Appendix A
Groundwater Sampling Field Forms

Note: GH-MW-12 - ~~LNAP~~ Product from 86.10 to 86.12, gas smell

★ OU3-11M2 - Not gauged, vehicle parked on well. Gauged @ later date.

September 2011 Sampling Event
Draft - Groundwater Elevations Summary
Operable Unit 3 Study Area
Motorola 52nd Street Superfund Site
Phoenix, Arizona

Well ID	Hydrostratigraphic Zone	TOC (ft msl)	Top of screenl (ft bgs)	Bottom of Screen (ft bgs)	Total Depth (ft bgs)	well diameter (inches)	9/6/11 DTW ft bgs	3/7/11 DTW ft bgs	3/8/2011 TCE (ug/L)	QA/QC	PID	notes
BE-MW-8	Shallow	1076.35	75	105	105	4	85.48	78.66	0.5	field blank	0.4	
DT-DW-5	Shallow	1077.9	59	99	99	2	89.28	80.97	0.5	level 3	0.0	bailer
EWOU3-10S-R	Shallow	1081.62	60	100	102	4	98.82	90.26	14		0.1	bailer
EW-13-118	Shallow	1092.71	114.5	119.5	309	4		1009.36	<0.50			
EW-13-168	Intermediate	1092.71	164.5	169.5	--	4		1009.28	<0.50			
EW-13-228	Deep	1092.71	224.5	229.5	--	4		1011.26	2.2	level 3		
EW-13-268	Deep	1092.71	264.5	269.5	--	4		1012.02	<0.50			
EW-19D	Deep	1087.34	247	267	270	4	79.63	73.56	7.8		0.0	
EW-19S	Shallow	1087.32	57	107	112	4	85.87	82.09	<0.50	MS/MSD	0.2	
EW-20	Shallow	1091.38	59	109	109	4	92.47	88.53	22	duplicate	3.7	
EW-21	Shallow	1094.24	58	108	108	4	91.40	88.05	3.0	level 3	0.0	
GH-MW-11	Shallow	1083.3	50	100	100.9	4	~~87.74~~ 86.10	NG	NS		0.1	Do not sample!!!
JN-MW-1	Shallow	1088.38	70	90	90	4	88.57	87.86	--		0.0	usually dry
SC-MW-1D	Shallow	1092.39	83	123	125	4	86.35	83.02	1.6		0.0	
SC-MW-7	Shallow	1091.25	45.5	90.5	91	4	~~86.35~~	NG	NS	—	—	abandoned
OU3-1D	Deep	1093.09	235	255	259	4	83.32	78.32	6.0		0.0	
OU3-1M	Intermediate	1093.3	140	160	162	4	91.03	87.96	<0.50	Level 3	0.0	
OU3-2M	Intermediate	1087.997	150	170	175	4	86.08	82.45	31	level 3	9.5	
OU3-4S	Shallow	1094.74	59.2	110	110	4	90.52	88.33	<0.50		0.0	
OU3-6D	Deep	1083.77	230	250	261	4	86.57	80.06	0.63		3.5	
OU3-6M	Intermediate	1083.66	152	172	172.5	4	89.35	83.47	0.73		0.0	
OU3-7M2	Intermediate	1085.59	195	215	221	4	87.70	84.53	1.2	ms/msd	0.0	
OU3-7S	Shallow	1085.29	60	110	112	4	87.62	84.49	<0.50		0.0	
OU3-8D	Deep	1080	260.5	270	273	4	90.80	82.52	<0.50		0.0	
OU3-8M2	Intermediate	1080.39	205.5	225.6	228	4	92.90	86.31	29.0	level 3		
OU3-8S	Shallow	1080.05	59.9	110.5	110.5	4	93.13	86.61	11.0			
OU3-9S	Shallow	1080.55	59.6	110.2	110.5	4	91.97	86.65	<0.50		0.0	
OU3-5M2	Intermediate	1087.24	202.7	222.7	253?	4	91.60	86.76	73	ms/MSD		
OU3-9M2	Intermediate	1080.74	219.7	229.7	235	4	~~90.41~~ 89.91	86.53	2.0		0.0	
OU3-10M	Intermediate	1082.25	146.7	166.7	170	4	98.70	90.07	7.9			
OU3-10M2	Intermediate	1082.29	199.2	219.2	225	4	98.89	89.97	35	duplicate	0.0	
Ou3-11M	Intermediate	1078.25	153.7	173.7	178	4	88.54	80.93	<0.50		0.0	
OU3-11M2	Intermediate	1078.05	196.7	216.7	230	4	88.39 ★	80.75	<0.50		0.0	
OU3-11S	Shallow	1078.26	69.7	119.7	123	4	88.46	80.8	<0.50	level 3	0.0	
OU3-12D	Deep	1090.77	245.6	265.6	396	4	81.54	76.70	<0.50		0.0	
OU3-12M	Intermediate	1090.79	146.7	166.7	170	4	85.45	81.99	1.8		0.0	
OU3-13D	Deep	1095.71	224.7	244.7	250	4	~~90.10~~ 88.10	84.31	<0.50	level 3	0.0	
OU3-13M	Intermediate	1095.75	154.7	174.7	175	4	90.34	87.30	25.0		0.0	
OU3-14D	Deep	1099.14	231.2	251.2	251.5	4	83.18	79.35	<0.50		0.0	Pumps dry
OU3-14M	Intermediate	1099.05	145.7	165.7	168	4	91.30	89.11	<0.50		0.0	
OU3-5DR	Deep	1087.35	232.7	252.7	253	4	87.49	86.23	<0.50		0.0	
OU3-5MR	Intermediate	1087.37	148.7	168.7	169	4	91.65	86.84	50	duplicate		
OU3-5SR	Shallow	1087.28	69.7	119.7	120	4	91.50	86.73	28	level 3	0.0	

NG = not gauged on September 6, 2011
One field blank on day 1
Equipment rinsate each day
PE sample submittal

OU3-10S → DTW = 101.58, PID = 0.0 traffic

20S = 88.24, 1.2
20M = 88.35, 0.0

16-M = 97.76, 0.0
16-S = 97.60, 0.0
19M = 85.71, 0.0
17S = 84.60, 120

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-14M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/8/11

Project Number: 0096498.030 Sample Time: 1621

Screened Interval: 145.7 - 165.7 Initial Depth to Water (ft): 91.30

Measured Well Depth (ft): 168 Length of Water Column (ft): 76.7

Well Inner Diameter (in): 4" 1 Well Volume (gal): 50.1 x3 = 150.3

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A Nagle, K Johnson Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/8/11	15.31	0	91.30	7.42	2222	–	8.94	27.06	90.2
	15.41	30	91.36	7.28	2213	–	8.48	27.09	81.6
	1551	60	91.41	6.96	2207	–	8.23	27.14	73.2
	1556	75	91.42	7.23	2221	–	8.20	26.69	71.8
	1601	90	91.41	7.27	2222	–	8.11	26.71	70.2
	1606	105	91.41	7.31	2224	–	7.86	26.72	68.7
	1611	120	91.42	7.35	2226	–	7.83	26.72	65.1
	1616	135	91.42	7.34	2226	–	7.84	26.74	64.9
	1621	150	91.41	7.34	2225	–	7.82	26.75	65.2

Volume Purged Prior to Sample Collection: 150 Depth to Water during Sample Collection: 91.41

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-14M-M-090811

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-14D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/8/11

Project Number: 0096498.030 Sample Time: 1643

Screened Interval: 231.2 - 251.2 Initial Depth to Water (ft): 83.18

Measured Well Depth (ft): 251.2 Length of Water Column (ft): 168

Well Inner Diameter (in): 4" 1 Well Volume (gal): 109.7 x 3 = 329.1

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A Nagle, K Johnson Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/8/11	1350	0	83.18	7.05	1614	—	6.83	25.99	74.2
	1353	9	88.72	7.37	1624	—	7.21	26.28	72.8
	1402	36	108.01	7.46	1621	—	7.33	26.37	67.6
	1412	66	130.18	7.56	1614	—	7.31	26.46	67.2
	1422	96	158.32	7.51	1616	—	7.32	26.59	67.8
	1436	126	189.12	7.86	1614	—	7.30	26.63	67.7
	1446	156	220.35	7.62	1613	—	7.30	26.69	67.1
	1456	186	234.78	7.50	1622	—	7.22	26.89	66.3
	1501	— Well Dry —							
	1643	← Sampled							

Volume Purged Prior to Sample Collection: 186 gal Depth to Water during Sample Collection: 86.11

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 1	—

Remarks: Murky Water @ Start; Cleared up in 5 min.
3 gpm
OU3-14D-D-090811

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-4S

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/8/11
Project Number: 0096498.030 Sample Time: 0826

Screened Interval: 59.2'-110' Initial Depth to Water (ft): 90.52
Measured Well Depth (ft): 110' Length of Water Column (ft): 19.5
Well Inner Diameter (in): 4" 1 Well Volume (gal): 12.7 x 3 = 38.2

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: M Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horriba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (~~mS~~ µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt) mg/L	Temperature (C)	ORP (mV)
9/8/11	0800	0	90.67	6.33	2353	-	9.81	26.16	182.6
	0805	7.5	90.69	6.49	2321	-	9.08	26.16	147.1
	0810	15	90.69	6.57	2299	-	8.11	26.17	115.9
	0817	25.5	90.70	6.56	2302	-	7.40	26.17	109.3
	0826	39	90.71	6.57	2302	-	7.32	26.17	107.6

Volume Purged Prior to Sample Collection: ~~38~~ 39 Depth to Water during Sample Collection: 90.71

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-4S-S-090811
@ 1.5 gpm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-~~87~~ 75

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/8/11

Project Number: 0096498.030 Sample Time: 0950

Screened Interval: 60-110 Initial Depth to Water (ft): 87.62

Measured Well Depth (ft): 112 Length of Water Column (ft): 24.4

Well Inner Diameter (in): 4" 1 Well Volume (gal): 15.9 x 3 = 47.8

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horiba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/8/11	0934	0	87.62	6.94	2362	–	8.07	27.38	84.7
	0937	9	87.74	7.01	2381	–	7.87	28.82	84.2
	0940	18	87.80	7.09	2396	–	7.48	28.01	83.9
	0944	30	87.89	7.01	2357	–	7.22	27.10	82.3
	0947	39	87.93	6.99	2354	–	7.09	27.07	82.9
	0950	48	87.95	7.06	2360	–	6.92	27.13	80.1

Volume Purged Prior to Sample Collection: 48 Depth to Water during Sample Collection: 87.95

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-75-S-090811 @ 0950

3 gpm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3- 7M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 09/8/11

Project Number: 0096498.030 Sample Time: 1148

Screened Interval: 195-215 Initial Depth to Water (ft): 87.70

Measured Well Depth (ft): 221 Length of Water Column (ft): 133.3

Well Inner Diameter (in): 4" 1 Well Volume (gal): 87 x 3 = 261

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/8/11	1021	0	87.69	6.82	2044	—	9.53	25.63	80.6
	1036	45	87.81	7.21	2031	—	8.99	25.55	67.5
	1051	90	87.75	7.25	2036	—	8.46	25.61	66.1
	1101	120	87.76	7.25	2034	—	8.13	25.60	62.8
	1111	150	87.75	7.25	2033	—	7.81	25.61	59.3
	1121	180	87.75	7.27	2029	—	7.62	25.64	59.9
	1131	210	87.75	7.27	2028	—	7.55	25.62	60.1
	1138	231	87.76	7.26	2033	—	7.49	25.61	59.9
	1143	246	87.78	7.27	2035	—	7.47	25.61	60.7
	1148	261	87.75	7.27	2036	—	7.42	25.60	61.1

Volume Purged Prior to Sample Collection: 261 Depth to Water during Sample Collection: 87.75

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--
MS/MSD	40mL VOA x 3, 1L Amber x4	

Remarks: MS/MSD
OU3-7M2-M-090811
OU3-7M2-M-090811-MS/MSD

3:40pm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: SC-MW-1D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/9/11

Project Number: 0096498.~~012~~030 Sample Time: 1515

Screened Interval: 83-123 Initial Depth to Water (ft): 86.35

Measured Well Depth (ft): 125 Length of Water Column (ft): 38.65

Well Inner Diameter (in): 4" 1 Well Volume (gal): 25.2 x 3 = 75

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: ~~Bailer~~ Pump

Stabilization Test Equipment: ~~N/A~~ ~~Pump~~ YSI

Sampling Method/Equipment: ~~Bailer~~ Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/9/11	1450	0	86.34	9.02	1455	–	7.67	29.18	78.8
	1455	15	86.36	8.97	1444	–	5.17	28.68	78.7
	1500	30	86.37	8.89	1417	–	4.83	28.03	77.3
	1505	45	86.37	8.82	1401	–	4.51	27.40	76.9
	1510	60	86.37	8.82	1397	–	4.48	27.35	75.1
	1515	75	86.37	8.82	1396	–	4.47	27.35	74.6

Volume Purged Prior to Sample Collection: 75 Depth to Water during Sample Collection: 86.37

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1 L Amber x 2	–

Remarks: ~~OU3 MW~~ SC-MW-1D-S-090911

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-9S

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/~~10~~9/11

Project Number: 0096498.030 Sample Time: 0919

Screened Interval: ~~60~~ 59.6 - ~~110~~ 110.2 Initial Depth to Water (ft): 91.97

Measured Well Depth (ft): ~~112~~ 110.5 Length of Water Column (ft): 18.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 12.1 x 3 = 36.3

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/9/11	0906	0	91.97	8.56	2296	—	9.68	27.27	58.5
	0908	6	91.99	8.45	2295	—	9.51	26.88	82.9
	0910	12	92.00	8.46	2296	—	9.38	26.87	79.0
	0912	18	92.00	8.41	2294	—	9.11	26.66	78.0
	0914	24	92.01	8.40	2293	—	9.08	26.66	~~6~~ 54.7
	0916	30	92.01	8.41	2300	—	9.01	26.69	53.7
	0918	36	92.02	8.45	2314	—	8.96	26.74	54.1
	0919	39	92.02	8.47	2319	—	8.91	26.98	~~5.46~~ 5.46

Volume Purged Prior to Sample Collection: 39 Depth to Water during Sample Collection: 92.2

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-9S-S-090911

3 gpm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-9M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/~~10~~ 9/11

Project Number: 0096498.030 Sample Time:

Screened Interval: ~~195~~ 219.7 - ~~215~~ 229.7 Initial Depth to Water (ft): ~~87.70~~ 99.91

Measured Well Depth (ft): ~~227~~ 235 Length of Water Column (ft): 135.1

Well Inner Diameter (in): 4" 1 Well Volume (gal): 88.2 x 3 = 264.7

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K, Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/9/11	0840	0	99.91	8.20	2048	—	8.93	25.13	71.1
	0843	60	100.78	8.20	2037	—	8.60	25.09	70.4
	0846	120	100.41	8.24	2040	—	8.38	25.23	68.2
	0849	180	100.40	8.30	2036	—	8.35	25.06	87.6
	0852	240	100.40	8.30	2034	—	8.33	25.06	87.6
	0854	280	100.38	8.31	2034	—	8.33	25.08	87.7

Volume Purged Prior to Sample Collection: 280 Depth to Water during Sample Collection: 98.38

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-9M2-M-~~091011~~ 090911

20 GPM

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-12D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/9/11

Project Number: 0096498.030 Sample Time: 1141

Screened Interval: 245.6 - 265.6 Initial Depth to Water (ft): 81.54

Measured Well Depth (ft): 296 Length of Water Column (ft): 214.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): ~~140~~ x 3 = 420

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K. Johnson, A. Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/9/11	1058	0	81.54	8.74	1788	–	9.40	27.31	83.8
	1108	100	81.33	8.82	1312	–	7.89	24.51	76.3
	1118	200	81.27	8.77	1310	–	6.12	24.19	77.9
	1123	250	81.15	8.71	1308	–	6.01	24.26	78.4
	1128	300	81.13	8.74	1315	–	5.32	24.26	78.1
	1133	350	81.14	8.75	1317	–	5.13	24.28	77.5
	1138	400	81.13	8.79	1322	–	4.17	24.29	75.3
	1141	430	81.13	8.82	1331	–	4.08	24.32	72.4

Volume Purged Prior to Sample Collection: 430 Depth to Water during Sample Collection: 81.13

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-12D-D-090911

N gm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-12M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/9/11

Project Number: 0096498.~~012~~030 Sample Time: 1336

Screened Interval: 146.7 - 166.7 Initial Depth to Water (ft): 85.45

Measured Well Depth (ft): 170 Length of Water Column (ft): 84.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 55 x 3 = 165

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Johnson / Nagle Sampler Affiliation: ERM

Purge Method/Equipment: ~~Bailer~~ Pump

Stabilization Test Equipment: ~~N/A~~ YSI

Sampling Method/Equipment: ~~Bailer~~ Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/9/11	1251	0	85.49	9.45	1457	–	8.78	30.90	57.7
	1257	30	85.40	8.90	1311	–	6.94	27.35	57.9
	1301	60	85.39	8.89	1306	–	6.28	27.13	55.0
	1306	75	85.39	8.89	1302	–	6.21	27.08	53.9
	1311	90	85.40	8.90	1299	–	6.19	27.06	55.1
	1316	105	85.38	8.91	1297	–	6.13	26.99	56.8
	1321	120	85.38	8.91	1296	–	6.08	26.92	58.7
	1326	135	85.37	8.91	1295	–	6.07	26.90	58.6
	1331	150	85.38	8.90	1295	–	6.05	26.88	57.5
	1336	165	85.38	8.91	1295	–	6.05	26.87	57.0

Volume Purged Prior to Sample Collection: 165 Depth to Water during Sample Collection: 85.38

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1 L Amber x 2	–

Remarks: OU3-12M-M-090911

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-1D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/12/11

Project Number: 0096498.030 Sample Time: 1315

Screened Interval: 235 - 255 Initial Depth to Water (ft): 83.32

Measured Well Depth (ft): 259 Length of Water Column (ft): 175.7

Well Inner Diameter (in): 4" 1 Well Volume (gal): 114.7 x 3 = 344

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: M Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
	1240	0	83.32	9.61	2844	~	0.29	26.12	82.8
	1250	100	83.36	9.61	2855	~	0.73	25.39	64.3
	1300	200	83.38	9.62	2780	~	1.06	24.16	53.7
	1305	250	83.37	9.57	2788	~	1.31	24.20	50.1
	1310	300	83.37	9.53	2790	~	1.44	24.27	49.9
	1315	350	83.37	9.53	2795	~	1.48	24.35	49.2

Volume Purged Prior to Sample Collection: 350 Depth to Water during Sample Collection: 83.37

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-1D-D-091211

10 gpm 35 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-1M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/12/11
Project Number: 0096498.030 Sample Time: 1413

Screened Interval: 140-160 Initial Depth to Water (ft): 91.03
Measured Well Depth (ft): 162 Length of Water Column (ft): 70.97
Well Inner Diameter (in): 4" 1 Well Volume (gal): 46.3 x 3 = 139

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horiba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/12/11	1327	0	91.03	9.79	2245	–	1.74	26.78	40.8
	1337	30	91.04	9.75	2077	–	1.98	26.05	43.0
	1347	60	91.05	9.76	2069	–	1.90	26.01	41.5
	1357	90	91.05	9.75	2076	–	1.75	25.97	44.8
	1402	105	91.05	9.75	2074	–	1.76	25.95	43.2
	1407	120	91.06	9.76	2073	–	1.74	25.93	41.3
	1410	129	91.05	9.75	2071	–	1.73	25.94	40.8
	1413	138	91.05	9.75	2070	–	1.73	25.93	40.0

Volume Purged Prior to Sample Collection: 138 Depth to Water during Sample Collection: 91.05

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-1M-M-091211, level III

3 gpm, 46 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-21

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/12/11

Project Number: 0096498.030 Sample Time: 1504

Screened Interval: 58 - 108 Initial Depth to Water (ft): 91.40

Measured Well Depth (ft): 108 Length of Water Column (ft): 16.6

Well Inner Diameter (in): 4" 1 Well Volume (gal): 10.8 x 3 = 33

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K. Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
~~1453~~	1453	0	91.41	9.84	2175	-	1.23	26.37	58.6
9/12/11	1456	9	91.42	9.82	21.49	-	1.57	26.16	58.0
	1458	15	91.42	9.82	2147	-	1.68	26.11	58.0
	1500	21	91.42	9.79	2147	-	1.79	26.13	57.9
	1502	27	91.42	9.77	2147	-	1.85	26.11	57.4
	1504	33	91.42	9.77	2147	-	1.89	26.10	57.2

Volume Purged Prior to Sample Collection: 33 Depth to Water during Sample Collection: 91.42

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: Level III ~~OU3~~ EW-21-S-091211

3 gpm, 11 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-6M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/12/11

Project Number: 0096498.030 Sample Time: 1025

Screened Interval: 152-172 Initial Depth to Water (ft): 89.35

Measured Well Depth (ft): 172.5 Length of Water Column (ft): 83.15

Well Inner Diameter (in): 4" 1 Well Volume (gal): 54.3 x 3 ≈ 163

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/12/11	0930	0	89.35	10.11	1180	-	2.43	26.00	46.2
	0940	30	89.33	10.07	1178	-	2.23	26.41	35.9
	0950	60	89.33	10.03	1180	-	2.13	26.56	37.0
	1000	90	89.32	9.96	1179	-	1.96	26.58	35.9
	1010	120	89.33	10.04	1184	-	1.84	26.71	33.4
	1015	135	89.33	10.04	1182	-	1.71	26.67	33.5
	1020	150	89.33	10.02	1181	-	1.72	26.68	33.6
	1025	165	89.33	10.02	1180	-	1.69	26.65	33.3

Volume Purged Prior to Sample Collection: ~~54.3~~ 165 Depth to Water during Sample Collection: 89.33

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-6M-M-091211

55 min, 3 gpm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-6D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/12/11

Project Number: 0096498.030 Sample Time: 0921

Screened Interval: 230-250 Initial Depth to Water (ft): 86.67

Measured Well Depth (ft): 261 Length of Water Column (ft): 174.3

Well Inner Diameter (in): 4" 1 Well Volume (gal): 113.8x3 = 342

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/12/11	0846	0	86.65	10.00	1502	-	5.31	24.57	77.2
	0856	100	86.67	10.12	1563	-	4.49	24.29	67.6
	0901	150	86.68	10.12	1565	-	4.02	24.28	65.7
	0906	200	86.68	10.12	1679	-	3.48	24.33	60.1
	0911	250	86.69	10.12	1638	-	3.41	24.46	60.0
	0916	300	86.68	10.12	1609	-	3.35	24.51	58.6
	0921	350	86.68	10.12	1590	-	3.22	24.59	57.3

Volume Purged Prior to Sample Collection: 350 Depth to Water during Sample Collection: 86.68

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-6D-D-091211

10 gpm

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: BE-MW-8

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/12/11
Project Number: 0096498.030 Sample Time: 1624

Screened Interval: 75-105 Initial Depth to Water (ft): 85.48
Measured Well Depth (ft): 105 Length of Water Column (ft): 19.52
Well Inner Diameter (in): 4" 1 Well Volume (gal): 12.75 x 3 = 38

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A Nagh, K Johnson Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horriba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/12/11	1611	0	85.48	9.92	1345	–	0.86	26.60	61.50
	1616	15	85.50	9.92	1246	–	1.07	25.54	62.8
	1618	21	85.50	9.93	1216	–	1.27	25.31	59.7
	1620	27	85.50	9.93	1215	–	1.28	25.32	59.3
	1622	33	85.50	9.93	1213	–	1.28	25.31	59.0
	1624	39	85.50	9.93	1212	–	1.30	25.32	58.8

Volume Purged Prior to Sample Collection: 39 Depth to Water during Sample Collection: 85.50

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: Field blank
BE-MW-8-S-09211

3 gpm, 13 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-8M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/13/11

Project Number: 0096498.030 Sample Time: 1523

Screened Interval: 205.5-225.6 Initial Depth to Water (ft): 92.91

Measured Well Depth (ft): 228 Length of Water Column (ft): 135.1

Well Inner Diameter (in): 4" 1 Well Volume (gal): 88.2 x 3 x 265

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: H Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horiba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/13/11	1456	0	92.90	10.02	1869	–	0.95	25.49	63.0
	1506	100	92.92	9.91	1865	–	1.54	25.92	58.5
	1509	130	92.93	9.96	1843	–	1.61	24.51	57.0
	1512	160	92.93	9.47	1830	–	1.69	24.51	55.6
	1515	190	92.93	9.07	1827	–	1.75	25.48	52.1
	1518	220	92.93	9.05	1825	–	1.80	25.47	51.7
	1521	250	92.93	9.02	1821	–	1.84	25.38	51.9
	1523	270	92.93	9.01	1822	–	1.87	25.20	51.1

Volume Purged Prior to Sample Collection: 270 Depth to Water during Sample Collection: 92.93

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: Level III

10 gpm, 27 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-85

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/13/11

Project Number: 0096498.030 Sample Time: 13 20

Screened Interval: 59.9-110.5 Initial Depth to Water (ft): 93.13

Measured Well Depth (ft): 110.5 Length of Water Column (ft): 17.4

Well Inner Diameter (in): 4" 1 Well Volume (gal): 11.3 x 3 ≈ 34

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: M Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/13/11	1310	0	93.13	9.85	2240	–	1.43	26.93	49.6
	1312	6	93.14	9.84	2233	–	1.52	26.81	49.9
	1314	12	93.15	9.82	2225	–	1.68	26.74	50.3
	1316	18	93.15	9.82	2225	–	1.81	26.69	51.1
	1318	24	93.16	9.82	2224	–	1.83	26.71	51.3
	1320	30	93.16	9.82	2223	–	1.84	26.72	51.4
	1322	36	93.16	9.81	2221	–	1.81	26.70	52.1

Volume Purged Prior to Sample Collection: 36 Depth to Water during Sample Collection: 93.16

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks:

3 gpm, 12 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-8D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/13/11
Project Number: 0096498.030 Sample Time: 1301

Screened Interval: 260.5 - 270 Initial Depth to Water (ft): 90.80
Measured Well Depth (ft): 273 Length of Water Column (ft): 182.2
Well Inner Diameter (in): 4" 1 Well Volume (gal): 119 x 3 ≈ 357

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K. Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horriba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
1243	1243	0	90.80	10.21	1155	—	1.26	25.38	74.4
	1246	60	90.83	10.19	1142	—	1.44	24.89	69.9
	1249	120	90.89	10.21	1143	—	1.78	25.00	67.2
	1252	180	90.91	10.23	1143	—	1.96	25.14	66.1
	1255	240	90.92	10.21	1145	—	2.04	25.18	65.4
	1258	300	90.92	10.22	1147	—	2.07	25.21	65.5
	1301	360	90.92	10.22	1151	—	2.08	25.29	65.9

Volume Purged Prior to Sample Collection: 360 Depth to Water during Sample Collection: 90.92

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-8D-D-091311

20 gpm, 18 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3- 10M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/13/11

Project Number: 0096498.030 Sample Time: 0935

Screened Interval: 199.2 - 219.2 Initial Depth to Water (ft): 98.89

Measured Well Depth (ft): 225 Length of Water Column (ft): 126.1

Well Inner Diameter (in): 4" 1 Well Volume (gal): 82.3 x 3 = 247

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagl Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horiba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/13/11	910	0	98.89	10.51	12.67	-	6.81	25.80	32.6
	915	50	98.93	10.44	12.57	-	7.66	25.31	38.8
	920	100	98.95	10.37	12.58	-	7.32	25.31	39.3
	925	150	98.96	10.29	12.58	-	5.02	25.33	36.9
	930	200	98.96	10.23	12.58	-	3.71	25.34	36.3
	935	250	98.96	10.21	12.58	-	3.08	25.35	36.2

Volume Purged Prior to Sample Collection: 250 Depth to Water during Sample Collection: 98.96

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x2	--

Remarks: Duplicate
OU3-10M2-M-091311
OU3-10M2-M-091311-QI

10 gpm, 25 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-10M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/13/11

Project Number: 0096498.030 Sample Time: 1119

Screened Interval: 146.7 - 166.7 Initial Depth to Water (ft): 98.70

Measured Well Depth (ft): 170 ~~146.7 - 166.7~~ Length of Water Column (ft): 71.3

Well Inner Diameter (in): 4" 1 Well Volume (gal): 46.5 x 3 ≈ 140

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A Nagh, K Johnson Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (~~mS~~ µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/13/11	1032	0	98.70	9.87	1288	-	2.03	26.21	53.9
	1042	30	98.71	9.84	1267	-	1.90	26.35	46.8
	1052	60	98.71	9.86	1267	-	1.80	26.41	36.6
	1057	75	98.72	9.85	1265	-	1.71	26.45	32.9
	1102	90	98.72	9.85	1265	-	1.70	26.40	35.7
	1107	105	98.72	9.85	1264	-	1.68	26.39	39.
	1112	120	98.72	9.85	1264	-	1.68	26.38	42.1
	1117	135	98.72	9.85	1264	-	1.68	26.39	41.0
	1119	141	98.72	9.85	1264	-	1.65	26.37	40.3

Volume Purged Prior to Sample Collection: 141 Depth to Water during Sample Collection: 98.72

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-10M-M-091311

3 gpm, 47 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-55R

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: ~~8~~ 9/14/11

Project Number: 0096498.030 Sample Time: 1051

Screened Interval: 69.7 - 119.7 Initial Depth to Water (ft): 91.50

Measured Well Depth (ft): 120 Length of Water Column (ft): 28.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 18.6 x 3 ≈ 55.8

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagl Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/14	1033	0	91.50	6.42	1490	–	3.53	26.32	32.0
	1038	15	91.59	6.40	1539	–	3.70	26.36	30.4
	1043	30	91.67	6.40	1540	–	3.73	26.30	33.6
	1046	39	91.75	6.39	1537	–	3.66	26.28	35.5
	1049	48	91.75	6.38	1535	–	3.52	26.28	36.2
	1051	57	91.75	6.39	1534	–	3.74	26.28	36.0
	~~1052~~								

Volume Purged Prior to Sample Collection: 57 Depth to Water during Sample Collection: 91.75

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x2	--

Remarks: level III

3 gpm, 19 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3 - 115

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/14/11

Project Number: 0096498.030 Sample Time: 0910

Screened Interval: 69.7 - 119.7 Initial Depth to Water (ft): 88.46

Measured Well Depth (ft): 123 Length of Water Column (ft): 34.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 22.5 x 3 ≈ 68

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A Nagl, K Johnson Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/14/11	0847	0	88.46	6.53	1094	-	2.51	25.53	43.3
	0857	30	88.49	6.43	1176	-	2.32	26.20	42.2
9	1000	39	88.49	6.43	1179	-	2.35	26.31	43.9
9	1003	48	88.49	6.43	1180	-	2.33	26.40	44.6
9	1006	57	88.49	6.43	1183	-	2.33	26.45	45.1
9	1009	66	88.49	6.42	1176	-	2.34	26.39	45.4
9	1010	69	88.50	6.42	1176	-	2.34	26.38	45.4

Volume Purged Prior to Sample Collection: 69 Depth to Water during Sample Collection: 88.50

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-115-S-0914 11

3 gpm, 23 min, level III

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-11M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/14/11

Project Number: 0096498.030 Sample Time: 0718

Screened Interval: 196.7- 216.7 Initial Depth to Water (ft): 88.39

Measured Well Depth (ft): 230 Length of Water Column (ft): 141.6

Well Inner Diameter (in): 4" 1 Well Volume (gal): 92.5 x 3 = 278

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K. Johnson, A Nugh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horiba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/14/11	0650	0	88.39	7.20	1087	-	5.90	24.08	52.5
	0655	50	89.41	7.03	1083	-	4.75	23.93	52.6
7	0700	100	92.42	6.91	1081	-	3.87	23.85	52.6
7	0705	150	94.42	6.77	1087	-	3.30	24.25	51.6
7	0710	200	94.42	6.68	1086	-	3.16	24.24	53.0
7	0715	250	94.42	6.68	1086	-	3.10	24.31	51.9
7	0718	280	94.42	6.67	1089	-	2.92	24.37	51.1

Volume Purged Prior to Sample Collection: 280 Depth to Water during Sample Collection: 94.42

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: 10 gpm; 28 min

OU3-11M2-M-091411

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3 11M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/14/11

Project Number: 0096498.030 Sample Time: 0822

Screened Interval: ~~153.7-173.7~~ 153.7-173.7 Initial Depth to Water (ft): 88.54

Measured Well Depth (ft): 178 Length of Water Column (ft): 89.46

Well Inner Diameter (in): 4" 1 Well Volume (gal): 58.4 x 3 ≈ 175

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K. Johnson A. Nagl Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date 9/14/11	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
722	~~0722~~	0	88.55	6.71	10 82	–	2.28	26.21	45.0
732	~~0632~~	30	88.57	6.62	10 59	–	2.31	25.85	48.1
742	~~0642~~	60	88.57	6.58	10 65	–	2.24	25.74	46.9
752		90	88.57	6.54	10 68	–	2.16	25.74	46.5
802		120	88.57	6.53	10 68	–	2.12	25.73	45.5
812		150	88.57	6.53	10 68	–	2.10	25.71	45.4
815		159	88.57	6.53	10 68	–	2.10	25.72	44.8
818		168	88.57	6.53	10 67	–	2.16	25.72	45.0
822		180	88.57	6.52	10 67	–	2.08	25.72	45.3

Volume Purged Prior to Sample Collection: 180 Depth to Water during Sample Collection: 8857

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-11M-M-091411

3 gpm, 60 min, ~~[illegible]~~

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/14/11
Project Number: 0096498.030 Sample Time: 1139

Screened Interval: 202.7 - 222.7 Initial Depth to Water (ft): 91.60
Measured Well Depth (ft): 253 Length of Water Column (ft): 161.4
Well Inner Diameter (in): 4" 1 Well Volume (gal): 105.4 x 3 ≈ 316

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horriba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/14/11	1107	0	91.60	6.43	1507	-	1.94	26.67	39.8
	1117	100	92.08	6.35	1437	-	1.95	24.92	37.5
	1122	150	92.08	6.47	1438	-	2.07	24.81	35.5
	1127	200	92.08	6.36	1439	-	1.99	25.10	34.4
	1132	250	92.08	6.41	1444	-	1.94	25.17	33.9
	1135	280	92.06	6.47	1451	-	2.12	25.57	33.2
	1137	300	92.06	6.49	1459	-	2.11	25.58	33.8
	1139	320	92.06	6.46	1462	-	2.11	25.65	34.6

Volume Purged Prior to Sample Collection: 320 Depth to Water during Sample Collection: 92.06

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-5M2-M-091411, MS/MSD

1.5 gpm, 32 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5MR

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/14/11

Project Number: 0096498.030 Sample Time: 1253

Screened Interval: 148.7 - 168.7 Initial Depth to Water (ft): 91.65

Measured Well Depth (ft): 169 Length of Water Column (ft): 77.30

Well Inner Diameter (in): 4" 1 Well Volume (gal): 50.5 x 3 ≈ 152

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: B Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horiba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/14/11	1202	0	91.85	6.45	1538	–	2.16	26.74	38.9
	1212	30	91.95	6.33	1560	–	2.28	27.80	36.1
	1222	60	91.95	6.23	1518	–	2.12	26.41	36.0
	1232	90	91.95	6.17	1509	–	2.13	26.37	35.1
	1242	120	91.95	6.12	1505	–	2.12	26.43	36.8
	1245	129	91.95	6.08	1501	–	2.12	26.36	34.4
	1248	137	91.95	6.11	1501	–	2.13	26.41	34.0
	1251	146	91.95	6.08	1501	–	2.13	26.42	33.8
	1253	152	91.95	6.10	1501	–	2.13	26.43	33.5

Volume Purged Prior to Sample Collection: 152 Depth to Water during Sample Collection: 91.95

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 1	--

Remarks: OU3-5MR-M-091411, Duplicate

3 gpm, 51 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5DR

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/14/11

Project Number: 0096498.030 Sample Time: 1406

Screened Interval: 232.7 - 252.7 Initial Depth to Water (ft): 87.49

Measured Well Depth (ft): 253 Length of Water Column (ft): 165.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 108.1 x 3 ≈ 325

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson A Nagl Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/14	1333	0	87.49	6.73	1301	-	2.19	30.78	4.8
	1343	100	88.73	6.33	1385	-	1.88	24.32	20.6
	1353	200	89.81	6.40	1409	-	2.39	24.33	22.5
	1358	250	89.80	6.31	1410		2.37	24.38	~~26~~ 27.4
	1401	280	89.80	6.33	1410	-	2.35	24.32	28.1
	1404	310	89.80	6.34	1411	-	2.35	24.42	28.5
	1406	330	89.80	6.34	1412	-	2.36	24.51	28.7

Volume Purged Prior to Sample Collection: 330 Depth to Water during Sample Collection: 89.80

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-5DR-D-091411

18 gpm, 33 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-20

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/15/11

Project Number: 0096498.030 Sample Time: 1351

Screened Interval: 59 - 109 Initial Depth to Water (ft): 92.47

Measured Well Depth (ft): 109 Length of Water Column (ft): 16.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 10.8 x 3 = 33

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagl Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/15/11	1340	0	92.48	6.41	1706	–	2.02	28.85	57.2
	1343	9	92.73	6.22	1704	–	1.34	26.82	65.1
	1345	15	92.74	6.19	1703	–	1.78	26.70	58.4
	1347	21	92.74	6.17	1700	–	1.98	26.39	56.8
	1349	27	92.74	6.16	1699	–	2.01	26.31	56.3
	1351	33	92.74	6.16	1699	–	2.05	26.26	56.2

Volume Purged Prior to Sample Collection: 33 Depth to Water during Sample Collection: 92.74

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: Duplicate ~~003~~
EW-20-S-091511
EW-20-S-091511-Q1

3 gpm, 11 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-2M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/15/11
Project Number: 0096498.030 Sample Time: 1304

Screened Interval: 150-170 Initial Depth to Water (ft): 86.08
Measured Well Depth (ft): 175 Length of Water Column (ft): 88.9
Well Inner Diameter (in): 4" 1 Well Volume (gal): 58 x 3 = 174

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horriba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/15/11	1206	0	86.08	6.22	1393	–	2.15	27.13	24.0
	1216	30	86.17	6.24	1388	–	2.14	27.10	25.2
	1226	60	86.17	6.26	1392	–	1.99	27.14	36.7
	1236	90	86.18	6.22	1387	–	1.97	26.92	46.7
	1246	120	86.18	6.22	1380	–	1.95	26.67	49.6
	1251	135	86.18	6.20	1386	–	2.11	26.94	44.0
	1256	150	86.18	6.25	1391	–	2.09	27.10	44.6
	1301	165	86.18	6.25	1394	–	2.04	27.22	45.9
	1304	174	86.18	6.24	1394	–	2.02	27.25	46.0

Volume Purged Prior to Sample Collection: 174 Depth to Water during Sample Collection: 86.18

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 1	--

Remarks: Level III

* well casing deteriated / caved in @ 10ft bgs *

OU3-2M-M-091511

3 gpm, 58 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-19S

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/15/11

Project Number: 0096498.030 Sample Time: 1118

Screened Interval: 57-107 Initial Depth to Water (ft): 85.87

Measured Well Depth (ft): 112 Length of Water Column (ft): 26.13

Well Inner Diameter (in): 4" 1 Well Volume (gal): 17 x 3 ≈ 51

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/15/11	1101	0	85.90	6.43	1475	–	1.71	27.44	36.9
	1106	15	86.35	6.17	1449	–	1.82	27.16	36.9
	1109	24	86.34	6.15	1448	–	1.80	27.18	36.9
	1112	33	86.35	6.14	1449	–	1.79	27.18	37.1
	1115	42	86.35	6.14	1449	–	1.78	27.20	37.0
	1118	51	86.35	6.12	1449	–	1.84	27.15	36.8

Volume Purged Prior to Sample Collection: 51 Depth to Water during Sample Collection: 86.35

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: MS/MSD

EW-19S-S-091511, EW-19S-S-091511-MSMSD

3 gpm, 17 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-19 D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/15/11

Project Number: 0096498.030 Sample Time: 1052

Screened Interval: 247-267 Initial Depth to Water (ft): 79.63

Measured Well Depth (ft): 270 Length of Water Column (ft): 190.4

Well Inner Diameter (in): 4" 1 Well Volume (gal): 124.3 x 3 ≈ 373

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/15/11	1014	0	79.63	7.65	1989	~	1.51	27.32	~~35~~ 81.2
	1024	100	82.41	6.64	1520	~	2.14	24.85	20.9
	1034	200	82.49	6.72	1557	~	2.26	26.17	28.8
	1039	250	82.49	6.76	1581	~	2.22	26.02	29.7
	1044	300	82.49	6.76	1586	~	2.21	25.86	30.8
	1048	340	82.49	6.67	1536	~	2.11	25.78	30.0
	1052	380	82.49	6.64	1525	~	1.82	25.69	30.2

Volume Purged Prior to Sample Collection: 380 Depth to Water during Sample Collection: 1052

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x2	--

Remarks: EW-19D-D-091511

10 gpm, 38 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-13M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/15/11

Project Number: 0096498.030 Sample Time: 0902

Screened Interval: 154.7 - 174.7 Initial Depth to Water (ft): 90.34

Measured Well Depth (ft): 175 Length of Water Column (ft): 84.7

Well Inner Diameter (in): 4" 1 Well Volume (gal): 55.3 x 3 = 166

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: ~~Horriba~~ YSI

Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (~~µ~~S/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/15/11	0807	0	90.34	6.08	2447	–	2.34	25.18	66.1
	0817	30	90.65	6.11	2463	–	2.39	25.37	59.0
	0827	60	90.66	6.15	2482	–	2.36	25.64	50.2
	0837	90	90.66	6.20	2489	–	1.89	25.57	57.4
	0847	120	90.66	6.22	25.00	–	1.82	25.83	51.9
	0852	~~150~~ 135	90.66	6.18	2492	–	1.82	25.86	
	0857	~~18~~ 150	~~90~~.66	6.17	2486	–	1.83	~~25~~.89	47.8
	0902	165	90.66	6.17	2486	–	1.83	25.89	46.6

Volume Purged Prior to Sample Collection: 165 Depth to Water during Sample Collection: 90.66

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: OU3-13M-M-091511

3 gpm, 55 min

GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-13D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 9/15/11
Project Number: 0096498.030 Sample Time: 0756

Screened Interval: 224.7 - 244.7 Initial Depth to Water (ft): 98.10
Measured Well Depth (ft): 250 Length of Water Column (ft): 151.9
Well Inner Diameter (in): 4" 1 Well Volume (gal): 99.2 x 3 ≈ 297

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: K Johnson, A Nagh Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: ~~Horriba~~ YSI
Sampling Method/Equipment: Pump

Stabilization Test:

Date	Time	Cummulative Volume (gal)	Depth to Water (ft)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppt)	Temperature (C)	ORP (mV)
9/15	0726	0	98.10	6.59	1669	—	—	23.85	43.2
	0736	100	100.01	6.64	1759	—	—	24.43	40.9
	0741	150	100.86	6.66	1763	—	—	24.75	40.1
	0746	200	100.86	6.67	1771	—	—	24.85	37.8
	0751	250	100.86	6.67	1771	—	—	24.89	37.9
	0756	300	100.86	6.67	1772	—	—	24.94	37.6

Volume Purged Prior to Sample Collection: 300 Depth to Water during Sample Collection:

Analysis/Parameter	Container/Volume	Preservative/Preparation
VOC	40 mL VOA x 3	HCl
1,4-Dioxane	1L Amber x 2	--

Remarks: Level III
10 gpm, 30 min
OU3-13D-D-091511

DO Reading 999.99, will clean sensor after purge.

