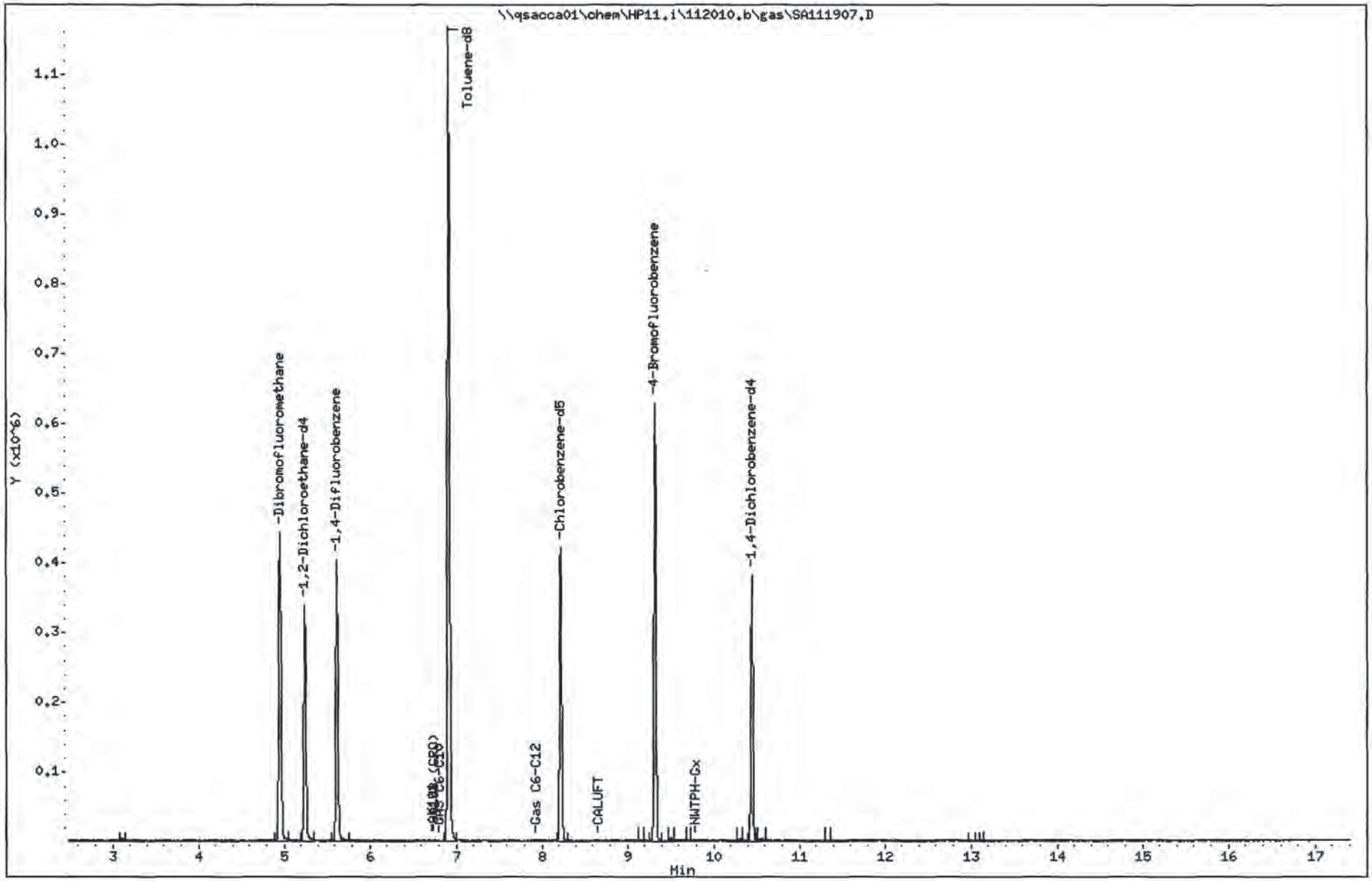
Sample Info: HAC5P1AC G0K200425-6 1X;CG;0;;;;;6.38