Appendix B
Laboratory Analytical Results

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.030 OU3

Sampled: 09/08/11
Received: 09/08/11
Revised: 11/21/11 15:14

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0468-01	OU3-4S-S-090811	Water
PUI0468-02	OU3-7S-S-090811	Water
PUI0468-03	OU3-7M2-M-090811	Water
PUI0468-04	OU3-14M-M-090811	Water
PUI0468-05	OU3-14D-D-090811	Water
PUI0468-06	GW-EB1-090811	Water
PUI0468-07	GW-L1-1-090811	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-01 (OU3-4S-S-090811 - Water) **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0411	10	ND	1	9/13/2011	9/13/2011	
Benzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromodichloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromoform	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Bromomethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Butanone (MEK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
sec-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
tert-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Carbon disulfide	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Carbon tetrachloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloroethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Chloroform	EPA 8260B	11I0411	0.50	**0.97**	1	9/13/2011	9/13/2011	
Chloromethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
4-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromomethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dichlorodifluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
2,2-Dichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Ethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Hexachlorobutadiene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-01 (OU3-4S-S-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Iodomethane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Isopropylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
p-Isopropyltoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Methylene Chloride	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Naphthalene	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Propylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Styrene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Tetrachloroethene	EPA 8260B	11I0411	0.50	**2.5**	1	9/13/2011	9/13/2011	
Toluene	EPA 8260B	11I0411	0.50	**0.89**	1	9/13/2011	9/13/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichlorofluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Vinyl Acetate	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Vinyl chloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Xylenes, Total	EPA 8260B	11I0411	1.5	ND	1	9/13/2011	9/13/2011	
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Surrogate: Dibromofluoromethane (80-130%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0468-02 (OU3-7S-S-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Sample ID: PUI0468-02RE1 (OU3-7S-S-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0469	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0469	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0469	0.50	**1.2**	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0469	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-02RE1 (OU3-7S-S-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
trans-1,3-Dichloropropene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
2-Hexanone	EPA 8260B	11I0469	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0469	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0469	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0469	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0469	0.50	**2.8**	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0469	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0469	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0469	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0469	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*89 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0468-03 (OU3-7M2-M-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0411	10	ND	1	9/13/2011	9/13/2011	
Benzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromodichloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromoform	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Bromomethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Butanone (MEK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
sec-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
tert-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Carbon disulfide	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Carbon tetrachloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloroethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Chloroform	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloromethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
4-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromomethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dichlorodifluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
2,2-Dichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Ethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Hexachlorobutadiene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-03 (OU3-7M2-M-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Iodomethane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Isopropylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
p-Isopropyltoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Methylene Chloride	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Naphthalene	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Propylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Styrene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	M2
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Tetrachloroethene	EPA 8260B	11I0411	0.50	**1.5**	1	9/13/2011	9/13/2011	
Toluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichloroethene	EPA 8260B	11I0411	0.50	**1.1**	1	9/13/2011	9/13/2011	
Trichlorofluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Vinyl Acetate	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Vinyl chloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Xylenes, Total	EPA 8260B	11I0411	1.5	ND	1	9/13/2011	9/13/2011	
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Surrogate: Dibromofluoromethane (80-130%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-04 (OU3-14M-M-090811 - Water) **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0411	10	ND	1	9/13/2011	9/13/2011	
Benzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromodichloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromoform	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Bromomethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Butanone (MEK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
sec-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
tert-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Carbon disulfide	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Carbon tetrachloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloroethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Chloroform	EPA 8260B	11I0411	0.50	**0.58**	1	9/13/2011	9/13/2011	
Chloromethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
4-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromomethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dichlorodifluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
2,2-Dichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Ethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Hexachlorobutadiene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-04 (OU3-14M-M-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Iodomethane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Isopropylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
p-Isopropyltoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Methylene Chloride	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Naphthalene	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Propylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Styrene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Tetrachloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Toluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichlorofluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Vinyl Acetate	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Vinyl chloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Xylenes, Total	EPA 8260B	11I0411	1.5	ND	1	9/13/2011	9/13/2011	
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Surrogate: Dibromofluoromethane (80-130%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*95 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-05 (OU3-14D-D-090811 - Water) **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0411	10	ND	1	9/13/2011	9/13/2011	
Benzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromodichloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromoform	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Bromomethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Butanone (MEK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
sec-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
tert-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Carbon disulfide	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Carbon tetrachloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloroethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Chloroform	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloromethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
4-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromomethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dichlorodifluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
2,2-Dichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Ethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Hexachlorobutadiene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-05 (OU3-14D-D-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Iodomethane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Isopropylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
p-Isopropyltoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Methylene Chloride	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Naphthalene	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Propylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Styrene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Tetrachloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Toluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichlorofluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Vinyl Acetate	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Vinyl chloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Xylenes, Total	EPA 8260B	11I0411	1.5	ND	1	9/13/2011	9/13/2011	
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Surrogate: Dibromofluoromethane (80-130%)				*90 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*93 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-06 (GW-EB1-090811 - Water) **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0411	10	ND	1	9/13/2011	9/13/2011	
Benzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromodichloromethane	EPA 8260B	11I0411	0.50	**3.1**	1	9/13/2011	9/13/2011	
Bromoform	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Bromomethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Butanone (MEK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
sec-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
tert-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Carbon disulfide	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Carbon tetrachloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloroethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Chloroform	EPA 8260B	11I0411	0.50	**6.4**	1	9/13/2011	9/13/2011	
Chloromethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
4-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromochloromethane	EPA 8260B	11I0411	0.50	**1.8**	1	9/13/2011	9/13/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromomethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dichlorodifluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
2,2-Dichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Ethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Hexachlorobutadiene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-06 (GW-EB1-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Iodomethane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Isopropylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
p-Isopropyltoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Methylene Chloride	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Naphthalene	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Propylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Styrene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Tetrachloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Toluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichlorofluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Vinyl Acetate	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Vinyl chloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Xylenes, Total	EPA 8260B	11I0411	1.5	ND	1	9/13/2011	9/13/2011	
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Surrogate: Dibromofluoromethane (80-130%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-07 (GW-L1-1-090811 - Water) **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0411	10	ND	1	9/13/2011	9/13/2011	
Benzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromodichloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Bromoform	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Bromomethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Butanone (MEK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
sec-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
tert-Butylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Carbon disulfide	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Carbon tetrachloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloroethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Chloroform	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Chloromethane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
2-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
4-Chlorotoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromochloromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dibromomethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Dichlorodifluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3-Dichloropropane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
2,2-Dichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Ethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Hexachlorobutadiene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0468-07 (GW-L1-1-090811 - Water) - cont. **Sampled: 09/08/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Iodomethane	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Isopropylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
p-Isopropyltoluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Methylene Chloride	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Naphthalene	EPA 8260B	11I0411	2.5	ND	1	9/13/2011	9/13/2011	
n-Propylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Styrene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Tetrachloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Toluene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichloroethene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Trichlorofluoromethane	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Vinyl Acetate	EPA 8260B	11I0411	1.0	ND	1	9/13/2011	9/13/2011	
Vinyl chloride	EPA 8260B	11I0411	0.50	ND	1	9/13/2011	9/13/2011	
Xylenes, Total	EPA 8260B	11I0411	1.5	ND	1	9/13/2011	9/13/2011	
Freon 113	EPA 8260B	11I0411	2.0	ND	1	9/13/2011	9/13/2011	
Surrogate: Dibromofluoromethane (80-130%)				*87 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*88 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0468-01 (OU3-4S-S-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0331	1.0	ND	1	9/11/2011	9/12/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*62 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*86 %*				
Sample ID: PUI0468-02 (OU3-7S-S-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0331	1.0	ND	1	9/11/2011	9/12/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*55 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*75 %*				
Sample ID: PUI0468-03 (OU3-7M2-M-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0331	1.0	ND	1	9/11/2011	9/12/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*54 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*76 %*				
Sample ID: PUI0468-04 (OU3-14M-M-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0331	1.0	ND	1	9/11/2011	9/12/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*64 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*84 %*				
Sample ID: PUI0468-05 (OU3-14D-D-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0331	1.0	ND	1	9/11/2011	9/12/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*69 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*89 %*				
Sample ID: PUI0468-06 (GW-EB1-090811 - Water)					**Sampled: 09/08/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0331	1.0	ND	1	9/11/2011	9/12/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*66 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*86 %*				

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Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
Blank Analyzed: 09/13/2011 (11I0411-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
Blank Analyzed: 09/13/2011 (11I0411-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*92*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
LCS Analyzed: 09/13/2011 (11I0411-BS1)										
Acetone	20.2	10	ug/l	25.0		81	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	28.2	0.50	ug/l	25.0		113	80-120			
Bromochloromethane	22.8	0.50	ug/l	25.0		91	80-125			
Bromodichloromethane	21.7	0.50	ug/l	25.0		87	80-120			
Bromoform	27.2	1.0	ug/l	25.0		109	75-130			
Bromomethane	24.0	1.0	ug/l	25.0		96	55-150			
2-Butanone (MEK)	23.5	2.5	ug/l	25.0		94	40-150			
n-Butylbenzene	26.8	0.50	ug/l	25.0		107	80-130			
sec-Butylbenzene	27.8	0.50	ug/l	25.0		111	80-125			
tert-Butylbenzene	27.0	0.50	ug/l	25.0		108	80-120			
Carbon disulfide	22.6	1.0	ug/l	25.0		90	70-140			
Carbon tetrachloride	24.7	0.50	ug/l	25.0		99	75-130			
Chlorobenzene	28.9	0.50	ug/l	25.0		116	80-120			
Chloroethane	23.2	1.0	ug/l	25.0		93	70-130			
Chloroform	22.3	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.5	1.0	ug/l	25.0		78	60-140			
2-Chlorotoluene	25.3	0.50	ug/l	25.0		101	80-120			
4-Chlorotoluene	25.5	0.50	ug/l	25.0		102	80-120			
Dibromochloromethane	25.6	0.50	ug/l	25.0		102	80-120			
1,2-Dibromo-3-chloropropane	28.5	2.5	ug/l	25.0		114	50-150			
1,2-Dibromoethane (EDB)	25.9	0.50	ug/l	25.0		104	80-120			
Dibromomethane	22.8	0.50	ug/l	25.0		91	75-120			
1,2-Dichlorobenzene	28.8	0.50	ug/l	25.0		115	80-120			
1,3-Dichlorobenzene	29.0	0.50	ug/l	25.0		116	80-120			
1,4-Dichlorobenzene	28.7	0.50	ug/l	25.0		115	80-120			
Dichlorodifluoromethane	18.3	0.50	ug/l	25.0		73	60-150			
1,1-Dichloroethane	21.8	0.50	ug/l	25.0		87	70-125			
1,2-Dichloroethane	20.4	0.50	ug/l	25.0		82	75-130			
1,1-Dichloroethene	23.0	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.2	0.50	ug/l	25.0		85	80-120			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120			
1,2-Dichloropropane	22.9	0.50	ug/l	25.0		92	80-120			
1,3-Dichloropropane	25.2	0.50	ug/l	25.0		101	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
LCS Analyzed: 09/13/2011 (11I0411-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	23.2	0.50	ug/l	25.0		93	80-120			
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		90	80-125			
Ethylbenzene	27.1	0.50	ug/l	25.0		108	80-120			
Hexachlorobutadiene	30.3	1.0	ug/l	25.0		121	40-150			
2-Hexanone	21.3	2.5	ug/l	25.0		85	20-150			
Iodomethane	31.0	2.5	ug/l	25.0		124	80-130			
Isopropylbenzene	28.1	0.50	ug/l	25.0		113	80-130			
p-Isopropyltoluene	27.4	0.50	ug/l	25.0		110	80-130			
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120			
4-Methyl-2-pentanone (MIBK)	20.7	2.5	ug/l	25.0		83	60-135			
Methyl-tert-butyl Ether (MTBE)	18.8	0.50	ug/l	25.0		75	70-130			
Naphthalene	28.2	2.5	ug/l	25.0		113	40-150			
n-Propylbenzene	26.9	0.50	ug/l	25.0		107	75-130			
Styrene	25.5	0.50	ug/l	25.0		102	80-120			
1,1,1,2-Tetrachloroethane	28.3	0.50	ug/l	25.0		113	75-125			
1,1,2,2-Tetrachloroethane	26.7	0.50	ug/l	25.0		107	80-120			
Tetrachloroethene	29.4	0.50	ug/l	25.0		118	70-130			
Toluene	25.6	0.50	ug/l	25.0		102	80-120			
1,2,3-Trichlorobenzene	31.4	1.0	ug/l	25.0		126	55-150			
1,2,4-Trichlorobenzene	31.0	1.0	ug/l	25.0		124	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0		91	75-125			
1,1,2-Trichloroethane	24.0	0.50	ug/l	25.0		96	80-120			
Trichloroethene	25.2	0.50	ug/l	25.0		101	80-120			
Trichlorofluoromethane	25.1	0.50	ug/l	25.0		100	70-150			
1,2,3-Trichloropropane	23.9	1.0	ug/l	25.0		95	70-130			
1,2,4-Trimethylbenzene	27.0	0.50	ug/l	25.0		108	80-120			
1,3,5-Trimethylbenzene	27.1	0.50	ug/l	25.0		108	80-130			
Vinyl Acetate	19.0	1.0	ug/l	25.0		76	40-150			
Vinyl chloride	24.2	0.50	ug/l	25.0		97	70-130			
Xylenes, Total	55.6	1.5	ug/l	50.0		111	60-140			
Freon 113	25.1	2.0	ug/l	25.0		100	60-140			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

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Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
LCS Dup Analyzed: 09/13/2011 (11I0411-BSD1)										
Acetone	17.6	10	ug/l	25.0		71	10-150	14	35	
Benzene	23.9	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	26.2	0.50	ug/l	25.0		105	80-120	7	15	
Bromochloromethane	21.6	0.50	ug/l	25.0		86	80-125	6	15	
Bromodichloromethane	20.9	0.50	ug/l	25.0		83	80-120	4	15	
Bromoform	24.7	1.0	ug/l	25.0		99	75-130	10	20	
Bromomethane	22.8	1.0	ug/l	25.0		91	55-150	5	20	
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150	22	35	
n-Butylbenzene	24.5	0.50	ug/l	25.0		98	80-130	9	15	
sec-Butylbenzene	25.4	0.50	ug/l	25.0		102	80-125	9	15	
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120	9	15	
Carbon disulfide	21.3	1.0	ug/l	25.0		85	70-140	6	15	
Carbon tetrachloride	23.8	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.6	0.50	ug/l	25.0		102	80-120	12	15	
Chloroethane	23.0	1.0	ug/l	25.0		92	70-130	1	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.8	1.0	ug/l	25.0		75	60-140	4	20	
2-Chlorotoluene	23.3	0.50	ug/l	25.0		93	80-120	8	15	
4-Chlorotoluene	23.8	0.50	ug/l	25.0		95	80-120	7	15	
Dibromochloromethane	21.8	0.50	ug/l	25.0		87	80-120	16	15	*R6*
1,2-Dibromo-3-chloropropane	21.3	2.5	ug/l	25.0		85	50-150	29	35	
1,2-Dibromoethane (EDB)	22.7	0.50	ug/l	25.0		91	80-120	13	15	
Dibromomethane	22.2	0.50	ug/l	25.0		89	75-120	3	15	
1,2-Dichlorobenzene	25.4	0.50	ug/l	25.0		102	80-120	13	15	
1,3-Dichlorobenzene	26.3	0.50	ug/l	25.0		105	80-120	10	15	
1,4-Dichlorobenzene	26.2	0.50	ug/l	25.0		105	80-120	9	15	
Dichlorodifluoromethane	17.0	0.50	ug/l	25.0		68	60-150	7	30	
1,1-Dichloroethane	20.8	0.50	ug/l	25.0		83	70-125	5	15	
1,2-Dichloroethane	19.0	0.50	ug/l	25.0		76	75-130	7	15	
1,1-Dichloroethene	21.6	0.50	ug/l	25.0		87	75-125	6	20	
cis-1,2-Dichloroethene	20.1	0.50	ug/l	25.0		80	80-120	6	15	
trans-1,2-Dichloroethene	21.3	0.50	ug/l	25.0		85	80-120	4	15	
1,2-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120	3	15	
1,3-Dichloropropane	20.7	0.50	ug/l	25.0		83	80-120	20	15	*R6*
2,2-Dichloropropane	20.0	1.0	ug/l	25.0		80	75-130	5	15	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
LCS Dup Analyzed: 09/13/2011 (11I0411-BSD1)										
1,1-Dichloropropene	22.3	0.50	ug/l	25.0		89	75-120	1	15	
cis-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-120	12	15	
trans-1,3-Dichloropropene	20.0	0.50	ug/l	25.0		80	80-125	11	15	
Ethylbenzene	24.4	0.50	ug/l	25.0		98	80-120	10	15	
Hexachlorobutadiene	27.1	1.0	ug/l	25.0		108	40-150	11	35	
2-Hexanone	17.5	2.5	ug/l	25.0		70	20-150	20	35	
Iodomethane	27.8	2.5	ug/l	25.0		111	80-130	11	10	*R6*
Isopropylbenzene	26.4	0.50	ug/l	25.0		106	80-130	6	15	
p-Isopropyltoluene	25.2	0.50	ug/l	25.0		101	80-130	8	15	
Methylene Chloride	21.7	1.0	ug/l	25.0		87	70-120	5	15	
4-Methyl-2-pentanone (MIBK)	18.2	2.5	ug/l	25.0		73	60-135	13	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	3	20	
Naphthalene	25.2	2.5	ug/l	25.0		101	40-150	11	30	
n-Propylbenzene	24.9	0.50	ug/l	25.0		99	75-130	8	15	
Styrene	22.1	0.50	ug/l	25.0		89	80-120	14	15	
1,1,1,2-Tetrachloroethane	24.1	0.50	ug/l	25.0		96	75-125	16	15	*R6*
1,1,2,2-Tetrachloroethane	23.6	0.50	ug/l	25.0		94	80-120	12	20	
Tetrachloroethene	25.3	0.50	ug/l	25.0		101	70-130	15	20	
Toluene	22.8	0.50	ug/l	25.0		91	80-120	12	15	
1,2,3-Trichlorobenzene	27.3	1.0	ug/l	25.0		109	55-150	14	35	
1,2,4-Trichlorobenzene	27.0	1.0	ug/l	25.0		108	50-150	14	30	
1,1,1-Trichloroethane	21.4	0.50	ug/l	25.0		86	75-125	6	15	
1,1,2-Trichloroethane	21.5	0.50	ug/l	25.0		86	80-120	11	15	
Trichloroethene	23.8	0.50	ug/l	25.0		95	80-120	6	15	
Trichlorofluoromethane	23.8	0.50	ug/l	25.0		95	70-150	5	25	
1,2,3-Trichloropropane	22.3	1.0	ug/l	25.0		89	70-130	7	20	
1,2,4-Trimethylbenzene	24.2	0.50	ug/l	25.0		97	80-120	11	15	
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130	8	15	
Vinyl Acetate	18.7	1.0	ug/l	25.0		75	40-150	2	25	
Vinyl chloride	22.8	0.50	ug/l	25.0		91	70-130	6	20	
Xylenes, Total	48.9	1.5	ug/l	50.0		98	60-140	13	15	
Freon 113	23.6	2.0	ug/l	25.0		94	60-140	6	15	
Surrogate: Dibromofluoromethane	*23.4*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-125*			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
Matrix Spike Analyzed: 09/13/2011 (11I0411-MS1)					**Source: PUI0468-03**					
Acetone	14.0	10	ug/l	25.0	ND	56	10-150			
Benzene	24.5	0.50	ug/l	25.0	ND	98	70-125			
Bromobenzene	26.7	0.50	ug/l	25.0	ND	107	75-120			
Bromochloromethane	22.6	0.50	ug/l	25.0	ND	90	75-130			
Bromodichloromethane	21.2	0.50	ug/l	25.0	ND	85	75-125			
Bromoform	25.0	1.0	ug/l	25.0	ND	100	65-125			
Bromomethane	25.5	1.0	ug/l	25.0	ND	102	45-150			
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150			
n-Butylbenzene	25.1	0.50	ug/l	25.0	ND	100	70-130			
sec-Butylbenzene	26.3	0.50	ug/l	25.0	ND	105	70-125			
tert-Butylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-125			
Carbon disulfide	22.8	1.0	ug/l	25.0	ND	91	65-145			
Carbon tetrachloride	24.1	0.50	ug/l	25.0	ND	96	65-135			
Chlorobenzene	27.4	0.50	ug/l	25.0	ND	110	75-120			
Chloroethane	23.4	1.0	ug/l	25.0	ND	94	65-140			
Chloroform	23.0	0.50	ug/l	25.0	0.480	90	70-130			
Chloromethane	20.1	1.0	ug/l	25.0	0.240	79	55-145			
2-Chlorotoluene	24.9	0.50	ug/l	25.0	ND	100	70-125			
4-Chlorotoluene	24.5	0.50	ug/l	25.0	ND	98	70-125			
Dibromochloromethane	23.3	0.50	ug/l	25.0	ND	93	70-130			
1,2-Dibromo-3-chloropropane	22.1	2.5	ug/l	25.0	ND	88	50-150			
1,2-Dibromoethane (EDB)	23.7	0.50	ug/l	25.0	ND	95	70-125			
Dibromomethane	22.2	0.50	ug/l	25.0	ND	89	70-120			
1,2-Dichlorobenzene	26.3	0.50	ug/l	25.0	ND	105	75-120			
1,3-Dichlorobenzene	26.9	0.50	ug/l	25.0	ND	108	75-120			
1,4-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-125			
Dichlorodifluoromethane	17.4	0.50	ug/l	25.0	ND	70	60-150			
1,1-Dichloroethane	22.5	0.50	ug/l	25.0	ND	90	70-130			
1,2-Dichloroethane	20.1	0.50	ug/l	25.0	ND	80	65-140			
1,1-Dichloroethene	22.6	0.50	ug/l	25.0	ND	90	70-130			
cis-1,2-Dichloroethene	21.4	0.50	ug/l	25.0	ND	86	70-125			
trans-1,2-Dichloroethene	22.8	0.50	ug/l	25.0	ND	91	75-125			
1,2-Dichloropropane	23.2	0.50	ug/l	25.0	ND	93	75-125			
1,3-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
Matrix Spike Analyzed: 09/13/2011 (11I0411-MS1)					**Source: PUI0468-03**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130			
cis-1,3-Dichloropropene	22.8	0.50	ug/l	25.0	ND	91	75-130			
trans-1,3-Dichloropropene	21.2	0.50	ug/l	25.0	ND	85	70-130			
Ethylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-125			
Hexachlorobutadiene	26.8	1.0	ug/l	25.0	ND	107	40-150			
2-Hexanone	16.7	2.5	ug/l	25.0	ND	67	20-150			
Iodomethane	30.2	2.5	ug/l	25.0	ND	121	60-150			
Isopropylbenzene	27.4	0.50	ug/l	25.0	ND	109	75-130			
p-Isopropyltoluene	25.9	0.50	ug/l	25.0	ND	104	70-130			
Methylene Chloride	23.4	1.0	ug/l	25.0	ND	94	65-130			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0	ND	72	55-135			
Methyl-tert-butyl Ether (MTBE)	18.6	0.50	ug/l	25.0	ND	74	65-140			
Naphthalene	22.1	2.5	ug/l	25.0	ND	88	40-150			
n-Propylbenzene	25.9	0.50	ug/l	25.0	ND	104	70-130			
Styrene	18.4	0.50	ug/l	25.0	ND	74	55-135			
1,1,1,2-Tetrachloroethane	25.8	0.50	ug/l	25.0	ND	103	70-125			
1,1,2,2-Tetrachloroethane	22.9	0.50	ug/l	25.0	ND	92	70-125			
Tetrachloroethene	29.2	0.50	ug/l	25.0	1.47	111	65-130			
Toluene	25.5	0.50	ug/l	25.0	ND	102	70-125			
1,2,3-Trichlorobenzene	25.7	1.0	ug/l	25.0	ND	103	50-150			
1,2,4-Trichlorobenzene	26.3	1.0	ug/l	25.0	ND	105	50-150			
1,1,1-Trichloroethane	22.9	0.50	ug/l	25.0	ND	92	70-130			
1,1,2-Trichloroethane	22.1	0.50	ug/l	25.0	ND	89	75-125			
Trichloroethene	26.1	0.50	ug/l	25.0	1.08	100	70-125			
Trichlorofluoromethane	24.8	0.50	ug/l	25.0	ND	99	65-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0	ND	87	70-130			
1,2,4-Trimethylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
1,3,5-Trimethylbenzene	25.9	0.50	ug/l	25.0	ND	103	75-130			
Vinyl Acetate	16.3	1.0	ug/l	25.0	ND	65	40-150			
Vinyl chloride	23.6	0.50	ug/l	25.0	ND	94	60-140			
Xylenes, Total	51.7	1.5	ug/l	50.0	ND	103	75-120			
Freon 113	24.5	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*96*	*80-125*			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
Matrix Spike Dup Analyzed: 09/13/2011 (11I0411-MSD1)					**Source: PUI0468-03**					
Acetone	15.6	10	ug/l	25.0	ND	62	10-150	11	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	1	25	
Bromobenzene	25.8	0.50	ug/l	25.0	ND	103	75-120	4	20	
Bromochloromethane	22.1	0.50	ug/l	25.0	ND	88	75-130	2	20	
Bromodichloromethane	20.5	0.50	ug/l	25.0	ND	82	75-125	4	20	
Bromoform	23.1	1.0	ug/l	25.0	ND	92	65-125	8	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	21.1	2.5	ug/l	25.0	ND	84	15-150	13	30	
n-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	3	30	
sec-Butylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-125	3	30	
tert-Butylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-125	5	25	
Carbon disulfide	21.7	1.0	ug/l	25.0	ND	87	65-145	5	25	
Carbon tetrachloride	23.7	0.50	ug/l	25.0	ND	95	65-135	2	25	
Chlorobenzene	26.9	0.50	ug/l	25.0	ND	107	75-120	2	20	
Chloroethane	23.7	1.0	ug/l	25.0	ND	95	65-140	1	25	
Chloroform	22.2	0.50	ug/l	25.0	0.480	87	70-130	4	20	
Chloromethane	20.2	1.0	ug/l	25.0	0.240	80	55-145	0.4	35	
2-Chlorotoluene	23.1	0.50	ug/l	25.0	ND	92	70-125	7	25	
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125	7	25	
Dibromochloromethane	22.4	0.50	ug/l	25.0	ND	89	70-130	4	20	
1,2-Dibromo-3-chloropropane	19.9	2.5	ug/l	25.0	ND	80	50-150	11	30	
1,2-Dibromoethane (EDB)	24.2	0.50	ug/l	25.0	ND	97	70-125	2	20	
Dibromomethane	23.5	0.50	ug/l	25.0	ND	94	70-120	6	20	
1,2-Dichlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	6	20	
1,3-Dichlorobenzene	25.4	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	25.0	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	18.3	0.50	ug/l	25.0	ND	73	60-150	5	30	
1,1-Dichloroethane	21.8	0.50	ug/l	25.0	ND	87	70-130	3	20	
1,2-Dichloroethane	20.6	0.50	ug/l	25.0	ND	82	65-140	2	20	
1,1-Dichloroethene	23.2	0.50	ug/l	25.0	ND	93	70-130	3	25	
cis-1,2-Dichloroethene	21.2	0.50	ug/l	25.0	ND	85	70-125	1	20	
trans-1,2-Dichloroethene	21.6	0.50	ug/l	25.0	ND	86	75-125	5	25	
1,2-Dichloropropane	22.5	0.50	ug/l	25.0	ND	90	75-125	3	20	
1,3-Dichloropropane	23.9	0.50	ug/l	25.0	ND	96	70-120	5	20	
2,2-Dichloropropane	19.9	1.0	ug/l	25.0	ND	80	65-140	4	25	

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0411 Extracted: 09/13/11										
Matrix Spike Dup Analyzed: 09/13/2011 (11I0411-MSD1)					**Source: PUI0468-03**					
1,1-Dichloropropene	22.6	0.50	ug/l	25.0	ND	90	65-130	0.3	25	
cis-1,3-Dichloropropene	21.2	0.50	ug/l	25.0	ND	85	75-130	7	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	3	20	
Ethylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125	1	25	
Hexachlorobutadiene	26.8	1.0	ug/l	25.0	ND	107	40-150	0.2	30	
2-Hexanone	18.6	2.5	ug/l	25.0	ND	74	20-150	11	30	
Iodomethane	30.0	2.5	ug/l	25.0	ND	120	60-150	0.5	30	
Isopropylbenzene	26.2	0.50	ug/l	25.0	ND	105	75-130	4	25	
p-Isopropyltoluene	24.9	0.50	ug/l	25.0	ND	100	70-130	4	30	
Methylene Chloride	22.9	1.0	ug/l	25.0	ND	92	65-130	2	20	
4-Methyl-2-pentanone (MIBK)	18.9	2.5	ug/l	25.0	ND	76	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	19.1	0.50	ug/l	25.0	ND	76	65-140	3	25	
Naphthalene	23.5	2.5	ug/l	25.0	ND	94	40-150	6	30	
n-Propylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-130	5	30	
Styrene	13.6	0.50	ug/l	25.0	ND	54	55-135	30	35	*M2*
1,1,1,2-Tetrachloroethane	24.6	0.50	ug/l	25.0	ND	99	70-125	4	20	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0	ND	93	70-125	1	25	
Tetrachloroethene	29.2	0.50	ug/l	25.0	1.47	111	65-130	0.3	25	
Toluene	25.8	0.50	ug/l	25.0	ND	103	70-125	1	20	
1,2,3-Trichlorobenzene	25.6	1.0	ug/l	25.0	ND	102	50-150	0.5	35	
1,2,4-Trichlorobenzene	25.5	1.0	ug/l	25.0	ND	102	50-150	3	25	
1,1,1-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	70-130	3	25	
1,1,2-Trichloroethane	23.7	0.50	ug/l	25.0	ND	95	75-125	7	20	
Trichloroethene	26.2	0.50	ug/l	25.0	1.08	100	70-125	0.3	25	
Trichlorofluoromethane	25.4	0.50	ug/l	25.0	ND	101	65-150	2	25	
1,2,3-Trichloropropane	22.1	1.0	ug/l	25.0	ND	89	70-130	2	25	
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125	6	30	
1,3,5-Trimethylbenzene	24.7	0.50	ug/l	25.0	ND	99	75-130	5	25	
Vinyl Acetate	14.7	1.0	ug/l	25.0	ND	59	40-150	10	30	
Vinyl chloride	24.1	0.50	ug/l	25.0	ND	96	60-140	2	25	
Xylenes, Total	50.7	1.5	ug/l	50.0	ND	101	75-120	2	15	
Freon 113	25.3	2.0	ug/l	25.0	ND	101	65-140	3	20	
Surrogate: Dibromofluoromethane	*22.8*		*ug/l*	*25.0*		*91*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
Blank Analyzed: 09/14/2011 (11I0469-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
Blank Analyzed: 09/14/2011 (11I0469-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*22.8*		*ug/l*	*25.0*		*91*	*80-130*			
Surrogate: Toluene-d8	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.1*		*ug/l*	*25.0*		*92*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
LCS Analyzed: 09/14/2011 (11I0469-BS1)										
Acetone	26.7	10	ug/l	25.0		107	10-150			
Benzene	24.6	0.50	ug/l	25.0		98	80-120			
Bromobenzene	26.5	0.50	ug/l	25.0		106	80-120			
Bromochloromethane	21.8	0.50	ug/l	25.0		87	80-125			
Bromodichloromethane	21.7	0.50	ug/l	25.0		87	80-120			
Bromoform	24.6	1.0	ug/l	25.0		98	75-130			
Bromomethane	27.0	1.0	ug/l	25.0		108	55-150			
2-Butanone (MEK)	22.4	2.5	ug/l	25.0		90	40-150			
n-Butylbenzene	25.1	0.50	ug/l	25.0		100	80-130			
sec-Butylbenzene	26.4	0.50	ug/l	25.0		106	80-125			
tert-Butylbenzene	25.6	0.50	ug/l	25.0		102	80-120			
Carbon disulfide	22.4	1.0	ug/l	25.0		90	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	28.2	0.50	ug/l	25.0		113	80-120			
Chloroethane	24.0	1.0	ug/l	25.0		96	70-130			
Chloroform	21.2	0.50	ug/l	25.0		85	75-120			
Chloromethane	20.0	1.0	ug/l	25.0		80	60-140			
2-Chlorotoluene	24.1	0.50	ug/l	25.0		96	80-120			
4-Chlorotoluene	24.3	0.50	ug/l	25.0		97	80-120			
Dibromochloromethane	24.0	0.50	ug/l	25.0		96	80-120			
1,2-Dibromo-3-chloropropane	20.1	2.5	ug/l	25.0		80	50-150			
1,2-Dibromoethane (EDB)	24.6	0.50	ug/l	25.0		98	80-120			
Dibromomethane	23.1	0.50	ug/l	25.0		93	75-120			
1,2-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,3-Dichlorobenzene	27.2	0.50	ug/l	25.0		109	80-120			
1,4-Dichlorobenzene	26.3	0.50	ug/l	25.0		105	80-120			
Dichlorodifluoromethane	18.4	0.50	ug/l	25.0		74	60-150			
1,1-Dichloroethane	21.6	0.50	ug/l	25.0		87	70-125			
1,2-Dichloroethane	19.9	0.50	ug/l	25.0		80	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		93	75-125			
cis-1,2-Dichloroethene	21.0	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	22.1	0.50	ug/l	25.0		88	80-120			
1,2-Dichloropropane	22.7	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.6	0.50	ug/l	25.0		90	80-120			
2,2-Dichloropropane	21.1	1.0	ug/l	25.0		84	75-130			

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Kylie Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
LCS Analyzed: 09/14/2011 (11I0469-BS1)										
1,1-Dichloropropene	23.1	0.50	ug/l	25.0		92	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	21.2	0.50	ug/l	25.0		85	80-125			
Ethylbenzene	27.1	0.50	ug/l	25.0		108	80-120			
Hexachlorobutadiene	28.0	1.0	ug/l	25.0		112	40-150			
2-Hexanone	18.4	2.5	ug/l	25.0		74	20-150			
Iodomethane	32.6	2.5	ug/l	25.0		130	80-130			
Isopropylbenzene	27.2	0.50	ug/l	25.0		109	80-130			
p-Isopropyltoluene	26.3	0.50	ug/l	25.0		105	80-130			
Methylene Chloride	23.0	1.0	ug/l	25.0		92	70-120			
4-Methyl-2-pentanone (MIBK)	17.6	2.5	ug/l	25.0		70	60-135			
Methyl-tert-butyl Ether (MTBE)	18.1	0.50	ug/l	25.0		73	70-130			
Naphthalene	23.3	2.5	ug/l	25.0		93	40-150			
n-Propylbenzene	25.9	0.50	ug/l	25.0		103	75-130			
Styrene	24.8	0.50	ug/l	25.0		99	80-120			
1,1,1,2-Tetrachloroethane	27.7	0.50	ug/l	25.0		111	75-125			
1,1,2,2-Tetrachloroethane	23.1	0.50	ug/l	25.0		92	80-120			
Tetrachloroethene	30.0	0.50	ug/l	25.0		120	70-130			
Toluene	23.8	0.50	ug/l	25.0		95	80-120			
1,2,3-Trichlorobenzene	26.4	1.0	ug/l	25.0		105	55-150			
1,2,4-Trichlorobenzene	27.0	1.0	ug/l	25.0		108	50-150			
1,1,1-Trichloroethane	23.2	0.50	ug/l	25.0		93	75-125			
1,1,2-Trichloroethane	21.8	0.50	ug/l	25.0		87	80-120			
Trichloroethene	25.6	0.50	ug/l	25.0		102	80-120			
Trichlorofluoromethane	25.2	0.50	ug/l	25.0		101	70-150			
1,2,3-Trichloropropane	23.0	1.0	ug/l	25.0		92	70-130			
1,2,4-Trimethylbenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3,5-Trimethylbenzene	25.9	0.50	ug/l	25.0		104	80-130			
Vinyl Acetate	18.4	1.0	ug/l	25.0		73	40-150			
Vinyl chloride	24.0	0.50	ug/l	25.0		96	70-130			
Xylenes, Total	53.8	1.5	ug/l	50.0		108	60-140			
Freon 113	25.6	2.0	ug/l	25.0		102	60-140			
Surrogate: Dibromofluoromethane	*22.6*		*ug/l*	*25.0*		*90*	*80-130*			
Surrogate: Toluene-d8	*23.4*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
LCS Dup Analyzed: 09/14/2011 (11I0469-BSD1)										
Acetone	22.3	10	ug/l	25.0		89	10-150	18	35	
Benzene	25.3	0.50	ug/l	25.0		101	80-120	3	15	
Bromobenzene	27.2	0.50	ug/l	25.0		109	80-120	3	15	
Bromochloromethane	22.7	0.50	ug/l	25.0		91	80-125	4	15	
Bromodichloromethane	21.6	0.50	ug/l	25.0		86	80-120	0.5	15	
Bromoform	26.4	1.0	ug/l	25.0		106	75-130	7	20	
Bromomethane	26.1	1.0	ug/l	25.0		104	55-150	4	20	
2-Butanone (MEK)	14.1	2.5	ug/l	25.0		56	40-150	46	35	*R6*
n-Butylbenzene	25.7	0.50	ug/l	25.0		103	80-130	2	15	
sec-Butylbenzene	27.1	0.50	ug/l	25.0		109	80-125	3	15	
tert-Butylbenzene	26.2	0.50	ug/l	25.0		105	80-120	2	15	
Carbon disulfide	21.9	1.0	ug/l	25.0		88	70-140	2	15	
Carbon tetrachloride	24.8	0.50	ug/l	25.0		99	75-130	0.3	20	
Chlorobenzene	28.0	0.50	ug/l	25.0		112	80-120	0.7	15	
Chloroethane	23.4	1.0	ug/l	25.0		94	70-130	3	15	
Chloroform	22.0	0.50	ug/l	25.0		88	75-120	4	15	
Chloromethane	19.4	1.0	ug/l	25.0		78	60-140	3	20	
2-Chlorotoluene	24.8	0.50	ug/l	25.0		99	80-120	3	15	
4-Chlorotoluene	24.6	0.50	ug/l	25.0		98	80-120	1	15	
Dibromochloromethane	23.8	0.50	ug/l	25.0		95	80-120	1	15	
1,2-Dibromo-3-chloropropane	25.2	2.5	ug/l	25.0		101	50-150	23	35	
1,2-Dibromoethane (EDB)	25.5	0.50	ug/l	25.0		102	80-120	4	15	
Dibromomethane	24.5	0.50	ug/l	25.0		98	75-120	6	15	
1,2-Dichlorobenzene	27.7	0.50	ug/l	25.0		111	80-120	6	15	
1,3-Dichlorobenzene	28.0	0.50	ug/l	25.0		112	80-120	3	15	
1,4-Dichlorobenzene	27.3	0.50	ug/l	25.0		109	80-120	4	15	
Dichlorodifluoromethane	17.1	0.50	ug/l	25.0		68	60-150	7	30	
1,1-Dichloroethane	21.9	0.50	ug/l	25.0		87	70-125	1	15	
1,2-Dichloroethane	21.0	0.50	ug/l	25.0		84	75-130	5	15	
1,1-Dichloroethene	22.7	0.50	ug/l	25.0		91	75-125	2	20	
cis-1,2-Dichloroethene	21.0	0.50	ug/l	25.0		84	80-120	0.05	15	
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		89	80-120	1	15	
1,2-Dichloropropane	23.4	0.50	ug/l	25.0		93	80-120	3	15	
1,3-Dichloropropane	23.2	0.50	ug/l	25.0		93	80-120	3	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
LCS Dup Analyzed: 09/14/2011 (11I0469-BSD1)										
1,1-Dichloropropene	23.2	0.50	ug/l	25.0		93	75-120	0.5	15	
cis-1,3-Dichloropropene	21.4	0.50	ug/l	25.0		86	80-120	2	15	
trans-1,3-Dichloropropene	21.3	0.50	ug/l	25.0		85	80-125	0.2	15	
Ethylbenzene	27.1	0.50	ug/l	25.0		109	80-120	0.2	15	
Hexachlorobutadiene	28.8	1.0	ug/l	25.0		115	40-150	3	35	
2-Hexanone	19.0	2.5	ug/l	25.0		76	20-150	3	35	
Iodomethane	30.0	2.5	ug/l	25.0		120	80-130	8	10	
Isopropylbenzene	27.6	0.50	ug/l	25.0		110	80-130	2	15	
p-Isopropyltoluene	26.6	0.50	ug/l	25.0		106	80-130	1	15	
Methylene Chloride	21.5	1.0	ug/l	25.0		86	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	19.9	2.5	ug/l	25.0		80	60-135	13	25	
Methyl-tert-butyl Ether (MTBE)	19.6	0.50	ug/l	25.0		78	70-130	8	20	
Naphthalene	26.2	2.5	ug/l	25.0		105	40-150	12	30	
n-Propylbenzene	26.2	0.50	ug/l	25.0		105	75-130	1	15	
Styrene	24.8	0.50	ug/l	25.0		99	80-120	0.2	15	
1,1,1,2-Tetrachloroethane	26.7	0.50	ug/l	25.0		107	75-125	4	15	
1,1,2,2-Tetrachloroethane	25.9	0.50	ug/l	25.0		104	80-120	11	20	
Tetrachloroethene	29.6	0.50	ug/l	25.0		118	70-130	1	20	
Toluene	24.3	0.50	ug/l	25.0		97	80-120	2	15	
1,2,3-Trichlorobenzene	28.4	1.0	ug/l	25.0		114	55-150	8	35	
1,2,4-Trichlorobenzene	28.4	1.0	ug/l	25.0		114	50-150	5	30	
1,1,1-Trichloroethane	22.8	0.50	ug/l	25.0		91	75-125	2	15	
1,1,2-Trichloroethane	24.8	0.50	ug/l	25.0		99	80-120	13	15	
Trichloroethene	25.3	0.50	ug/l	25.0		101	80-120	1	15	
Trichlorofluoromethane	24.8	0.50	ug/l	25.0		99	70-150	2	25	
1,2,3-Trichloropropane	24.3	1.0	ug/l	25.0		97	70-130	5	20	
1,2,4-Trimethylbenzene	25.9	0.50	ug/l	25.0		103	80-120	3	15	
1,3,5-Trimethylbenzene	26.4	0.50	ug/l	25.0		105	80-130	2	15	
Vinyl Acetate	19.4	1.0	ug/l	25.0		78	40-150	5	25	
Vinyl chloride	23.5	0.50	ug/l	25.0		94	70-130	2	20	
Xylenes, Total	54.2	1.5	ug/l	50.0		108	60-140	0.7	15	
Freon 113	24.6	2.0	ug/l	25.0		99	60-140	4	15	
Surrogate: Dibromofluoromethane	*22.7*		*ug/l*	*25.0*		*91*	*80-130*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/l*	*25.0*		*103*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
Matrix Spike Analyzed: 09/14/2011 (11I0469-MS1)					**Source: PUI0468-02RE1**					
Acetone	16.0	10	ug/l	25.0	ND	64	10-150			
Benzene	24.6	0.50	ug/l	25.0	ND	98	70-125			
Bromobenzene	27.4	0.50	ug/l	25.0	ND	110	75-120			
Bromochloromethane	23.0	0.50	ug/l	25.0	ND	92	75-130			
Bromodichloromethane	21.4	0.50	ug/l	25.0	ND	86	75-125			
Bromoform	25.0	1.0	ug/l	25.0	ND	100	65-125			
Bromomethane	26.2	1.0	ug/l	25.0	ND	105	45-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0	ND	75	15-150			
n-Butylbenzene	25.3	0.50	ug/l	25.0	ND	101	70-130			
sec-Butylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-125			
tert-Butylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125			
Carbon disulfide	22.0	1.0	ug/l	25.0	ND	88	65-145			
Carbon tetrachloride	24.3	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	28.0	0.50	ug/l	25.0	ND	112	75-120			
Chloroethane	22.9	1.0	ug/l	25.0	ND	92	65-140			
Chloroform	23.0	0.50	ug/l	25.0	1.15	87	70-130			
Chloromethane	19.5	1.0	ug/l	25.0	0.240	77	55-145			
2-Chlorotoluene	24.6	0.50	ug/l	25.0	ND	98	70-125			
4-Chlorotoluene	24.8	0.50	ug/l	25.0	ND	99	70-125			
Dibromochloromethane	24.2	0.50	ug/l	25.0	ND	97	70-130			
1,2-Dibromo-3-chloropropane	22.8	2.5	ug/l	25.0	ND	91	50-150			
1,2-Dibromoethane (EDB)	25.3	0.50	ug/l	25.0	ND	101	70-125			
Dibromomethane	23.3	0.50	ug/l	25.0	ND	93	70-120			
1,2-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	109	75-120			
1,3-Dichlorobenzene	27.3	0.50	ug/l	25.0	ND	109	75-120			
1,4-Dichlorobenzene	26.8	0.50	ug/l	25.0	ND	107	70-125			
Dichlorodifluoromethane	17.0	0.50	ug/l	25.0	ND	68	60-150			
1,1-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dichloroethane	20.4	0.50	ug/l	25.0	ND	82	65-140			
1,1-Dichloroethene	22.6	0.50	ug/l	25.0	ND	91	70-130			
cis-1,2-Dichloroethene	20.9	0.50	ug/l	25.0	ND	84	70-125			
trans-1,2-Dichloroethene	21.6	0.50	ug/l	25.0	ND	86	75-125			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0	ND	91	75-125			
1,3-Dichloropropane	23.8	0.50	ug/l	25.0	ND	95	70-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0	ND	84	65-140			

TestAmerica Phoenix

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
Matrix Spike Analyzed: 09/14/2011 (11I0469-MS1)					**Source: PUI0468-02RE1**					
1,1-Dichloropropene	23.1	0.50	ug/l	25.0	ND	93	65-130			
cis-1,3-Dichloropropene	22.0	0.50	ug/l	25.0	ND	88	75-130			
trans-1,3-Dichloropropene	21.7	0.50	ug/l	25.0	ND	87	70-130			
Ethylbenzene	26.6	0.50	ug/l	25.0	ND	106	70-125			
Hexachlorobutadiene	26.8	1.0	ug/l	25.0	ND	107	40-150			
2-Hexanone	18.5	2.5	ug/l	25.0	ND	74	20-150			
Iodomethane	31.0	2.5	ug/l	25.0	ND	124	60-150			
Isopropylbenzene	27.1	0.50	ug/l	25.0	ND	108	75-130			
p-Isopropyltoluene	26.0	0.50	ug/l	25.0	ND	104	70-130			
Methylene Chloride	22.8	1.0	ug/l	25.0	ND	91	65-130			
4-Methyl-2-pentanone (MIBK)	19.3	2.5	ug/l	25.0	ND	77	55-135			
Methyl-tert-butyl Ether (MTBE)	18.6	0.50	ug/l	25.0	ND	74	65-140			
Naphthalene	23.2	2.5	ug/l	25.0	ND	93	40-150			
n-Propylbenzene	25.9	0.50	ug/l	25.0	ND	104	70-130			
Styrene	16.9	0.50	ug/l	25.0	ND	67	55-135			
1,1,1,2-Tetrachloroethane	26.3	0.50	ug/l	25.0	ND	105	70-125			
1,1,2,2-Tetrachloroethane	24.6	0.50	ug/l	25.0	ND	98	70-125			
Tetrachloroethene	32.3	0.50	ug/l	25.0	2.78	118	65-130			
Toluene	25.8	0.50	ug/l	25.0	ND	103	70-125			
1,2,3-Trichlorobenzene	27.0	1.0	ug/l	25.0	ND	108	50-150			
1,2,4-Trichlorobenzene	27.7	1.0	ug/l	25.0	ND	111	50-150			
1,1,1-Trichloroethane	22.5	0.50	ug/l	25.0	ND	90	70-130			
1,1,2-Trichloroethane	24.1	0.50	ug/l	25.0	ND	97	75-125			
Trichloroethene	24.9	0.50	ug/l	25.0	ND	100	70-125			
Trichlorofluoromethane	25.0	0.50	ug/l	25.0	ND	100	65-150			
1,2,3-Trichloropropane	24.0	1.0	ug/l	25.0	ND	96	70-130			
1,2,4-Trimethylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
1,3,5-Trimethylbenzene	25.8	0.50	ug/l	25.0	ND	103	75-130			
Vinyl Acetate	16.4	1.0	ug/l	25.0	ND	66	40-150			
Vinyl chloride	23.5	0.50	ug/l	25.0	ND	94	60-140			
Xylenes, Total	52.7	1.5	ug/l	50.0	ND	105	75-120			
Freon 113	24.7	2.0	ug/l	25.0	ND	99	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
Matrix Spike Dup Analyzed: 09/14/2011 (11I0469-MSD1)					**Source: PUI0468-02RE1**					
Acetone	17.5	10	ug/l	25.0	ND	70	10-150	9	35	
Benzene	24.7	0.50	ug/l	25.0	ND	99	70-125	0.6	25	
Bromobenzene	26.8	0.50	ug/l	25.0	ND	107	75-120	2	20	
Bromochloromethane	22.8	0.50	ug/l	25.0	ND	91	75-130	0.8	20	
Bromodichloromethane	20.6	0.50	ug/l	25.0	ND	82	75-125	4	20	
Bromoform	23.6	1.0	ug/l	25.0	ND	95	65-125	6	25	
Bromomethane	26.4	1.0	ug/l	25.0	ND	106	45-150	0.7	35	
2-Butanone (MEK)	19.5	2.5	ug/l	25.0	ND	78	15-150	4	30	
n-Butylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-130	2	30	
sec-Butylbenzene	25.7	0.50	ug/l	25.0	ND	103	70-125	4	30	
tert-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125	3	25	
Carbon disulfide	21.1	1.0	ug/l	25.0	ND	84	65-145	4	25	
Carbon tetrachloride	24.3	0.50	ug/l	25.0	ND	97	65-135	0.04	25	
Chlorobenzene	28.6	0.50	ug/l	25.0	ND	114	75-120	2	20	
Chloroethane	22.6	1.0	ug/l	25.0	ND	91	65-140	1	25	
Chloroform	23.1	0.50	ug/l	25.0	1.15	88	70-130	0.6	20	
Chloromethane	19.0	1.0	ug/l	25.0	0.240	75	55-145	2	35	
2-Chlorotoluene	23.9	0.50	ug/l	25.0	ND	96	70-125	3	25	
4-Chlorotoluene	23.9	0.50	ug/l	25.0	ND	96	70-125	4	25	
Dibromochloromethane	23.5	0.50	ug/l	25.0	ND	94	70-130	3	20	
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0	ND	89	50-150	2	30	
1,2-Dibromoethane (EDB)	24.6	0.50	ug/l	25.0	ND	98	70-125	3	20	
Dibromomethane	22.9	0.50	ug/l	25.0	ND	92	70-120	1	20	
1,2-Dichlorobenzene	26.0	0.50	ug/l	25.0	ND	104	75-120	5	20	
1,3-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	75-120	3	25	
1,4-Dichlorobenzene	26.1	0.50	ug/l	25.0	ND	105	70-125	3	20	
Dichlorodifluoromethane	15.7	0.50	ug/l	25.0	ND	63	60-150	8	30	
1,1-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	70-130	7	20	
1,2-Dichloroethane	20.3	0.50	ug/l	25.0	ND	81	65-140	0.4	20	
1,1-Dichloroethene	22.6	0.50	ug/l	25.0	ND	91	70-130	0.04	25	
cis-1,2-Dichloroethene	21.6	0.50	ug/l	25.0	ND	86	70-125	3	20	
trans-1,2-Dichloroethene	21.8	0.50	ug/l	25.0	ND	87	75-125	1	25	
1,2-Dichloropropane	22.6	0.50	ug/l	25.0	ND	90	75-125	0.09	20	
1,3-Dichloropropane	24.4	0.50	ug/l	25.0	ND	97	70-120	2	20	
2,2-Dichloropropane	20.2	1.0	ug/l	25.0	ND	81	65-140	4	25	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0469 Extracted: 09/14/11										
Matrix Spike Dup Analyzed: 09/14/2011 (11I0469-MSD1)					**Source: PUI0468-02RE1**					
1,1-Dichloropropene	22.7	0.50	ug/l	25.0	ND	91	65-130	2	25	
cis-1,3-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	75-130	1	20	
trans-1,3-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	70-130	0.7	20	
Ethylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-125	0.5	25	
Hexachlorobutadiene	26.7	1.0	ug/l	25.0	ND	107	40-150	0.5	30	
2-Hexanone	18.5	2.5	ug/l	25.0	ND	74	20-150	0.05	30	
Iodomethane	31.1	2.5	ug/l	25.0	ND	124	60-150	0.4	30	
Isopropylbenzene	26.3	0.50	ug/l	25.0	ND	105	75-130	3	25	
p-Isopropyltoluene	25.4	0.50	ug/l	25.0	ND	102	70-130	2	30	
Methylene Chloride	22.4	1.0	ug/l	25.0	ND	90	65-130	2	20	
4-Methyl-2-pentanone (MIBK)	18.2	2.5	ug/l	25.0	ND	73	55-135	6	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	1	25	
Naphthalene	23.4	2.5	ug/l	25.0	ND	94	40-150	0.8	30	
n-Propylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-130	2	30	
Styrene	16.7	0.50	ug/l	25.0	ND	67	55-135	0.9	35	
1,1,1,2-Tetrachloroethane	25.8	0.50	ug/l	25.0	ND	103	70-125	2	20	
1,1,2,2-Tetrachloroethane	23.6	0.50	ug/l	25.0	ND	94	70-125	4	25	
Tetrachloroethene	31.6	0.50	ug/l	25.0	2.78	115	65-130	2	25	
Toluene	25.7	0.50	ug/l	25.0	ND	103	70-125	0.6	20	
1,2,3-Trichlorobenzene	26.7	1.0	ug/l	25.0	ND	107	50-150	1	35	
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150	6	25	
1,1,1-Trichloroethane	22.4	0.50	ug/l	25.0	ND	90	70-130	0.6	25	
1,1,2-Trichloroethane	23.8	0.50	ug/l	25.0	ND	95	75-125	1	20	
Trichloroethene	24.3	0.50	ug/l	25.0	ND	97	70-125	3	25	
Trichlorofluoromethane	24.3	0.50	ug/l	25.0	ND	97	65-150	3	25	
1,2,3-Trichloropropane	21.2	1.0	ug/l	25.0	ND	85	70-130	12	25	
1,2,4-Trimethylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	3	30	
1,3,5-Trimethylbenzene	25.2	0.50	ug/l	25.0	ND	101	75-130	2	25	
Vinyl Acetate	14.9	1.0	ug/l	25.0	ND	60	40-150	9	30	
Vinyl chloride	22.5	0.50	ug/l	25.0	ND	90	60-140	4	25	
Xylenes, Total	53.6	1.5	ug/l	50.0	ND	107	75-120	2	15	
Freon 113	24.0	2.0	ug/l	25.0	ND	96	65-140	3	20	
Surrogate: Dibromofluoromethane	*22.9*		*ug/l*	*25.0*		*92*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0331 Extracted: 09/11/11										
Blank Analyzed: 09/12/2011 (11I0331-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*13.2*		*ug/l*	*20.0*		*66*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*15.9*		*ug/l*	*20.0*		*80*	*59.9-120*			
LCS Analyzed: 09/12/2011 (11I0331-BS1)										
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*14.3*		*ug/l*	*20.0*		*72*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.8*		*ug/l*	*20.0*		*89*	*38-125*			
LCS Dup Analyzed: 09/12/2011 (11I0331-BSD1)										
1,4-Dioxane	20.1	1.0	ug/l	20.0		100	80-120	0.5	25	
Surrogate: 1,4-Dioxane-d8	*13.6*		*ug/l*	*20.0*		*68*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.6*		*ug/l*	*20.0*		*83*	*38-125*			
Matrix Spike Analyzed: 09/12/2011 (11I0331-MS1)					**Source: PUI0468-03**					
1,4-Dioxane	20.1	1.0	ug/l	20.0	ND	101	70-130			
Surrogate: 1,4-Dioxane-d8	*13.6*		*ug/l*	*20.0*		*68*	*36-81*			
Surrogate: Nitrobenzene-d5	*17.3*		*ug/l*	*20.0*		*86*	*59-120*			
Matrix Spike Dup Analyzed: 09/12/2011 (11I0331-MSD1)					**Source: PUI0468-03**					
1,4-Dioxane	20.4	1.0	ug/l	20.0	ND	102	70-130	1	25	
Surrogate: 1,4-Dioxane-d8	*10.6*		*ug/l*	*20.0*		*53*	*36-81*			
Surrogate: Nitrobenzene-d5	*13.9*		*ug/l*	*20.0*		*70*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

DATA QUALIFIERS AND DEFINITIONS

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030 OU3
Report Number: PUI0468

Sampled: 09/08/11
Received: 09/08/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management

CHAIN OF CUSTODY RECORD

PUI0468

NO: 3040

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

PROJECT #	PROJECT NAME
0096498.030	OU3

SAMPLER: (PRINT NAME)	(SIGNATURE)
Adam Nagle	[signature]

RECEIVING LABORATORY: Test America, Phoenix

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	VOC 8260B	1,4-Dioxane 8270C	MS/MSD								
OU3-4S-S-090811	9/8/11	0826		X	Pump	HCl / –	Y	40mL x 3 / 1L	5		X		X	X								–	01
OU3-7S-S-090811	9/8/11	0950		X	Pump	HCl / –	Y	3x40mL / 2x1L	5		X		X	X								–	02
OU3-7M2-M-090811	9/8/11	1148		X	Pump	HCl / –	Y	3x40mL / 2x1L	5		X		X	X								–	03
OU3-7M2-M-090811-MS/MSD	9/8/11	1148		X	Pump	HCl / –	Y	3x40mL / 4x1L	7		X		X	X	X								1
OU3-14M-M-090811	9/8/11	1621		X	Pump	HCl / –	Y	3x40mL / 2x1L	5		X		X	X								–	04
OU3-14D-D-090811	9/8/11	1643		X	Pump	HCl / –	Y	3x40mL / 2x1L	5		X		X	X								–	05
GW-EB1-1-090811	9/8/11	1644		X	Pump	HCl / –	Y	3x40mL / 2x1L	5		X		X	X								–	06
GW-LI-1-090811	9/8/11	–		–	–	HCl	Y	1x40mL	1		X		X		Trip Blank							–	07

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
[signature] / ERM	9/8/11	~~1730~~ 1718			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
			[signature]	9/8/11	1718

FIELD REMARKS: 1.4°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@ERM.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/09/11
Received: 09/09/11
Revised: 11/21/11 15:42

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0566-01	OU3-9M2-M-090911	Water
PUI0566-02	OU3-9S-S-090911	Water
PUI0566-03	OU3-12D-D-090911	Water
PUI0566-04	OU3-12M-M-090911	Water
PUI0566-05	SC-MW-1D-S-090911	Water
PUI0566-06	GW-EB1-2-090911	Water
PUI0566-07	GW-L1-2-090911	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

SAMPLE RECEIPT:	Samples were received intact, at 5°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. R1-The RPD exceeded the acceptance limit. S10-Surrogate recovery was above acceptance limits. L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. N1 = The Laboratory Control Sample recovered low and outside of client acceptance limits for 1,2-Dichloroethane and cis-1,2-Dichloroethene . The Laboratory Control Sample Duplicate as well as the Matrix Spike recovered low and outside of client acceptance limits for Dichlorodifluoromethane. Recoveries were within the laboratory acceptance limits . All associated samples are non-detect for these compounds.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-01 (OU3-9M2-M-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0468	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0468	0.50	**1.8**	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-01 (OU3-9M2-M-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0468	0.50	**3.3**	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0468	0.50	**0.53**	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0468	0.50	**1.8**	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0468	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0468	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*96 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-02 (OU3-9S-S-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0468	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0468	0.50	**1.3**	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-02 (OU3-9S-S-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0468	0.50	**1.4**	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0468	0.50	**0.52**	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0468	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0468	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*98 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-03 (OU3-12D-D-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0468	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-03 (OU3-12D-D-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0468	0.50	**1.3**	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0468	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0468	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*96 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-04 (OU3-12M-M-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0468	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0468	0.50	**1.1**	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	

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Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-04 (OU3-12M-M-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0468	0.50	**1.6**	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0468	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0468	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*98 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-05 (SC-MW-1D-S-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0468	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0468	0.50	**2.2**	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0468	0.50	**0.81**	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0468	0.50	**0.81**	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-05 (SC-MW-1D-S-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0468	0.50	**1.5**	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0468	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0468	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*96 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-06 (GW-EB1-2-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0468	10	ND	1	9/14/2011	9/14/2011	
Benzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromochloromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Bromodichloromethane	EPA 8260B	11I0468	0.50	**3.5**	1	9/14/2011	9/14/2011	
Bromoform	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Bromomethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Butanone (MEK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
sec-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
tert-Butylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon disulfide	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Carbon tetrachloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Chloroethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Chloroform	EPA 8260B	11I0468	0.50	**7.8**	1	9/14/2011	9/14/2011	
Chloromethane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
2-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
4-Chlorotoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromochloromethane	EPA 8260B	11I0468	0.50	**1.5**	1	9/14/2011	9/14/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dibromomethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Dichlorodifluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3-Dichloropropane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
2,2-Dichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Ethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Hexachlorobutadiene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-06 (GW-EB1-2-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Iodomethane	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Isopropylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
p-Isopropyltoluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Methylene Chloride	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Naphthalene	EPA 8260B	11I0468	2.5	ND	1	9/14/2011	9/14/2011	
n-Propylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Styrene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Tetrachloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Toluene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichloroethene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Trichlorofluoromethane	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Vinyl Acetate	EPA 8260B	11I0468	1.0	ND	1	9/14/2011	9/14/2011	
Vinyl chloride	EPA 8260B	11I0468	0.50	ND	1	9/14/2011	9/14/2011	
Xylenes, Total	EPA 8260B	11I0468	1.5	ND	1	9/14/2011	9/14/2011	
Freon 113	EPA 8260B	11I0468	2.0	ND	1	9/14/2011	9/14/2011	
Surrogate: Dibromofluoromethane (80-130%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*97 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-07 (GW-L1-2-090911 - Water) **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0528	10	ND	1	9/15/2011	9/15/2011	
Benzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Bromobenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Bromochloromethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Bromodichloromethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Bromoform	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
Bromomethane	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
2-Butanone (MEK)	EPA 8260B	11I0528	2.5	ND	1	9/15/2011	9/15/2011	
n-Butylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
sec-Butylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
tert-Butylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Carbon disulfide	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
Carbon tetrachloride	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Chlorobenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	B1
Chloroethane	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
Chloroform	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Chloromethane	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
2-Chlorotoluene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
4-Chlorotoluene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Dibromochloromethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0528	2.5	ND	1	9/15/2011	9/15/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Dibromomethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Dichlorodifluoromethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	N1
1,1-Dichloroethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,2-Dichloroethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	N1
1,1-Dichloroethene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	N1
trans-1,2-Dichloroethene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,2-Dichloropropane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,3-Dichloropropane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
2,2-Dichloropropane	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
1,1-Dichloropropene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Ethylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Hexachlorobutadiene	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0566-07 (GW-L1-2-090911 - Water) - cont. **Sampled: 09/09/11**

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0528	2.5	ND	1	9/15/2011	9/15/2011	
Iodomethane	EPA 8260B	11I0528	2.5	ND	1	9/15/2011	9/15/2011	L3
Isopropylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
p-Isopropyltoluene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Methylene Chloride	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0528	2.5	ND	1	9/15/2011	9/15/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Naphthalene	EPA 8260B	11I0528	2.5	ND	1	9/15/2011	9/15/2011	
n-Propylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Styrene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Tetrachloroethene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Toluene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Trichloroethene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Trichlorofluoromethane	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Vinyl Acetate	EPA 8260B	11I0528	1.0	ND	1	9/15/2011	9/15/2011	
Vinyl chloride	EPA 8260B	11I0528	0.50	ND	1	9/15/2011	9/15/2011	
Xylenes, Total	EPA 8260B	11I0528	1.5	ND	1	9/15/2011	9/15/2011	
Freon 113	EPA 8260B	11I0528	2.0	ND	1	9/15/2011	9/15/2011	
Surrogate: Dibromofluoromethane (80-130%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0566-01 (OU3-9M2-M-090911 - Water)					**Sampled: 09/09/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*97 %*				
Sample ID: PUI0566-02 (OU3-9S-S-090911 - Water)					**Sampled: 09/09/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*91 %*				
Sample ID: PUI0566-03 (OU3-12D-D-090911 - Water)					**Sampled: 09/09/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*93 %*				
Sample ID: PUI0566-04 (OU3-12M-M-090911 - Water)					**Sampled: 09/09/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*65 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*88 %*				
Sample ID: PUI0566-05 (SC-MW-1D-S-090911 - Water)					**Sampled: 09/09/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*72 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*93 %*				
Sample ID: PUI0566-06 (GW-EB1-2-090911 - Water)					**Sampled: 09/09/11**			
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*65 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*88 %*				

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Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
Blank Analyzed: 09/14/2011 (11I0468-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
Blank Analyzed: 09/14/2011 (11I0468-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.1*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*96*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
LCS Analyzed: 09/14/2011 (11I0468-BS1)										
Acetone	30.4	10	ug/l	25.0		122	10-150			
Benzene	24.1	0.50	ug/l	25.0		96	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.9	0.50	ug/l	25.0		96	80-125			
Bromodichloromethane	23.8	0.50	ug/l	25.0		95	80-120			
Bromoform	25.4	1.0	ug/l	25.0		102	75-130			
Bromomethane	24.0	1.0	ug/l	25.0		96	55-150			
2-Butanone (MEK)	25.4	2.5	ug/l	25.0		101	40-150			
n-Butylbenzene	25.4	0.50	ug/l	25.0		102	80-130			
sec-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-125			
tert-Butylbenzene	25.2	0.50	ug/l	25.0		101	80-120			
Carbon disulfide	25.0	0.50	ug/l	25.0		100	70-140			
Carbon tetrachloride	23.5	0.50	ug/l	25.0		94	75-130			
Chlorobenzene	24.8	0.50	ug/l	25.0		99	80-120			
Chloroethane	24.8	1.0	ug/l	25.0		99	70-130			
Chloroform	23.8	0.50	ug/l	25.0		95	75-120			
Chloromethane	20.4	1.0	ug/l	25.0		82	60-140			
2-Chlorotoluene	24.5	0.50	ug/l	25.0		98	80-120			
4-Chlorotoluene	25.2	0.50	ug/l	25.0		101	80-120			
Dibromochloromethane	24.5	0.50	ug/l	25.0		98	80-120			
1,2-Dibromo-3-chloropropane	26.2	2.5	ug/l	25.0		105	50-150			
1,2-Dibromoethane (EDB)	25.2	0.50	ug/l	25.0		101	80-120			
Dibromomethane	24.1	0.50	ug/l	25.0		96	75-120			
1,2-Dichlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
1,3-Dichlorobenzene	24.7	0.50	ug/l	25.0		99	80-120			
1,4-Dichlorobenzene	25.6	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	17.2	0.50	ug/l	25.0		69	60-150			
1,1-Dichloroethane	24.2	0.50	ug/l	25.0		97	70-125			
1,2-Dichloroethane	24.5	0.50	ug/l	25.0		98	75-130			
1,1-Dichloroethene	24.5	0.50	ug/l	25.0		98	75-125			
cis-1,2-Dichloroethene	22.6	0.50	ug/l	25.0		90	80-120			
trans-1,2-Dichloroethene	23.8	0.50	ug/l	25.0		95	80-120			
1,2-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120			
1,3-Dichloropropane	24.5	0.50	ug/l	25.0		98	80-120			
2,2-Dichloropropane	21.2	1.0	ug/l	25.0		85	75-130			

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Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
LCS Analyzed: 09/14/2011 (11I0468-BS1)										
1,1-Dichloropropene	23.2	0.50	ug/l	25.0		93	75-120			
cis-1,3-Dichloropropene	24.6	0.50	ug/l	25.0		98	80-120			
trans-1,3-Dichloropropene	24.6	0.50	ug/l	25.0		98	80-125			
Ethylbenzene	24.2	0.50	ug/l	25.0		97	80-120			
Hexachlorobutadiene	24.6	1.0	ug/l	25.0		98	40-150			
2-Hexanone	25.9	2.5	ug/l	25.0		104	20-150			
Iodomethane	27.2	2.5	ug/l	25.0		109	80-130			
Isopropylbenzene	26.2	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	25.4	0.50	ug/l	25.0		101	80-130			
Methylene Chloride	23.0	1.0	ug/l	25.0		92	70-120			
4-Methyl-2-pentanone (MIBK)	23.6	2.5	ug/l	25.0		94	60-135			
Methyl-tert-butyl Ether (MTBE)	22.7	0.50	ug/l	25.0		91	70-130			
Naphthalene	28.9	2.5	ug/l	25.0		116	40-150			
n-Propylbenzene	25.5	0.50	ug/l	25.0		102	75-130			
Styrene	23.0	0.50	ug/l	25.0		92	80-120			
1,1,1,2-Tetrachloroethane	24.4	0.50	ug/l	25.0		98	75-125			
1,1,2,2-Tetrachloroethane	26.6	0.50	ug/l	25.0		106	80-120			
Tetrachloroethene	24.0	0.50	ug/l	25.0		96	70-130			
Toluene	23.9	0.50	ug/l	25.0		96	80-120			
1,2,3-Trichlorobenzene	27.9	1.0	ug/l	25.0		112	55-150			
1,2,4-Trichlorobenzene	27.2	1.0	ug/l	25.0		109	50-150			
1,1,1-Trichloroethane	23.9	0.50	ug/l	25.0		96	75-125			
1,1,2-Trichloroethane	24.6	0.50	ug/l	25.0		99	80-120			
Trichloroethene	23.8	0.50	ug/l	25.0		95	80-120			
Trichlorofluoromethane	26.4	0.50	ug/l	25.0		106	70-150			
1,2,3-Trichloropropane	26.8	1.0	ug/l	25.0		107	70-130			
1,2,4-Trimethylbenzene	24.2	0.50	ug/l	25.0		97	80-120			
1,3,5-Trimethylbenzene	25.1	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	24.2	1.0	ug/l	25.0		97	40-150			
Vinyl chloride	21.7	0.50	ug/l	25.0		87	70-130			
Xylenes, Total	45.1	1.5	ug/l	50.0		90	60-140			
Freon 113	23.4	2.0	ug/l	25.0		94	60-140			
Surrogate: Dibromofluoromethane	*23.7*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
LCS Dup Analyzed: 09/14/2011 (11I0468-BSD1)										
Acetone	31.7	10	ug/l	25.0		127	10-150	4	35	
Benzene	24.2	0.50	ug/l	25.0		97	80-120	0.6	15	
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120	0.04	15	
Bromochloromethane	24.6	0.50	ug/l	25.0		98	80-125	3	15	
Bromodichloromethane	24.0	0.50	ug/l	25.0		96	80-120	0.5	15	
Bromoform	25.6	1.0	ug/l	25.0		102	75-130	0.5	20	
Bromomethane	24.6	1.0	ug/l	25.0		98	55-150	2	20	
2-Butanone (MEK)	26.4	2.5	ug/l	25.0		106	40-150	4	35	
n-Butylbenzene	25.5	0.50	ug/l	25.0		102	80-130	0.4	15	
sec-Butylbenzene	24.4	0.50	ug/l	25.0		98	80-125	0.7	15	
tert-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-120	0.5	15	
Carbon disulfide	26.3	0.50	ug/l	25.0		105	70-140	5	15	
Carbon tetrachloride	23.8	0.50	ug/l	25.0		95	75-130	1	20	
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120	4	15	
Chloroethane	25.1	1.0	ug/l	25.0		101	70-130	1	15	
Chloroform	24.4	0.50	ug/l	25.0		98	75-120	2	15	
Chloromethane	20.7	1.0	ug/l	25.0		83	60-140	1	20	
2-Chlorotoluene	24.6	0.50	ug/l	25.0		98	80-120	0.3	15	
4-Chlorotoluene	25.2	0.50	ug/l	25.0		101	80-120	0.3	15	
Dibromochloromethane	25.6	0.50	ug/l	25.0		102	80-120	4	15	
1,2-Dibromo-3-chloropropane	26.4	2.5	ug/l	25.0		106	50-150	0.9	35	
1,2-Dibromoethane (EDB)	25.4	0.50	ug/l	25.0		102	80-120	0.9	15	
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120	1	15	
1,2-Dichlorobenzene	25.9	0.50	ug/l	25.0		104	80-120	0.8	15	
1,3-Dichlorobenzene	25.0	0.50	ug/l	25.0		100	80-120	1	15	
1,4-Dichlorobenzene	25.6	0.50	ug/l	25.0		102	80-120	0.2	15	
Dichlorodifluoromethane	17.0	0.50	ug/l	25.0		68	60-150	0.6	30	
1,1-Dichloroethane	24.6	0.50	ug/l	25.0		98	70-125	2	15	
1,2-Dichloroethane	24.9	0.50	ug/l	25.0		100	75-130	2	15	
1,1-Dichloroethene	24.2	0.50	ug/l	25.0		97	75-125	1	20	
cis-1,2-Dichloroethene	23.0	0.50	ug/l	25.0		92	80-120	2	15	
trans-1,2-Dichloroethene	24.5	0.50	ug/l	25.0		98	80-120	3	15	
1,2-Dichloropropane	24.1	0.50	ug/l	25.0		96	80-120	0.2	15	
1,3-Dichloropropane	25.1	0.50	ug/l	25.0		100	80-120	2	15	
2,2-Dichloropropane	21.7	1.0	ug/l	25.0		87	75-130	2	15	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
LCS Dup Analyzed: 09/14/2011 (11I0468-BSD1)										
1,1-Dichloropropene	23.0	0.50	ug/l	25.0		92	75-120	0.8	15	
cis-1,3-Dichloropropene	24.7	0.50	ug/l	25.0		99	80-120	0.6	15	
trans-1,3-Dichloropropene	24.8	0.50	ug/l	25.0		99	80-125	0.9	15	
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120	3	15	
Hexachlorobutadiene	24.6	1.0	ug/l	25.0		98	40-150	0.08	35	
2-Hexanone	27.3	2.5	ug/l	25.0		109	20-150	5	35	
Iodomethane	27.6	2.5	ug/l	25.0		111	80-130	2	10	
Isopropylbenzene	26.3	0.50	ug/l	25.0		105	80-130	0.5	15	
p-Isopropyltoluene	25.3	0.50	ug/l	25.0		101	80-130	0.2	15	
Methylene Chloride	23.4	1.0	ug/l	25.0		93	70-120	2	15	
4-Methyl-2-pentanone (MIBK)	23.6	2.5	ug/l	25.0		94	60-135	0.08	25	
Methyl-tert-butyl Ether (MTBE)	23.3	0.50	ug/l	25.0		93	70-130	3	20	
Naphthalene	29.4	2.5	ug/l	25.0		118	40-150	2	30	
n-Propylbenzene	25.6	0.50	ug/l	25.0		103	75-130	0.7	15	
Styrene	23.3	0.50	ug/l	25.0		93	80-120	1	15	
1,1,1,2-Tetrachloroethane	25.4	0.50	ug/l	25.0		101	75-125	4	15	
1,1,2,2-Tetrachloroethane	26.4	0.50	ug/l	25.0		105	80-120	0.9	20	
Tetrachloroethene	24.9	0.50	ug/l	25.0		100	70-130	4	20	
Toluene	24.3	0.50	ug/l	25.0		97	80-120	1	15	
1,2,3-Trichlorobenzene	28.1	1.0	ug/l	25.0		113	55-150	0.7	35	
1,2,4-Trichlorobenzene	27.4	1.0	ug/l	25.0		109	50-150	0.5	30	
1,1,1-Trichloroethane	24.7	0.50	ug/l	25.0		99	75-125	3	15	
1,1,2-Trichloroethane	24.5	0.50	ug/l	25.0		98	80-120	0.7	15	
Trichloroethene	23.7	0.50	ug/l	25.0		95	80-120	0.5	15	
Trichlorofluoromethane	26.3	0.50	ug/l	25.0		105	70-150	0.5	25	
1,2,3-Trichloropropane	26.3	1.0	ug/l	25.0		105	70-130	2	20	
1,2,4-Trimethylbenzene	24.2	0.50	ug/l	25.0		97	80-120	0.2	15	
1,3,5-Trimethylbenzene	24.8	0.50	ug/l	25.0		99	80-130	1	15	
Vinyl Acetate	23.1	1.0	ug/l	25.0		92	40-150	5	25	
Vinyl chloride	22.3	0.50	ug/l	25.0		89	70-130	3	20	
Xylenes, Total	46.6	1.5	ug/l	50.0		93	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	2	15	
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-125*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
Matrix Spike Analyzed: 09/14/2011 (11I0468-MS1)					**Source: PUI0566-01**					
Acetone	14.0	10	ug/l	25.0	ND	56	10-150			
Benzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
Bromobenzene	25.0	0.50	ug/l	25.0	ND	100	75-120			
Bromochloromethane	23.4	0.50	ug/l	25.0	ND	94	75-130			
Bromodichloromethane	23.2	0.50	ug/l	25.0	ND	93	75-125			
Bromoform	23.8	1.0	ug/l	25.0	ND	95	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	18.5	2.5	ug/l	25.0	ND	74	15-150			
n-Butylbenzene	27.2	0.50	ug/l	25.0	ND	109	70-130			
sec-Butylbenzene	26.3	0.50	ug/l	25.0	ND	105	70-125			
tert-Butylbenzene	26.3	0.50	ug/l	25.0	ND	105	70-125			
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145			
Carbon tetrachloride	24.8	0.50	ug/l	25.0	ND	99	65-135			
Chlorobenzene	25.9	0.50	ug/l	25.0	ND	104	75-120			
Chloroethane	26.4	1.0	ug/l	25.0	ND	105	65-140			
Chloroform	25.5	0.50	ug/l	25.0	1.82	95	70-130			
Chloromethane	20.3	1.0	ug/l	25.0	ND	81	55-145			
2-Chlorotoluene	25.4	0.50	ug/l	25.0	ND	101	70-125			
4-Chlorotoluene	25.7	0.50	ug/l	25.0	ND	103	70-125			
Dibromochloromethane	23.7	0.50	ug/l	25.0	ND	95	70-130			
1,2-Dibromo-3-chloropropane	23.8	2.5	ug/l	25.0	ND	95	50-150			
1,2-Dibromoethane (EDB)	23.8	0.50	ug/l	25.0	ND	95	70-125			
Dibromomethane	22.6	0.50	ug/l	25.0	ND	91	70-120			
1,2-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120			
1,3-Dichlorobenzene	25.3	0.50	ug/l	25.0	ND	101	75-120			
1,4-Dichlorobenzene	25.4	0.50	ug/l	25.0	ND	102	70-125			
Dichlorodifluoromethane	21.0	0.50	ug/l	25.0	ND	84	60-150			
1,1-Dichloroethane	24.8	0.50	ug/l	25.0	ND	99	70-130			
1,2-Dichloroethane	23.4	0.50	ug/l	25.0	ND	94	65-140			
1,1-Dichloroethene	26.2	0.50	ug/l	25.0	ND	105	70-130			
cis-1,2-Dichloroethene	23.3	0.50	ug/l	25.0	0.240	92	70-125			
trans-1,2-Dichloroethene	25.5	0.50	ug/l	25.0	ND	102	75-125			
1,2-Dichloropropane	23.8	0.50	ug/l	25.0	ND	95	75-125			
1,3-Dichloropropane	23.8	0.50	ug/l	25.0	ND	95	70-120			
2,2-Dichloropropane	23.5	1.0	ug/l	25.0	ND	94	65-140			