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB

Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111908.D
Lab Smp Id: MAC5R1AC G0K200425-
Inj Date : 21-NOV-2010 02:52
Operator : LB Inst ID: HP11.i
Smp Info : MAC5R1AC G0K200425-7 1X;CG;0;;;;;6.17
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.170	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	911104			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	867425			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	665344			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	973598			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	762142			(a)
5 Toluene-d8	6.916	6.913	0.003	2355509			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1118406			(a)
S 147 8015B (GRO)	3.340-10.165			29497	1.16835	0.947	
S 148 AK101	3.830-9.650			25091	1.23921	1.00	
S 149 CALUFT	5.300-12.050			27246	1.33996	1.08	
S 150 NWTPH-Gx	6.870-12.730			27246	1.51781	1.23	
S 151 Gas C6-C12	3.830-12.050			30774	1.21809	0.987	
S 152 GAS C6-C10	3.830-9.800			25091	1.20903	0.980	(a)

2B 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: MAC5R1AC G0K200425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	81.0373	92.0416	113.58	68-116
$ 5 1,2-Dichloroethane	81.0373	86.8586	107.18	59-130
$ 6 Toluene-d8	81.0373	90.1652	111.26	85-115
$ 7 4-Bromofluorobenze	81.0373	66.3774	81.91*	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111908.D
Lab Smp Id: MAC5R1AC G0K200425-
Inj Date : 21-NOV-2010 02:52
Operator : LB Inst ID: HP11.i
Smp Info : MAC5R1AC G0K200425-7 1X;CG;0;;;;;6.17
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.170	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.508	82325	18486	0.225	1.05	
4.958	973598	544206	0.559	12.52	1 Dibromofluoromethan
5.247	762142	430918	0.565	9.80	2 1,2-Dichloroethane-
5.627	911104	538489	0.591	11.72	3 1,4-Difluorobenzene
6.740	25092	12760	0.509	0.32	S 148 AK101
6.753	29497	14797	0.502	0.37	S 147 8015B (GRO)
3.383	4405	2037	0.462		
6.815	25092	12760	0.509	0.32	S 152 GAS C6-C10
4.489	3528	1538	0.436		
7.318	4558	2238	0.491		
8.151	4351	2202	0.506		
9.511	12654	6782	0.536		
6.916	2355509	1442713	0.612	28.70	5 Toluene-d8
7.940	30775	14388	0.468	0.39	S 151 Gas C6-C12
10.550	5683	1628	0.286		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.222	867425	535152	0.617	11.16	6 Chlorobenzene-d5
8.675	27247	12850	0.472	0.35	S 149 CALUFT
9.328	1118407	720388	0.644	14.39	7 4-Bromofluorobenzen
9.800	27247	12850	0.472	0.35	S 150 NWTPH-Gx
10.450	665344	424906	0.639	8.56	8 1,4-Dichlorobenzene
	7771036	4671683		100.000	