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
Matrix Spike Analyzed: 09/14/2011 (11I0468-MS1)					**Source: PUI0566-01**					
1,1-Dichloropropene	25.0	0.50	ug/l	25.0	ND	100	65-130			
cis-1,3-Dichloropropene	21.6	0.50	ug/l	25.0	ND	86	75-130			
trans-1,3-Dichloropropene	21.4	0.50	ug/l	25.0	ND	85	70-130			
Ethylbenzene	25.5	0.50	ug/l	25.0	ND	102	70-125			
Hexachlorobutadiene	26.4	1.0	ug/l	25.0	ND	106	40-150			
2-Hexanone	19.1	2.5	ug/l	25.0	ND	77	20-150			
Iodomethane	28.0	2.5	ug/l	25.0	ND	112	60-150			
Isopropylbenzene	27.4	0.50	ug/l	25.0	ND	110	75-130			
p-Isopropyltoluene	26.5	0.50	ug/l	25.0	ND	106	70-130			
Methylene Chloride	22.7	1.0	ug/l	25.0	ND	91	65-130			
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135			
Methyl-tert-butyl Ether (MTBE)	21.4	0.50	ug/l	25.0	ND	86	65-140			
Naphthalene	27.0	2.5	ug/l	25.0	ND	108	40-150			
n-Propylbenzene	27.1	0.50	ug/l	25.0	ND	108	70-130			
Styrene	21.7	0.50	ug/l	25.0	ND	87	55-135			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0	ND	99	70-125			
1,1,2,2-Tetrachloroethane	25.0	0.50	ug/l	25.0	ND	100	70-125			
Tetrachloroethene	29.2	0.50	ug/l	25.0	3.29	104	65-130			
Toluene	25.4	0.50	ug/l	25.0	0.530	99	70-125			
1,2,3-Trichlorobenzene	26.8	1.0	ug/l	25.0	ND	107	50-150			
1,2,4-Trichlorobenzene	26.9	1.0	ug/l	25.0	ND	107	50-150			
1,1,1-Trichloroethane	25.7	0.50	ug/l	25.0	ND	103	70-130			
1,1,2-Trichloroethane	23.4	0.50	ug/l	25.0	ND	94	75-125			
Trichloroethene	26.2	0.50	ug/l	25.0	1.78	98	70-125			
Trichlorofluoromethane	29.0	0.50	ug/l	25.0	ND	116	65-150			
1,2,3-Trichloropropane	24.0	1.0	ug/l	25.0	ND	96	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0	ND	97	70-125			
1,3,5-Trimethylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
Vinyl Acetate	24.8	1.0	ug/l	25.0	ND	99	40-150			
Vinyl chloride	24.4	0.50	ug/l	25.0	ND	98	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	27.2	2.0	ug/l	25.0	ND	109	65-140			
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*		*ug/l*	*25.0*		*94*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
Matrix Spike Dup Analyzed: 09/14/2011 (11I0468-MSD1)					**Source: PUI0566-01**					
Acetone	14.5	10	ug/l	25.0	ND	58	10-150	4	35	
Benzene	23.4	0.50	ug/l	25.0	ND	94	70-125	5	25	
Bromobenzene	24.1	0.50	ug/l	25.0	ND	96	75-120	4	20	
Bromochloromethane	23.3	0.50	ug/l	25.0	ND	93	75-130	0.5	20	
Bromodichloromethane	22.6	0.50	ug/l	25.0	ND	90	75-125	3	20	
Bromoform	21.6	1.0	ug/l	25.0	ND	87	65-125	10	25	
Bromomethane	24.1	1.0	ug/l	25.0	ND	97	45-150	0.2	35	
2-Butanone (MEK)	19.2	2.5	ug/l	25.0	ND	77	15-150	3	30	
n-Butylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-130	5	30	
sec-Butylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-125	6	30	
tert-Butylbenzene	25.3	0.50	ug/l	25.0	ND	101	70-125	4	25	
Carbon disulfide	17.0	0.50	ug/l	25.0	ND	68	65-145	38	25	*R1*
Carbon tetrachloride	23.8	0.50	ug/l	25.0	ND	95	65-135	4	25	
Chlorobenzene	25.0	0.50	ug/l	25.0	ND	100	75-120	4	20	
Chloroethane	24.9	1.0	ug/l	25.0	ND	100	65-140	6	25	
Chloroform	24.6	0.50	ug/l	25.0	1.82	91	70-130	4	20	
Chloromethane	20.2	1.0	ug/l	25.0	ND	81	55-145	0.6	35	
2-Chlorotoluene	24.0	0.50	ug/l	25.0	ND	96	70-125	5	25	
4-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	98	70-125	5	25	
Dibromochloromethane	22.8	0.50	ug/l	25.0	ND	91	70-130	4	20	
1,2-Dibromo-3-chloropropane	23.7	2.5	ug/l	25.0	ND	95	50-150	0.7	30	
1,2-Dibromoethane (EDB)	24.1	0.50	ug/l	25.0	ND	96	70-125	1	20	
Dibromomethane	22.6	0.50	ug/l	25.0	ND	90	70-120	0.3	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	99	75-120	2	20	
1,3-Dichlorobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120	6	25	
1,4-Dichlorobenzene	24.5	0.50	ug/l	25.0	ND	98	70-125	4	20	
Dichlorodifluoromethane	20.1	0.50	ug/l	25.0	ND	80	60-150	4	30	
1,1-Dichloroethane	23.6	0.50	ug/l	25.0	ND	94	70-130	5	20	
1,2-Dichloroethane	23.0	0.50	ug/l	25.0	ND	92	65-140	2	20	
1,1-Dichloroethene	25.4	0.50	ug/l	25.0	ND	101	70-130	3	25	
cis-1,2-Dichloroethene	22.4	0.50	ug/l	25.0	0.240	89	70-125	4	20	
trans-1,2-Dichloroethene	24.2	0.50	ug/l	25.0	ND	97	75-125	5	25	
1,2-Dichloropropane	23.1	0.50	ug/l	25.0	ND	92	75-125	3	20	
1,3-Dichloropropane	23.5	0.50	ug/l	25.0	ND	94	70-120	1	20	
2,2-Dichloropropane	22.0	1.0	ug/l	25.0	ND	88	65-140	7	25	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0468 Extracted: 09/14/11										
Matrix Spike Dup Analyzed: 09/14/2011 (11I0468-MSD1)					**Source: PUI0566-01**					
1,1-Dichloropropene	23.8	0.50	ug/l	25.0	ND	95	65-130	5	25	
cis-1,3-Dichloropropene	20.8	0.50	ug/l	25.0	ND	83	75-130	4	20	
trans-1,3-Dichloropropene	20.6	0.50	ug/l	25.0	ND	83	70-130	3	20	
Ethylbenzene	24.6	0.50	ug/l	25.0	ND	99	70-125	3	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	4	30	
2-Hexanone	19.2	2.5	ug/l	25.0	ND	77	20-150	0.3	30	
Iodomethane	27.1	2.5	ug/l	25.0	ND	108	60-150	3	30	
Isopropylbenzene	26.0	0.50	ug/l	25.0	ND	104	75-130	5	25	
p-Isopropyltoluene	25.3	0.50	ug/l	25.0	ND	101	70-130	5	30	
Methylene Chloride	22.5	1.0	ug/l	25.0	ND	90	65-130	0.9	20	
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135	0.05	25	
Methyl-tert-butyl Ether (MTBE)	21.6	0.50	ug/l	25.0	ND	87	65-140	1	25	
Naphthalene	27.3	2.5	ug/l	25.0	ND	109	40-150	1	30	
n-Propylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-130	5	30	
Styrene	19.1	0.50	ug/l	25.0	ND	76	55-135	13	35	
1,1,1,2-Tetrachloroethane	24.1	0.50	ug/l	25.0	ND	97	70-125	2	20	
1,1,2,2-Tetrachloroethane	24.9	0.50	ug/l	25.0	ND	100	70-125	0.4	25	
Tetrachloroethene	28.5	0.50	ug/l	25.0	3.29	101	65-130	3	25	
Toluene	24.3	0.50	ug/l	25.0	0.530	95	70-125	4	20	
1,2,3-Trichlorobenzene	26.4	1.0	ug/l	25.0	ND	106	50-150	1	35	
1,2,4-Trichlorobenzene	26.2	1.0	ug/l	25.0	ND	105	50-150	3	25	
1,1,1-Trichloroethane	24.5	0.50	ug/l	25.0	ND	98	70-130	5	25	
1,1,2-Trichloroethane	23.2	0.50	ug/l	25.0	ND	93	75-125	0.6	20	
Trichloroethene	25.2	0.50	ug/l	25.0	1.78	94	70-125	4	25	
Trichlorofluoromethane	28.8	0.50	ug/l	25.0	ND	115	65-150	0.9	25	
1,2,3-Trichloropropane	24.3	1.0	ug/l	25.0	ND	97	70-130	1	25	
1,2,4-Trimethylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	6	30	
1,3,5-Trimethylbenzene	24.3	0.50	ug/l	25.0	ND	97	75-130	5	25	
Vinyl Acetate	20.2	1.0	ug/l	25.0	ND	81	40-150	21	30	
Vinyl chloride	23.4	0.50	ug/l	25.0	ND	94	60-140	4	25	
Xylenes, Total	45.7	1.5	ug/l	50.0	ND	91	75-120	3	15	
Freon 113	27.0	2.0	ug/l	25.0	ND	108	65-140	0.7	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*		*ug/l*	*25.0*		*94*	*80-125*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
Blank Analyzed: 09/15/2011 (11I0528-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	2.19	0.50	ug/l							*B1*
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
Blank Analyzed: 09/15/2011 (11I0528-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-125*			

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Sampled: 09/09/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
LCS Analyzed: 09/15/2011 (11I0528-BS1)										
Acetone	32.0	10	ug/l	25.0		128	10-150			
Benzene	23.5	0.50	ug/l	25.0		94	80-120			
Bromobenzene	26.4	0.50	ug/l	25.0		106	80-120			
Bromochloromethane	21.8	0.50	ug/l	25.0		87	80-125			
Bromodichloromethane	20.1	0.50	ug/l	25.0		80	80-120			
Bromoform	25.3	1.0	ug/l	25.0		101	75-130			
Bromomethane	23.7	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	24.6	2.5	ug/l	25.0		98	40-150			
n-Butylbenzene	26.1	0.50	ug/l	25.0		104	80-130			
sec-Butylbenzene	27.0	0.50	ug/l	25.0		108	80-125			
tert-Butylbenzene	26.2	0.50	ug/l	25.0		105	80-120			
Carbon disulfide	22.9	0.50	ug/l	25.0		92	70-140			
Carbon tetrachloride	23.6	0.50	ug/l	25.0		94	75-130			
Chlorobenzene	27.3	0.50	ug/l	25.0		109	80-120			
Chloroethane	20.1	1.0	ug/l	25.0		80	70-130			
Chloroform	20.6	0.50	ug/l	25.0		83	75-120			
Chloromethane	16.9	1.0	ug/l	25.0		68	60-140			
2-Chlorotoluene	24.5	0.50	ug/l	25.0		98	80-120			
4-Chlorotoluene	24.4	0.50	ug/l	25.0		98	80-120			
Dibromochloromethane	24.4	0.50	ug/l	25.0		98	80-120			
1,2-Dibromo-3-chloropropane	22.2	2.5	ug/l	25.0		89	50-150			
1,2-Dibromoethane (EDB)	23.5	0.50	ug/l	25.0		94	80-120			
Dibromomethane	21.8	0.50	ug/l	25.0		87	75-120			
1,2-Dichlorobenzene	27.0	0.50	ug/l	25.0		108	80-120			
1,3-Dichlorobenzene	27.2	0.50	ug/l	25.0		109	80-120			
1,4-Dichlorobenzene	26.3	0.50	ug/l	25.0		105	80-120			
Dichlorodifluoromethane	15.7	0.50	ug/l	25.0		63	60-150			
1,1-Dichloroethane	21.0	0.50	ug/l	25.0		84	70-125			
1,2-Dichloroethane	18.6	0.50	ug/l	25.0		74	75-130			*N1*
1,1-Dichloroethene	21.2	0.50	ug/l	25.0		85	75-125			
cis-1,2-Dichloroethene	19.6	0.50	ug/l	25.0		79	80-120			*N1*
trans-1,2-Dichloroethene	21.2	0.50	ug/l	25.0		85	80-120			
1,2-Dichloropropane	21.2	0.50	ug/l	25.0		85	80-120			
1,3-Dichloropropane	24.2	0.50	ug/l	25.0		97	80-120			
2,2-Dichloropropane	19.7	1.0	ug/l	25.0		79	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
LCS Analyzed: 09/15/2011 (11I0528-BS1)										
1,1-Dichloropropene	21.0	0.50	ug/l	25.0		84	75-120			
cis-1,3-Dichloropropene	20.8	0.50	ug/l	25.0		83	80-120			
trans-1,3-Dichloropropene	20.6	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	26.8	0.50	ug/l	25.0		107	80-120			
Hexachlorobutadiene	30.2	1.0	ug/l	25.0		121	40-150			
2-Hexanone	23.5	2.5	ug/l	25.0		94	20-150			
Iodomethane	32.9	2.5	ug/l	25.0		131	80-130			*L3*
Isopropylbenzene	26.9	0.50	ug/l	25.0		108	80-130			
p-Isopropyltoluene	26.8	0.50	ug/l	25.0		107	80-130			
Methylene Chloride	21.5	1.0	ug/l	25.0		86	70-120			
4-Methyl-2-pentanone (MIBK)	19.0	2.5	ug/l	25.0		76	60-135			
Methyl-tert-butyl Ether (MTBE)	17.8	0.50	ug/l	25.0		71	70-130			
Naphthalene	24.3	2.5	ug/l	25.0		97	40-150			
n-Propylbenzene	25.8	0.50	ug/l	25.0		103	75-130			
Styrene	24.5	0.50	ug/l	25.0		98	80-120			
1,1,1,2-Tetrachloroethane	27.4	0.50	ug/l	25.0		110	75-125			
1,1,2,2-Tetrachloroethane	23.8	0.50	ug/l	25.0		95	80-120			
Tetrachloroethene	29.7	0.50	ug/l	25.0		119	70-130			
Toluene	24.7	0.50	ug/l	25.0		99	80-120			
1,2,3-Trichlorobenzene	28.1	1.0	ug/l	25.0		113	55-150			
1,2,4-Trichlorobenzene	27.8	1.0	ug/l	25.0		111	50-150			
1,1,1-Trichloroethane	21.8	0.50	ug/l	25.0		87	75-125			
1,1,2-Trichloroethane	21.7	0.50	ug/l	25.0		87	80-120			
Trichloroethene	23.6	0.50	ug/l	25.0		95	80-120			
Trichlorofluoromethane	21.4	0.50	ug/l	25.0		86	70-150			
1,2,3-Trichloropropane	22.2	1.0	ug/l	25.0		89	70-130			
1,2,4-Trimethylbenzene	25.4	0.50	ug/l	25.0		102	80-120			
1,3,5-Trimethylbenzene	25.8	0.50	ug/l	25.0		103	80-130			
Vinyl Acetate	18.4	1.0	ug/l	25.0		74	40-150			
Vinyl chloride	20.6	0.50	ug/l	25.0		83	70-130			
Xylenes, Total	53.5	1.5	ug/l	50.0		107	60-140			
Freon 113	24.2	2.0	ug/l	25.0		97	60-140			
Surrogate: Dibromofluoromethane	*22.8*		*ug/l*	*25.0*		*91*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
LCS Dup Analyzed: 09/15/2011 (11I0528-BSD1)										
Acetone	24.7	10	ug/l	25.0		99	10-150	26	35	
Benzene	22.9	0.50	ug/l	25.0		92	80-120	3	15	
Bromobenzene	25.6	0.50	ug/l	25.0		102	80-120	3	15	
Bromochloromethane	24.4	0.50	ug/l	25.0		98	80-125	11	15	
Bromodichloromethane	22.1	0.50	ug/l	25.0		88	80-120	9	15	
Bromoform	25.7	1.0	ug/l	25.0		103	75-130	2	20	
Bromomethane	24.2	1.0	ug/l	25.0		97	55-150	2	20	
2-Butanone (MEK)	22.4	2.5	ug/l	25.0		90	40-150	9	35	
n-Butylbenzene	22.3	0.50	ug/l	25.0		89	80-130	16	15	*R6*
sec-Butylbenzene	22.5	0.50	ug/l	25.0		90	80-125	18	15	*R6*
tert-Butylbenzene	22.7	0.50	ug/l	25.0		91	80-120	15	15	
Carbon disulfide	22.4	0.50	ug/l	25.0		90	70-140	2	15	
Carbon tetrachloride	21.4	0.50	ug/l	25.0		86	75-130	10	20	
Chlorobenzene	26.0	0.50	ug/l	25.0		104	80-120	5	15	
Chloroethane	20.0	1.0	ug/l	25.0		80	70-130	0.4	15	
Chloroform	22.0	0.50	ug/l	25.0		88	75-120	6	15	
Chloromethane	17.2	1.0	ug/l	25.0		69	60-140	1	20	
2-Chlorotoluene	22.3	0.50	ug/l	25.0		89	80-120	9	15	
4-Chlorotoluene	22.5	0.50	ug/l	25.0		90	80-120	8	15	
Dibromochloromethane	24.9	0.50	ug/l	25.0		100	80-120	2	15	
1,2-Dibromo-3-chloropropane	23.2	2.5	ug/l	25.0		93	50-150	5	35	
1,2-Dibromoethane (EDB)	25.5	0.50	ug/l	25.0		102	80-120	8	15	
Dibromomethane	23.5	0.50	ug/l	25.0		94	75-120	8	15	
1,2-Dichlorobenzene	25.6	0.50	ug/l	25.0		102	80-120	5	15	
1,3-Dichlorobenzene	25.3	0.50	ug/l	25.0		101	80-120	7	15	
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120	3	15	
Dichlorodifluoromethane	13.8	0.50	ug/l	25.0		55	60-150	13	30	*N1*
1,1-Dichloroethane	21.3	0.50	ug/l	25.0		85	70-125	2	15	
1,2-Dichloroethane	21.6	0.50	ug/l	25.0		86	75-130	15	15	
1,1-Dichloroethene	20.2	0.50	ug/l	25.0		81	75-125	5	20	
cis-1,2-Dichloroethene	21.1	0.50	ug/l	25.0		84	80-120	7	15	
trans-1,2-Dichloroethene	21.0	0.50	ug/l	25.0		84	80-120	0.7	15	
1,2-Dichloropropane	22.3	0.50	ug/l	25.0		89	80-120	5	15	
1,3-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120	0.7	15	
2,2-Dichloropropane	19.3	1.0	ug/l	25.0		77	75-130	2	15	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
LCS Dup Analyzed: 09/15/2011 (11I0528-BSD1)										
1,1-Dichloropropene	20.0	0.50	ug/l	25.0		80	75-120	5	15	
cis-1,3-Dichloropropene	22.6	0.50	ug/l	25.0		91	80-120	8	15	
trans-1,3-Dichloropropene	22.9	0.50	ug/l	25.0		92	80-125	11	15	
Ethylbenzene	24.1	0.50	ug/l	25.0		97	80-120	11	15	
Hexachlorobutadiene	25.0	1.0	ug/l	25.0		100	40-150	19	35	
2-Hexanone	19.4	2.5	ug/l	25.0		78	20-150	19	35	
Iodomethane	34.6	2.5	ug/l	25.0		138	80-130	5	10	*L3*
Isopropylbenzene	24.1	0.50	ug/l	25.0		96	80-130	11	15	
p-Isopropyltoluene	23.0	0.50	ug/l	25.0		92	80-130	15	15	
Methylene Chloride	23.2	1.0	ug/l	25.0		93	70-120	8	15	
4-Methyl-2-pentanone (MIBK)	21.3	2.5	ug/l	25.0		85	60-135	12	25	
Methyl-tert-butyl Ether (MTBE)	20.6	0.50	ug/l	25.0		82	70-130	15	20	
Naphthalene	24.5	2.5	ug/l	25.0		98	40-150	0.8	30	
n-Propylbenzene	22.9	0.50	ug/l	25.0		92	75-130	12	15	
Styrene	23.3	0.50	ug/l	25.0		93	80-120	5	15	
1,1,1,2-Tetrachloroethane	25.9	0.50	ug/l	25.0		104	75-125	6	15	
1,1,2,2-Tetrachloroethane	23.8	0.50	ug/l	25.0		95	80-120	0.04	20	
Tetrachloroethene	25.4	0.50	ug/l	25.0		101	70-130	16	20	
Toluene	24.1	0.50	ug/l	25.0		96	80-120	2	15	
1,2,3-Trichlorobenzene	26.1	1.0	ug/l	25.0		104	55-150	7	35	
1,2,4-Trichlorobenzene	26.3	1.0	ug/l	25.0		105	50-150	6	30	
1,1,1-Trichloroethane	22.0	0.50	ug/l	25.0		88	75-125	1	15	
1,1,2-Trichloroethane	24.8	0.50	ug/l	25.0		99	80-120	13	15	
Trichloroethene	23.1	0.50	ug/l	25.0		92	80-120	2	15	
Trichlorofluoromethane	20.2	0.50	ug/l	25.0		81	70-150	6	25	
1,2,3-Trichloropropane	23.5	1.0	ug/l	25.0		94	70-130	6	20	
1,2,4-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-120	8	15	
1,3,5-Trimethylbenzene	23.2	0.50	ug/l	25.0		93	80-130	11	15	
Vinyl Acetate	21.5	1.0	ug/l	25.0		86	40-150	15	25	
Vinyl chloride	19.8	0.50	ug/l	25.0		79	70-130	4	20	
Xylenes, Total	49.4	1.5	ug/l	50.0		99	60-140	8	15	
Freon 113	20.8	2.0	ug/l	25.0		83	60-140	15	15	
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
Matrix Spike Analyzed: 09/15/2011 (11I0528-MS1)					**Source: PUI0523-15**					
Acetone	20.0	10	ug/l	25.0	ND	80	10-150			
Benzene	25.6	0.50	ug/l	25.0	1.72	96	70-125			
Bromobenzene	26.3	0.50	ug/l	25.0	ND	105	75-120			
Bromochloromethane	25.8	0.50	ug/l	25.0	ND	103	75-130			
Bromodichloromethane	22.6	0.50	ug/l	25.0	ND	90	75-125			
Bromoform	27.0	1.0	ug/l	25.0	ND	108	65-125			
Bromomethane	25.8	1.0	ug/l	25.0	ND	103	45-150			
2-Butanone (MEK)	26.0	2.5	ug/l	25.0	ND	104	15-150			
n-Butylbenzene	22.9	0.50	ug/l	25.0	ND	92	70-130			
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125			
tert-Butylbenzene	23.7	0.50	ug/l	25.0	ND	95	70-125			
Carbon disulfide	24.2	0.50	ug/l	25.0	ND	97	65-145			
Carbon tetrachloride	22.5	0.50	ug/l	25.0	ND	90	65-135			
Chlorobenzene	66.2	0.50	ug/l	25.0	34.8	126	75-120			*M1*
Chloroethane	21.6	1.0	ug/l	25.0	ND	87	65-140			
Chloroform	24.2	0.50	ug/l	25.0	ND	97	70-130			
Chloromethane	18.3	1.0	ug/l	25.0	ND	73	55-145			
2-Chlorotoluene	23.4	0.50	ug/l	25.0	ND	94	70-125			
4-Chlorotoluene	23.9	0.50	ug/l	25.0	ND	96	70-125			
Dibromochloromethane	25.9	0.50	ug/l	25.0	ND	104	70-130			
1,2-Dibromo-3-chloropropane	25.3	2.5	ug/l	25.0	ND	101	50-150			
1,2-Dibromoethane (EDB)	26.4	0.50	ug/l	25.0	ND	105	70-125			
Dibromomethane	25.4	0.50	ug/l	25.0	ND	102	70-120			
1,2-Dichlorobenzene	28.9	0.50	ug/l	25.0	1.58	109	75-120			
1,3-Dichlorobenzene	27.0	0.50	ug/l	25.0	0.260	107	75-120			
1,4-Dichlorobenzene	28.1	0.50	ug/l	25.0	ND	112	70-125			
Dichlorodifluoromethane	14.8	0.50	ug/l	25.0	ND	59	60-150			*N1*
1,1-Dichloroethane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,2-Dichloroethane	23.6	0.50	ug/l	25.0	ND	95	65-140			
1,1-Dichloroethene	21.9	0.50	ug/l	25.0	ND	88	70-130			
cis-1,2-Dichloroethene	29.6	0.50	ug/l	25.0	5.80	95	70-125			
trans-1,2-Dichloroethene	22.5	0.50	ug/l	25.0	0.400	88	75-125			
1,2-Dichloropropane	23.8	0.50	ug/l	25.0	ND	95	75-125			
1,3-Dichloropropane	25.8	0.50	ug/l	25.0	ND	103	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

TestAmerica Phoenix

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
Matrix Spike Analyzed: 09/15/2011 (11I0528-MS1)					**Source: PUI0523-15**					
1,1-Dichloropropene	20.4	0.50	ug/l	25.0	ND	81	65-130			
cis-1,3-Dichloropropene	22.4	0.50	ug/l	25.0	ND	90	75-130			
trans-1,3-Dichloropropene	21.9	0.50	ug/l	25.0	ND	88	70-130			
Ethylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-125			
Hexachlorobutadiene	25.9	1.0	ug/l	25.0	0.550	101	40-150			
2-Hexanone	21.9	2.5	ug/l	25.0	ND	88	20-150			
Iodomethane	36.1	2.5	ug/l	25.0	ND	144	60-150			
Isopropylbenzene	25.0	0.50	ug/l	25.0	ND	100	75-130			
p-Isopropyltoluene	24.0	0.50	ug/l	25.0	ND	96	70-130			
Methylene Chloride	25.3	1.0	ug/l	25.0	ND	101	65-130			
4-Methyl-2-pentanone (MIBK)	21.1	2.5	ug/l	25.0	ND	84	55-135			
Methyl-tert-butyl Ether (MTBE)	22.7	0.50	ug/l	25.0	ND	91	65-140			
Naphthalene	24.9	2.5	ug/l	25.0	ND	100	40-150			
n-Propylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-130			
Styrene	24.8	0.50	ug/l	25.0	ND	99	55-135			
1,1,1,2-Tetrachloroethane	27.6	0.50	ug/l	25.0	ND	110	70-125			
1,1,2,2-Tetrachloroethane	26.8	0.50	ug/l	25.0	ND	107	70-125			
Tetrachloroethene	25.9	0.50	ug/l	25.0	ND	103	65-130			
Toluene	25.6	0.50	ug/l	25.0	ND	103	70-125			
1,2,3-Trichlorobenzene	28.0	1.0	ug/l	25.0	ND	112	50-150			
1,2,4-Trichlorobenzene	27.7	1.0	ug/l	25.0	ND	111	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	25.7	0.50	ug/l	25.0	ND	103	75-125			
Trichloroethene	24.6	0.50	ug/l	25.0	0.370	97	70-125			
Trichlorofluoromethane	21.3	0.50	ug/l	25.0	ND	85	65-150			
1,2,3-Trichloropropane	24.9	1.0	ug/l	25.0	ND	100	70-130			
1,2,4-Trimethylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-125			
1,3,5-Trimethylbenzene	24.2	0.50	ug/l	25.0	ND	97	75-130			
Vinyl Acetate	22.8	1.0	ug/l	25.0	ND	91	40-150			
Vinyl chloride	30.4	0.50	ug/l	25.0	9.32	84	60-140			
Xylenes, Total	52.4	1.5	ug/l	50.0	ND	105	75-120			
Freon 113	22.7	2.0	ug/l	25.0	ND	91	65-140			
Surrogate: Dibromofluoromethane	*26.8*		*ug/l*	*25.0*		*107*	*80-130*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
Matrix Spike Dup Analyzed: 09/15/2011 (11I0528-MSD1)					**Source: PUI0523-15**					
Acetone	19.9	10	ug/l	25.0	ND	80	10-150	0.4	35	
Benzene	25.8	0.50	ug/l	25.0	1.72	96	70-125	0.6	25	
Bromobenzene	26.9	0.50	ug/l	25.0	ND	108	75-120	2	20	
Bromochloromethane	22.9	0.50	ug/l	25.0	ND	92	75-130	12	20	
Bromodichloromethane	21.7	0.50	ug/l	25.0	ND	87	75-125	4	20	
Bromoform	25.5	1.0	ug/l	25.0	ND	102	65-125	6	25	
Bromomethane	26.0	1.0	ug/l	25.0	ND	104	45-150	0.7	35	
2-Butanone (MEK)	23.5	2.5	ug/l	25.0	ND	94	15-150	10	30	
n-Butylbenzene	24.6	0.50	ug/l	25.0	ND	99	70-130	7	30	
sec-Butylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	4	30	
tert-Butylbenzene	24.9	0.50	ug/l	25.0	ND	99	70-125	5	25	
Carbon disulfide	24.0	0.50	ug/l	25.0	ND	96	65-145	0.8	25	
Carbon tetrachloride	21.9	0.50	ug/l	25.0	ND	87	65-135	3	25	
Chlorobenzene	60.3	0.50	ug/l	25.0	34.8	102	75-120	9	20	
Chloroethane	21.3	1.0	ug/l	25.0	ND	85	65-140	2	25	
Chloroform	22.8	0.50	ug/l	25.0	ND	91	70-130	6	20	
Chloromethane	17.8	1.0	ug/l	25.0	ND	71	55-145	2	35	
2-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	97	70-125	4	25	
4-Chlorotoluene	24.1	0.50	ug/l	25.0	ND	96	70-125	0.7	25	
Dibromochloromethane	23.6	0.50	ug/l	25.0	ND	95	70-130	9	20	
1,2-Dibromo-3-chloropropane	22.9	2.5	ug/l	25.0	ND	91	50-150	10	30	
1,2-Dibromoethane (EDB)	23.7	0.50	ug/l	25.0	ND	95	70-125	11	20	
Dibromomethane	22.8	0.50	ug/l	25.0	ND	91	70-120	11	20	
1,2-Dichlorobenzene	28.9	0.50	ug/l	25.0	1.58	109	75-120	0.07	20	
1,3-Dichlorobenzene	26.9	0.50	ug/l	25.0	0.260	106	75-120	0.5	25	
1,4-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	110	70-125	2	20	
Dichlorodifluoromethane	15.0	0.50	ug/l	25.0	ND	60	60-150	1	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0	ND	88	70-130	6	20	
1,2-Dichloroethane	21.2	0.50	ug/l	25.0	ND	85	65-140	11	20	
1,1-Dichloroethene	22.4	0.50	ug/l	25.0	ND	89	70-130	2	25	
cis-1,2-Dichloroethene	27.9	0.50	ug/l	25.0	5.80	88	70-125	6	20	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	0.400	87	75-125	0.9	25	
1,2-Dichloropropane	22.2	0.50	ug/l	25.0	ND	89	75-125	7	20	
1,3-Dichloropropane	23.6	0.50	ug/l	25.0	ND	95	70-120	9	20	
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140	0.05	25	

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0528 Extracted: 09/15/11										
Matrix Spike Dup Analyzed: 09/15/2011 (11I0528-MSD1)					**Source: PUI0523-15**					
1,1-Dichloropropene	20.6	0.50	ug/l	25.0	ND	82	65-130	1	25	
cis-1,3-Dichloropropene	21.1	0.50	ug/l	25.0	ND	84	75-130	6	20	
trans-1,3-Dichloropropene	21.7	0.50	ug/l	25.0	ND	87	70-130	0.9	20	
Ethylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125	2	25	
Hexachlorobutadiene	27.2	1.0	ug/l	25.0	0.550	107	40-150	5	30	
2-Hexanone	18.4	2.5	ug/l	25.0	ND	74	20-150	18	30	
Iodomethane	35.9	2.5	ug/l	25.0	ND	144	60-150	0.4	30	
Isopropylbenzene	26.6	0.50	ug/l	25.0	ND	107	75-130	6	25	
p-Isopropyltoluene	25.5	0.50	ug/l	25.0	ND	102	70-130	6	30	
Methylene Chloride	23.3	1.0	ug/l	25.0	ND	93	65-130	8	20	
4-Methyl-2-pentanone (MIBK)	20.2	2.5	ug/l	25.0	ND	81	55-135	4	25	
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0	ND	80	65-140	12	25	
Naphthalene	24.3	2.5	ug/l	25.0	ND	97	40-150	2	30	
n-Propylbenzene	25.2	0.50	ug/l	25.0	ND	101	70-130	5	30	
Styrene	22.9	0.50	ug/l	25.0	ND	92	55-135	8	35	
1,1,1,2-Tetrachloroethane	25.2	0.50	ug/l	25.0	ND	101	70-125	9	20	
1,1,2,2-Tetrachloroethane	25.4	0.50	ug/l	25.0	ND	102	70-125	6	25	
Tetrachloroethene	25.6	0.50	ug/l	25.0	ND	102	65-130	1	25	
Toluene	25.0	0.50	ug/l	25.0	ND	100	70-125	3	20	
1,2,3-Trichlorobenzene	28.1	1.0	ug/l	25.0	ND	112	50-150	0.1	35	
1,2,4-Trichlorobenzene	27.1	1.0	ug/l	25.0	ND	108	50-150	2	25	
1,1,1-Trichloroethane	22.4	0.50	ug/l	25.0	ND	90	70-130	1	25	
1,1,2-Trichloroethane	23.8	0.50	ug/l	25.0	ND	95	75-125	8	20	
Trichloroethene	24.2	0.50	ug/l	25.0	0.370	95	70-125	1	25	
Trichlorofluoromethane	21.7	0.50	ug/l	25.0	ND	87	65-150	2	25	
1,2,3-Trichloropropane	23.8	1.0	ug/l	25.0	ND	95	70-130	5	25	
1,2,4-Trimethylbenzene	25.5	0.50	ug/l	25.0	ND	102	70-125	3	30	
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0	ND	102	75-130	5	25	
Vinyl Acetate	20.4	1.0	ug/l	25.0	ND	81	40-150	11	30	
Vinyl chloride	30.8	0.50	ug/l	25.0	9.32	86	60-140	1	25	
Xylenes, Total	51.0	1.5	ug/l	50.0	ND	102	75-120	3	15	
Freon 113	23.0	2.0	ug/l	25.0	ND	92	65-140	1	20	
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0480 Extracted: 09/14/11										
Blank Analyzed: 09/15/2011 (11I0480-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*13.9*		*ug/l*	*20.0*		*70*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*85*	*59.9-120*			
LCS Analyzed: 09/15/2011 (11I0480-BS1)										**Q8**
1,4-Dioxane	20.3	1.0	ug/l	20.0		102	80-120			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.2*		*ug/l*	*20.0*		*91*	*38-125*			
LCS Dup Analyzed: 09/15/2011 (11I0480-BSD1)										**Q8**
1,4-Dioxane	20.6	1.0	ug/l	20.0		103	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*15.2*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*94*	*38-125*			

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

DATA QUALIFIERS AND DEFINITIONS

B1	Target analyte detected in method blank at or above the method reporting limit.
L3	The associated blank spike recovery was above method acceptance limits.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0566

Sampled: 09/09/11
Received: 09/09/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management

CHAIN OF CUSTODY RECORD

PVI0566

NO: 3041

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

PROJECT #	PROJECT NAME
0096498.030	OU3

SAMPLER: (PRINT NAME)	(SIGNATURE)
Adam Nagle	[signature]

RECEIVING LABORATORY: Test America, Phoenix, AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	VOC (8260B)	1,4-Dioxane (8270C)								
OU3-9M2-M-090911	9/9/11	0854		x	Pump	HCl / –	Y	40mL / 1L	3 / 2		x		x	x								-01
OU3-9S-S-090911	9/9/11	0919		x	Pump	HCl / –	Y	40mL / 1L	3 / 2		x		x	x								-02
OU3-12D-D-090911	9/9/11	1141		x	Pump	HCl / –	Y	40mL / 1L	3 / 2		x		x	x								-03
OU3-12M-M-090911	9/9/11	1336		x	Pump	HCl / –	Y	40mL / 1L	3 / 2		x		x	x								-04
SC-MW-1D-D-090911	9/9/11	1515		x	Pump	HCl / –	Y	40mL / 1L	3 / 2		x		x	x								-05
GW-EB1-2-090911	9/9/11	1516		x	~~Pump~~ HS	HCl / –	Y	40mL / 1L	3 / 2		x		x	x								-06
GW-LI-2-090911	9/9/11	–		–	—	HCl	Y	40mL	1		x		x	—		TRIP	BLANK	—				-07

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
[signature] / ERM	9/9/11	1535	[signature]	9/9/11	15:38
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME

FIELD REMARKS: 4.7°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@erm.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.030

Sampled: 09/12/11
Received: 09/12/11
Revised: 11/01/11 15:34

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0649-01	OU3-6D-D-091211	Water
PUI0649-02	OU3-6M-M-091211	Water
PUI0649-03	OU3-1D-D-091211	Water
PUI0649-04	GW-EB1-3-091211	Water
PUI0649-05	BE-MW-8-S-091211	Water
PUI0649-06	GW-L1-3-091211	Water
PUI0649-07	GW-R1-1-091211	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

SAMPLE RECEIPT:	Samples were received intact, at 1°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. R1-The RPD exceeded the acceptance limit. S10-Surrogate recovery was above acceptance limits. N1-The RPD exceeded the acceptance limit due to sample matrix effects.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-01 (OU3-6D-D-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-01 (OU3-6D-D-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*101 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-02 (OU3-6M-M-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**0.63**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-02 (OU3-6M-M-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	**0.59**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*101 %*				

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-03 (OU3-1D-D-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-03 (OU3-1D-D-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*101 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-04 (GW-EB1-3-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	**4.5**	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**9.2**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	**2.1**	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-04 (GW-EB1-3-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*102 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-05 (BE-MW-8-S-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0699	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Bromoform	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0699	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0699	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Ethylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-05 (BE-MW-8-S-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0699	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0699	2.5	ND	1	9/20/2011	9/20/2011	
Isopropylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0699	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0699	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0699	0.50	**5.2**	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0699	0.50	**0.61**	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0699	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0699	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0699	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0699	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*101 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-06 (GW-L1-3-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-06 (GW-L1-3-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*100 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-07 (GW-R1-1-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	**4.7**	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**9.3**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	**2.1**	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-07 (GW-R1-1-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*103 %*				

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0649-01 (OU3-6D-D-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*68 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*90 %*				
Sample ID: PUI0649-02 (OU3-6M-M-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*65 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*86 %*				
Sample ID: PUI0649-03 (OU3-1D-D-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*71 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*93 %*				
Sample ID: PUI0649-04 (GW-EB1-3-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*70 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*97 %*				
Sample ID: PUI0649-05 (BE-MW-8-S-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*62 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*86 %*				
Sample ID: PUI0649-07 (GW-R1-1-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0480	1.0	ND	1	9/14/2011	9/15/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*99 %*				

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0627-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0627-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0627-BS1)										
Acetone	21.2	10	ug/l	25.0		85	10-150			
Benzene	27.7	0.50	ug/l	25.0		111	80-120			
Bromobenzene	28.5	0.50	ug/l	25.0		114	80-120			
Bromochloromethane	26.7	0.50	ug/l	25.0		107	80-125			
Bromodichloromethane	27.7	0.50	ug/l	25.0		111	80-120			
Bromoform	26.8	1.0	ug/l	25.0		107	75-130			
Bromomethane	23.2	1.0	ug/l	25.0		93	55-150			
2-Butanone (MEK)	23.3	2.5	ug/l	25.0		93	40-150			
n-Butylbenzene	28.7	0.50	ug/l	25.0		115	80-130			
sec-Butylbenzene	28.1	0.50	ug/l	25.0		112	80-125			
tert-Butylbenzene	29.6	0.50	ug/l	25.0		118	80-120			
Carbon disulfide	33.3	0.50	ug/l	25.0		133	70-140			
Carbon tetrachloride	30.5	0.50	ug/l	25.0		122	75-130			
Chlorobenzene	28.4	0.50	ug/l	25.0		114	80-120			
Chloroethane	26.2	1.0	ug/l	25.0		105	70-130			
Chloroform	26.2	0.50	ug/l	25.0		105	75-120			
Chloromethane	22.6	1.0	ug/l	25.0		90	60-140			
2-Chlorotoluene	27.8	0.50	ug/l	25.0		111	80-120			
4-Chlorotoluene	28.6	0.50	ug/l	25.0		114	80-120			
Dibromochloromethane	30.3	0.50	ug/l	25.0		121	80-120			*L3*
1,2-Dibromo-3-chloropropane	27.5	2.5	ug/l	25.0		110	50-150			
1,2-Dibromoethane (EDB)	27.2	0.50	ug/l	25.0		109	80-120			
Dibromomethane	25.9	0.50	ug/l	25.0		104	75-120			
1,2-Dichlorobenzene	28.8	0.50	ug/l	25.0		115	80-120			
1,3-Dichlorobenzene	28.3	0.50	ug/l	25.0		113	80-120			
1,4-Dichlorobenzene	28.4	0.50	ug/l	25.0		113	80-120			
Dichlorodifluoromethane	28.2	0.50	ug/l	25.0		113	60-150			
1,1-Dichloroethane	27.7	0.50	ug/l	25.0		111	70-125			
1,2-Dichloroethane	27.0	0.50	ug/l	25.0		108	75-130			
1,1-Dichloroethene	28.2	0.50	ug/l	25.0		113	75-125			
cis-1,2-Dichloroethene	25.3	0.50	ug/l	25.0		101	80-120			
trans-1,2-Dichloroethene	27.4	0.50	ug/l	25.0		109	80-120			
1,2-Dichloropropane	27.2	0.50	ug/l	25.0		109	80-120			
1,3-Dichloropropane	26.1	0.50	ug/l	25.0		104	80-120			
2,2-Dichloropropane	29.1	1.0	ug/l	25.0		116	75-130			

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0627-BS1)										
1,1-Dichloropropene	28.0	0.50	ug/l	25.0		112	75-120			
cis-1,3-Dichloropropene	29.0	0.50	ug/l	25.0		116	80-120			
trans-1,3-Dichloropropene	28.9	0.50	ug/l	25.0		115	80-125			
Ethylbenzene	27.9	0.50	ug/l	25.0		112	80-120			
Hexachlorobutadiene	29.5	1.0	ug/l	25.0		118	40-150			
2-Hexanone	26.1	2.5	ug/l	25.0		105	20-150			
Iodomethane	32.9	2.5	ug/l	25.0		132	80-130			*L3*
Isopropylbenzene	30.6	0.50	ug/l	25.0		123	80-130			
p-Isopropyltoluene	29.3	0.50	ug/l	25.0		117	80-130			
Methylene Chloride	24.4	1.0	ug/l	25.0		98	70-120			
4-Methyl-2-pentanone (MIBK)	27.0	2.5	ug/l	25.0		108	60-135			
Methyl-tert-butyl Ether (MTBE)	25.5	0.50	ug/l	25.0		102	70-130			
Naphthalene	30.5	2.5	ug/l	25.0		122	40-150			
n-Propylbenzene	29.3	0.50	ug/l	25.0		117	75-130			
Styrene	27.0	0.50	ug/l	25.0		108	80-120			
1,1,1,2-Tetrachloroethane	28.9	0.50	ug/l	25.0		116	75-125			
1,1,2,2-Tetrachloroethane	26.6	0.50	ug/l	25.0		106	80-120			
Tetrachloroethene	29.3	0.50	ug/l	25.0		117	70-130			
Toluene	26.9	0.50	ug/l	25.0		108	80-120			
1,2,3-Trichlorobenzene	29.5	1.0	ug/l	25.0		118	55-150			
1,2,4-Trichlorobenzene	29.6	1.0	ug/l	25.0		118	50-150			
1,1,1-Trichloroethane	28.6	0.50	ug/l	25.0		115	75-125			
1,1,2-Trichloroethane	26.3	0.50	ug/l	25.0		105	80-120			
Trichloroethene	27.7	0.50	ug/l	25.0		111	80-120			
Trichlorofluoromethane	29.1	0.50	ug/l	25.0		116	70-150			
1,2,3-Trichloropropane	27.6	1.0	ug/l	25.0		110	70-130			
1,2,4-Trimethylbenzene	28.1	0.50	ug/l	25.0		112	80-120			
1,3,5-Trimethylbenzene	29.3	0.50	ug/l	25.0		117	80-130			
Vinyl Acetate	28.7	1.0	ug/l	25.0		115	40-150			
Vinyl chloride	24.5	0.50	ug/l	25.0		98	70-130			
Xylenes, Total	52.7	1.5	ug/l	50.0		105	60-140			
Freon 113	29.9	2.0	ug/l	25.0		120	60-140			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0627-BSD1)										
Acetone	19.4	10	ug/l	25.0		78	10-150	9	35	
Benzene	24.4	0.50	ug/l	25.0		98	80-120	13	15	
Bromobenzene	25.4	0.50	ug/l	25.0		102	80-120	12	15	
Bromochloromethane	24.3	0.50	ug/l	25.0		97	80-125	9	15	
Bromodichloromethane	24.7	0.50	ug/l	25.0		99	80-120	11	15	
Bromoform	25.1	1.0	ug/l	25.0		100	75-130	7	20	
Bromomethane	21.1	1.0	ug/l	25.0		85	55-150	9	20	
2-Butanone (MEK)	22.0	2.5	ug/l	25.0		88	40-150	6	35	
n-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-130	15	15	
sec-Butylbenzene	24.5	0.50	ug/l	25.0		98	80-125	14	15	
tert-Butylbenzene	25.9	0.50	ug/l	25.0		104	80-120	13	15	
Carbon disulfide	29.8	0.50	ug/l	25.0		119	70-140	11	15	
Carbon tetrachloride	27.4	0.50	ug/l	25.0		110	75-130	11	20	
Chlorobenzene	25.1	0.50	ug/l	25.0		100	80-120	13	15	
Chloroethane	23.9	1.0	ug/l	25.0		95	70-130	9	15	
Chloroform	23.3	0.50	ug/l	25.0		93	75-120	12	15	
Chloromethane	20.4	1.0	ug/l	25.0		82	60-140	10	20	
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120	14	15	
4-Chlorotoluene	24.9	0.50	ug/l	25.0		99	80-120	14	15	
Dibromochloromethane	27.7	0.50	ug/l	25.0		111	80-120	9	15	
1,2-Dibromo-3-chloropropane	26.1	2.5	ug/l	25.0		105	50-150	5	35	
1,2-Dibromoethane (EDB)	25.5	0.50	ug/l	25.0		102	80-120	7	15	
Dibromomethane	23.9	0.50	ug/l	25.0		96	75-120	8	15	
1,2-Dichlorobenzene	25.9	0.50	ug/l	25.0		104	80-120	11	15	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	14	15	
1,4-Dichlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	12	15	
Dichlorodifluoromethane	25.7	0.50	ug/l	25.0		103	60-150	9	30	
1,1-Dichloroethane	24.4	0.50	ug/l	25.0		98	70-125	12	15	
1,2-Dichloroethane	24.0	0.50	ug/l	25.0		96	75-130	12	15	
1,1-Dichloroethene	25.2	0.50	ug/l	25.0		101	75-125	11	20	
cis-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	80-120	13	15	
trans-1,2-Dichloroethene	24.2	0.50	ug/l	25.0		97	80-120	12	15	
1,2-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120	12	15	
1,3-Dichloropropane	23.9	0.50	ug/l	25.0		96	80-120	9	15	
2,2-Dichloropropane	25.0	1.0	ug/l	25.0		100	75-130	15	15	

TestAmerica Phoenix

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0627-BSD1)										
1,1-Dichloropropene	25.0	0.50	ug/l	25.0		100	75-120	11	15	
cis-1,3-Dichloropropene	26.0	0.50	ug/l	25.0		104	80-120	11	15	
trans-1,3-Dichloropropene	26.4	0.50	ug/l	25.0		106	80-125	9	15	
Ethylbenzene	24.6	0.50	ug/l	25.0		99	80-120	13	15	
Hexachlorobutadiene	25.7	1.0	ug/l	25.0		103	40-150	14	35	
2-Hexanone	25.0	2.5	ug/l	25.0		100	20-150	5	35	
Iodomethane	29.6	2.5	ug/l	25.0		118	80-130	11	10	*R6*
Isopropylbenzene	26.7	0.50	ug/l	25.0		107	80-130	14	15	
p-Isopropyltoluene	25.2	0.50	ug/l	25.0		101	80-130	15	15	
Methylene Chloride	22.0	1.0	ug/l	25.0		88	70-120	10	15	
4-Methyl-2-pentanone (MIBK)	25.8	2.5	ug/l	25.0		103	60-135	5	25	
Methyl-tert-butyl Ether (MTBE)	23.5	0.50	ug/l	25.0		94	70-130	8	20	
Naphthalene	29.2	2.5	ug/l	25.0		117	40-150	4	30	
n-Propylbenzene	25.4	0.50	ug/l	25.0		102	75-130	14	15	
Styrene	24.0	0.50	ug/l	25.0		96	80-120	11	15	
1,1,1,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	75-125	10	15	
1,1,2,2-Tetrachloroethane	24.4	0.50	ug/l	25.0		97	80-120	9	20	
Tetrachloroethene	26.2	0.50	ug/l	25.0		105	70-130	11	20	
Toluene	23.8	0.50	ug/l	25.0		95	80-120	12	15	
1,2,3-Trichlorobenzene	27.7	1.0	ug/l	25.0		111	55-150	6	35	
1,2,4-Trichlorobenzene	27.2	1.0	ug/l	25.0		109	50-150	8	30	
1,1,1-Trichloroethane	25.4	0.50	ug/l	25.0		102	75-125	12	15	
1,1,2-Trichloroethane	24.1	0.50	ug/l	25.0		96	80-120	9	15	
Trichloroethene	24.3	0.50	ug/l	25.0		97	80-120	13	15	
Trichlorofluoromethane	26.5	0.50	ug/l	25.0		106	70-150	9	25	
1,2,3-Trichloropropane	25.5	1.0	ug/l	25.0		102	70-130	8	20	
1,2,4-Trimethylbenzene	24.3	0.50	ug/l	25.0		97	80-120	14	15	
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0		102	80-130	14	15	
Vinyl Acetate	27.0	1.0	ug/l	25.0		108	40-150	6	25	
Vinyl chloride	21.6	0.50	ug/l	25.0		86	70-130	13	20	
Xylenes, Total	46.7	1.5	ug/l	50.0		93	60-140	12	15	
Freon 113	26.8	2.0	ug/l	25.0		107	60-140	11	15	
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0627-MS1)					**Source: PUI0649-01**					
Acetone	15.3	10	ug/l	25.0	ND	61	10-150			
Benzene	23.6	0.50	ug/l	25.0	ND	94	70-125			
Bromobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	22.4	0.50	ug/l	25.0	ND	89	75-130			
Bromodichloromethane	23.0	0.50	ug/l	25.0	ND	92	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	19.2	1.0	ug/l	25.0	ND	77	45-150			
2-Butanone (MEK)	17.7	2.5	ug/l	25.0	ND	71	15-150			
n-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-130			
sec-Butylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
tert-Butylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125			
Carbon disulfide	28.4	0.50	ug/l	25.0	ND	114	65-145			
Carbon tetrachloride	27.2	0.50	ug/l	25.0	ND	109	65-135			
Chlorobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Chloroethane	22.0	1.0	ug/l	25.0	ND	88	65-140			
Chloroform	22.3	0.50	ug/l	25.0	ND	89	70-130			
Chloromethane	18.8	1.0	ug/l	25.0	ND	75	55-145			
2-Chlorotoluene	23.6	0.50	ug/l	25.0	ND	94	70-125			
4-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	98	70-125			
Dibromochloromethane	24.4	0.50	ug/l	25.0	ND	98	70-130			
1,2-Dibromo-3-chloropropane	22.8	2.5	ug/l	25.0	ND	91	50-150			
1,2-Dibromoethane (EDB)	22.3	0.50	ug/l	25.0	ND	89	70-125			
Dibromomethane	21.9	0.50	ug/l	25.0	ND	87	70-120			
1,2-Dichlorobenzene	24.2	0.50	ug/l	25.0	ND	97	75-120			
1,3-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	24.4	0.50	ug/l	25.0	ND	97	70-125			
Dichlorodifluoromethane	24.4	0.50	ug/l	25.0	ND	98	60-150			
1,1-Dichloroethane	23.4	0.50	ug/l	25.0	ND	93	70-130			
1,2-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	65-140			
1,1-Dichloroethene	24.5	0.50	ug/l	25.0	ND	98	70-130			
cis-1,2-Dichloroethene	21.6	0.50	ug/l	25.0	ND	86	70-125			
trans-1,2-Dichloroethene	23.7	0.50	ug/l	25.0	ND	95	75-125			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0	ND	90	75-125			
1,3-Dichloropropane	21.5	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	24.0	1.0	ug/l	25.0	ND	96	65-140			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0627-MS1)					**Source: PUI0649-01**					
1,1-Dichloropropene	24.5	0.50	ug/l	25.0	ND	98	65-130			
cis-1,3-Dichloropropene	24.6	0.50	ug/l	25.0	ND	98	75-130			
trans-1,3-Dichloropropene	23.7	0.50	ug/l	25.0	ND	95	70-130			
Ethylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	26.6	1.0	ug/l	25.0	ND	106	40-150			
2-Hexanone	19.8	2.5	ug/l	25.0	ND	79	20-150			
Iodomethane	28.2	2.5	ug/l	25.0	ND	113	60-150			
Isopropylbenzene	26.4	0.50	ug/l	25.0	ND	106	75-130			
p-Isopropyltoluene	25.4	0.50	ug/l	25.0	ND	102	70-130			
Methylene Chloride	20.0	1.0	ug/l	25.0	ND	80	65-130			
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135			
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0	ND	80	65-140			
Naphthalene	26.3	2.5	ug/l	25.0	ND	105	40-150			
n-Propylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-130			
Styrene	20.7	0.50	ug/l	25.0	ND	83	55-135			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0	ND	99	70-125			
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125			
Tetrachloroethene	25.8	0.50	ug/l	25.0	ND	103	65-130			
Toluene	23.4	0.50	ug/l	25.0	0.280	93	70-125			
1,2,3-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150			
1,2,4-Trichlorobenzene	26.1	1.0	ug/l	25.0	ND	104	50-150			
1,1,1-Trichloroethane	24.9	0.50	ug/l	25.0	ND	99	70-130			
1,1,2-Trichloroethane	21.3	0.50	ug/l	25.0	ND	85	75-125			
Trichloroethene	24.2	0.50	ug/l	25.0	0.370	96	70-125			
Trichlorofluoromethane	24.6	0.50	ug/l	25.0	ND	98	65-150			
1,2,3-Trichloropropane	21.6	1.0	ug/l	25.0	ND	86	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/l	25.0	ND	91	70-125			
1,3,5-Trimethylbenzene	24.7	0.50	ug/l	25.0	ND	99	75-130			
Vinyl Acetate	23.3	1.0	ug/l	25.0	ND	93	40-150			
Vinyl chloride	21.6	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	44.8	1.5	ug/l	50.0	ND	90	75-120			
Freon 113	26.3	2.0	ug/l	25.0	ND	105	65-140			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0627-MSD1)					**Source: PUI0649-01**					
Acetone	17.2	10	ug/l	25.0	ND	69	10-150	12	35	
Benzene	22.3	0.50	ug/l	25.0	ND	89	70-125	6	25	
Bromobenzene	23.1	0.50	ug/l	25.0	ND	92	75-120	4	20	
Bromochloromethane	22.4	0.50	ug/l	25.0	ND	90	75-130	0.2	20	
Bromodichloromethane	22.1	0.50	ug/l	25.0	ND	88	75-125	4	20	
Bromoform	21.5	1.0	ug/l	25.0	ND	86	65-125	2	25	
Bromomethane	18.1	1.0	ug/l	25.0	ND	73	45-150	5	35	
2-Butanone (MEK)	18.8	2.5	ug/l	25.0	ND	75	15-150	6	30	
n-Butylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-130	7	30	
sec-Butylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	7	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	7	25	
Carbon disulfide	20.8	0.50	ug/l	25.0	ND	83	65-145	31	25	*R1*
Carbon tetrachloride	25.0	0.50	ug/l	25.0	ND	100	65-135	9	25	
Chlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120	4	20	
Chloroethane	21.1	1.0	ug/l	25.0	ND	84	65-140	4	25	
Chloroform	21.3	0.50	ug/l	25.0	ND	85	70-130	4	20	
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145	4	35	
2-Chlorotoluene	22.2	0.50	ug/l	25.0	ND	89	70-125	6	25	
4-Chlorotoluene	23.1	0.50	ug/l	25.0	ND	92	70-125	5	25	
Dibromochloromethane	24.4	0.50	ug/l	25.0	ND	98	70-130	0.08	20	
1,2-Dibromo-3-chloropropane	23.0	2.5	ug/l	25.0	ND	92	50-150	0.8	30	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0	ND	92	70-125	3	20	
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-120	2	20	
1,2-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	75-120	4	20	
1,3-Dichlorobenzene	22.6	0.50	ug/l	25.0	ND	90	75-120	5	25	
1,4-Dichlorobenzene	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dichlorodifluoromethane	22.0	0.50	ug/l	25.0	ND	88	60-150	11	30	
1,1-Dichloroethane	22.4	0.50	ug/l	25.0	ND	90	70-130	4	20	
1,2-Dichloroethane	21.9	0.50	ug/l	25.0	ND	88	65-140	0.5	20	
1,1-Dichloroethene	23.7	0.50	ug/l	25.0	ND	95	70-130	3	25	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0	ND	82	70-125	5	20	
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0	ND	88	75-125	8	25	
1,2-Dichloropropane	21.7	0.50	ug/l	25.0	ND	87	75-125	4	20	
1,3-Dichloropropane	21.6	0.50	ug/l	25.0	ND	86	70-120	0.4	20	
2,2-Dichloropropane	24.3	1.0	ug/l	25.0	ND	97	65-140	1	25	

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0627-MSD1)					**Source: PUI0649-01**					
1,1-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	65-130	7	25	
cis-1,3-Dichloropropene	23.0	0.50	ug/l	25.0	ND	92	75-130	7	20	
trans-1,3-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	70-130	3	20	
Ethylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	4	25	
Hexachlorobutadiene	23.9	1.0	ug/l	25.0	ND	96	40-150	11	30	
2-Hexanone	21.0	2.5	ug/l	25.0	ND	84	20-150	6	30	
Iodomethane	27.4	2.5	ug/l	25.0	ND	110	60-150	3	30	
Isopropylbenzene	25.0	0.50	ug/l	25.0	ND	100	75-130	5	25	
p-Isopropyltoluene	23.7	0.50	ug/l	25.0	ND	95	70-130	7	30	
Methylene Chloride	20.2	1.0	ug/l	25.0	ND	81	65-130	1	20	
4-Methyl-2-pentanone (MIBK)	22.1	2.5	ug/l	25.0	ND	88	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	21.2	0.50	ug/l	25.0	ND	85	65-140	5	25	
Naphthalene	25.6	2.5	ug/l	25.0	ND	103	40-150	3	30	
n-Propylbenzene	23.9	0.50	ug/l	25.0	ND	95	70-130	7	30	
Styrene	20.5	0.50	ug/l	25.0	ND	82	55-135	0.8	35	
1,1,1,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	70-125	4	20	
1,1,2,2-Tetrachloroethane	21.8	0.50	ug/l	25.0	ND	87	70-125	2	25	
Tetrachloroethene	24.4	0.50	ug/l	25.0	ND	97	65-130	6	25	
Toluene	21.8	0.50	ug/l	25.0	0.280	86	70-125	7	20	
1,2,3-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	50-150	5	35	
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	50-150	6	25	
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0	ND	94	70-130	5	25	
1,1,2-Trichloroethane	21.1	0.50	ug/l	25.0	ND	84	75-125	1	20	
Trichloroethene	22.5	0.50	ug/l	25.0	0.370	89	70-125	7	25	
Trichlorofluoromethane	24.2	0.50	ug/l	25.0	ND	97	65-150	2	25	
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0	ND	89	70-130	3	25	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-125	5	30	
1,3,5-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	75-130	6	25	
Vinyl Acetate	25.0	1.0	ug/l	25.0	ND	100	40-150	7	30	
Vinyl chloride	20.0	0.50	ug/l	25.0	ND	80	60-140	8	25	
Xylenes, Total	42.9	1.5	ug/l	50.0	ND	86	75-120	4	15	
Freon 113	25.2	2.0	ug/l	25.0	ND	101	65-140	4	20	
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
Blank Analyzed: 09/20/2011 (11I0699-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
Blank Analyzed: 09/20/2011 (11I0699-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
LCS Analyzed: 09/20/2011 (11I0699-BS1)										
Acetone	27.8	10	ug/l	25.0		111	10-150			
Benzene	23.6	0.50	ug/l	25.0		94	80-120			
Bromobenzene	24.1	0.50	ug/l	25.0		96	80-120			
Bromochloromethane	22.6	0.50	ug/l	25.0		91	80-125			
Bromodichloromethane	23.1	0.50	ug/l	25.0		92	80-120			
Bromoform	22.9	1.0	ug/l	25.0		92	75-130			
Bromomethane	18.3	1.0	ug/l	25.0		73	55-150			
2-Butanone (MEK)	24.0	2.5	ug/l	25.0		96	40-150			
n-Butylbenzene	24.5	0.50	ug/l	25.0		98	80-130			
sec-Butylbenzene	24.1	0.50	ug/l	25.0		96	80-125			
tert-Butylbenzene	24.9	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	28.2	0.50	ug/l	25.0		113	70-140			
Carbon tetrachloride	26.4	0.50	ug/l	25.0		106	75-130			
Chlorobenzene	24.0	0.50	ug/l	25.0		96	80-120			
Chloroethane	21.8	1.0	ug/l	25.0		87	70-130			
Chloroform	21.6	0.50	ug/l	25.0		86	75-120			
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140			
2-Chlorotoluene	23.1	0.50	ug/l	25.0		92	80-120			
4-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120			
Dibromochloromethane	25.3	0.50	ug/l	25.0		101	80-120			
1,2-Dibromo-3-chloropropane	23.5	2.5	ug/l	25.0		94	50-150			
1,2-Dibromoethane (EDB)	23.4	0.50	ug/l	25.0		93	80-120			
Dibromomethane	22.4	0.50	ug/l	25.0		90	75-120			
1,2-Dichlorobenzene	24.5	0.50	ug/l	25.0		98	80-120			
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120			
1,4-Dichlorobenzene	24.5	0.50	ug/l	25.0		98	80-120			
Dichlorodifluoromethane	23.2	0.50	ug/l	25.0		93	60-150			
1,1-Dichloroethane	22.6	0.50	ug/l	25.0		90	70-125			
1,2-Dichloroethane	21.9	0.50	ug/l	25.0		88	75-130			
1,1-Dichloroethene	24.3	0.50	ug/l	25.0		97	75-125			
cis-1,2-Dichloroethene	21.0	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	23.1	0.50	ug/l	25.0		92	80-120			
1,2-Dichloropropane	22.7	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.1	0.50	ug/l	25.0		88	80-120			
2,2-Dichloropropane	23.8	1.0	ug/l	25.0		95	75-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
LCS Analyzed: 09/20/2011 (11I0699-BS1)										
1,1-Dichloropropene	24.0	0.50	ug/l	25.0		96	75-120			
cis-1,3-Dichloropropene	24.8	0.50	ug/l	25.0		99	80-120			
trans-1,3-Dichloropropene	24.7	0.50	ug/l	25.0		99	80-125			
Ethylbenzene	23.7	0.50	ug/l	25.0		95	80-120			
Hexachlorobutadiene	25.2	1.0	ug/l	25.0		101	40-150			
2-Hexanone	25.4	2.5	ug/l	25.0		102	20-150			
Iodomethane	28.5	2.5	ug/l	25.0		114	80-130			
Isopropylbenzene	25.8	0.50	ug/l	25.0		103	80-130			
p-Isopropyltoluene	25.1	0.50	ug/l	25.0		100	80-130			
Methylene Chloride	20.8	1.0	ug/l	25.0		83	70-120			
4-Methyl-2-pentanone (MIBK)	23.3	2.5	ug/l	25.0		93	60-135			
Methyl-tert-butyl Ether (MTBE)	21.5	0.50	ug/l	25.0		86	70-130			
Naphthalene	27.5	2.5	ug/l	25.0		110	40-150			
n-Propylbenzene	24.8	0.50	ug/l	25.0		99	75-130			
Styrene	22.7	0.50	ug/l	25.0		91	80-120			
1,1,1,2-Tetrachloroethane	24.3	0.50	ug/l	25.0		97	75-125			
1,1,2,2-Tetrachloroethane	22.7	0.50	ug/l	25.0		91	80-120			
Tetrachloroethene	25.2	0.50	ug/l	25.0		101	70-130			
Toluene	23.4	0.50	ug/l	25.0		94	80-120			
1,2,3-Trichlorobenzene	26.3	1.0	ug/l	25.0		105	55-150			
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0		104	50-150			
1,1,1-Trichloroethane	23.8	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0		89	80-120			
Trichloroethene	23.4	0.50	ug/l	25.0		94	80-120			
Trichlorofluoromethane	23.2	0.50	ug/l	25.0		93	70-150			
1,2,3-Trichloropropane	23.2	1.0	ug/l	25.0		93	70-130			
1,2,4-Trimethylbenzene	23.9	0.50	ug/l	25.0		96	80-120			
1,3,5-Trimethylbenzene	24.5	0.50	ug/l	25.0		98	80-130			
Vinyl Acetate	24.7	1.0	ug/l	25.0		99	40-150			
Vinyl chloride	20.6	0.50	ug/l	25.0		82	70-130			
Xylenes, Total	45.0	1.5	ug/l	50.0		90	60-140			
Freon 113	25.6	2.0	ug/l	25.0		103	60-140			
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
LCS Dup Analyzed: 09/20/2011 (11I0699-BSD1)										
Acetone	24.6	10	ug/l	25.0		99	10-150	12	35	
Benzene	22.9	0.50	ug/l	25.0		92	80-120	3	15	
Bromobenzene	23.7	0.50	ug/l	25.0		95	80-120	2	15	
Bromochloromethane	22.6	0.50	ug/l	25.0		90	80-125	0.2	15	
Bromodichloromethane	22.8	0.50	ug/l	25.0		91	80-120	1	15	
Bromoform	22.5	1.0	ug/l	25.0		90	75-130	2	20	
Bromomethane	18.0	1.0	ug/l	25.0		72	55-150	2	20	
2-Butanone (MEK)	22.8	2.5	ug/l	25.0		91	40-150	5	35	
n-Butylbenzene	23.1	0.50	ug/l	25.0		92	80-130	6	15	
sec-Butylbenzene	23.1	0.50	ug/l	25.0		92	80-125	4	15	
tert-Butylbenzene	23.9	0.50	ug/l	25.0		95	80-120	4	15	
Carbon disulfide	26.9	0.50	ug/l	25.0		108	70-140	5	15	
Carbon tetrachloride	25.3	0.50	ug/l	25.0		101	75-130	4	20	
Chlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	1	15	
Chloroethane	21.2	1.0	ug/l	25.0		85	70-130	3	15	
Chloroform	21.4	0.50	ug/l	25.0		86	75-120	0.9	15	
Chloromethane	18.1	1.0	ug/l	25.0		72	60-140	2	20	
2-Chlorotoluene	22.4	0.50	ug/l	25.0		89	80-120	3	15	
4-Chlorotoluene	22.9	0.50	ug/l	25.0		91	80-120	5	15	
Dibromochloromethane	25.5	0.50	ug/l	25.0		102	80-120	0.8	15	
1,2-Dibromo-3-chloropropane	24.0	2.5	ug/l	25.0		96	50-150	2	35	
1,2-Dibromoethane (EDB)	23.5	0.50	ug/l	25.0		94	80-120	0.8	15	
Dibromomethane	22.3	0.50	ug/l	25.0		89	75-120	0.3	15	
1,2-Dichlorobenzene	24.1	0.50	ug/l	25.0		96	80-120	2	15	
1,3-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	3	15	
1,4-Dichlorobenzene	23.5	0.50	ug/l	25.0		94	80-120	4	15	
Dichlorodifluoromethane	22.5	0.50	ug/l	25.0		90	60-150	3	30	
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		90	70-125	0.6	15	
1,2-Dichloroethane	21.6	0.50	ug/l	25.0		86	75-130	2	15	
1,1-Dichloroethene	24.0	0.50	ug/l	25.0		96	75-125	2	20	
cis-1,2-Dichloroethene	20.7	0.50	ug/l	25.0		83	80-120	2	15	
trans-1,2-Dichloroethene	22.5	0.50	ug/l	25.0		90	80-120	3	15	
1,2-Dichloropropane	22.4	0.50	ug/l	25.0		90	80-120	2	15	
1,3-Dichloropropane	22.1	0.50	ug/l	25.0		88	80-120	0.2	15	
2,2-Dichloropropane	23.5	1.0	ug/l	25.0		94	75-130	1	15	

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
LCS Dup Analyzed: 09/20/2011 (11I0699-BSD1)										
1,1-Dichloropropene	23.3	0.50	ug/l	25.0		93	75-120	3	15	
cis-1,3-Dichloropropene	24.4	0.50	ug/l	25.0		97	80-120	2	15	
trans-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-125	2	15	
Ethylbenzene	23.6	0.50	ug/l	25.0		94	80-120	0.5	15	
Hexachlorobutadiene	24.1	1.0	ug/l	25.0		96	40-150	5	35	
2-Hexanone	24.0	2.5	ug/l	25.0		96	20-150	6	35	
Iodomethane	28.2	2.5	ug/l	25.0		113	80-130	0.7	10	
Isopropylbenzene	24.9	0.50	ug/l	25.0		99	80-130	4	15	
p-Isopropyltoluene	24.0	0.50	ug/l	25.0		96	80-130	4	15	
Methylene Chloride	20.9	1.0	ug/l	25.0		83	70-120	0.1	15	
4-Methyl-2-pentanone (MIBK)	23.1	2.5	ug/l	25.0		93	60-135	0.6	25	
Methyl-tert-butyl Ether (MTBE)	21.6	0.50	ug/l	25.0		86	70-130	0.3	20	
Naphthalene	27.0	2.5	ug/l	25.0		108	40-150	2	30	
n-Propylbenzene	23.8	0.50	ug/l	25.0		95	75-130	4	15	
Styrene	22.5	0.50	ug/l	25.0		90	80-120	1	15	
1,1,1,2-Tetrachloroethane	24.2	0.50	ug/l	25.0		97	75-125	0.2	15	
1,1,2,2-Tetrachloroethane	21.9	0.50	ug/l	25.0		88	80-120	3	20	
Tetrachloroethene	24.9	0.50	ug/l	25.0		100	70-130	1	20	
Toluene	22.8	0.50	ug/l	25.0		91	80-120	3	15	
1,2,3-Trichlorobenzene	25.9	1.0	ug/l	25.0		104	55-150	2	35	
1,2,4-Trichlorobenzene	25.5	1.0	ug/l	25.0		102	50-150	2	30	
1,1,1-Trichloroethane	23.4	0.50	ug/l	25.0		94	75-125	2	15	
1,1,2-Trichloroethane	22.2	0.50	ug/l	25.0		89	80-120	0.2	15	
Trichloroethene	22.7	0.50	ug/l	25.0		91	80-120	3	15	
Trichlorofluoromethane	23.2	0.50	ug/l	25.0		93	70-150	0.3	25	
1,2,3-Trichloropropane	23.2	1.0	ug/l	25.0		93	70-130	0	20	
1,2,4-Trimethylbenzene	23.0	0.50	ug/l	25.0		92	80-120	4	15	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0		95	80-130	3	15	
Vinyl Acetate	24.2	1.0	ug/l	25.0		97	40-150	2	25	
Vinyl chloride	19.8	0.50	ug/l	25.0		79	70-130	4	20	
Xylenes, Total	44.1	1.5	ug/l	50.0		88	60-140	2	15	
Freon 113	26.0	2.0	ug/l	25.0		104	60-140	1	15	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
Matrix Spike Analyzed: 09/20/2011 (11I0699-MS1)					**Source: PUI0821-02**					
Acetone	17.1	10	ug/l	25.0	ND	68	10-150			
Benzene	23.9	0.50	ug/l	25.0	ND	96	70-125			
Bromobenzene	24.4	0.50	ug/l	25.0	ND	97	75-120			
Bromochloromethane	23.0	0.50	ug/l	25.0	ND	92	75-130			
Bromodichloromethane	24.0	0.50	ug/l	25.0	ND	96	75-125			
Bromoform	22.3	1.0	ug/l	25.0	ND	89	65-125			
Bromomethane	19.6	1.0	ug/l	25.0	ND	79	45-150			
2-Butanone (MEK)	19.9	2.5	ug/l	25.0	ND	80	15-150			
n-Butylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-130			
sec-Butylbenzene	23.9	0.50	ug/l	25.0	ND	96	70-125			
tert-Butylbenzene	25.1	0.50	ug/l	25.0	ND	100	70-125			
Carbon disulfide	23.4	0.50	ug/l	25.0	ND	94	65-145			
Carbon tetrachloride	27.1	0.50	ug/l	25.0	ND	109	65-135			
Chlorobenzene	24.7	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	23.1	1.0	ug/l	25.0	ND	92	65-140			
Chloroform	22.4	0.50	ug/l	25.0	0.380	88	70-130			
Chloromethane	19.1	1.0	ug/l	25.0	ND	77	55-145			
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Dibromochloromethane	26.0	0.50	ug/l	25.0	ND	104	70-130			
1,2-Dibromo-3-chloropropane	23.7	2.5	ug/l	25.0	ND	95	50-150			
1,2-Dibromoethane (EDB)	24.2	0.50	ug/l	25.0	ND	97	70-125			
Dibromomethane	22.4	0.50	ug/l	25.0	ND	90	70-120			
1,2-Dichlorobenzene	24.5	0.50	ug/l	25.0	ND	98	75-120			
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
1,4-Dichlorobenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Dichlorodifluoromethane	23.8	0.50	ug/l	25.0	ND	95	60-150			
1,1-Dichloroethane	23.2	0.50	ug/l	25.0	ND	93	70-130			
1,2-Dichloroethane	22.1	0.50	ug/l	25.0	ND	88	65-140			
1,1-Dichloroethene	25.4	0.50	ug/l	25.0	ND	101	70-130			
cis-1,2-Dichloroethene	25.3	0.50	ug/l	25.0	3.89	86	70-125			
trans-1,2-Dichloroethene	23.6	0.50	ug/l	25.0	ND	95	75-125			
1,2-Dichloropropane	23.0	0.50	ug/l	25.0	ND	92	75-125			
1,3-Dichloropropane	22.7	0.50	ug/l	25.0	ND	91	70-120			
2,2-Dichloropropane	26.7	1.0	ug/l	25.0	ND	107	65-140			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
Matrix Spike Analyzed: 09/20/2011 (11I0699-MS1)					**Source: PUI0821-02**					
1,1-Dichloropropene	24.4	0.50	ug/l	25.0	ND	98	65-130			
cis-1,3-Dichloropropene	25.0	0.50	ug/l	25.0	ND	100	75-130			
trans-1,3-Dichloropropene	24.5	0.50	ug/l	25.0	ND	98	70-130			
Ethylbenzene	24.2	0.50	ug/l	25.0	ND	97	70-125			
Hexachlorobutadiene	25.6	1.0	ug/l	25.0	ND	102	40-150			
2-Hexanone	21.9	2.5	ug/l	25.0	ND	88	20-150			
Iodomethane	29.9	2.5	ug/l	25.0	ND	120	60-150			
Isopropylbenzene	26.1	0.50	ug/l	25.0	ND	105	75-130			
p-Isopropyltoluene	24.5	0.50	ug/l	25.0	ND	98	70-130			
Methylene Chloride	21.1	1.0	ug/l	25.0	ND	85	65-130			
4-Methyl-2-pentanone (MIBK)	23.3	2.5	ug/l	25.0	ND	93	55-135			
Methyl-tert-butyl Ether (MTBE)	22.3	0.50	ug/l	25.0	ND	89	65-140			
Naphthalene	27.4	2.5	ug/l	25.0	ND	110	40-150			
n-Propylbenzene	24.5	0.50	ug/l	25.0	ND	98	70-130			
Styrene	8.93	0.50	ug/l	25.0	ND	36	55-135			*M2*
1,1,1,2-Tetrachloroethane	25.1	0.50	ug/l	25.0	ND	100	70-125			
1,1,2,2-Tetrachloroethane	22.7	0.50	ug/l	25.0	ND	91	70-125			
Tetrachloroethene	27.1	0.50	ug/l	25.0	0.770	105	65-130			
Toluene	23.9	0.50	ug/l	25.0	ND	95	70-125			
1,2,3-Trichlorobenzene	26.8	1.0	ug/l	25.0	ND	107	50-150			
1,2,4-Trichlorobenzene	26.3	1.0	ug/l	25.0	ND	105	50-150			
1,1,1-Trichloroethane	24.8	0.50	ug/l	25.0	ND	99	70-130			
1,1,2-Trichloroethane	22.6	0.50	ug/l	25.0	ND	91	75-125			
Trichloroethene	43.7	0.50	ug/l	25.0	22.8	83	70-125			
Trichlorofluoromethane	24.6	0.50	ug/l	25.0	0.150	98	65-150			
1,2,3-Trichloropropane	23.4	1.0	ug/l	25.0	ND	94	70-130			
1,2,4-Trimethylbenzene	20.8	0.50	ug/l	25.0	ND	83	70-125			
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	18.9	1.0	ug/l	25.0	ND	76	40-150			
Vinyl chloride	23.0	0.50	ug/l	25.0	ND	92	60-140			
Xylenes, Total	45.9	1.5	ug/l	50.0	ND	92	75-120			
Freon 113	27.0	2.0	ug/l	25.0	ND	108	65-140			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
Matrix Spike Dup Analyzed: 09/20/2011 (11I0699-MSD1)					**Source: PUI0821-02**					
Acetone	17.2	10	ug/l	25.0	ND	69	10-150	0.8	35	
Benzene	22.3	0.50	ug/l	25.0	ND	89	70-125	7	25	
Bromobenzene	22.9	0.50	ug/l	25.0	ND	92	75-120	6	20	
Bromochloromethane	22.5	0.50	ug/l	25.0	ND	90	75-130	2	20	
Bromodichloromethane	22.5	0.50	ug/l	25.0	ND	90	75-125	6	20	
Bromoform	21.4	1.0	ug/l	25.0	ND	85	65-125	4	25	
Bromomethane	17.9	1.0	ug/l	25.0	ND	72	45-150	9	35	
2-Butanone (MEK)	19.4	2.5	ug/l	25.0	ND	78	15-150	3	30	
n-Butylbenzene	22.7	0.50	ug/l	25.0	ND	91	70-130	6	30	
sec-Butylbenzene	22.4	0.50	ug/l	25.0	ND	89	70-125	7	30	
tert-Butylbenzene	23.4	0.50	ug/l	25.0	ND	93	70-125	7	25	
Carbon disulfide	20.0	0.50	ug/l	25.0	ND	80	65-145	16	25	
Carbon tetrachloride	24.6	0.50	ug/l	25.0	ND	98	65-135	10	25	
Chlorobenzene	22.7	0.50	ug/l	25.0	ND	91	75-120	8	20	
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140	11	25	
Chloroform	21.4	0.50	ug/l	25.0	0.380	84	70-130	5	20	
Chloromethane	17.1	1.0	ug/l	25.0	ND	69	55-145	11	35	
2-Chlorotoluene	21.5	0.50	ug/l	25.0	ND	86	70-125	6	25	
4-Chlorotoluene	22.4	0.50	ug/l	25.0	ND	90	70-125	5	25	
Dibromochloromethane	24.5	0.50	ug/l	25.0	ND	98	70-130	6	20	
1,2-Dibromo-3-chloropropane	22.9	2.5	ug/l	25.0	ND	92	50-150	3	30	
1,2-Dibromoethane (EDB)	22.9	0.50	ug/l	25.0	ND	92	70-125	5	20	
Dibromomethane	21.9	0.50	ug/l	25.0	ND	88	70-120	2	20	
1,2-Dichlorobenzene	23.2	0.50	ug/l	25.0	ND	93	75-120	6	20	
1,3-Dichlorobenzene	22.7	0.50	ug/l	25.0	ND	91	75-120	6	25	
1,4-Dichlorobenzene	22.9	0.50	ug/l	25.0	ND	91	70-125	5	20	
Dichlorodifluoromethane	21.6	0.50	ug/l	25.0	ND	87	60-150	9	30	
1,1-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	70-130	5	20	
1,2-Dichloroethane	21.5	0.50	ug/l	25.0	ND	86	65-140	3	20	
1,1-Dichloroethene	23.0	0.50	ug/l	25.0	ND	92	70-130	10	25	
cis-1,2-Dichloroethene	24.1	0.50	ug/l	25.0	3.89	81	70-125	5	20	
trans-1,2-Dichloroethene	22.2	0.50	ug/l	25.0	ND	89	75-125	6	25	
1,2-Dichloropropane	21.7	0.50	ug/l	25.0	ND	87	75-125	6	20	
1,3-Dichloropropane	21.9	0.50	ug/l	25.0	ND	88	70-120	4	20	
2,2-Dichloropropane	22.7	1.0	ug/l	25.0	ND	91	65-140	16	25	

TestAmerica Phoenix

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0699 Extracted: 09/20/11										
Matrix Spike Dup Analyzed: 09/20/2011 (11I0699-MSD1)					**Source: PUI0821-02**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	8	25	
cis-1,3-Dichloropropene	23.4	0.50	ug/l	25.0	ND	94	75-130	6	20	
trans-1,3-Dichloropropene	23.5	0.50	ug/l	25.0	ND	94	70-130	4	20	
Ethylbenzene	22.6	0.50	ug/l	25.0	ND	90	70-125	7	25	
Hexachlorobutadiene	23.8	1.0	ug/l	25.0	ND	95	40-150	7	30	
2-Hexanone	21.1	2.5	ug/l	25.0	ND	84	20-150	4	30	
Iodomethane	27.4	2.5	ug/l	25.0	ND	110	60-150	9	30	
Isopropylbenzene	24.3	0.50	ug/l	25.0	ND	97	75-130	7	25	
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	94	70-130	5	30	
Methylene Chloride	19.8	1.0	ug/l	25.0	ND	79	65-130	6	20	
4-Methyl-2-pentanone (MIBK)	22.8	2.5	ug/l	25.0	ND	91	55-135	2	25	
Methyl-tert-butyl Ether (MTBE)	21.4	0.50	ug/l	25.0	ND	85	65-140	4	25	
Naphthalene	26.5	2.5	ug/l	25.0	ND	106	40-150	4	30	
n-Propylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-130	6	30	
Styrene	2.39	0.50	ug/l	25.0	ND	10	55-135	116	35	*M2, N1*
1,1,1,2-Tetrachloroethane	23.5	0.50	ug/l	25.0	ND	94	70-125	7	20	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0	ND	93	70-125	2	25	
Tetrachloroethene	25.0	0.50	ug/l	25.0	0.770	97	65-130	8	25	
Toluene	22.1	0.50	ug/l	25.0	ND	89	70-125	8	20	
1,2,3-Trichlorobenzene	25.3	1.0	ug/l	25.0	ND	101	50-150	6	35	
1,2,4-Trichlorobenzene	24.7	1.0	ug/l	25.0	ND	99	50-150	6	25	
1,1,1-Trichloroethane	23.0	0.50	ug/l	25.0	ND	92	70-130	8	25	
1,1,2-Trichloroethane	22.0	0.50	ug/l	25.0	ND	88	75-125	3	20	
Trichloroethene	40.4	0.50	ug/l	25.0	22.8	70	70-125	8	25	
Trichlorofluoromethane	22.8	0.50	ug/l	25.0	0.150	91	65-150	8	25	
1,2,3-Trichloropropane	23.2	1.0	ug/l	25.0	ND	93	70-130	0.7	25	
1,2,4-Trimethylbenzene	19.7	0.50	ug/l	25.0	ND	79	70-125	5	30	
1,3,5-Trimethylbenzene	22.2	0.50	ug/l	25.0	ND	89	75-130	7	25	
Vinyl Acetate	9.99	1.0	ug/l	25.0	ND	40	40-150	62	30	*N1*
Vinyl chloride	20.0	0.50	ug/l	25.0	ND	80	60-140	14	25	
Xylenes, Total	43.0	1.5	ug/l	50.0	ND	86	75-120	7	15	
Freon 113	25.0	2.0	ug/l	25.0	ND	100	65-140	8	20	
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0480 Extracted: 09/14/11										
Blank Analyzed: 09/15/2011 (11I0480-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*13.9*		*ug/l*	*20.0*		*70*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*85*	*59.9-120*			
LCS Analyzed: 09/15/2011 (11I0480-BS1)										**Q8**
1,4-Dioxane	20.3	1.0	ug/l	20.0		102	80-120			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.2*		*ug/l*	*20.0*		*91*	*38-125*			
LCS Dup Analyzed: 09/15/2011 (11I0480-BSD1)										**Q8**
1,4-Dioxane	20.6	1.0	ug/l	20.0		103	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*15.2*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*94*	*38-125*			

TestAmerica Phoenix

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Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0649

Sampled: 09/12/11
Received: 09/12/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[x] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: ERM
7272 E Indian School Rd
Scottsdale AZ 85251

Project/PO Number: 0096498.030

Project Manager: Jason Hilker
Jason.Hilker@ERM.com

Phone Number: 480-998-2401

Sampler: Adam Nagle

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)								Special Instructions
003-6D-D-091211	WT	3x40mL 2x1L	5	9/12/11	0921	HCl / —	X	X								PVI 0649-01
003-6M-M-091211	WT	3x40mL 2x1L	5	9/12/11	1025	HCl / —	X	X								-02
003-1D-D-091211	WT	3x40mL 2x1L	5	9/12/11	1315	HCl / —	X	X								-03
~~EW-21-S-091211~~ KJ																-04
GW-EB1-3-091211	WT	3x40mL 2x1L	5	9/12/11	1625	HCl / —	X	X								-04 -05 PK
BE-MW-8-S-091211	WT	3x40mL 2x1L	5	9/12/11	1624	HCl / —	X	X								-05 -06
GW-L1-3-091211	WT	40mL	1	9/12/11	—	HCl	X	—	TRIP BLANK							-06 -07
GW-R1-1-091211	WT	3x40mL 2x1L	5	9/12/11	1625	HCl / —	X	X								-07 -08

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
ERM	9/12 1707			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)
			9/12/11 1707	intact Y on ice X 0.6°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