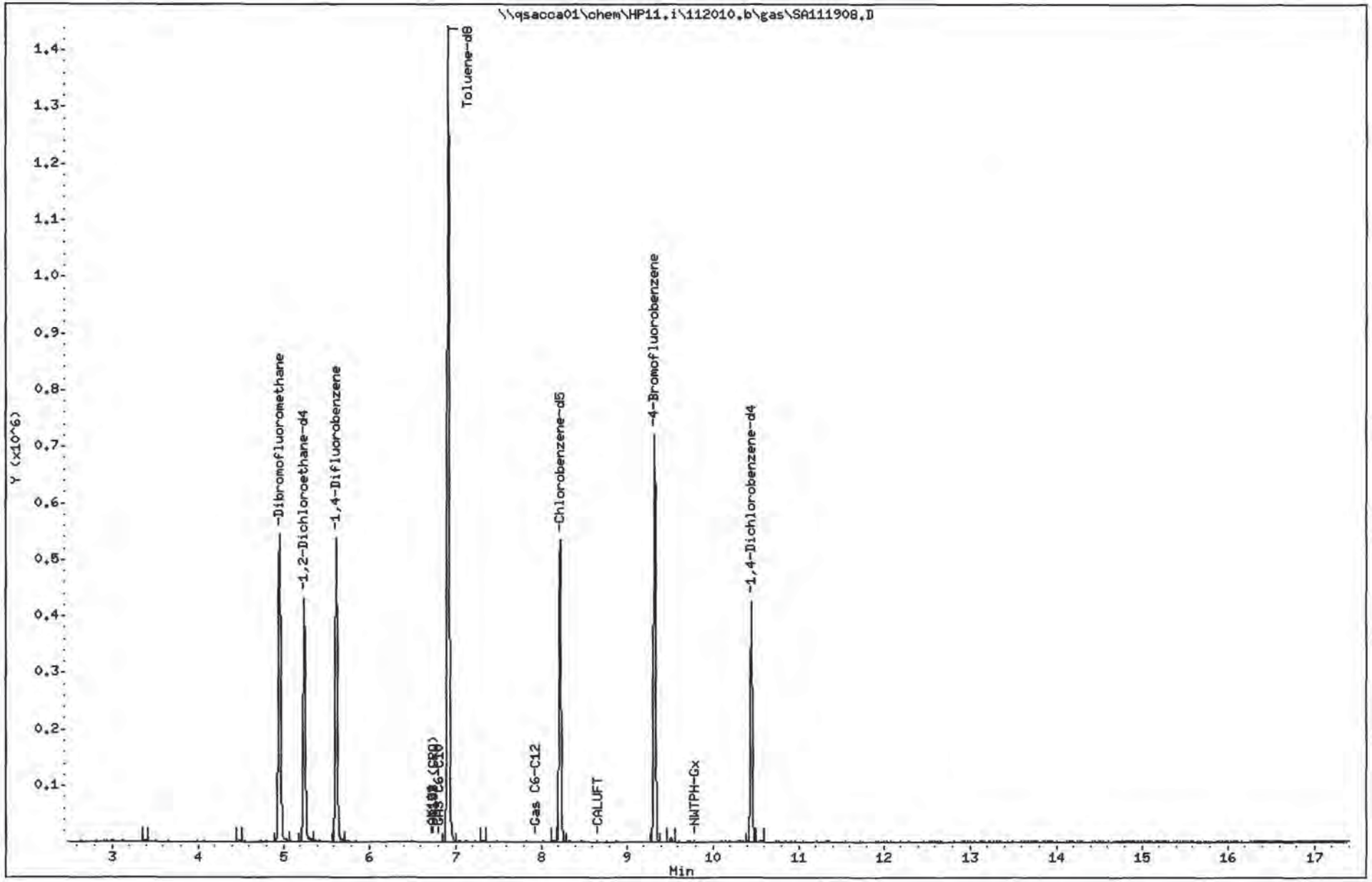
Total unknown % area = 1.05

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111908.D
Date : 21-NOV-2010 02:52
Client ID:
Sample Info: HAC5R1AC G0K200425-7 1X;CG;0;;;;;6.17

Instrument: HP11.i

Operator: LB
Column diameter: 0.53

Column phase: J&W DB-624



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111913.D
Lab Smp Id: MAC5V1AC G0K200425-
Inj Date : 21-NOV-2010 04:51
Operator : LB Inst ID: HP11.i
Smp Info : MAC5V1AC G0K200425-9 1X;CG;0;;;;;6.28
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.280	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	922526			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	916180			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	789260			(a)
1 Dibromofluoromethane	4.957	4.954	0.003	989850			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	770238			(a)
5 Toluene-d8	6.916	6.913	0.003	2478184			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1272465			(a)
S 147 8015B (GRO)	3.340-10.165			31237	1.23726	0.985	
S 148 AK101	3.830-9.650			27996	1.38269	1.10	
S 149 CALUFT	5.300-12.050			35307	1.73640	1.38	
S 150 NWTPH-Gx	6.870-12.730			35307	1.96686	1.56	
S 151 Gas C6-C12	3.830-12.050			35307	1.39751	1.11	
S 152 GAS C6-C10	3.830-9.800			31237	1.50518	1.20	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