0.2°C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/12/11
Received: 09/12/11
Revised: 11/02/11 14:59

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0650-01	OU3-1M-M-091211	Water
PUI0650-02	EW-21-S-091211	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
S10-Surrogate recovery was above acceptance limits.
R1-The RPD exceeded the acceptance limit.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-01 (OU3-1M-M-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**0.67**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	**0.70**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-01 (OU3-1M-M-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	**4.9**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*103 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-02 (EW-21-S-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**0.76**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-02 (EW-21-S-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	**0.50**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	**1.9**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*102 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-01 (OU3-1M-M-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0534	1.0	ND	1.06	9/15/2011	9/16/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*71 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*88 %*				
Sample ID: PUI0650-02 (EW-21-S-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0534	1.0	ND	1.06	9/15/2011	9/16/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*98 %*				

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0627-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0627-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0627-BS1)										
Acetone	21.2	10	ug/l	25.0		85	10-150			
Benzene	27.7	0.50	ug/l	25.0		111	80-120			
Bromobenzene	28.5	0.50	ug/l	25.0		114	80-120			
Bromochloromethane	26.7	0.50	ug/l	25.0		107	80-125			
Bromodichloromethane	27.7	0.50	ug/l	25.0		111	80-120			
Bromoform	26.8	1.0	ug/l	25.0		107	75-130			
Bromomethane	23.2	1.0	ug/l	25.0		93	55-150			
2-Butanone (MEK)	23.3	2.5	ug/l	25.0		93	40-150			
n-Butylbenzene	28.7	0.50	ug/l	25.0		115	80-130			
sec-Butylbenzene	28.1	0.50	ug/l	25.0		112	80-125			
tert-Butylbenzene	29.6	0.50	ug/l	25.0		118	80-120			
Carbon disulfide	33.3	0.50	ug/l	25.0		133	70-140			
Carbon tetrachloride	30.5	0.50	ug/l	25.0		122	75-130			
Chlorobenzene	28.4	0.50	ug/l	25.0		114	80-120			
Chloroethane	26.2	1.0	ug/l	25.0		105	70-130			
Chloroform	26.2	0.50	ug/l	25.0		105	75-120			
Chloromethane	22.6	1.0	ug/l	25.0		90	60-140			
2-Chlorotoluene	27.8	0.50	ug/l	25.0		111	80-120			
4-Chlorotoluene	28.6	0.50	ug/l	25.0		114	80-120			
Dibromochloromethane	30.3	0.50	ug/l	25.0		121	80-120			*L3*
1,2-Dibromo-3-chloropropane	27.5	2.5	ug/l	25.0		110	50-150			
1,2-Dibromoethane (EDB)	27.2	0.50	ug/l	25.0		109	80-120			
Dibromomethane	25.9	0.50	ug/l	25.0		104	75-120			
1,2-Dichlorobenzene	28.8	0.50	ug/l	25.0		115	80-120			
1,3-Dichlorobenzene	28.3	0.50	ug/l	25.0		113	80-120			
1,4-Dichlorobenzene	28.4	0.50	ug/l	25.0		113	80-120			
Dichlorodifluoromethane	28.2	0.50	ug/l	25.0		113	60-150			
1,1-Dichloroethane	27.7	0.50	ug/l	25.0		111	70-125			
1,2-Dichloroethane	27.0	0.50	ug/l	25.0		108	75-130			
1,1-Dichloroethene	28.2	0.50	ug/l	25.0		113	75-125			
cis-1,2-Dichloroethene	25.3	0.50	ug/l	25.0		101	80-120			
trans-1,2-Dichloroethene	27.4	0.50	ug/l	25.0		109	80-120			
1,2-Dichloropropane	27.2	0.50	ug/l	25.0		109	80-120			
1,3-Dichloropropane	26.1	0.50	ug/l	25.0		104	80-120			
2,2-Dichloropropane	29.1	1.0	ug/l	25.0		116	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0627-BS1)										
1,1-Dichloropropene	28.0	0.50	ug/l	25.0		112	75-120			
cis-1,3-Dichloropropene	29.0	0.50	ug/l	25.0		116	80-120			
trans-1,3-Dichloropropene	28.9	0.50	ug/l	25.0		115	80-125			
Ethylbenzene	27.9	0.50	ug/l	25.0		112	80-120			
Hexachlorobutadiene	29.5	1.0	ug/l	25.0		118	40-150			
2-Hexanone	26.1	2.5	ug/l	25.0		105	20-150			
Iodomethane	32.9	2.5	ug/l	25.0		132	80-130			*L3*
Isopropylbenzene	30.6	0.50	ug/l	25.0		123	80-130			
p-Isopropyltoluene	29.3	0.50	ug/l	25.0		117	80-130			
Methylene Chloride	24.4	1.0	ug/l	25.0		98	70-120			
4-Methyl-2-pentanone (MIBK)	27.0	2.5	ug/l	25.0		108	60-135			
Methyl-tert-butyl Ether (MTBE)	25.5	0.50	ug/l	25.0		102	70-130			
Naphthalene	30.5	2.5	ug/l	25.0		122	40-150			
n-Propylbenzene	29.3	0.50	ug/l	25.0		117	75-130			
Styrene	27.0	0.50	ug/l	25.0		108	80-120			
1,1,1,2-Tetrachloroethane	28.9	0.50	ug/l	25.0		116	75-125			
1,1,2,2-Tetrachloroethane	26.6	0.50	ug/l	25.0		106	80-120			
Tetrachloroethene	29.3	0.50	ug/l	25.0		117	70-130			
Toluene	26.9	0.50	ug/l	25.0		108	80-120			
1,2,3-Trichlorobenzene	29.5	1.0	ug/l	25.0		118	55-150			
1,2,4-Trichlorobenzene	29.6	1.0	ug/l	25.0		118	50-150			
1,1,1-Trichloroethane	28.6	0.50	ug/l	25.0		115	75-125			
1,1,2-Trichloroethane	26.3	0.50	ug/l	25.0		105	80-120			
Trichloroethene	27.7	0.50	ug/l	25.0		111	80-120			
Trichlorofluoromethane	29.1	0.50	ug/l	25.0		116	70-150			
1,2,3-Trichloropropane	27.6	1.0	ug/l	25.0		110	70-130			
1,2,4-Trimethylbenzene	28.1	0.50	ug/l	25.0		112	80-120			
1,3,5-Trimethylbenzene	29.3	0.50	ug/l	25.0		117	80-130			
Vinyl Acetate	28.7	1.0	ug/l	25.0		115	40-150			
Vinyl chloride	24.5	0.50	ug/l	25.0		98	70-130			
Xylenes, Total	52.7	1.5	ug/l	50.0		105	60-140			
Freon 113	29.9	2.0	ug/l	25.0		120	60-140			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0627-BSD1)										
Acetone	19.4	10	ug/l	25.0		78	10-150	9	35	
Benzene	24.4	0.50	ug/l	25.0		98	80-120	13	15	
Bromobenzene	25.4	0.50	ug/l	25.0		102	80-120	12	15	
Bromochloromethane	24.3	0.50	ug/l	25.0		97	80-125	9	15	
Bromodichloromethane	24.7	0.50	ug/l	25.0		99	80-120	11	15	
Bromoform	25.1	1.0	ug/l	25.0		100	75-130	7	20	
Bromomethane	21.1	1.0	ug/l	25.0		85	55-150	9	20	
2-Butanone (MEK)	22.0	2.5	ug/l	25.0		88	40-150	6	35	
n-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-130	15	15	
sec-Butylbenzene	24.5	0.50	ug/l	25.0		98	80-125	14	15	
tert-Butylbenzene	25.9	0.50	ug/l	25.0		104	80-120	13	15	
Carbon disulfide	29.8	0.50	ug/l	25.0		119	70-140	11	15	
Carbon tetrachloride	27.4	0.50	ug/l	25.0		110	75-130	11	20	
Chlorobenzene	25.1	0.50	ug/l	25.0		100	80-120	13	15	
Chloroethane	23.9	1.0	ug/l	25.0		95	70-130	9	15	
Chloroform	23.3	0.50	ug/l	25.0		93	75-120	12	15	
Chloromethane	20.4	1.0	ug/l	25.0		82	60-140	10	20	
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120	14	15	
4-Chlorotoluene	24.9	0.50	ug/l	25.0		99	80-120	14	15	
Dibromochloromethane	27.7	0.50	ug/l	25.0		111	80-120	9	15	
1,2-Dibromo-3-chloropropane	26.1	2.5	ug/l	25.0		105	50-150	5	35	
1,2-Dibromoethane (EDB)	25.5	0.50	ug/l	25.0		102	80-120	7	15	
Dibromomethane	23.9	0.50	ug/l	25.0		96	75-120	8	15	
1,2-Dichlorobenzene	25.9	0.50	ug/l	25.0		104	80-120	11	15	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	14	15	
1,4-Dichlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	12	15	
Dichlorodifluoromethane	25.7	0.50	ug/l	25.0		103	60-150	9	30	
1,1-Dichloroethane	24.4	0.50	ug/l	25.0		98	70-125	12	15	
1,2-Dichloroethane	24.0	0.50	ug/l	25.0		96	75-130	12	15	
1,1-Dichloroethene	25.2	0.50	ug/l	25.0		101	75-125	11	20	
cis-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	80-120	13	15	
trans-1,2-Dichloroethene	24.2	0.50	ug/l	25.0		97	80-120	12	15	
1,2-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120	12	15	
1,3-Dichloropropane	23.9	0.50	ug/l	25.0		96	80-120	9	15	
2,2-Dichloropropane	25.0	1.0	ug/l	25.0		100	75-130	15	15	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0627-BSD1)										
1,1-Dichloropropene	25.0	0.50	ug/l	25.0		100	75-120	11	15	
cis-1,3-Dichloropropene	26.0	0.50	ug/l	25.0		104	80-120	11	15	
trans-1,3-Dichloropropene	26.4	0.50	ug/l	25.0		106	80-125	9	15	
Ethylbenzene	24.6	0.50	ug/l	25.0		99	80-120	13	15	
Hexachlorobutadiene	25.7	1.0	ug/l	25.0		103	40-150	14	35	
2-Hexanone	25.0	2.5	ug/l	25.0		100	20-150	5	35	
Iodomethane	29.6	2.5	ug/l	25.0		118	80-130	11	10	*R6*
Isopropylbenzene	26.7	0.50	ug/l	25.0		107	80-130	14	15	
p-Isopropyltoluene	25.2	0.50	ug/l	25.0		101	80-130	15	15	
Methylene Chloride	22.0	1.0	ug/l	25.0		88	70-120	10	15	
4-Methyl-2-pentanone (MIBK)	25.8	2.5	ug/l	25.0		103	60-135	5	25	
Methyl-tert-butyl Ether (MTBE)	23.5	0.50	ug/l	25.0		94	70-130	8	20	
Naphthalene	29.2	2.5	ug/l	25.0		117	40-150	4	30	
n-Propylbenzene	25.4	0.50	ug/l	25.0		102	75-130	14	15	
Styrene	24.0	0.50	ug/l	25.0		96	80-120	11	15	
1,1,1,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	75-125	10	15	
1,1,2,2-Tetrachloroethane	24.4	0.50	ug/l	25.0		97	80-120	9	20	
Tetrachloroethene	26.2	0.50	ug/l	25.0		105	70-130	11	20	
Toluene	23.8	0.50	ug/l	25.0		95	80-120	12	15	
1,2,3-Trichlorobenzene	27.7	1.0	ug/l	25.0		111	55-150	6	35	
1,2,4-Trichlorobenzene	27.2	1.0	ug/l	25.0		109	50-150	8	30	
1,1,1-Trichloroethane	25.4	0.50	ug/l	25.0		102	75-125	12	15	
1,1,2-Trichloroethane	24.1	0.50	ug/l	25.0		96	80-120	9	15	
Trichloroethene	24.3	0.50	ug/l	25.0		97	80-120	13	15	
Trichlorofluoromethane	26.5	0.50	ug/l	25.0		106	70-150	9	25	
1,2,3-Trichloropropane	25.5	1.0	ug/l	25.0		102	70-130	8	20	
1,2,4-Trimethylbenzene	24.3	0.50	ug/l	25.0		97	80-120	14	15	
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0		102	80-130	14	15	
Vinyl Acetate	27.0	1.0	ug/l	25.0		108	40-150	6	25	
Vinyl chloride	21.6	0.50	ug/l	25.0		86	70-130	13	20	
Xylenes, Total	46.7	1.5	ug/l	50.0		93	60-140	12	15	
Freon 113	26.8	2.0	ug/l	25.0		107	60-140	11	15	
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0627-MS1)					**Source: PUI0649-01**					
Acetone	15.3	10	ug/l	25.0	ND	61	10-150			
Benzene	23.6	0.50	ug/l	25.0	ND	94	70-125			
Bromobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	22.4	0.50	ug/l	25.0	ND	89	75-130			
Bromodichloromethane	23.0	0.50	ug/l	25.0	ND	92	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	19.2	1.0	ug/l	25.0	ND	77	45-150			
2-Butanone (MEK)	17.7	2.5	ug/l	25.0	ND	71	15-150			
n-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-130			
sec-Butylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
tert-Butylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125			
Carbon disulfide	28.4	0.50	ug/l	25.0	ND	114	65-145			
Carbon tetrachloride	27.2	0.50	ug/l	25.0	ND	109	65-135			
Chlorobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Chloroethane	22.0	1.0	ug/l	25.0	ND	88	65-140			
Chloroform	22.3	0.50	ug/l	25.0	ND	89	70-130			
Chloromethane	18.8	1.0	ug/l	25.0	ND	75	55-145			
2-Chlorotoluene	23.6	0.50	ug/l	25.0	ND	94	70-125			
4-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	98	70-125			
Dibromochloromethane	24.4	0.50	ug/l	25.0	ND	98	70-130			
1,2-Dibromo-3-chloropropane	22.8	2.5	ug/l	25.0	ND	91	50-150			
1,2-Dibromoethane (EDB)	22.3	0.50	ug/l	25.0	ND	89	70-125			
Dibromomethane	21.9	0.50	ug/l	25.0	ND	87	70-120			
1,2-Dichlorobenzene	24.2	0.50	ug/l	25.0	ND	97	75-120			
1,3-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	24.4	0.50	ug/l	25.0	ND	97	70-125			
Dichlorodifluoromethane	24.4	0.50	ug/l	25.0	ND	98	60-150			
1,1-Dichloroethane	23.4	0.50	ug/l	25.0	ND	93	70-130			
1,2-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	65-140			
1,1-Dichloroethene	24.5	0.50	ug/l	25.0	ND	98	70-130			
cis-1,2-Dichloroethene	21.6	0.50	ug/l	25.0	ND	86	70-125			
trans-1,2-Dichloroethene	23.7	0.50	ug/l	25.0	ND	95	75-125			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0	ND	90	75-125			
1,3-Dichloropropane	21.5	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	24.0	1.0	ug/l	25.0	ND	96	65-140			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0627-MS1)					**Source: PUI0649-01**					
1,1-Dichloropropene	24.5	0.50	ug/l	25.0	ND	98	65-130			
cis-1,3-Dichloropropene	24.6	0.50	ug/l	25.0	ND	98	75-130			
trans-1,3-Dichloropropene	23.7	0.50	ug/l	25.0	ND	95	70-130			
Ethylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	26.6	1.0	ug/l	25.0	ND	106	40-150			
2-Hexanone	19.8	2.5	ug/l	25.0	ND	79	20-150			
Iodomethane	28.2	2.5	ug/l	25.0	ND	113	60-150			
Isopropylbenzene	26.4	0.50	ug/l	25.0	ND	106	75-130			
p-Isopropyltoluene	25.4	0.50	ug/l	25.0	ND	102	70-130			
Methylene Chloride	20.0	1.0	ug/l	25.0	ND	80	65-130			
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135			
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0	ND	80	65-140			
Naphthalene	26.3	2.5	ug/l	25.0	ND	105	40-150			
n-Propylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-130			
Styrene	20.7	0.50	ug/l	25.0	ND	83	55-135			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0	ND	99	70-125			
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125			
Tetrachloroethene	25.8	0.50	ug/l	25.0	ND	103	65-130			
Toluene	23.4	0.50	ug/l	25.0	0.280	93	70-125			
1,2,3-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150			
1,2,4-Trichlorobenzene	26.1	1.0	ug/l	25.0	ND	104	50-150			
1,1,1-Trichloroethane	24.9	0.50	ug/l	25.0	ND	99	70-130			
1,1,2-Trichloroethane	21.3	0.50	ug/l	25.0	ND	85	75-125			
Trichloroethene	24.2	0.50	ug/l	25.0	0.370	96	70-125			
Trichlorofluoromethane	24.6	0.50	ug/l	25.0	ND	98	65-150			
1,2,3-Trichloropropane	21.6	1.0	ug/l	25.0	ND	86	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/l	25.0	ND	91	70-125			
1,3,5-Trimethylbenzene	24.7	0.50	ug/l	25.0	ND	99	75-130			
Vinyl Acetate	23.3	1.0	ug/l	25.0	ND	93	40-150			
Vinyl chloride	21.6	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	44.8	1.5	ug/l	50.0	ND	90	75-120			
Freon 113	26.3	2.0	ug/l	25.0	ND	105	65-140			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0627-MSD1)					**Source: PUI0649-01**					
Acetone	17.2	10	ug/l	25.0	ND	69	10-150	12	35	
Benzene	22.3	0.50	ug/l	25.0	ND	89	70-125	6	25	
Bromobenzene	23.1	0.50	ug/l	25.0	ND	92	75-120	4	20	
Bromochloromethane	22.4	0.50	ug/l	25.0	ND	90	75-130	0.2	20	
Bromodichloromethane	22.1	0.50	ug/l	25.0	ND	88	75-125	4	20	
Bromoform	21.5	1.0	ug/l	25.0	ND	86	65-125	2	25	
Bromomethane	18.1	1.0	ug/l	25.0	ND	73	45-150	5	35	
2-Butanone (MEK)	18.8	2.5	ug/l	25.0	ND	75	15-150	6	30	
n-Butylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-130	7	30	
sec-Butylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	7	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	7	25	
Carbon disulfide	20.8	0.50	ug/l	25.0	ND	83	65-145	31	25	*R1*
Carbon tetrachloride	25.0	0.50	ug/l	25.0	ND	100	65-135	9	25	
Chlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120	4	20	
Chloroethane	21.1	1.0	ug/l	25.0	ND	84	65-140	4	25	
Chloroform	21.3	0.50	ug/l	25.0	ND	85	70-130	4	20	
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145	4	35	
2-Chlorotoluene	22.2	0.50	ug/l	25.0	ND	89	70-125	6	25	
4-Chlorotoluene	23.1	0.50	ug/l	25.0	ND	92	70-125	5	25	
Dibromochloromethane	24.4	0.50	ug/l	25.0	ND	98	70-130	0.08	20	
1,2-Dibromo-3-chloropropane	23.0	2.5	ug/l	25.0	ND	92	50-150	0.8	30	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0	ND	92	70-125	3	20	
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-120	2	20	
1,2-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	75-120	4	20	
1,3-Dichlorobenzene	22.6	0.50	ug/l	25.0	ND	90	75-120	5	25	
1,4-Dichlorobenzene	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dichlorodifluoromethane	22.0	0.50	ug/l	25.0	ND	88	60-150	11	30	
1,1-Dichloroethane	22.4	0.50	ug/l	25.0	ND	90	70-130	4	20	
1,2-Dichloroethane	21.9	0.50	ug/l	25.0	ND	88	65-140	0.5	20	
1,1-Dichloroethene	23.7	0.50	ug/l	25.0	ND	95	70-130	3	25	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0	ND	82	70-125	5	20	
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0	ND	88	75-125	8	25	
1,2-Dichloropropane	21.7	0.50	ug/l	25.0	ND	87	75-125	4	20	
1,3-Dichloropropane	21.6	0.50	ug/l	25.0	ND	86	70-120	0.4	20	
2,2-Dichloropropane	24.3	1.0	ug/l	25.0	ND	97	65-140	1	25	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0627-MSD1)					**Source: PUI0649-01**					
1,1-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	65-130	7	25	
cis-1,3-Dichloropropene	23.0	0.50	ug/l	25.0	ND	92	75-130	7	20	
trans-1,3-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	70-130	3	20	
Ethylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	4	25	
Hexachlorobutadiene	23.9	1.0	ug/l	25.0	ND	96	40-150	11	30	
2-Hexanone	21.0	2.5	ug/l	25.0	ND	84	20-150	6	30	
Iodomethane	27.4	2.5	ug/l	25.0	ND	110	60-150	3	30	
Isopropylbenzene	25.0	0.50	ug/l	25.0	ND	100	75-130	5	25	
p-Isopropyltoluene	23.7	0.50	ug/l	25.0	ND	95	70-130	7	30	
Methylene Chloride	20.2	1.0	ug/l	25.0	ND	81	65-130	1	20	
4-Methyl-2-pentanone (MIBK)	22.1	2.5	ug/l	25.0	ND	88	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	21.2	0.50	ug/l	25.0	ND	85	65-140	5	25	
Naphthalene	25.6	2.5	ug/l	25.0	ND	103	40-150	3	30	
n-Propylbenzene	23.9	0.50	ug/l	25.0	ND	95	70-130	7	30	
Styrene	20.5	0.50	ug/l	25.0	ND	82	55-135	0.8	35	
1,1,1,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	70-125	4	20	
1,1,2,2-Tetrachloroethane	21.8	0.50	ug/l	25.0	ND	87	70-125	2	25	
Tetrachloroethene	24.4	0.50	ug/l	25.0	ND	97	65-130	6	25	
Toluene	21.8	0.50	ug/l	25.0	0.280	86	70-125	7	20	
1,2,3-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	50-150	5	35	
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	50-150	6	25	
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0	ND	94	70-130	5	25	
1,1,2-Trichloroethane	21.1	0.50	ug/l	25.0	ND	84	75-125	1	20	
Trichloroethene	22.5	0.50	ug/l	25.0	0.370	89	70-125	7	25	
Trichlorofluoromethane	24.2	0.50	ug/l	25.0	ND	97	65-150	2	25	
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0	ND	89	70-130	3	25	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-125	5	30	
1,3,5-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	75-130	6	25	
Vinyl Acetate	25.0	1.0	ug/l	25.0	ND	100	40-150	7	30	
Vinyl chloride	20.0	0.50	ug/l	25.0	ND	80	60-140	8	25	
Xylenes, Total	42.9	1.5	ug/l	50.0	ND	86	75-120	4	15	
Freon 113	25.2	2.0	ug/l	25.0	ND	101	65-140	4	20	
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0534 Extracted: 09/15/11										
Blank Analyzed: 09/16/2011 (11I0534-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*19.0*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/16/2011 (11I0534-BS1)										
1,4-Dioxane	19.9	1.0	ug/l	20.0		99	80-120			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.8*		*ug/l*	*20.0*		*94*	*38-125*			
LCS Dup Analyzed: 09/16/2011 (11I0534-BSD1)										
1,4-Dioxane	20.1	1.0	ug/l	20.0		100	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*94*	*38-125*			
Matrix Spike Analyzed: 09/16/2011 (11I0534-MS1)					**Source: PUI0764-02**					
1,4-Dioxane	42.2	1.0	ug/l	20.0	19.0	116	70-130			
Surrogate: 1,4-Dioxane-d8	*12.8*		*ug/l*	*20.0*		*64*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.8*		*ug/l*	*20.0*		*99*	*59-120*			
Matrix Spike Dup Analyzed: 09/16/2011 (11I0534-MSD1)					**Source: PUI0764-02**					
1,4-Dioxane	41.3	1.0	ug/l	20.0	19.0	111	70-130	2	25	
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*36-81*			
Surrogate: Nitrobenzene-d5	*20.2*		*ug/l*	*20.0*		*101*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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Environmental Resources Management

CHAIN OF CUSTODY RECORD

NO: 3042

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

PROJECT #	PROJECT NAME
0096498.030	OU3

SAMPLER: **(PRINT NAME)** Adam Nagle **(SIGNATURE)**

RECEIVING LABORATORY: Test America, Phoenix AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	VOC (8260B)	1,4-Dioxane (8270C)								
OU3-1M-M-091211	9/12/11	1413		x	Pump	HCl / -	Y	40mL / 1L	3 / 2		x		x	x				PUI0650-01				
EW-21-S-091211	9/12/11	1504		x	Pump	HCl / -	Y	40mL / 1L	3 / 2		x		x	x						-02		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
ERM / ERM	9/12	1707			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
				9/12/11	1707

FIELD REMARKS: Level III

0.6°C / 0.2°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@ERM.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.030

Sampled: 09/13/11
Received: 09/13/11
Revised: 11/10/11 14:02

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0739-01	OU3-10M2-M-091311	Water
PUI0739-02	OU3-10M2-M-091311-Q1	Water
PUI0739-03	OU3-10M-M-091311	Water
PUI0739-04	EWOU3-10S-R-S-091311	Water
PUI0739-05	OU3-8D-D-091311	Water
PUI0739-06	OU3-8S-S-091311	Water
PUI0739-07	GW-EB1-4-091311	Water
PUI0739-08	GW-L1-4-091311	Water
PUI0739-09	GW-Z1-1-091311	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

SAMPLE RECEIPT:	Samples were received intact, at 4°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. N1 = Laboratory Control Sample Duplicate recovered low and outside of client acceptance limits for Bromodichloromethane, cis-1,3-Dichloropropene and trans-1,3-Dichloropropene. Recovery was within the laboratory acceptance limits . All associated samples are non-detect for this compound and therefore should not be impacted. S10-Surrogate recovery was above acceptance limits.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-01 (OU3-10M2-M-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**1.2**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	**5.4**	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	**9.4**	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**6.9**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-01 (OU3-10M2-M-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**1.9**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**35**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*93 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-02 (OU3-10M2-M-091311-Q1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**1.2**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	**5.2**	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	**8.8**	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**6.5**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-02 (OU3-10M2-M-091311-Q1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**1.8**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**33**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-03 (OU3-10M-M-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**2.5**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	**2.1**	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	**2.8**	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**2.5**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-03 (OU3-10M-M-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**0.58**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**9.7**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*94 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-04 (EWOU3-10S-R-S-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**2.2**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	**2.1**	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**2.2**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-04 (EWOU3-10S-R-S-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**0.79**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**14**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*94 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*93 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-05 (OU3-8D-D-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-05 (OU3-8D-D-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	**0.80**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*91 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-06 (OU3-8S-S-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**1.4**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**0.86**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-06 (OU3-8S-S-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**0.82**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**6.1**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*94 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-07 (GW-EB1-4-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	**3.6**	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**7.3**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	**1.9**	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-07 (GW-EB1-4-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-08 (GW-L1-4-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-08 (GW-L1-4-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**0.55**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*88 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*91 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-09 (GW-Z1-1-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	**4.9**	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	**4.3**	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	**9.8**	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	**3.8**	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	**2.9**	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	**11**	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-09 (GW-Z1-1-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	**12**	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	**9.0**	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	**4.6**	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**13**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	**6.7**	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	**1.8**	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**7.9**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	**6.5**	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0739-01 (OU3-10M2-M-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	**3.1**	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*79 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*102 %*				
Sample ID: PUI0739-02 (OU3-10M2-M-091311-Q1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	**3.0**	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*78 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*100 %*				
Sample ID: PUI0739-03 (OU3-10M-M-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	**1.4**	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*101 %*				
Sample ID: PUI0739-04 (EWOU3-10S-R-S-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	**1.6**	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*44 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*78 %*				
Sample ID: PUI0739-05 (OU3-8D-D-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	ND	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*77 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*103 %*				
Sample ID: PUI0739-06 (OU3-8S-S-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.2	ND	1.18	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*75 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*100 %*				
Sample ID: PUI0739-07 (GW-EB1-4-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	ND	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*103 %*				

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Sampled: 09/13/11
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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
Acetone	20.5	10	ug/l	25.0		82	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.2	0.50	ug/l	25.0		93	80-125			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	80-120			
Bromoform	23.4	1.0	ug/l	25.0		94	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150			
n-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	23.3	0.50	ug/l	25.0		93	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
Chloroethane	22.0	1.0	ug/l	25.0		88	70-130			
Chloroform	22.2	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.4	1.0	ug/l	25.0		77	60-140			
2-Chlorotoluene	23.7	0.50	ug/l	25.0		95	80-120			
4-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
Dibromochloromethane	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	50-150			
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120			
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	19.3	0.50	ug/l	25.0		77	60-150			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		89	70-125			
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		83	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

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Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Hexachlorobutadiene	25.1	1.0	ug/l	25.0		100	40-150			
2-Hexanone	18.7	2.5	ug/l	25.0		75	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	26.4	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	24.8	0.50	ug/l	25.0		99	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0		72	60-135			
Methyl-tert-butyl Ether (MTBE)	19.0	0.50	ug/l	25.0		76	70-130			
Naphthalene	21.9	2.5	ug/l	25.0		88	40-150			
n-Propylbenzene	25.0	0.50	ug/l	25.0		100	75-130			
Styrene	22.4	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0		99	75-125			
1,1,2,2-Tetrachloroethane	22.4	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130			
Toluene	24.4	0.50	ug/l	25.0		97	80-120			
1,2,3-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	50-150			
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Trichloroethene	24.9	0.50	ug/l	25.0		99	80-120			
Trichlorofluoromethane	22.0	0.50	ug/l	25.0		88	70-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	19.7	1.0	ug/l	25.0		79	40-150			
Vinyl chloride	22.6	0.50	ug/l	25.0		91	70-130			
Xylenes, Total	49.8	1.5	ug/l	50.0		100	60-140			
Freon 113	23.3	2.0	ug/l	25.0		93	60-140			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
Acetone	20.4	10	ug/l	25.0		82	10-150	0.4	35	
Benzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120	7	15	
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125	3	15	
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120	6	15	*N1*
Bromoform	21.7	1.0	ug/l	25.0		87	75-130	8	20	
Bromomethane	23.4	1.0	ug/l	25.0		94	55-150	0.9	20	
2-Butanone (MEK)	19.6	2.5	ug/l	25.0		79	40-150	4	35	
n-Butylbenzene	22.9	0.50	ug/l	25.0		92	80-130	5	15	
sec-Butylbenzene	23.8	0.50	ug/l	25.0		95	80-125	6	15	
tert-Butylbenzene	23.2	0.50	ug/l	25.0		93	80-120	7	15	
Carbon disulfide	22.7	0.50	ug/l	25.0		91	70-140	3	15	
Carbon tetrachloride	23.9	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
Chloroethane	20.2	1.0	ug/l	25.0		81	70-130	8	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140	5	20	
2-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
4-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	5	15	
Dibromochloromethane	21.6	0.50	ug/l	25.0		86	80-120	4	15	
1,2-Dibromo-3-chloropropane	19.8	2.5	ug/l	25.0		79	50-150	10	35	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Dibromomethane	22.1	0.50	ug/l	25.0		88	75-120	8	15	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	7	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	8	15	
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
Dichlorodifluoromethane	18.6	0.50	ug/l	25.0		74	60-150	4	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		88	70-125	1	15	
1,2-Dichloroethane	19.5	0.50	ug/l	25.0		78	75-130	6	15	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125	1	20	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	80-120	6	15	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120	0.4	15	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	80-120	5	15	
1,3-Dichloropropane	20.0	0.50	ug/l	25.0		80	80-120	11	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

TestAmerica Phoenix

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
1,1-Dichloropropene	22.2	0.50	ug/l	25.0		89	75-120	2	15	
cis-1,3-Dichloropropene	19.8	0.50	ug/l	25.0		79	80-120	10	15	*N1*
trans-1,3-Dichloropropene	18.8	0.50	ug/l	25.0		75	80-125	9	15	*N1*
Ethylbenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Hexachlorobutadiene	23.5	1.0	ug/l	25.0		94	40-150	6	35	
2-Hexanone	17.8	2.5	ug/l	25.0		71	20-150	5	35	
Iodomethane	31.4	2.5	ug/l	25.0		126	80-130	2	10	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	80-130	6	15	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0		94	80-130	5	15	
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	16.6	2.5	ug/l	25.0		66	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	4	20	
Naphthalene	20.9	2.5	ug/l	25.0		84	40-150	5	30	
n-Propylbenzene	23.6	0.50	ug/l	25.0		95	75-130	6	15	
Styrene	21.4	0.50	ug/l	25.0		86	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	75-125	3	15	
1,1,2,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	80-120	8	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	20	20	
Toluene	23.3	0.50	ug/l	25.0		93	80-120	4	15	
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150	4	35	
1,2,4-Trichlorobenzene	22.9	1.0	ug/l	25.0		91	50-150	8	30	
1,1,1-Trichloroethane	22.2	0.50	ug/l	25.0		89	75-125	6	15	
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120	11	15	
Trichloroethene	23.3	0.50	ug/l	25.0		93	80-120	6	15	
Trichlorofluoromethane	21.9	0.50	ug/l	25.0		88	70-150	0.6	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0		79	70-130	10	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	80-120	6	15	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-130	7	15	
Vinyl Acetate	18.2	1.0	ug/l	25.0		73	40-150	8	25	
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130	8	20	
Xylenes, Total	48.5	1.5	ug/l	50.0		97	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	3	15	
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
Acetone	13.3	10	ug/l	25.0	ND	53	10-150			
Benzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	21.1	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	19.6	0.50	ug/l	25.0	ND	79	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	16.9	2.5	ug/l	25.0	ND	68	15-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
sec-Butylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140			
Chloroform	22.8	0.50	ug/l	25.0	1.18	86	70-130			
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145			
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dibromo-3-chloropropane	19.6	2.5	ug/l	25.0	ND	79	50-150			
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125			
Dibromomethane	20.3	0.50	ug/l	25.0	ND	81	70-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-125			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	5.41	85	70-130			
1,2-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	65-140			
1,1-Dichloroethene	32.3	0.50	ug/l	25.0	9.41	91	70-130			
cis-1,2-Dichloroethene	27.4	0.50	ug/l	25.0	6.93	82	70-125			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	75-125			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	75-125			
1,3-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
1,1-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	65-130			
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130			
trans-1,3-Dichloropropene	19.2	0.50	ug/l	25.0	ND	77	70-130			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	17.6	1.0	ug/l	25.0	ND	70	40-150			
2-Hexanone	14.8	2.5	ug/l	25.0	ND	59	20-150			
Iodomethane	32.0	2.5	ug/l	25.0	ND	128	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	23.1	1.0	ug/l	25.0	ND	92	65-130			
4-Methyl-2-pentanone (MIBK)	15.8	2.5	ug/l	25.0	ND	63	55-135			
Methyl-tert-butyl Ether (MTBE)	16.8	0.50	ug/l	25.0	ND	67	65-140			
Naphthalene	17.3	2.5	ug/l	25.0	ND	69	40-150			
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	55-135			
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	70-125			
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/l	25.0	ND	82	70-125			
Tetrachloroethene	28.2	0.50	ug/l	25.0	1.94	105	65-130			
Toluene	24.8	0.50	ug/l	25.0	0.370	98	70-125			
1,2,3-Trichlorobenzene	19.9	1.0	ug/l	25.0	ND	80	50-150			
1,2,4-Trichlorobenzene	20.8	1.0	ug/l	25.0	ND	83	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0	ND	83	75-125			
Trichloroethene	56.9	0.50	ug/l	25.0	35.3	87	70-125			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.160	89	65-150			
1,2,3-Trichloropropane	18.9	1.0	ug/l	25.0	ND	76	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125			
1,3,5-Trimethylbenzene	23.6	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	16.8	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	24.6	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
Acetone	19.0	10	ug/l	25.0	ND	76	10-150	35	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	4	25	
Bromobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	4	20	
Bromochloromethane	23.6	0.50	ug/l	25.0	ND	94	75-130	11	20	
Bromodichloromethane	20.7	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	65-125	0.6	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150	10	30	
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	30	
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	2	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	2	25	
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145	8	25	
Carbon tetrachloride	24.0	0.50	ug/l	25.0	ND	96	65-135	2	25	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120	6	20	
Chloroethane	21.6	1.0	ug/l	25.0	ND	86	65-140	5	25	
Chloroform	24.3	0.50	ug/l	25.0	1.18	92	70-130	6	20	
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	55-145	3	35	
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125	0.3	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	0.5	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	8	20	
1,2-Dibromo-3-chloropropane	19.2	2.5	ug/l	25.0	ND	77	50-150	2	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dibromomethane	23.0	0.50	ug/l	25.0	ND	92	70-120	12	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	60-150	13	30	
1,1-Dichloroethane	28.1	0.50	ug/l	25.0	5.41	91	70-130	5	20	
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	65-140	7	20	
1,1-Dichloroethene	31.9	0.50	ug/l	25.0	9.41	90	70-130	1	25	
cis-1,2-Dichloroethene	29.0	0.50	ug/l	25.0	6.93	88	70-125	6	20	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	75-125	3	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	6	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-120	9	20	
2,2-Dichloropropane	21.4	1.0	ug/l	25.0	ND	85	65-140	3	25	

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	3	25	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0	ND	89	75-130	10	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	7	20	
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	5	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	36	30	*R4*
2-Hexanone	17.9	2.5	ug/l	25.0	ND	72	20-150	19	30	
Iodomethane	33.4	2.5	ug/l	25.0	ND	134	60-150	4	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	0.4	25	
p-Isopropyltoluene	23.9	0.50	ug/l	25.0	ND	96	70-130	2	30	
Methylene Chloride	23.8	1.0	ug/l	25.0	ND	95	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	17.0	2.5	ug/l	25.0	ND	68	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	9	25	
Naphthalene	20.3	2.5	ug/l	25.0	ND	81	40-150	16	30	
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.1	30	
Styrene	16.5	0.50	ug/l	25.0	ND	66	55-135	19	35	
1,1,1,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125	9	20	
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125	4	25	
Tetrachloroethene	28.8	0.50	ug/l	25.0	1.94	107	65-130	2	25	
Toluene	25.8	0.50	ug/l	25.0	0.370	102	70-125	4	20	
1,2,3-Trichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	50-150	20	35	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	50-150	17	25	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0	ND	92	70-130	2	25	
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	75-125	8	20	
Trichloroethene	56.7	0.50	ug/l	25.0	35.3	86	70-125	0.4	25	
Trichlorofluoromethane	21.1	0.50	ug/l	25.0	0.160	84	65-150	6	25	
1,2,3-Trichloropropane	18.3	1.0	ug/l	25.0	ND	73	70-130	3	25	
1,2,4-Trimethylbenzene	22.4	0.50	ug/l	25.0	ND	90	70-125	3	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	0.3	25	
Vinyl Acetate	17.0	1.0	ug/l	25.0	ND	68	40-150	0.9	30	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140	1	25	
Xylenes, Total	50.6	1.5	ug/l	50.0	ND	101	75-120	7	15	
Freon 113	22.3	2.0	ug/l	25.0	ND	89	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0590 Extracted: 09/16/11										
Blank Analyzed: 09/18/2011 (11I0590-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*18.9*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/18/2011 (11I0590-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.0*		*ug/l*	*20.0*		*100*	*38-125*			
LCS Dup Analyzed: 09/18/2011 (11I0590-BSD1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120	0.2	25	
Surrogate: 1,4-Dioxane-d8	*15.7*		*ug/l*	*20.0*		*79*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.6*		*ug/l*	*20.0*		*103*	*38-125*			

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0739

Sampled: 09/13/11
Received: 09/13/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[X] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: ERM
7272 E Indian School Suite 100
Scottsdale, AZ 85251

Project/PO Number: 0096498.030

Project Manager: Jason Hilker
Jason.Hilker@ERM.com

Phone Number: 480-998-2401

Sampler: Adam Nugle

Fax Number:

Analysis Required: VOC (8260B), 1,4-Dioxane (8270C), PUI0739

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)								Special Instructions
OU3-10M2-M-091311	Wt	40mL / 1L	3 / 2	9/13/11	935	HCl / —	X	X								01
OU3-10M2-M-091311-Q1	↓	↓	↓	↓	935	↓	↓	↓								02
OU3-10M-M-091311	↓	↓	↓	↓	1119	↓	↓	↓								03
EWOU3-10S-R-S-091311	↓	↓	↓	↓	1023	↓	↓	↓								04
OU3-8D-D-091311	↓	↓	↓	↓	1301	↓	↓	↓								05
OU3-8S-S-091311	↓	↓	↓	↓	1322	↓	↓	↓								06
GW-EB1-4-091311	↓	↓	↓	↓	1524	↓	↓	↓								07
GW-L1-4-091311	↓	40mL	1	↓	—	HCl	↓	—	TRIP	BLANK	—					08

Relinquished By:	Date/Time:	Received By:	Date/Time:
ERM / ERM	9/13 1700		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time: 9/13/11 1700

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3.6°C, 2.4°C

PUI 0739

Environmental Resources Management

CHAIN OF CUSTODY RECORD

NO: 3044

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

PROJECT #	PROJECT NAME
0096498.030	OU3

SAMPLER: (PRINT NAME)	(SIGNATURE)
Adam Nagle	[signature]

RECEIVING LABORATORY: Test America Phoenix

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESER-VATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	REQUESTED PARAMETERS: VOC 8260B									
GW-Z1-1-091311	9/13/11	1227		x	—	HCl	Y	3x40mL	3		x		X									-09

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
[signature] ERM	9/13	1700	[signature]		
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
				9/13/11	1700

FIELD REMARKS: 3.6°C, 2.4°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: jason.hilker@erm.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/13/11
Received: 09/13/11
Revised: 11/21/11 15:36

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0741-01	OU3-8M2-M-091311	Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.
N1 = Laboratory Control Sample Duplicate recovered low and outside of client acceptance limits for Bromodichloromethane, cis-1,3-Dichloropropene and trans-1,3-Dichloropropene. Recovery was within the laboratory acceptance limits . All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0741-01 (OU3-8M2-M-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**0.54**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0741-01 (OU3-8M2-M-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	**24**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**7.1**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*86 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0741-01 (OU3-8M2-M-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	ND	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*101 %*				

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
Acetone	20.5	10	ug/l	25.0		82	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.2	0.50	ug/l	25.0		93	80-125			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	80-120			
Bromoform	23.4	1.0	ug/l	25.0		94	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150			
n-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	23.3	0.50	ug/l	25.0		93	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
Chloroethane	22.0	1.0	ug/l	25.0		88	70-130			
Chloroform	22.2	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.4	1.0	ug/l	25.0		77	60-140			
2-Chlorotoluene	23.7	0.50	ug/l	25.0		95	80-120			
4-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
Dibromochloromethane	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	50-150			
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120			
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	19.3	0.50	ug/l	25.0		77	60-150			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		89	70-125			
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		83	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Hexachlorobutadiene	25.1	1.0	ug/l	25.0		100	40-150			
2-Hexanone	18.7	2.5	ug/l	25.0		75	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	26.4	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	24.8	0.50	ug/l	25.0		99	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0		72	60-135			
Methyl-tert-butyl Ether (MTBE)	19.0	0.50	ug/l	25.0		76	70-130			
Naphthalene	21.9	2.5	ug/l	25.0		88	40-150			
n-Propylbenzene	25.0	0.50	ug/l	25.0		100	75-130			
Styrene	22.4	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0		99	75-125			
1,1,2,2-Tetrachloroethane	22.4	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130			
Toluene	24.4	0.50	ug/l	25.0		97	80-120			
1,2,3-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	50-150			
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Trichloroethene	24.9	0.50	ug/l	25.0		99	80-120			
Trichlorofluoromethane	22.0	0.50	ug/l	25.0		88	70-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	19.7	1.0	ug/l	25.0		79	40-150			
Vinyl chloride	22.6	0.50	ug/l	25.0		91	70-130			
Xylenes, Total	49.8	1.5	ug/l	50.0		100	60-140			
Freon 113	23.3	2.0	ug/l	25.0		93	60-140			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*97*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
Acetone	20.4	10	ug/l	25.0		82	10-150	0.4	35	
Benzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120	7	15	
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125	3	15	
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120	6	15	*N1*
Bromoform	21.7	1.0	ug/l	25.0		87	75-130	8	20	
Bromomethane	23.4	1.0	ug/l	25.0		94	55-150	0.9	20	
2-Butanone (MEK)	19.6	2.5	ug/l	25.0		79	40-150	4	35	
n-Butylbenzene	22.9	0.50	ug/l	25.0		92	80-130	5	15	
sec-Butylbenzene	23.8	0.50	ug/l	25.0		95	80-125	6	15	
tert-Butylbenzene	23.2	0.50	ug/l	25.0		93	80-120	7	15	
Carbon disulfide	22.7	0.50	ug/l	25.0		91	70-140	3	15	
Carbon tetrachloride	23.9	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
Chloroethane	20.2	1.0	ug/l	25.0		81	70-130	8	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140	5	20	
2-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
4-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	5	15	
Dibromochloromethane	21.6	0.50	ug/l	25.0		86	80-120	4	15	
1,2-Dibromo-3-chloropropane	19.8	2.5	ug/l	25.0		79	50-150	10	35	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Dibromomethane	22.1	0.50	ug/l	25.0		88	75-120	8	15	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	7	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	8	15	
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
Dichlorodifluoromethane	18.6	0.50	ug/l	25.0		74	60-150	4	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		88	70-125	1	15	
1,2-Dichloroethane	19.5	0.50	ug/l	25.0		78	75-130	6	15	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125	1	20	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	80-120	6	15	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120	0.4	15	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	80-120	5	15	
1,3-Dichloropropane	20.0	0.50	ug/l	25.0		80	80-120	11	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
1,1-Dichloropropene	22.2	0.50	ug/l	25.0		89	75-120	2	15	
cis-1,3-Dichloropropene	19.8	0.50	ug/l	25.0		79	80-120	10	15	*N1*
trans-1,3-Dichloropropene	18.8	0.50	ug/l	25.0		75	80-125	9	15	*N1*
Ethylbenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Hexachlorobutadiene	23.5	1.0	ug/l	25.0		94	40-150	6	35	
2-Hexanone	17.8	2.5	ug/l	25.0		71	20-150	5	35	
Iodomethane	31.4	2.5	ug/l	25.0		126	80-130	2	10	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	80-130	6	15	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0		94	80-130	5	15	
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	16.6	2.5	ug/l	25.0		66	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	4	20	
Naphthalene	20.9	2.5	ug/l	25.0		84	40-150	5	30	
n-Propylbenzene	23.6	0.50	ug/l	25.0		95	75-130	6	15	
Styrene	21.4	0.50	ug/l	25.0		86	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	75-125	3	15	
1,1,2,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	80-120	8	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	20	20	
Toluene	23.3	0.50	ug/l	25.0		93	80-120	4	15	
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150	4	35	
1,2,4-Trichlorobenzene	22.9	1.0	ug/l	25.0		91	50-150	8	30	
1,1,1-Trichloroethane	22.2	0.50	ug/l	25.0		89	75-125	6	15	
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120	11	15	
Trichloroethene	23.3	0.50	ug/l	25.0		93	80-120	6	15	
Trichlorofluoromethane	21.9	0.50	ug/l	25.0		88	70-150	0.6	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0		79	70-130	10	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	80-120	6	15	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-130	7	15	
Vinyl Acetate	18.2	1.0	ug/l	25.0		73	40-150	8	25	
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130	8	20	
Xylenes, Total	48.5	1.5	ug/l	50.0		97	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	3	15	
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
Acetone	13.3	10	ug/l	25.0	ND	53	10-150			
Benzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	21.1	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	19.6	0.50	ug/l	25.0	ND	79	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	16.9	2.5	ug/l	25.0	ND	68	15-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
sec-Butylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140			
Chloroform	22.8	0.50	ug/l	25.0	1.18	86	70-130			
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145			
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dibromo-3-chloropropane	19.6	2.5	ug/l	25.0	ND	79	50-150			
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125			
Dibromomethane	20.3	0.50	ug/l	25.0	ND	81	70-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-125			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	5.41	85	70-130			
1,2-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	65-140			
1,1-Dichloroethene	32.3	0.50	ug/l	25.0	9.41	91	70-130			
cis-1,2-Dichloroethene	27.4	0.50	ug/l	25.0	6.93	82	70-125			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	75-125			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	75-125			
1,3-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
1,1-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	65-130			
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130			
trans-1,3-Dichloropropene	19.2	0.50	ug/l	25.0	ND	77	70-130			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	17.6	1.0	ug/l	25.0	ND	70	40-150			
2-Hexanone	14.8	2.5	ug/l	25.0	ND	59	20-150			
Iodomethane	32.0	2.5	ug/l	25.0	ND	128	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	23.1	1.0	ug/l	25.0	ND	92	65-130			
4-Methyl-2-pentanone (MIBK)	15.8	2.5	ug/l	25.0	ND	63	55-135			
Methyl-tert-butyl Ether (MTBE)	16.8	0.50	ug/l	25.0	ND	67	65-140			
Naphthalene	17.3	2.5	ug/l	25.0	ND	69	40-150			
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	55-135			
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	70-125			
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/l	25.0	ND	82	70-125			
Tetrachloroethene	28.2	0.50	ug/l	25.0	1.94	105	65-130			
Toluene	24.8	0.50	ug/l	25.0	0.370	98	70-125			
1,2,3-Trichlorobenzene	19.9	1.0	ug/l	25.0	ND	80	50-150			
1,2,4-Trichlorobenzene	20.8	1.0	ug/l	25.0	ND	83	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0	ND	83	75-125			
Trichloroethene	56.9	0.50	ug/l	25.0	35.3	87	70-125			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.160	89	65-150			
1,2,3-Trichloropropane	18.9	1.0	ug/l	25.0	ND	76	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125			
1,3,5-Trimethylbenzene	23.6	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	16.8	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	24.6	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-125*			

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Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
Acetone	19.0	10	ug/l	25.0	ND	76	10-150	35	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	4	25	
Bromobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	4	20	
Bromochloromethane	23.6	0.50	ug/l	25.0	ND	94	75-130	11	20	
Bromodichloromethane	20.7	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	65-125	0.6	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150	10	30	
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	30	
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	2	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	2	25	
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145	8	25	
Carbon tetrachloride	24.0	0.50	ug/l	25.0	ND	96	65-135	2	25	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120	6	20	
Chloroethane	21.6	1.0	ug/l	25.0	ND	86	65-140	5	25	
Chloroform	24.3	0.50	ug/l	25.0	1.18	92	70-130	6	20	
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	55-145	3	35	
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125	0.3	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	0.5	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	8	20	
1,2-Dibromo-3-chloropropane	19.2	2.5	ug/l	25.0	ND	77	50-150	2	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dibromomethane	23.0	0.50	ug/l	25.0	ND	92	70-120	12	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	60-150	13	30	
1,1-Dichloroethane	28.1	0.50	ug/l	25.0	5.41	91	70-130	5	20	
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	65-140	7	20	
1,1-Dichloroethene	31.9	0.50	ug/l	25.0	9.41	90	70-130	1	25	
cis-1,2-Dichloroethene	29.0	0.50	ug/l	25.0	6.93	88	70-125	6	20	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	75-125	3	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	6	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-120	9	20	
2,2-Dichloropropane	21.4	1.0	ug/l	25.0	ND	85	65-140	3	25	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	3	25	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0	ND	89	75-130	10	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	7	20	
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	5	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	36	30	*R4*
2-Hexanone	17.9	2.5	ug/l	25.0	ND	72	20-150	19	30	
Iodomethane	33.4	2.5	ug/l	25.0	ND	134	60-150	4	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	0.4	25	
p-Isopropyltoluene	23.9	0.50	ug/l	25.0	ND	96	70-130	2	30	
Methylene Chloride	23.8	1.0	ug/l	25.0	ND	95	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	17.0	2.5	ug/l	25.0	ND	68	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	9	25	
Naphthalene	20.3	2.5	ug/l	25.0	ND	81	40-150	16	30	
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.1	30	
Styrene	16.5	0.50	ug/l	25.0	ND	66	55-135	19	35	
1,1,1,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125	9	20	
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125	4	25	
Tetrachloroethene	28.8	0.50	ug/l	25.0	1.94	107	65-130	2	25	
Toluene	25.8	0.50	ug/l	25.0	0.370	102	70-125	4	20	
1,2,3-Trichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	50-150	20	35	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	50-150	17	25	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0	ND	92	70-130	2	25	
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	75-125	8	20	
Trichloroethene	56.7	0.50	ug/l	25.0	35.3	86	70-125	0.4	25	
Trichlorofluoromethane	21.1	0.50	ug/l	25.0	0.160	84	65-150	6	25	
1,2,3-Trichloropropane	18.3	1.0	ug/l	25.0	ND	73	70-130	3	25	
1,2,4-Trimethylbenzene	22.4	0.50	ug/l	25.0	ND	90	70-125	3	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	0.3	25	
Vinyl Acetate	17.0	1.0	ug/l	25.0	ND	68	40-150	0.9	30	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140	1	25	
Xylenes, Total	50.6	1.5	ug/l	50.0	ND	101	75-120	7	15	
Freon 113	22.3	2.0	ug/l	25.0	ND	89	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0590 Extracted: 09/16/11										
Blank Analyzed: 09/18/2011 (11I0590-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*18.9*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/18/2011 (11I0590-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.0*		*ug/l*	*20.0*		*100*	*38-125*			
LCS Dup Analyzed: 09/18/2011 (11I0590-BSD1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120	0.2	25	
Surrogate: 1,4-Dioxane-d8	*15.7*		*ug/l*	*20.0*		*79*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.6*		*ug/l*	*20.0*		*103*	*38-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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Environmental Resources Management

CHAIN OF CUSTODY RECORD

PUI0741

NO: 3045

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

Page 1 of 1

PROJECT #	PROJECT NAME
0096498.030	003

SAMPLER: (PRINT NAME)	(SIGNATURE)
Adam Nagle	ARN

RECEIVING LABORATORY: Test America Phoenix, AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	REQUESTED PARAMETERS: VOC (8260B)	REQUESTED PARAMETERS: 1,4-Dioxane (8270C)								
003-BMW-M-091311	9/13/11	1523		X	Pump	HCl / –	Y	40ml / 1L	3 / 2		X		X	X							–	01

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
ARN / ERM	9/13	1700			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
				9/13/11	1700

FIELD REMARKS: Level III Analysis

3.6°C 24°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@erm.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.030

Sampled: 09/14/11
Received: 09/14/11
Revised: 11/21/11 12:11

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0849-01	OU3-11S-S-091411	Water
PUI0849-02	OU3-5SR-S-091411	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
N1 = Laboratory Control Sample Duplicate recovered low and outside of client acceptance limits for Bromodichloromethane, cis-1,3-Dichloropropene and trans-1,3-Dichloropropene. Recovery was within the laboratory acceptance limits . All associated samples are non-detect for this compound and therefore should not be impacted.
S10-Surrogate recovery was above acceptance limits.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to relect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0849-01 (OU3-11S-S-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**0.56**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0849-01 (OU3-11S-S-091411 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**1.0**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*93 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0849-02 (OU3-5SR-S-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**3.1**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	**3.3**	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	**3.8**	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**5.1**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0849-02 (OU3-5SR-S-091411 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	**1.1**	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**23**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*94 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0849-01 (OU3-11S-S-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	ND	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*102 %*				
Sample ID: PUI0849-02 (OU3-5SR-S-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	**1.6**	1	9/17/2011	9/19/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*65 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*83 %*				

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
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Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
Acetone	20.5	10	ug/l	25.0		82	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.2	0.50	ug/l	25.0		93	80-125			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	80-120			
Bromoform	23.4	1.0	ug/l	25.0		94	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150			
n-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	23.3	0.50	ug/l	25.0		93	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
Chloroethane	22.0	1.0	ug/l	25.0		88	70-130			
Chloroform	22.2	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.4	1.0	ug/l	25.0		77	60-140			
2-Chlorotoluene	23.7	0.50	ug/l	25.0		95	80-120			
4-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
Dibromochloromethane	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	50-150			
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120			
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	19.3	0.50	ug/l	25.0		77	60-150			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		89	70-125			
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		83	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Hexachlorobutadiene	25.1	1.0	ug/l	25.0		100	40-150			
2-Hexanone	18.7	2.5	ug/l	25.0		75	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	26.4	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	24.8	0.50	ug/l	25.0		99	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0		72	60-135			
Methyl-tert-butyl Ether (MTBE)	19.0	0.50	ug/l	25.0		76	70-130			
Naphthalene	21.9	2.5	ug/l	25.0		88	40-150			
n-Propylbenzene	25.0	0.50	ug/l	25.0		100	75-130			
Styrene	22.4	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0		99	75-125			
1,1,2,2-Tetrachloroethane	22.4	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130			
Toluene	24.4	0.50	ug/l	25.0		97	80-120			
1,2,3-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	50-150			
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Trichloroethene	24.9	0.50	ug/l	25.0		99	80-120			
Trichlorofluoromethane	22.0	0.50	ug/l	25.0		88	70-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	19.7	1.0	ug/l	25.0		79	40-150			
Vinyl chloride	22.6	0.50	ug/l	25.0		91	70-130			
Xylenes, Total	49.8	1.5	ug/l	50.0		100	60-140			
Freon 113	23.3	2.0	ug/l	25.0		93	60-140			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
Acetone	20.4	10	ug/l	25.0		82	10-150	0.4	35	
Benzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120	7	15	
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125	3	15	
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120	6	15	*N1*
Bromoform	21.7	1.0	ug/l	25.0		87	75-130	8	20	
Bromomethane	23.4	1.0	ug/l	25.0		94	55-150	0.9	20	
2-Butanone (MEK)	19.6	2.5	ug/l	25.0		79	40-150	4	35	
n-Butylbenzene	22.9	0.50	ug/l	25.0		92	80-130	5	15	
sec-Butylbenzene	23.8	0.50	ug/l	25.0		95	80-125	6	15	
tert-Butylbenzene	23.2	0.50	ug/l	25.0		93	80-120	7	15	
Carbon disulfide	22.7	0.50	ug/l	25.0		91	70-140	3	15	
Carbon tetrachloride	23.9	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
Chloroethane	20.2	1.0	ug/l	25.0		81	70-130	8	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140	5	20	
2-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
4-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	5	15	
Dibromochloromethane	21.6	0.50	ug/l	25.0		86	80-120	4	15	
1,2-Dibromo-3-chloropropane	19.8	2.5	ug/l	25.0		79	50-150	10	35	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Dibromomethane	22.1	0.50	ug/l	25.0		88	75-120	8	15	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	7	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	8	15	
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
Dichlorodifluoromethane	18.6	0.50	ug/l	25.0		74	60-150	4	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		88	70-125	1	15	
1,2-Dichloroethane	19.5	0.50	ug/l	25.0		78	75-130	6	15	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125	1	20	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	80-120	6	15	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120	0.4	15	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	80-120	5	15	
1,3-Dichloropropane	20.0	0.50	ug/l	25.0		80	80-120	11	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
1,1-Dichloropropene	22.2	0.50	ug/l	25.0		89	75-120	2	15	
cis-1,3-Dichloropropene	19.8	0.50	ug/l	25.0		79	80-120	10	15	*N1*
trans-1,3-Dichloropropene	18.8	0.50	ug/l	25.0		75	80-125	9	15	*N1*
Ethylbenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Hexachlorobutadiene	23.5	1.0	ug/l	25.0		94	40-150	6	35	
2-Hexanone	17.8	2.5	ug/l	25.0		71	20-150	5	35	
Iodomethane	31.4	2.5	ug/l	25.0		126	80-130	2	10	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	80-130	6	15	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0		94	80-130	5	15	
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	16.6	2.5	ug/l	25.0		66	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	4	20	
Naphthalene	20.9	2.5	ug/l	25.0		84	40-150	5	30	
n-Propylbenzene	23.6	0.50	ug/l	25.0		95	75-130	6	15	
Styrene	21.4	0.50	ug/l	25.0		86	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	75-125	3	15	
1,1,2,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	80-120	8	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	20	20	
Toluene	23.3	0.50	ug/l	25.0		93	80-120	4	15	
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150	4	35	
1,2,4-Trichlorobenzene	22.9	1.0	ug/l	25.0		91	50-150	8	30	
1,1,1-Trichloroethane	22.2	0.50	ug/l	25.0		89	75-125	6	15	
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120	11	15	
Trichloroethene	23.3	0.50	ug/l	25.0		93	80-120	6	15	
Trichlorofluoromethane	21.9	0.50	ug/l	25.0		88	70-150	0.6	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0		79	70-130	10	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	80-120	6	15	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-130	7	15	
Vinyl Acetate	18.2	1.0	ug/l	25.0		73	40-150	8	25	
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130	8	20	
Xylenes, Total	48.5	1.5	ug/l	50.0		97	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	3	15	
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
Acetone	13.3	10	ug/l	25.0	ND	53	10-150			
Benzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	21.1	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	19.6	0.50	ug/l	25.0	ND	79	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	16.9	2.5	ug/l	25.0	ND	68	15-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
sec-Butylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140			
Chloroform	22.8	0.50	ug/l	25.0	1.18	86	70-130			
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145			
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dibromo-3-chloropropane	19.6	2.5	ug/l	25.0	ND	79	50-150			
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125			
Dibromomethane	20.3	0.50	ug/l	25.0	ND	81	70-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-125			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	5.41	85	70-130			
1,2-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	65-140			
1,1-Dichloroethene	32.3	0.50	ug/l	25.0	9.41	91	70-130			
cis-1,2-Dichloroethene	27.4	0.50	ug/l	25.0	6.93	82	70-125			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	75-125			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	75-125			
1,3-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
1,1-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	65-130			
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130			
trans-1,3-Dichloropropene	19.2	0.50	ug/l	25.0	ND	77	70-130			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	17.6	1.0	ug/l	25.0	ND	70	40-150			
2-Hexanone	14.8	2.5	ug/l	25.0	ND	59	20-150			
Iodomethane	32.0	2.5	ug/l	25.0	ND	128	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	23.1	1.0	ug/l	25.0	ND	92	65-130			
4-Methyl-2-pentanone (MIBK)	15.8	2.5	ug/l	25.0	ND	63	55-135			
Methyl-tert-butyl Ether (MTBE)	16.8	0.50	ug/l	25.0	ND	67	65-140			
Naphthalene	17.3	2.5	ug/l	25.0	ND	69	40-150			
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	55-135			
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	70-125			
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/l	25.0	ND	82	70-125			
Tetrachloroethene	28.2	0.50	ug/l	25.0	1.94	105	65-130			
Toluene	24.8	0.50	ug/l	25.0	0.370	98	70-125			
1,2,3-Trichlorobenzene	19.9	1.0	ug/l	25.0	ND	80	50-150			
1,2,4-Trichlorobenzene	20.8	1.0	ug/l	25.0	ND	83	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0	ND	83	75-125			
Trichloroethene	56.9	0.50	ug/l	25.0	35.3	87	70-125			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.160	89	65-150			
1,2,3-Trichloropropane	18.9	1.0	ug/l	25.0	ND	76	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125			
1,3,5-Trimethylbenzene	23.6	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	16.8	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	24.6	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
Acetone	19.0	10	ug/l	25.0	ND	76	10-150	35	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	4	25	
Bromobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	4	20	
Bromochloromethane	23.6	0.50	ug/l	25.0	ND	94	75-130	11	20	
Bromodichloromethane	20.7	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	65-125	0.6	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150	10	30	
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	30	
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	2	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	2	25	
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145	8	25	
Carbon tetrachloride	24.0	0.50	ug/l	25.0	ND	96	65-135	2	25	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120	6	20	
Chloroethane	21.6	1.0	ug/l	25.0	ND	86	65-140	5	25	
Chloroform	24.3	0.50	ug/l	25.0	1.18	92	70-130	6	20	
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	55-145	3	35	
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125	0.3	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	0.5	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	8	20	
1,2-Dibromo-3-chloropropane	19.2	2.5	ug/l	25.0	ND	77	50-150	2	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dibromomethane	23.0	0.50	ug/l	25.0	ND	92	70-120	12	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	60-150	13	30	
1,1-Dichloroethane	28.1	0.50	ug/l	25.0	5.41	91	70-130	5	20	
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	65-140	7	20	
1,1-Dichloroethene	31.9	0.50	ug/l	25.0	9.41	90	70-130	1	25	
cis-1,2-Dichloroethene	29.0	0.50	ug/l	25.0	6.93	88	70-125	6	20	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	75-125	3	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	6	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-120	9	20	
2,2-Dichloropropane	21.4	1.0	ug/l	25.0	ND	85	65-140	3	25	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	3	25	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0	ND	89	75-130	10	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	7	20	
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	5	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	36	30	*R4*
2-Hexanone	17.9	2.5	ug/l	25.0	ND	72	20-150	19	30	
Iodomethane	33.4	2.5	ug/l	25.0	ND	134	60-150	4	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	0.4	25	
p-Isopropyltoluene	23.9	0.50	ug/l	25.0	ND	96	70-130	2	30	
Methylene Chloride	23.8	1.0	ug/l	25.0	ND	95	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	17.0	2.5	ug/l	25.0	ND	68	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	9	25	
Naphthalene	20.3	2.5	ug/l	25.0	ND	81	40-150	16	30	
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.1	30	
Styrene	16.5	0.50	ug/l	25.0	ND	66	55-135	19	35	
1,1,1,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125	9	20	
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125	4	25	
Tetrachloroethene	28.8	0.50	ug/l	25.0	1.94	107	65-130	2	25	
Toluene	25.8	0.50	ug/l	25.0	0.370	102	70-125	4	20	
1,2,3-Trichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	50-150	20	35	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	50-150	17	25	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0	ND	92	70-130	2	25	
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	75-125	8	20	
Trichloroethene	56.7	0.50	ug/l	25.0	35.3	86	70-125	0.4	25	
Trichlorofluoromethane	21.1	0.50	ug/l	25.0	0.160	84	65-150	6	25	
1,2,3-Trichloropropane	18.3	1.0	ug/l	25.0	ND	73	70-130	3	25	
1,2,4-Trimethylbenzene	22.4	0.50	ug/l	25.0	ND	90	70-125	3	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	0.3	25	
Vinyl Acetate	17.0	1.0	ug/l	25.0	ND	68	40-150	0.9	30	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140	1	25	
Xylenes, Total	50.6	1.5	ug/l	50.0	ND	101	75-120	7	15	
Freon 113	22.3	2.0	ug/l	25.0	ND	89	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0590 Extracted: 09/16/11										
Blank Analyzed: 09/18/2011 (11I0590-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*18.9*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/18/2011 (11I0590-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.0*		*ug/l*	*20.0*		*100*	*38-125*			
LCS Dup Analyzed: 09/18/2011 (11I0590-BSD1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120	0.2	25	
Surrogate: 1,4-Dioxane-d8	*15.7*		*ug/l*	*20.0*		*79*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.6*		*ug/l*	*20.0*		*103*	*38-125*			
Batch: 11I0614 Extracted: 09/17/11										
Blank Analyzed: 09/19/2011 (11I0614-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*73*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.4*		*ug/l*	*20.0*		*87*	*59.9-120*			
LCS Analyzed: 09/19/2011 (11I0614-BS1)										
1,4-Dioxane	20.5	1.0	ug/l	20.0		103	80-120			
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.3*		*ug/l*	*20.0*		*91*	*38-125*			
LCS Dup Analyzed: 09/19/2011 (11I0614-BSD1)										
1,4-Dioxane	20.3	1.0	ug/l	20.0		102	80-120	0.9	25	
Surrogate: 1,4-Dioxane-d8	*13.6*		*ug/l*	*20.0*		*68*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*15.8*		*ug/l*	*20.0*		*79*	*38-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0614 Extracted: 09/17/11										
Matrix Spike Analyzed: 09/20/2011 (11I0614-MS1)					**Source: PUI0850-03**					
1,4-Dioxane	26.7	1.2	ug/l	24.1	2.31	101	70-130			
Surrogate: 1,4-Dioxane-d8	*17.6*		*ug/l*	*24.1*		*73*	*36-81*			
Surrogate: Nitrobenzene-d5	*21.7*		*ug/l*	*24.1*		*90*	*59-120*			
Matrix Spike Dup Analyzed: 09/20/2011 (11I0614-MSD1)					**Source: PUI0850-03**					
1,4-Dioxane	23.6	1.0	ug/l	21.3	2.31	100	70-130	13	25	
Surrogate: 1,4-Dioxane-d8	*15.3*		*ug/l*	*21.3*		*72*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*21.3*		*92*	*59-120*			

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Project Manager

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Environmental Resources Management Inc.-West	Project ID: 0096498.030	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/14/11
Scottsdale, AZ 85251	Report Number: PUI0849	Received: 09/14/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI0849

Sampled: 09/14/11
Received: 09/14/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[X] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E Indian School Rd STE 100
Scottsdale, AZ 85251

Project/PO Number: 0096498.030

Project Manager: Jason Hilker
Jason.Hilker@ERM.com

Phone Number: @ 480-998-2401

Sampler: Adam Nagh

Fax Number: 480-998-2401

Analysis Required: VOC (8260B), 1,4-Dioxane (8270C)

PVI0849

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)								Special Instructions
003-115-S-091411	WT	40mL / 1L	3 / 2	9/14/11	0910	HCl / -	X	X							-01	Level III
003-5SR-S-091411	WT	40mL / 1L	3 / 2	9/14/11	1051	HCl / -	X	X							-02	Level III

Relinquished By:	Date/Time:	Received By:	Date/Time:
ERM / ERM	9/14/11 1600		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By: R. Johnson	Date/Time: 9-14-11 1600

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X

3.1 / 1.0
2X

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/14/11
Received: 09/14/11
Revised: 11/21/11 15:05

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0850-01	OU3-11M2-M-091411	Water
PUI0850-02	OU3-11M-M-091411	Water
PUI0850-03	OU3-5M2-M-091411	Water
PUI0850-04	OU3-5MR-M-091411	Water
PUI0850-05	OU3-5MR-M-091411-Q1	Water
PUI0850-06	OU3-5DR-D-091411	Water
PUI0850-07	GW-EB1-5-091411	Water
PUI0850-08	GW-L1-5-091411	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030

Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

SAMPLE RECEIPT:	Samples were received intact, at 3°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. S10-Surrogate recovery was above acceptance limits. L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. N1 = Laboratory Control Sample Duplicate recovered low and outside of client acceptance limits for Bromodichloromethane, cis-1,3-Dichloropropene and trans-1,3-Dichloropropene. Recovery was within the laboratory acceptance limits . All associated samples are non-detect for this compound and therefore should not be impacted. N1 = The Laboratory Control Sample recovered below and outside of client acceptance limits but within laboratory acceptance limits for Bromodichloromethane. All associated samples are non-detect for this compound and therefore should not be impacted. N1 = The Laboratory Control Sample / Laboratory Control Sample Duplicate recovered below and outside of client acceptance limits but within laboratory acceptance limits for for trans-1,3-Dichloropropene. All associated samples are non-detect for this compound and therefore should not be impacted.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-01 (OU3-11M2-M-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0850-01 (OU3-11M2-M-091411 - Water) - cont.

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	**0.76**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-02 (OU3-11M-M-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0850-02 (OU3-11M-M-091411 - Water) - cont.

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-03 (OU3-5M2-M-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0730	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Bromoform	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0730	0.50	**0.88**	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0730	0.50	**5.2**	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0730	0.50	**7.9**	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	**14**	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Ethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-03 (OU3-5M2-M-091411 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	L3
Isopropylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	M2
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0730	0.50	**3.2**	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0730	0.50	**4.4**	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0730	0.50	**75**	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0730	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0730	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-04 (OU3-5MR-M-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0730	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Bromoform	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0730	0.50	**1.0**	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0730	0.50	**5.1**	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0730	0.50	**6.7**	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	**10**	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Ethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-04 (OU3-5MR-M-091411 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	L3
Isopropylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0730	0.50	**2.2**	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0730	0.50	**0.74**	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0730	0.50	**52**	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0730	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0730	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*88 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*88 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-05 (OU3-5MR-M-091411-Q1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0730	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Bromoform	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0730	0.50	**1.0**	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0730	0.50	**4.8**	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0730	0.50	**6.7**	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	**9.7**	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Ethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-05 (OU3-5MR-M-091411-Q1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	L3
Isopropylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0730	0.50	**2.0**	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0730	0.50	**0.51**	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0730	0.50	**48**	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0730	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0730	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-06 (OU3-5DR-D-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0730	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0730	0.50	**0.55**	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Bromoform	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Ethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-06 (OU3-5DR-D-091411 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	L3
Isopropylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0730	0.50	**2.0**	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0730	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0730	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*113 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-07 (GW-EB1-5-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0730	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0730	0.50	**3.4**	1	9/20/2011	9/20/2011	N1
Bromoform	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0730	0.50	**6.8**	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0730	0.50	**2.0**	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Ethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI0850-07 (GW-EB1-5-091411 - Water) - cont.

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	L3
Isopropylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0730	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0730	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*95 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*96 %*				