AB 11/21/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: I80
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MAC5V1AC G0K200425-
Level: LOW Operator: LB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: A4DQK01.spk Quant Type: ISTD
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	79.6178	90.4648	113.62	68-116
$ 5 1,2-Dichloroethane	79.6178	85.4552	107.33	59-130
$ 6 Toluene-d8	79.6178	92.2921	115.92*	85-115
$ 7 4-Bromofluorobenze	79.6178	69.8488	87.73	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111913.D
Lab Smp Id: MAC5V1AC G0K200425-
Inj Date : 21-NOV-2010 04:51
Operator : LB Inst ID: HP11.i
Smp Info : MAC5V1AC G0K200425-9 1X;CG;0;;;;;6.28
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.280	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.456	138510	34243	0.247	1.66	
2.479	5902	2206	0.374	0.07	
4.958	989850	547993	0.554	11.89	1 Dibromofluoromethan
5.247	770238	424587	0.551	9.25	2 1,2-Dichloroethane-
5.627	922526	541605	0.587	11.09	3 1,4-Difluorobenzene
6.740	27997	14413	0.515	0.33	S 148 AK101
6.753	31238	16339	0.523	0.37	S 147 8015B (GRO)
6.815	31238	16339	0.523	0.37	S 152 GAS C6-C10
8.144	5423	2323	0.428		
8.453	6266	2391	0.382		
9.514	16308	9699	0.595		
9.665	3241	1926	0.594		
6.916	2478185	1493093	0.602	27.93	5 Toluene-d8
7.940	35307	18701	0.530	0.42	S 151 Gas C6-C12
11.344	4069	2362	0.580		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.221	916181	545090	0.595	11.01	6 Chlorobenzene-d5
8.675	35307	18701	0.530	0.42	S 149 CALUFT
9.328	1272465	809960	0.637	15.29	7 4-Bromofluorobenzen
9.800	35307	18701	0.530	0.42	S 150 NWTPH-Gx
10.450	789260	494352	0.626	9.48	8 1,4-Dichlorobenzene
	8318425	4911830		100.000	

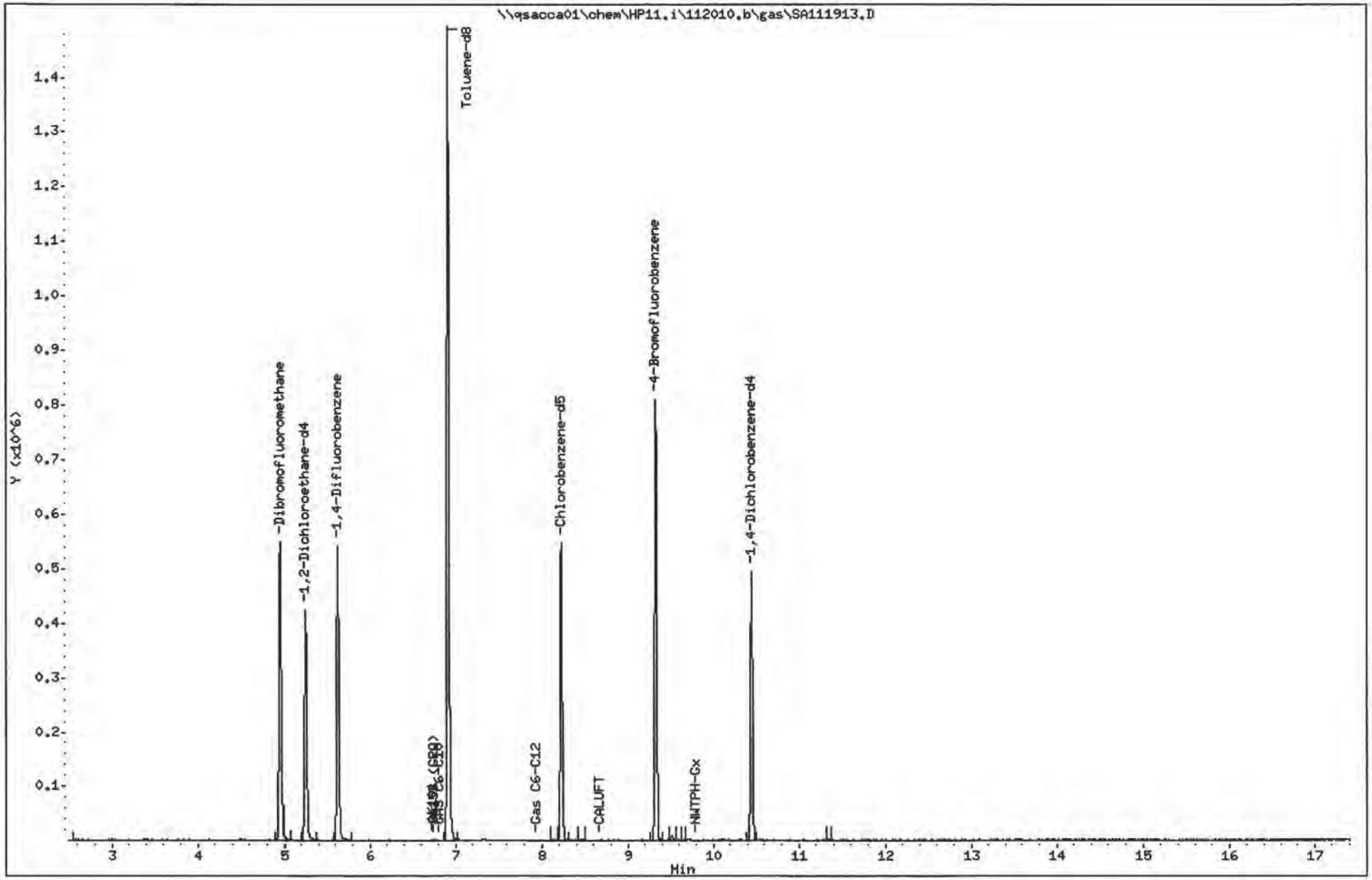
Total unknown % area = 1.73

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111913.D
Date : 21-NOV-2010 04:51
Client ID:
Sample Info: MAC5V1AC G0K200425-9 1X;CG;0;;;;;6.28

Column phase: J&W DB-624

Instrument: HP11.i

Operator: LB
Column diameter: 0.53



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111914.D
Lab Smp Id: MAC571AC G0K200425-
Inj Date : 21-NOV-2010 05:15
Operator : LB Inst ID: HP11.i
Smp Info : MAC571AC G0K200425-10 1X;CG;0;;;;;6.05
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.050	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	927503			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	897253			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	654295			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	947005			(a)
2 1,2-Dichloroethane-d4	5.247	5.244	0.003	748532			(a)
5 Toluene-d8	6.916	6.913	0.003	2349762			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1085983			(a)
S 147 8015B (GRO)	3.340-10.165			30529	1.20922	0.999	
S 148 AK101	3.830-9.650			25591	1.26391	1.04	
S 149 CALUFT	5.300-12.050			40445	1.98908	1.64	
S 150 NWTPH-Gx	6.870-12.730			40445	2.25309	1.86	
S 151 Gas C6-C12	3.830-12.050			44209	1.74987	1.45	
S 152 GAS C6-C10	3.830-9.800			30529	1.47107	1.22	(a)

LB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

TestAmerica West Sacramento

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: MAC571AC G0K200425-
Level: LOW
Data Type: MS DATA
SpikeList File: A4DQK01.spk
Sublist File: A4DQKD4.sub
Method File: \\qsacca01\chem\HP11.i\112010.b\8260S.m
Misc Info: 2;SOIL;0;A4DQKD4.sub;;0;;5

Client SDG: I80
Fraction: VOA
Operator: LB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	82.6446	89.3292	108.09	68-116
$ 5 1,2-Dichloroethane	82.6446	84.9210	102.75	59-130
$ 6 Toluene-d8	82.6446	90.4243	109.41	85-115
$ 7 4-Bromofluorobenze	82.6446	62.9530	76.17*	85-120

TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111914.D
Lab Smp Id: MAC571AC G0K200425-
Inj Date : 21-NOV-2010 05:15
Operator : LB Inst ID: HP11.i
Smp Info : MAC571AC G0K200425-10 1X;CG;0;;;;;6.05
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: AREA%
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.050	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.981	13476	4978	0.369	0.17	
4.958	947006	533774	0.564	12.34	1 Dibromofluoromethan
5.247	748532	412072	0.551	9.75	2 1,2-Dichloroethane-
5.627	927503	556297	0.600	12.09	3 1,4-Difluorobenzene
6.740	25592	13144	0.514	0.33	S 148 AK101
6.753	30529	15425	0.505	0.39	S 147 8015B (GRO)
6.815	30529	15425	0.505	0.39	S 152 GAS C6-C10
4.498	3764	1868	0.496		
7.328	4076	1978	0.485		
8.144	3782	2113	0.559		
9.514	13970	7185	0.514		
9.723	4938	2281	0.462		
6.916	2349763	1446301	0.616	28.53	5 Toluene-d8
7.940	44209	21002	0.475	0.57	S 151 Gas C6-C12
10.543	9770	3348	0.343		
11.340	3910	2229	0.570		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.222	897253	539491	0.601	11.69	6 Chlorobenzene-d5
8.675	40446	19134	0.473	0.52	S 149 CALUFT
9.328	1085983	688779	0.634	14.15	7 4-Bromofluorobenzen
9.800	40446	19134	0.473	0.52	S 150 NWTPH-Gx
10.450	654296	407229	0.622	8.52	8 1,4-Dichlorobenzene
16.466	3080	1269	0.412	0.04	
	7671101	4611192		100.000	

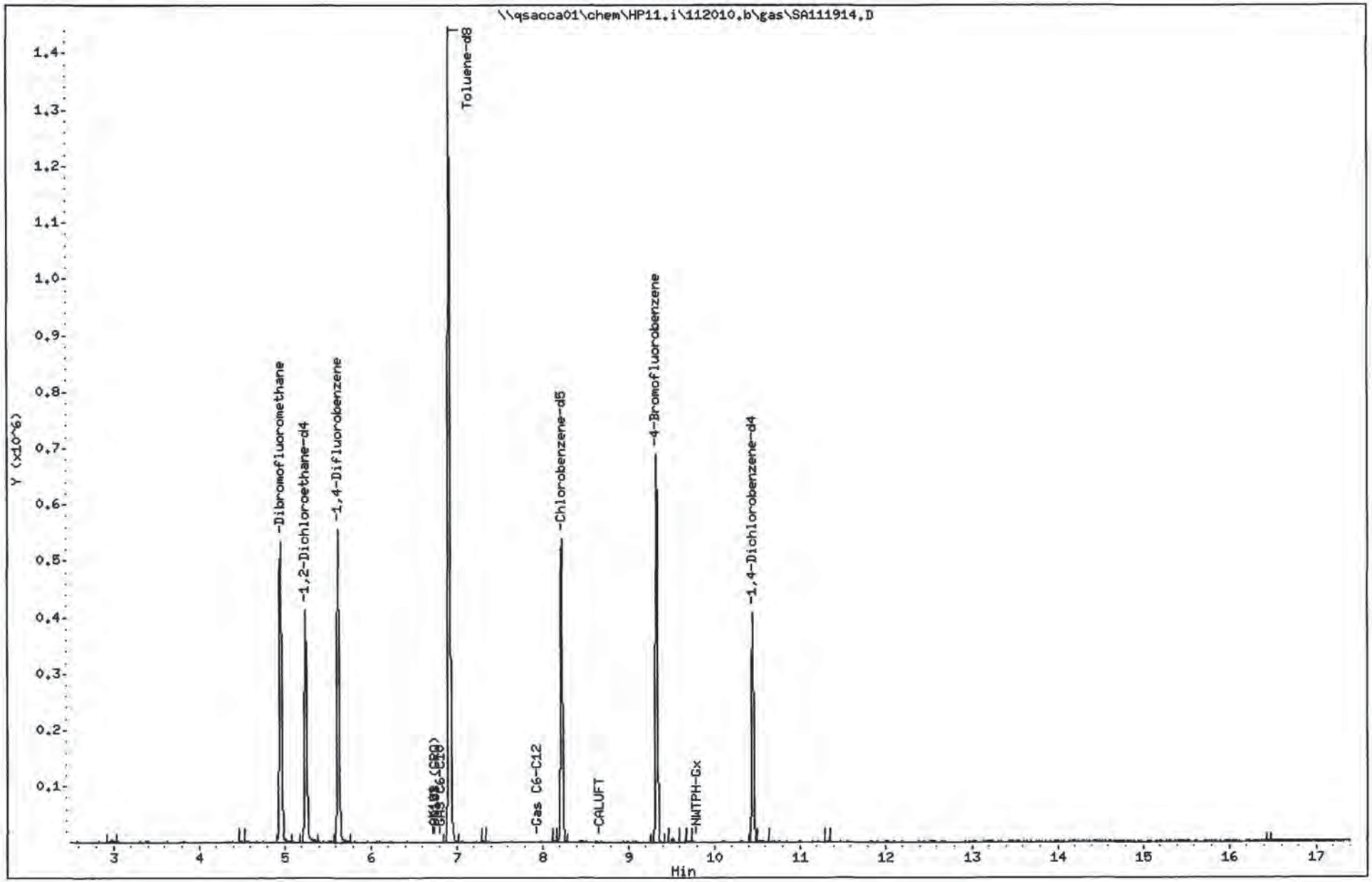
Total unknown % area = 0.210

Data File: \\qsacca01\chem\HP11.i\112010.b\gas\SA111914.D
Date : 21-NOV-2010 05:15
Client ID:
Sample Info: MAC571AC G0K200425-10 1X;CG;0;;;;;6.05

Instrument: HP11.i

Operator: LB
Column diameter: 0.53

Column phase: J&W DB-624



TestAmerica West Sacramento

Gasoline by GC/MS

Data file : \\qsacca01\chem\HP11.i\112010.b\gas\SA111915.D
Lab Smp Id: MAC591AC G0K200425-
Inj Date : 21-NOV-2010 05:39
Operator : LB Inst ID: HP11.i
Smp Info : MAC591AC G0K200425-11 1X;CG;0;;;;;6.24
Misc Info : 2;SOIL;0;A4DQKD4.sub;;0;;5
Comment :
Method : \\qsacca01\chem\HP11.i\112010.b\gas\8260SGAS.M
Meth Date : 20-Nov-2010 22:57 beldenl Quant Type: ESTD
Cal Date : 15-JUL-2010 13:34 Cal File: GAS071508.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TPHALL.sub
Target Version: 4.14
Processing Host: SACP414TMP

Concentration Formula: Amt * DF * Uf * Wsd/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Wsd	5.000	Default Sample Weight
Ws	6.240	Weight of sample purged
Va	860.000	Vol of extract analyzed
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
3 1,4-Difluorobenzene	5.626	5.623	0.003	1004909			(a)
6 Chlorobenzene-d5	8.221	8.221	0.000	1013152			(a)
8 1,4-Dichlorobenzene-d4	10.449	10.446	0.003	898060			(a)
1 Dibromofluoromethane	4.958	4.954	0.004	1021352			(a)
2 1,2-Dichloroethane-d4	5.250	5.244	0.006	814570			(a)
5 Toluene-d8	6.916	6.913	0.003	2609960			(a)
7 4-Bromofluorobenzene	9.327	9.327	0.000	1387264			(a)
S 147 8015B (GRO)	3.340-10.165			20941	0.82945	0.665	
S 148 AK101	3.830-9.650			17079	0.84351	0.676	
S 149 CALUFT	5.300-12.050			24350	1.19753	0.960	
S 150 NWTPH-Gx	6.870-12.730			24350	1.35648	1.09	
S 151 Gas C6-C12	3.830-12.050			24350	0.96382	0.772	
S 152 GAS C6-C10	3.830-9.800			20941	1.00906	0.808	(a)

dB 11/21/10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).