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-08 (GW-L1-5-091411 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0730	10	ND	1	9/20/2011	9/20/2011	
Benzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Bromodichloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Bromoform	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Bromomethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Butanone (MEK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
sec-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
tert-Butylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon disulfide	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Carbon tetrachloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloroethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Chloroform	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Chloromethane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
2-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
4-Chlorotoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromochloromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dibromomethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Dichlorodifluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3-Dichloropropane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
2,2-Dichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	N1
Ethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Hexachlorobutadiene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-08 (GW-L1-5-091411 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Iodomethane	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	L3
Isopropylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
p-Isopropyltoluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Methylene Chloride	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Naphthalene	EPA 8260B	11I0730	2.5	ND	1	9/20/2011	9/20/2011	
n-Propylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Styrene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Tetrachloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Toluene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichloroethene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Trichlorofluoromethane	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Vinyl Acetate	EPA 8260B	11I0730	1.0	ND	1	9/20/2011	9/20/2011	
Vinyl chloride	EPA 8260B	11I0730	0.50	ND	1	9/20/2011	9/20/2011	
Xylenes, Total	EPA 8260B	11I0730	1.5	ND	1	9/20/2011	9/20/2011	
Freon 113	EPA 8260B	11I0730	2.0	ND	1	9/20/2011	9/20/2011	
Surrogate: Dibromofluoromethane (80-130%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*91 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0850-01 (OU3-11M2-M-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	ND	1.06	9/17/2011	9/19/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*66 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*85 %*				
Sample ID: PUI0850-02 (OU3-11M-M-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	**1.1**	1	9/17/2011	9/19/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*63 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*87 %*				
Sample ID: PUI0850-03 (OU3-5M2-M-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	**2.3**	1	9/17/2011	9/19/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*71 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*89 %*				
Sample ID: PUI0850-04 (OU3-5MR-M-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	**2.1**	1	9/17/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*62 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*75 %*				
Sample ID: PUI0850-05 (OU3-5MR-M-091411-Q1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	**2.1**	1	9/17/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*64 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*87 %*				
Sample ID: PUI0850-06 (OU3-5DR-D-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	ND	1	9/17/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*60 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*75 %*				
Sample ID: PUI0850-07 (GW-EB1-5-091411 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0614	1.0	ND	1	9/17/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*63 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*81 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
Acetone	20.5	10	ug/l	25.0		82	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.2	0.50	ug/l	25.0		93	80-125			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	80-120			
Bromoform	23.4	1.0	ug/l	25.0		94	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150			
n-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	23.3	0.50	ug/l	25.0		93	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
Chloroethane	22.0	1.0	ug/l	25.0		88	70-130			
Chloroform	22.2	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.4	1.0	ug/l	25.0		77	60-140			
2-Chlorotoluene	23.7	0.50	ug/l	25.0		95	80-120			
4-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
Dibromochloromethane	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	50-150			
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120			
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	19.3	0.50	ug/l	25.0		77	60-150			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		89	70-125			
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		83	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Hexachlorobutadiene	25.1	1.0	ug/l	25.0		100	40-150			
2-Hexanone	18.7	2.5	ug/l	25.0		75	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	26.4	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	24.8	0.50	ug/l	25.0		99	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0		72	60-135			
Methyl-tert-butyl Ether (MTBE)	19.0	0.50	ug/l	25.0		76	70-130			
Naphthalene	21.9	2.5	ug/l	25.0		88	40-150			
n-Propylbenzene	25.0	0.50	ug/l	25.0		100	75-130			
Styrene	22.4	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0		99	75-125			
1,1,2,2-Tetrachloroethane	22.4	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130			
Toluene	24.4	0.50	ug/l	25.0		97	80-120			
1,2,3-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	50-150			
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Trichloroethene	24.9	0.50	ug/l	25.0		99	80-120			
Trichlorofluoromethane	22.0	0.50	ug/l	25.0		88	70-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	19.7	1.0	ug/l	25.0		79	40-150			
Vinyl chloride	22.6	0.50	ug/l	25.0		91	70-130			
Xylenes, Total	49.8	1.5	ug/l	50.0		100	60-140			
Freon 113	23.3	2.0	ug/l	25.0		93	60-140			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
Acetone	20.4	10	ug/l	25.0		82	10-150	0.4	35	
Benzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120	7	15	
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125	3	15	
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120	6	15	*N1*
Bromoform	21.7	1.0	ug/l	25.0		87	75-130	8	20	
Bromomethane	23.4	1.0	ug/l	25.0		94	55-150	0.9	20	
2-Butanone (MEK)	19.6	2.5	ug/l	25.0		79	40-150	4	35	
n-Butylbenzene	22.9	0.50	ug/l	25.0		92	80-130	5	15	
sec-Butylbenzene	23.8	0.50	ug/l	25.0		95	80-125	6	15	
tert-Butylbenzene	23.2	0.50	ug/l	25.0		93	80-120	7	15	
Carbon disulfide	22.7	0.50	ug/l	25.0		91	70-140	3	15	
Carbon tetrachloride	23.9	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
Chloroethane	20.2	1.0	ug/l	25.0		81	70-130	8	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140	5	20	
2-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
4-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	5	15	
Dibromochloromethane	21.6	0.50	ug/l	25.0		86	80-120	4	15	
1,2-Dibromo-3-chloropropane	19.8	2.5	ug/l	25.0		79	50-150	10	35	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Dibromomethane	22.1	0.50	ug/l	25.0		88	75-120	8	15	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	7	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	8	15	
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
Dichlorodifluoromethane	18.6	0.50	ug/l	25.0		74	60-150	4	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		88	70-125	1	15	
1,2-Dichloroethane	19.5	0.50	ug/l	25.0		78	75-130	6	15	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125	1	20	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	80-120	6	15	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120	0.4	15	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	80-120	5	15	
1,3-Dichloropropane	20.0	0.50	ug/l	25.0		80	80-120	11	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
1,1-Dichloropropene	22.2	0.50	ug/l	25.0		89	75-120	2	15	
cis-1,3-Dichloropropene	19.8	0.50	ug/l	25.0		79	80-120	10	15	*N1*
trans-1,3-Dichloropropene	18.8	0.50	ug/l	25.0		75	80-125	9	15	*N1*
Ethylbenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Hexachlorobutadiene	23.5	1.0	ug/l	25.0		94	40-150	6	35	
2-Hexanone	17.8	2.5	ug/l	25.0		71	20-150	5	35	
Iodomethane	31.4	2.5	ug/l	25.0		126	80-130	2	10	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	80-130	6	15	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0		94	80-130	5	15	
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	16.6	2.5	ug/l	25.0		66	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	4	20	
Naphthalene	20.9	2.5	ug/l	25.0		84	40-150	5	30	
n-Propylbenzene	23.6	0.50	ug/l	25.0		95	75-130	6	15	
Styrene	21.4	0.50	ug/l	25.0		86	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	75-125	3	15	
1,1,2,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	80-120	8	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	20	20	
Toluene	23.3	0.50	ug/l	25.0		93	80-120	4	15	
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150	4	35	
1,2,4-Trichlorobenzene	22.9	1.0	ug/l	25.0		91	50-150	8	30	
1,1,1-Trichloroethane	22.2	0.50	ug/l	25.0		89	75-125	6	15	
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120	11	15	
Trichloroethene	23.3	0.50	ug/l	25.0		93	80-120	6	15	
Trichlorofluoromethane	21.9	0.50	ug/l	25.0		88	70-150	0.6	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0		79	70-130	10	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	80-120	6	15	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-130	7	15	
Vinyl Acetate	18.2	1.0	ug/l	25.0		73	40-150	8	25	
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130	8	20	
Xylenes, Total	48.5	1.5	ug/l	50.0		97	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	3	15	
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
Acetone	13.3	10	ug/l	25.0	ND	53	10-150			
Benzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	21.1	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	19.6	0.50	ug/l	25.0	ND	79	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	16.9	2.5	ug/l	25.0	ND	68	15-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
sec-Butylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140			
Chloroform	22.8	0.50	ug/l	25.0	1.18	86	70-130			
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145			
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dibromo-3-chloropropane	19.6	2.5	ug/l	25.0	ND	79	50-150			
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125			
Dibromomethane	20.3	0.50	ug/l	25.0	ND	81	70-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-125			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	5.41	85	70-130			
1,2-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	65-140			
1,1-Dichloroethene	32.3	0.50	ug/l	25.0	9.41	91	70-130			
cis-1,2-Dichloroethene	27.4	0.50	ug/l	25.0	6.93	82	70-125			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	75-125			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	75-125			
1,3-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
1,1-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	65-130			
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130			
trans-1,3-Dichloropropene	19.2	0.50	ug/l	25.0	ND	77	70-130			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	17.6	1.0	ug/l	25.0	ND	70	40-150			
2-Hexanone	14.8	2.5	ug/l	25.0	ND	59	20-150			
Iodomethane	32.0	2.5	ug/l	25.0	ND	128	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	23.1	1.0	ug/l	25.0	ND	92	65-130			
4-Methyl-2-pentanone (MIBK)	15.8	2.5	ug/l	25.0	ND	63	55-135			
Methyl-tert-butyl Ether (MTBE)	16.8	0.50	ug/l	25.0	ND	67	65-140			
Naphthalene	17.3	2.5	ug/l	25.0	ND	69	40-150			
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	55-135			
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	70-125			
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/l	25.0	ND	82	70-125			
Tetrachloroethene	28.2	0.50	ug/l	25.0	1.94	105	65-130			
Toluene	24.8	0.50	ug/l	25.0	0.370	98	70-125			
1,2,3-Trichlorobenzene	19.9	1.0	ug/l	25.0	ND	80	50-150			
1,2,4-Trichlorobenzene	20.8	1.0	ug/l	25.0	ND	83	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0	ND	83	75-125			
Trichloroethene	56.9	0.50	ug/l	25.0	35.3	87	70-125			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.160	89	65-150			
1,2,3-Trichloropropane	18.9	1.0	ug/l	25.0	ND	76	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125			
1,3,5-Trimethylbenzene	23.6	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	16.8	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	24.6	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
Acetone	19.0	10	ug/l	25.0	ND	76	10-150	35	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	4	25	
Bromobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	4	20	
Bromochloromethane	23.6	0.50	ug/l	25.0	ND	94	75-130	11	20	
Bromodichloromethane	20.7	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	65-125	0.6	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150	10	30	
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	30	
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	2	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	2	25	
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145	8	25	
Carbon tetrachloride	24.0	0.50	ug/l	25.0	ND	96	65-135	2	25	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120	6	20	
Chloroethane	21.6	1.0	ug/l	25.0	ND	86	65-140	5	25	
Chloroform	24.3	0.50	ug/l	25.0	1.18	92	70-130	6	20	
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	55-145	3	35	
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125	0.3	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	0.5	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	8	20	
1,2-Dibromo-3-chloropropane	19.2	2.5	ug/l	25.0	ND	77	50-150	2	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dibromomethane	23.0	0.50	ug/l	25.0	ND	92	70-120	12	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	60-150	13	30	
1,1-Dichloroethane	28.1	0.50	ug/l	25.0	5.41	91	70-130	5	20	
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	65-140	7	20	
1,1-Dichloroethene	31.9	0.50	ug/l	25.0	9.41	90	70-130	1	25	
cis-1,2-Dichloroethene	29.0	0.50	ug/l	25.0	6.93	88	70-125	6	20	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	75-125	3	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	6	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-120	9	20	
2,2-Dichloropropane	21.4	1.0	ug/l	25.0	ND	85	65-140	3	25	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	3	25	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0	ND	89	75-130	10	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	7	20	
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	5	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	36	30	*R4*
2-Hexanone	17.9	2.5	ug/l	25.0	ND	72	20-150	19	30	
Iodomethane	33.4	2.5	ug/l	25.0	ND	134	60-150	4	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	0.4	25	
p-Isopropyltoluene	23.9	0.50	ug/l	25.0	ND	96	70-130	2	30	
Methylene Chloride	23.8	1.0	ug/l	25.0	ND	95	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	17.0	2.5	ug/l	25.0	ND	68	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	9	25	
Naphthalene	20.3	2.5	ug/l	25.0	ND	81	40-150	16	30	
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.1	30	
Styrene	16.5	0.50	ug/l	25.0	ND	66	55-135	19	35	
1,1,1,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125	9	20	
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125	4	25	
Tetrachloroethene	28.8	0.50	ug/l	25.0	1.94	107	65-130	2	25	
Toluene	25.8	0.50	ug/l	25.0	0.370	102	70-125	4	20	
1,2,3-Trichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	50-150	20	35	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	50-150	17	25	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0	ND	92	70-130	2	25	
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	75-125	8	20	
Trichloroethene	56.7	0.50	ug/l	25.0	35.3	86	70-125	0.4	25	
Trichlorofluoromethane	21.1	0.50	ug/l	25.0	0.160	84	65-150	6	25	
1,2,3-Trichloropropane	18.3	1.0	ug/l	25.0	ND	73	70-130	3	25	
1,2,4-Trimethylbenzene	22.4	0.50	ug/l	25.0	ND	90	70-125	3	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	0.3	25	
Vinyl Acetate	17.0	1.0	ug/l	25.0	ND	68	40-150	0.9	30	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140	1	25	
Xylenes, Total	50.6	1.5	ug/l	50.0	ND	101	75-120	7	15	
Freon 113	22.3	2.0	ug/l	25.0	ND	89	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
Blank Analyzed: 09/20/2011 (11I0730-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
Blank Analyzed: 09/20/2011 (11I0730-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*22.9*		*ug/l*	*25.0*		*92*	*80-130*			
Surrogate: Toluene-d8	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
LCS Analyzed: 09/20/2011 (11I0730-BS1)										
Acetone	18.5	10	ug/l	25.0		74	10-150			
Benzene	23.8	0.50	ug/l	25.0		95	80-120			
Bromobenzene	23.9	0.50	ug/l	25.0		96	80-120			
Bromochloromethane	21.8	0.50	ug/l	25.0		87	80-125			
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120			*N1*
Bromoform	21.4	1.0	ug/l	25.0		86	75-130			
Bromomethane	22.2	1.0	ug/l	25.0		89	55-150			
2-Butanone (MEK)	17.7	2.5	ug/l	25.0		71	40-150			
n-Butylbenzene	22.7	0.50	ug/l	25.0		91	80-130			
sec-Butylbenzene	24.0	0.50	ug/l	25.0		96	80-125			
tert-Butylbenzene	23.1	0.50	ug/l	25.0		92	80-120			
Carbon disulfide	22.3	0.50	ug/l	25.0		89	70-140			
Carbon tetrachloride	23.6	0.50	ug/l	25.0		94	75-130			
Chlorobenzene	24.6	0.50	ug/l	25.0		98	80-120			
Chloroethane	19.2	1.0	ug/l	25.0		77	70-130			
Chloroform	20.9	0.50	ug/l	25.0		84	75-120			
Chloromethane	18.1	1.0	ug/l	25.0		72	60-140			
2-Chlorotoluene	22.1	0.50	ug/l	25.0		88	80-120			
4-Chlorotoluene	22.1	0.50	ug/l	25.0		88	80-120			
Dibromochloromethane	21.3	0.50	ug/l	25.0		85	80-120			
1,2-Dibromo-3-chloropropane	18.9	2.5	ug/l	25.0		76	50-150			
1,2-Dibromoethane (EDB)	22.4	0.50	ug/l	25.0		90	80-120			
Dibromomethane	21.0	0.50	ug/l	25.0		84	75-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0		92	80-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	80-120			
1,4-Dichlorobenzene	23.2	0.50	ug/l	25.0		93	80-120			
Dichlorodifluoromethane	18.1	0.50	ug/l	25.0		72	60-150			
1,1-Dichloroethane	21.5	0.50	ug/l	25.0		86	70-125			
1,2-Dichloroethane	19.7	0.50	ug/l	25.0		79	75-130			
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125			
cis-1,2-Dichloroethene	20.5	0.50	ug/l	25.0		82	80-120			
trans-1,2-Dichloroethene	21.5	0.50	ug/l	25.0		86	80-120			
1,2-Dichloropropane	21.5	0.50	ug/l	25.0		86	80-120			
1,3-Dichloropropane	21.5	0.50	ug/l	25.0		86	80-120			
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		82	75-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
LCS Analyzed: 09/20/2011 (11I0730-BS1)										
1,1-Dichloropropene	21.6	0.50	ug/l	25.0		86	75-120			
cis-1,3-Dichloropropene	19.9	0.50	ug/l	25.0		80	80-120			
trans-1,3-Dichloropropene	19.3	0.50	ug/l	25.0		77	80-125			*N1*
Ethylbenzene	23.9	0.50	ug/l	25.0		95	80-120			
Hexachlorobutadiene	23.8	1.0	ug/l	25.0		95	40-150			
2-Hexanone	17.4	2.5	ug/l	25.0		69	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	24.2	0.50	ug/l	25.0		97	80-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0		94	80-130			
Methylene Chloride	22.2	1.0	ug/l	25.0		89	70-120			
4-Methyl-2-pentanone (MIBK)	17.7	2.5	ug/l	25.0		71	60-135			
Methyl-tert-butyl Ether (MTBE)	17.8	0.50	ug/l	25.0		71	70-130			
Naphthalene	20.1	2.5	ug/l	25.0		81	40-150			
n-Propylbenzene	23.3	0.50	ug/l	25.0		93	75-130			
Styrene	21.3	0.50	ug/l	25.0		85	80-120			
1,1,1,2-Tetrachloroethane	23.6	0.50	ug/l	25.0		94	75-125			
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0		85	80-120			
Tetrachloroethene	26.4	0.50	ug/l	25.0		106	70-130			
Toluene	23.3	0.50	ug/l	25.0		93	80-120			
1,2,3-Trichlorobenzene	22.7	1.0	ug/l	25.0		91	55-150			
1,2,4-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	50-150			
1,1,1-Trichloroethane	21.9	0.50	ug/l	25.0		87	75-125			
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120			
Trichloroethene	23.6	0.50	ug/l	25.0		94	80-120			
Trichlorofluoromethane	20.8	0.50	ug/l	25.0		83	70-150			
1,2,3-Trichloropropane	19.3	1.0	ug/l	25.0		77	70-130			
1,2,4-Trimethylbenzene	22.9	0.50	ug/l	25.0		92	80-120			
1,3,5-Trimethylbenzene	23.0	0.50	ug/l	25.0		92	80-130			
Vinyl Acetate	18.1	1.0	ug/l	25.0		72	40-150			
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130			
Xylenes, Total	48.0	1.5	ug/l	50.0		96	60-140			
Freon 113	23.7	2.0	ug/l	25.0		95	60-140			
Surrogate: Dibromofluoromethane	*23.2*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
LCS Dup Analyzed: 09/20/2011 (11I0730-BSD1)										
Acetone	21.2	10	ug/l	25.0		85	10-150	14	35	
Benzene	24.1	0.50	ug/l	25.0		96	80-120	2	15	
Bromobenzene	25.8	0.50	ug/l	25.0		103	80-120	7	15	
Bromochloromethane	23.1	0.50	ug/l	25.0		92	80-125	6	15	
Bromodichloromethane	20.6	0.50	ug/l	25.0		83	80-120	5	15	
Bromoform	23.2	1.0	ug/l	25.0		93	75-130	8	20	
Bromomethane	25.3	1.0	ug/l	25.0		101	55-150	13	20	
2-Butanone (MEK)	21.2	2.5	ug/l	25.0		85	40-150	18	35	
n-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-130	8	15	
sec-Butylbenzene	25.7	0.50	ug/l	25.0		103	80-125	7	15	
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120	7	15	
Carbon disulfide	23.2	0.50	ug/l	25.0		93	70-140	4	15	
Carbon tetrachloride	24.7	0.50	ug/l	25.0		99	75-130	5	20	
Chlorobenzene	26.8	0.50	ug/l	25.0		107	80-120	9	15	
Chloroethane	21.7	1.0	ug/l	25.0		87	70-130	12	15	
Chloroform	22.3	0.50	ug/l	25.0		89	75-120	6	15	
Chloromethane	19.2	1.0	ug/l	25.0		77	60-140	6	20	
2-Chlorotoluene	23.8	0.50	ug/l	25.0		95	80-120	7	15	
4-Chlorotoluene	24.1	0.50	ug/l	25.0		96	80-120	9	15	
Dibromochloromethane	23.3	0.50	ug/l	25.0		93	80-120	9	15	
1,2-Dibromo-3-chloropropane	20.5	2.5	ug/l	25.0		82	50-150	8	35	
1,2-Dibromoethane (EDB)	24.3	0.50	ug/l	25.0		97	80-120	8	15	
Dibromomethane	21.7	0.50	ug/l	25.0		87	75-120	3	15	
1,2-Dichlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	10	15	
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120	9	15	
1,4-Dichlorobenzene	25.6	0.50	ug/l	25.0		103	80-120	10	15	
Dichlorodifluoromethane	19.2	0.50	ug/l	25.0		77	60-150	6	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		89	70-125	3	15	
1,2-Dichloroethane	19.9	0.50	ug/l	25.0		80	75-130	1	15	
1,1-Dichloroethene	24.2	0.50	ug/l	25.0		97	75-125	3	20	
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120	6	15	
trans-1,2-Dichloroethene	22.8	0.50	ug/l	25.0		91	80-120	6	15	
1,2-Dichloropropane	21.9	0.50	ug/l	25.0		88	80-120	2	15	
1,3-Dichloropropane	22.9	0.50	ug/l	25.0		92	80-120	6	15	
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130	2	15	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
LCS Dup Analyzed: 09/20/2011 (11I0730-BSD1)										
1,1-Dichloropropene	22.5	0.50	ug/l	25.0		90	75-120	4	15	
cis-1,3-Dichloropropene	20.3	0.50	ug/l	25.0		81	80-120	2	15	
trans-1,3-Dichloropropene	19.6	0.50	ug/l	25.0		78	80-125	2	15	*N1*
Ethylbenzene	26.1	0.50	ug/l	25.0		104	80-120	9	15	
Hexachlorobutadiene	26.0	1.0	ug/l	25.0		104	40-150	9	35	
2-Hexanone	18.8	2.5	ug/l	25.0		75	20-150	8	35	
Iodomethane	33.5	2.5	ug/l	25.0		134	80-130	9	10	*L3*
Isopropylbenzene	26.6	0.50	ug/l	25.0		107	80-130	10	15	
p-Isopropyltoluene	25.1	0.50	ug/l	25.0		100	80-130	7	15	
Methylene Chloride	23.1	1.0	ug/l	25.0		92	70-120	4	15	
4-Methyl-2-pentanone (MIBK)	17.6	2.5	ug/l	25.0		70	60-135	0.7	25	
Methyl-tert-butyl Ether (MTBE)	18.6	0.50	ug/l	25.0		74	70-130	4	20	
Naphthalene	22.2	2.5	ug/l	25.0		89	40-150	10	30	
n-Propylbenzene	25.7	0.50	ug/l	25.0		103	75-130	10	15	
Styrene	22.8	0.50	ug/l	25.0		91	80-120	7	15	
1,1,1,2-Tetrachloroethane	25.0	0.50	ug/l	25.0		100	75-125	6	15	
1,1,2,2-Tetrachloroethane	22.5	0.50	ug/l	25.0		90	80-120	5	20	
Tetrachloroethene	28.5	0.50	ug/l	25.0		114	70-130	7	20	
Toluene	25.0	0.50	ug/l	25.0		100	80-120	7	15	
1,2,3-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	55-150	9	35	
1,2,4-Trichlorobenzene	25.1	1.0	ug/l	25.0		101	50-150	7	30	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0		92	75-125	5	15	
1,1,2-Trichloroethane	21.7	0.50	ug/l	25.0		87	80-120	5	15	
Trichloroethene	24.0	0.50	ug/l	25.0		96	80-120	2	15	
Trichlorofluoromethane	22.5	0.50	ug/l	25.0		90	70-150	8	25	
1,2,3-Trichloropropane	21.5	1.0	ug/l	25.0		86	70-130	11	20	
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120	7	15	
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130	8	15	
Vinyl Acetate	18.9	1.0	ug/l	25.0		76	40-150	4	25	
Vinyl chloride	22.7	0.50	ug/l	25.0		91	70-130	8	20	
Xylenes, Total	51.8	1.5	ug/l	50.0		104	60-140	7	15	
Freon 113	25.1	2.0	ug/l	25.0		101	60-140	6	15	
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*		*ug/l*	*25.0*		*99*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
Matrix Spike Analyzed: 09/20/2011 (11I0730-MS1)					**Source: PUI0850-03**					
Acetone	18.9	10	ug/l	25.0	ND	75	10-150			
Benzene	27.0	0.50	ug/l	25.0	0.140	107	70-125			
Bromobenzene	27.9	0.50	ug/l	25.0	ND	112	75-120			
Bromochloromethane	26.0	0.50	ug/l	25.0	ND	104	75-130			
Bromodichloromethane	23.2	0.50	ug/l	25.0	ND	93	75-125			
Bromoform	25.4	1.0	ug/l	25.0	ND	102	65-125			
Bromomethane	26.8	1.0	ug/l	25.0	ND	107	45-150			
2-Butanone (MEK)	22.8	2.5	ug/l	25.0	ND	91	15-150			
n-Butylbenzene	25.9	0.50	ug/l	25.0	ND	104	70-130			
sec-Butylbenzene	27.6	0.50	ug/l	25.0	ND	110	70-125			
tert-Butylbenzene	27.0	0.50	ug/l	25.0	ND	108	70-125			
Carbon disulfide	25.3	0.50	ug/l	25.0	ND	101	65-145			
Carbon tetrachloride	26.1	0.50	ug/l	25.0	ND	104	65-135			
Chlorobenzene	29.3	0.50	ug/l	25.0	ND	117	75-120			
Chloroethane	23.2	1.0	ug/l	25.0	ND	93	65-140			
Chloroform	26.1	0.50	ug/l	25.0	0.880	101	70-130			
Chloromethane	20.3	1.0	ug/l	25.0	ND	81	55-145			
2-Chlorotoluene	26.1	0.50	ug/l	25.0	ND	105	70-125			
4-Chlorotoluene	26.2	0.50	ug/l	25.0	ND	105	70-125			
Dibromochloromethane	25.6	0.50	ug/l	25.0	ND	102	70-130			
1,2-Dibromo-3-chloropropane	21.9	2.5	ug/l	25.0	ND	88	50-150			
1,2-Dibromoethane (EDB)	26.9	0.50	ug/l	25.0	ND	108	70-125			
Dibromomethane	25.1	0.50	ug/l	25.0	ND	100	70-120			
1,2-Dichlorobenzene	27.3	0.50	ug/l	25.0	ND	109	75-120			
1,3-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	110	75-120			
1,4-Dichlorobenzene	27.6	0.50	ug/l	25.0	ND	110	70-125			
Dichlorodifluoromethane	17.9	0.50	ug/l	25.0	ND	72	60-150			
1,1-Dichloroethane	30.8	0.50	ug/l	25.0	5.22	102	70-130			
1,2-Dichloroethane	22.8	0.50	ug/l	25.0	ND	91	65-140			
1,1-Dichloroethene	34.7	0.50	ug/l	25.0	7.91	107	70-130			
cis-1,2-Dichloroethene	38.4	0.50	ug/l	25.0	13.5	100	70-125			
trans-1,2-Dichloroethene	25.0	0.50	ug/l	25.0	ND	100	75-125			
1,2-Dichloropropane	25.6	0.50	ug/l	25.0	ND	102	75-125			
1,3-Dichloropropane	25.5	0.50	ug/l	25.0	ND	102	70-120			
2,2-Dichloropropane	22.8	1.0	ug/l	25.0	ND	91	65-140			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
Matrix Spike Analyzed: 09/20/2011 (11I0730-MS1)					**Source: PUI0850-03**					
1,1-Dichloropropene	24.1	0.50	ug/l	25.0	ND	97	65-130			
cis-1,3-Dichloropropene	24.0	0.50	ug/l	25.0	ND	96	75-130			
trans-1,3-Dichloropropene	23.2	0.50	ug/l	25.0	ND	93	70-130			
Ethylbenzene	28.9	0.50	ug/l	25.0	ND	115	70-125			
Hexachlorobutadiene	27.0	1.0	ug/l	25.0	ND	108	40-150			
2-Hexanone	19.7	2.5	ug/l	25.0	ND	79	20-150			
Iodomethane	34.9	2.5	ug/l	25.0	ND	139	60-150			
Isopropylbenzene	29.0	0.50	ug/l	25.0	ND	116	75-130			
p-Isopropyltoluene	27.0	0.50	ug/l	25.0	ND	108	70-130			
Methylene Chloride	25.5	1.0	ug/l	25.0	ND	102	65-130			
4-Methyl-2-pentanone (MIBK)	20.2	2.5	ug/l	25.0	ND	81	55-135			
Methyl-tert-butyl Ether (MTBE)	20.5	0.50	ug/l	25.0	ND	82	65-140			
Naphthalene	21.6	2.5	ug/l	25.0	ND	87	40-150			
n-Propylbenzene	27.3	0.50	ug/l	25.0	ND	109	70-130			
Styrene	14.6	0.50	ug/l	25.0	ND	58	55-135			
1,1,1,2-Tetrachloroethane	28.3	0.50	ug/l	25.0	ND	113	70-125			
1,1,2,2-Tetrachloroethane	24.3	0.50	ug/l	25.0	ND	97	70-125			
Tetrachloroethene	34.6	0.50	ug/l	25.0	3.22	126	65-130			
Toluene	32.6	0.50	ug/l	25.0	4.42	113	70-125			
1,2,3-Trichlorobenzene	27.1	1.0	ug/l	25.0	ND	108	50-150			
1,2,4-Trichlorobenzene	26.1	1.0	ug/l	25.0	ND	105	50-150			
1,1,1-Trichloroethane	25.0	0.50	ug/l	25.0	ND	100	70-130			
1,1,2-Trichloroethane	23.9	0.50	ug/l	25.0	ND	96	75-125			
Trichloroethene	109	0.50	ug/l	25.0	75.2	137	70-125			*M3*
Trichlorofluoromethane	23.4	0.50	ug/l	25.0	0.450	92	65-150			
1,2,3-Trichloropropane	22.1	1.0	ug/l	25.0	ND	88	70-130			
1,2,4-Trimethylbenzene	26.4	0.50	ug/l	25.0	ND	106	70-125			
1,3,5-Trimethylbenzene	27.1	0.50	ug/l	25.0	ND	108	75-130			
Vinyl Acetate	15.5	1.0	ug/l	25.0	ND	62	40-150			
Vinyl chloride	23.2	0.50	ug/l	25.0	ND	93	60-140			
Xylenes, Total	57.3	1.5	ug/l	50.0	ND	115	75-120			
Freon 113	24.7	2.0	ug/l	25.0	0.300	98	65-140			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
Matrix Spike Dup Analyzed: 09/20/2011 (11I0730-MSD1)					**Source: PUI0850-03**					
Acetone	25.3	10	ug/l	25.0	ND	101	10-150	29	35	
Benzene	25.4	0.50	ug/l	25.0	0.140	101	70-125	6	25	
Bromobenzene	25.6	0.50	ug/l	25.0	ND	102	75-120	9	20	
Bromochloromethane	29.0	0.50	ug/l	25.0	ND	116	75-130	11	20	
Bromodichloromethane	23.7	0.50	ug/l	25.0	ND	95	75-125	2	20	
Bromoform	24.6	1.0	ug/l	25.0	ND	98	65-125	3	25	
Bromomethane	27.7	1.0	ug/l	25.0	ND	111	45-150	3	35	
2-Butanone (MEK)	28.1	2.5	ug/l	25.0	ND	113	15-150	21	30	
n-Butylbenzene	20.9	0.50	ug/l	25.0	ND	84	70-130	22	30	
sec-Butylbenzene	21.6	0.50	ug/l	25.0	ND	86	70-125	24	30	
tert-Butylbenzene	21.8	0.50	ug/l	25.0	ND	87	70-125	21	25	
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145	9	25	
Carbon tetrachloride	22.0	0.50	ug/l	25.0	ND	88	65-135	17	25	
Chlorobenzene	27.6	0.50	ug/l	25.0	ND	110	75-120	6	20	
Chloroethane	21.2	1.0	ug/l	25.0	ND	85	65-140	9	25	
Chloroform	27.5	0.50	ug/l	25.0	0.880	107	70-130	5	20	
Chloromethane	19.4	1.0	ug/l	25.0	ND	78	55-145	5	35	
2-Chlorotoluene	22.4	0.50	ug/l	25.0	ND	90	70-125	15	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	13	25	
Dibromochloromethane	25.7	0.50	ug/l	25.0	ND	103	70-130	0.4	20	
1,2-Dibromo-3-chloropropane	19.3	2.5	ug/l	25.0	ND	77	50-150	13	30	
1,2-Dibromoethane (EDB)	27.8	0.50	ug/l	25.0	ND	111	70-125	3	20	
Dibromomethane	26.2	0.50	ug/l	25.0	ND	105	70-120	4	20	
1,2-Dichlorobenzene	25.5	0.50	ug/l	25.0	ND	102	75-120	7	20	
1,3-Dichlorobenzene	25.4	0.50	ug/l	25.0	ND	102	75-120	7	25	
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0	ND	102	70-125	8	20	
Dichlorodifluoromethane	15.4	0.50	ug/l	25.0	ND	62	60-150	15	30	
1,1-Dichloroethane	30.8	0.50	ug/l	25.0	5.22	102	70-130	0.1	20	
1,2-Dichloroethane	27.4	0.50	ug/l	25.0	ND	110	65-140	18	20	
1,1-Dichloroethene	30.5	0.50	ug/l	25.0	7.91	90	70-130	13	25	
cis-1,2-Dichloroethene	39.3	0.50	ug/l	25.0	13.5	103	70-125	2	20	
trans-1,2-Dichloroethene	24.7	0.50	ug/l	25.0	ND	99	75-125	2	25	
1,2-Dichloropropane	25.0	0.50	ug/l	25.0	ND	100	75-125	2	20	
1,3-Dichloropropane	27.8	0.50	ug/l	25.0	ND	111	70-120	8	20	
2,2-Dichloropropane	21.0	1.0	ug/l	25.0	ND	84	65-140	8	25	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0730 Extracted: 09/20/11										
Matrix Spike Dup Analyzed: 09/20/2011 (11I0730-MSD1)					**Source: PUI0850-03**					
1,1-Dichloropropene	19.6	0.50	ug/l	25.0	ND	78	65-130	21	25	
cis-1,3-Dichloropropene	24.6	0.50	ug/l	25.0	ND	98	75-130	2	20	
trans-1,3-Dichloropropene	23.9	0.50	ug/l	25.0	ND	96	70-130	3	20	
Ethylbenzene	25.3	0.50	ug/l	25.0	ND	101	70-125	13	25	
Hexachlorobutadiene	22.0	1.0	ug/l	25.0	ND	88	40-150	21	30	
2-Hexanone	20.0	2.5	ug/l	25.0	ND	80	20-150	1	30	
Iodomethane	37.2	2.5	ug/l	25.0	ND	149	60-150	7	30	
Isopropylbenzene	23.2	0.50	ug/l	25.0	ND	93	75-130	22	25	
p-Isopropyltoluene	21.8	0.50	ug/l	25.0	ND	87	70-130	21	30	
Methylene Chloride	29.5	1.0	ug/l	25.0	ND	118	65-130	15	20	
4-Methyl-2-pentanone (MIBK)	21.9	2.5	ug/l	25.0	ND	88	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	25.0	0.50	ug/l	25.0	ND	100	65-140	20	25	
Naphthalene	23.0	2.5	ug/l	25.0	ND	92	40-150	6	30	
n-Propylbenzene	22.0	0.50	ug/l	25.0	ND	88	70-130	21	30	
Styrene	10.2	0.50	ug/l	25.0	ND	41	55-135	35	35	*M2*
1,1,1,2-Tetrachloroethane	27.0	0.50	ug/l	25.0	ND	108	70-125	5	20	
1,1,2,2-Tetrachloroethane	24.3	0.50	ug/l	25.0	ND	97	70-125	0.1	25	
Tetrachloroethene	27.7	0.50	ug/l	25.0	3.22	98	65-130	22	25	
Toluene	29.4	0.50	ug/l	25.0	4.42	100	70-125	10	20	
1,2,3-Trichlorobenzene	25.9	1.0	ug/l	25.0	ND	104	50-150	4	35	
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150	0.5	25	
1,1,1-Trichloroethane	23.4	0.50	ug/l	25.0	ND	93	70-130	7	25	
1,1,2-Trichloroethane	27.3	0.50	ug/l	25.0	ND	109	75-125	13	20	
Trichloroethene	90.0	0.50	ug/l	25.0	75.2	59	70-125	19	25	*M3*
Trichlorofluoromethane	20.3	0.50	ug/l	25.0	0.450	79	65-150	14	25	
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0	ND	90	70-130	1	25	
1,2,4-Trimethylbenzene	22.3	0.50	ug/l	25.0	ND	89	70-125	17	30	
1,3,5-Trimethylbenzene	22.6	0.50	ug/l	25.0	ND	91	75-130	18	25	
Vinyl Acetate	17.7	1.0	ug/l	25.0	ND	71	40-150	13	30	
Vinyl chloride	20.8	0.50	ug/l	25.0	ND	83	60-140	11	25	
Xylenes, Total	50.5	1.5	ug/l	50.0	ND	101	75-120	13	15	
Freon 113	21.6	2.0	ug/l	25.0	0.300	85	65-140	14	20	
Surrogate: Dibromofluoromethane	*28.9*		*ug/l*	*25.0*		*116*	*80-130*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/l*	*25.0*		*103*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0614 Extracted: 09/17/11										
Blank Analyzed: 09/19/2011 (11I0614-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*73*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.4*		*ug/l*	*20.0*		*87*	*59.9-120*			
LCS Analyzed: 09/19/2011 (11I0614-BS1)										
1,4-Dioxane	20.5	1.0	ug/l	20.0		103	80-120			
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.3*		*ug/l*	*20.0*		*91*	*38-125*			
LCS Dup Analyzed: 09/19/2011 (11I0614-BSD1)										
1,4-Dioxane	20.3	1.0	ug/l	20.0		102	80-120	0.9	25	
Surrogate: 1,4-Dioxane-d8	*13.6*		*ug/l*	*20.0*		*68*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*15.8*		*ug/l*	*20.0*		*79*	*38-125*			
Matrix Spike Analyzed: 09/20/2011 (11I0614-MS1)					**Source: PUI0850-03**					
1,4-Dioxane	26.7	1.2	ug/l	24.1	2.31	101	70-130			
Surrogate: 1,4-Dioxane-d8	*17.6*		*ug/l*	*24.1*		*73*	*36-81*			
Surrogate: Nitrobenzene-d5	*21.7*		*ug/l*	*24.1*		*90*	*59-120*			
Matrix Spike Dup Analyzed: 09/20/2011 (11I0614-MSD1)					**Source: PUI0850-03**					
1,4-Dioxane	23.6	1.0	ug/l	21.3	2.31	100	70-130	13	25	
Surrogate: 1,4-Dioxane-d8	*15.3*		*ug/l*	*21.3*		*72*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*21.3*		*92*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3 0096498.030	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/14/11
Scottsdale, AZ 85251	Report Number: PUI0850	Received: 09/14/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
N1	See case narrative.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0850

Sampled: 09/14/11
Received: 09/14/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[X] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E Indian School Rd #100
Scottsdale, AZ 85251

Project/PO Number: OU3 0096498.030

Project Manager: jason.hilker@erm.com

Phone Number: 480-998-2401

Sampler: Adam Nagle

Fax Number:

Analysis Required: PUI0850

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC 8260B	~~SVOC~~ 1,4-Dioxane 8270C	MS/MSD							Special Instructions
OU3-11M2-M-091411	WT	3x40mL / 2x1L	5	9/14	0718	HCl / —	X	X								-01
OU3-11M-M-091411			5	9/14	0822		X	X								-02
OU3-5M2-M-091411			5	9/14	1139		X	X								-03
OU3-5M2-M-091411-MSMSD		3x40mL / 4x1L	7	9/14	1139		X	X	X							~~-04~~
OU3-5MR-M-091411		3x40mL / 2x1L	5	9/14	1253		X	X								-04
OU3-5MR-M-091411-Q1			5	9/14	1253		X	X								-05
OU3-5DR-D-091411			5	9/14	1406		X	X								-06
GW-EB1-5-091411			5	9/14	1407		X	X								-07
GW-L1-5-091411		1x40mL	1	9/14	—	HCl	X									Trip Blank -08

Relinquished By:	Date/Time:	Received By:	Date/Time:
ERM / ERM	9/14 1600		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:
		[signature]	9-14-11 1600

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3.1 / 1.0
2X

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/15/11
Received: 09/15/11
Revised: 11/21/11 09:58

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0947-01	OU3-13D-D-091511	Water
PUI0947-02	OU3-2M-M-091511	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
R1-The RPD exceeded the acceptance limit.
S10-Surrogate recovery was above acceptance limits.
N1 = The Laboratory Control Sample recovered below and outside of client acceptance limits but within laboratory acceptance limits for for Cis-1,3-Dichloropropene. All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0947-01 (OU3-13D-D-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0947-01 (OU3-13D-D-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	**3.0**	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*88 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0947-02 (OU3-2M-M-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	**0.83**	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	**3.4**	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	**5.6**	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	**5.5**	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0947-02 (OU3-2M-M-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	**1.1**	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	**26**	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*94 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*89 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0947-01 (OU3-13D-D-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	ND	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*68 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*81 %*				
Sample ID: PUI0947-02 (OU3-2M-M-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	**1.8**	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*75 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*90 %*				

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Blank Analyzed: 09/21/2011 (11I0768-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Blank Analyzed: 09/21/2011 (11I0768-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*		*ug/l*	*25.0*		*88*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Report Number: PUI0947

Sampled: 09/15/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Analyzed: 09/21/2011 (11I0768-BS1)										
Acetone	24.6	10	ug/l	25.0		98	10-150			
Benzene	23.5	0.50	ug/l	25.0		94	80-120			
Bromobenzene	22.8	0.50	ug/l	25.0		91	80-120			
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125			
Bromodichloromethane	20.0	0.50	ug/l	25.0		80	80-120			
Bromoform	21.8	1.0	ug/l	25.0		87	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		94	55-150			
2-Butanone (MEK)	21.3	2.5	ug/l	25.0		85	40-150			
n-Butylbenzene	20.7	0.50	ug/l	25.0		83	80-130			
sec-Butylbenzene	22.0	0.50	ug/l	25.0		88	80-125			
tert-Butylbenzene	21.2	0.50	ug/l	25.0		85	80-120			
Carbon disulfide	21.9	0.50	ug/l	25.0		88	70-140			
Carbon tetrachloride	22.5	0.50	ug/l	25.0		90	75-130			
Chlorobenzene	23.8	0.50	ug/l	25.0		95	80-120			
Chloroethane	20.9	1.0	ug/l	25.0		83	70-130			
Chloroform	21.6	0.50	ug/l	25.0		87	75-120			
Chloromethane	17.6	1.0	ug/l	25.0		70	60-140			
2-Chlorotoluene	21.1	0.50	ug/l	25.0		85	80-120			
4-Chlorotoluene	21.2	0.50	ug/l	25.0		85	80-120			
Dibromochloromethane	21.0	0.50	ug/l	25.0		84	80-120			
1,2-Dibromo-3-chloropropane	21.1	2.5	ug/l	25.0		84	50-150			
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120			
Dibromomethane	21.8	0.50	ug/l	25.0		87	75-120			
1,2-Dichlorobenzene	22.7	0.50	ug/l	25.0		91	80-120			
1,3-Dichlorobenzene	22.7	0.50	ug/l	25.0		91	80-120			
1,4-Dichlorobenzene	22.6	0.50	ug/l	25.0		91	80-120			
Dichlorodifluoromethane	17.5	0.50	ug/l	25.0		70	60-150			
1,1-Dichloroethane	21.4	0.50	ug/l	25.0		86	70-125			
1,2-Dichloroethane	20.0	0.50	ug/l	25.0		80	75-130			
1,1-Dichloroethene	22.7	0.50	ug/l	25.0		91	75-125			
cis-1,2-Dichloroethene	21.0	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	80-120			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0		86	80-120			
1,3-Dichloropropane	22.0	0.50	ug/l	25.0		88	80-120			
2,2-Dichloropropane	19.7	1.0	ug/l	25.0		79	75-130			

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Analyzed: 09/21/2011 (11I0768-BS1)										
1,1-Dichloropropene	21.1	0.50	ug/l	25.0		84	75-120			
cis-1,3-Dichloropropene	19.5	0.50	ug/l	25.0		78	80-120			*N1*
trans-1,3-Dichloropropene	20.2	0.50	ug/l	25.0		81	80-125			
Ethylbenzene	22.9	0.50	ug/l	25.0		92	80-120			
Hexachlorobutadiene	22.7	1.0	ug/l	25.0		91	40-150			
2-Hexanone	18.5	2.5	ug/l	25.0		74	20-150			
Iodomethane	31.1	2.5	ug/l	25.0		124	80-130			
Isopropylbenzene	23.0	0.50	ug/l	25.0		92	80-130			
p-Isopropyltoluene	21.7	0.50	ug/l	25.0		87	80-130			
Methylene Chloride	23.1	1.0	ug/l	25.0		92	70-120			
4-Methyl-2-pentanone (MIBK)	18.9	2.5	ug/l	25.0		76	60-135			
Methyl-tert-butyl Ether (MTBE)	18.9	0.50	ug/l	25.0		76	70-130			
Naphthalene	20.9	2.5	ug/l	25.0		83	40-150			
n-Propylbenzene	21.7	0.50	ug/l	25.0		87	75-130			
Styrene	20.3	0.50	ug/l	25.0		81	80-120			
1,1,1,2-Tetrachloroethane	23.2	0.50	ug/l	25.0		93	75-125			
1,1,2,2-Tetrachloroethane	22.6	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	24.1	0.50	ug/l	25.0		96	70-130			
Toluene	23.1	0.50	ug/l	25.0		92	80-120			
1,2,3-Trichlorobenzene	22.5	1.0	ug/l	25.0		90	55-150			
1,2,4-Trichlorobenzene	22.0	1.0	ug/l	25.0		88	50-150			
1,1,1-Trichloroethane	21.7	0.50	ug/l	25.0		87	75-125			
1,1,2-Trichloroethane	22.8	0.50	ug/l	25.0		91	80-120			
Trichloroethene	22.1	0.50	ug/l	25.0		89	80-120			
Trichlorofluoromethane	21.3	0.50	ug/l	25.0		85	70-150			
1,2,3-Trichloropropane	19.5	1.0	ug/l	25.0		78	70-130			
1,2,4-Trimethylbenzene	21.4	0.50	ug/l	25.0		86	80-120			
1,3,5-Trimethylbenzene	21.8	0.50	ug/l	25.0		87	80-130			
Vinyl Acetate	19.3	1.0	ug/l	25.0		77	40-150			
Vinyl chloride	21.1	0.50	ug/l	25.0		85	70-130			
Xylenes, Total	45.2	1.5	ug/l	50.0		90	60-140			
Freon 113	23.1	2.0	ug/l	25.0		92	60-140			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*92*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Dup Analyzed: 09/21/2011 (11I0768-BSD1)										
Acetone	26.2	10	ug/l	25.0		105	10-150	6	35	
Benzene	27.6	0.50	ug/l	25.0		110	80-120	16	15	*R6*
Bromobenzene	29.4	0.50	ug/l	25.0		118	80-120	25	15	*R6*
Bromochloromethane	26.6	0.50	ug/l	25.0		106	80-125	17	15	*R6*
Bromodichloromethane	23.9	0.50	ug/l	25.0		95	80-120	18	15	*R6*
Bromoform	28.9	1.0	ug/l	25.0		116	75-130	28	20	*R6*
Bromomethane	28.0	1.0	ug/l	25.0		112	55-150	17	20	
2-Butanone (MEK)	26.1	2.5	ug/l	25.0		105	40-150	20	35	
n-Butylbenzene	26.4	0.50	ug/l	25.0		106	80-130	24	15	*R6*
sec-Butylbenzene	28.1	0.50	ug/l	25.0		112	80-125	24	15	*R6*
tert-Butylbenzene	27.5	0.50	ug/l	25.0		110	80-120	26	15	*R6*
Carbon disulfide	26.3	0.50	ug/l	25.0		105	70-140	18	15	*R6*
Carbon tetrachloride	27.8	0.50	ug/l	25.0		111	75-130	21	20	*R6*
Chlorobenzene	30.2	0.50	ug/l	25.0		121	80-120	24	15	*L3, R1*
Chloroethane	23.1	1.0	ug/l	25.0		92	70-130	10	15	
Chloroform	25.5	0.50	ug/l	25.0		102	75-120	16	15	*R6*
Chloromethane	20.9	1.0	ug/l	25.0		84	60-140	17	20	
2-Chlorotoluene	26.5	0.50	ug/l	25.0		106	80-120	23	15	*R6*
4-Chlorotoluene	26.8	0.50	ug/l	25.0		107	80-120	23	15	*R6*
Dibromochloromethane	27.3	0.50	ug/l	25.0		109	80-120	26	15	*R6*
1,2-Dibromo-3-chloropropane	25.0	2.5	ug/l	25.0		100	50-150	17	35	
1,2-Dibromoethane (EDB)	29.1	0.50	ug/l	25.0		116	80-120	25	15	*R6*
Dibromomethane	27.5	0.50	ug/l	25.0		110	75-120	23	15	*R6*
1,2-Dichlorobenzene	29.0	0.50	ug/l	25.0		116	80-120	24	15	*R6*
1,3-Dichlorobenzene	29.2	0.50	ug/l	25.0		117	80-120	25	15	*R6*
1,4-Dichlorobenzene	29.0	0.50	ug/l	25.0		116	80-120	25	15	*R6*
Dichlorodifluoromethane	21.0	0.50	ug/l	25.0		84	60-150	18	30	
1,1-Dichloroethane	25.6	0.50	ug/l	25.0		102	70-125	18	15	*R6*
1,2-Dichloroethane	24.2	0.50	ug/l	25.0		97	75-130	19	15	*R6*
1,1-Dichloroethene	27.8	0.50	ug/l	25.0		111	75-125	20	20	
cis-1,2-Dichloroethene	24.4	0.50	ug/l	25.0		98	80-120	15	15	
trans-1,2-Dichloroethene	25.8	0.50	ug/l	25.0		103	80-120	15	15	
1,2-Dichloropropane	25.8	0.50	ug/l	25.0		103	80-120	19	15	*R6*
1,3-Dichloropropane	26.2	0.50	ug/l	25.0		105	80-120	17	15	*R6*
2,2-Dichloropropane	23.9	1.0	ug/l	25.0		95	75-130	19	15	*R6*

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Dup Analyzed: 09/21/2011 (11I0768-BSD1)										
1,1-Dichloropropene	25.2	0.50	ug/l	25.0		101	75-120	18	15	*R6*
cis-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-120	21	15	*R1*
trans-1,3-Dichloropropene	23.3	0.50	ug/l	25.0		93	80-125	14	15	
Ethylbenzene	29.2	0.50	ug/l	25.0		117	80-120	24	15	*R6*
Hexachlorobutadiene	28.3	1.0	ug/l	25.0		113	40-150	22	35	
2-Hexanone	23.3	2.5	ug/l	25.0		93	20-150	23	35	
Iodomethane	36.6	2.5	ug/l	25.0		146	80-130	16	10	*L3, R1*
Isopropylbenzene	29.4	0.50	ug/l	25.0		118	80-130	25	15	*R6*
p-Isopropyltoluene	27.7	0.50	ug/l	25.0		111	80-130	24	15	*R6*
Methylene Chloride	27.3	1.0	ug/l	25.0		109	70-120	17	15	*R6*
4-Methyl-2-pentanone (MIBK)	21.9	2.5	ug/l	25.0		88	60-135	15	25	
Methyl-tert-butyl Ether (MTBE)	23.1	0.50	ug/l	25.0		92	70-130	20	20	
Naphthalene	26.6	2.5	ug/l	25.0		107	40-150	24	30	
n-Propylbenzene	28.2	0.50	ug/l	25.0		113	75-130	26	15	*R6*
Styrene	26.0	0.50	ug/l	25.0		104	80-120	25	15	*R6*
1,1,1,2-Tetrachloroethane	28.3	0.50	ug/l	25.0		113	75-125	20	15	*R6*
1,1,2,2-Tetrachloroethane	27.6	0.50	ug/l	25.0		110	80-120	20	20	
Tetrachloroethene	31.7	0.50	ug/l	25.0		127	70-130	28	20	*R6*
Toluene	26.3	0.50	ug/l	25.0		105	80-120	13	15	
1,2,3-Trichlorobenzene	29.2	1.0	ug/l	25.0		117	55-150	26	35	
1,2,4-Trichlorobenzene	28.9	1.0	ug/l	25.0		116	50-150	27	30	
1,1,1-Trichloroethane	26.0	0.50	ug/l	25.0		104	75-125	18	15	*R6*
1,1,2-Trichloroethane	25.1	0.50	ug/l	25.0		101	80-120	10	15	
Trichloroethene	27.8	0.50	ug/l	25.0		111	80-120	23	15	*R6*
Trichlorofluoromethane	25.6	0.50	ug/l	25.0		102	70-150	18	25	
1,2,3-Trichloropropane	25.9	1.0	ug/l	25.0		104	70-130	28	20	*R6*
1,2,4-Trimethylbenzene	27.3	0.50	ug/l	25.0		109	80-120	24	15	*R6*
1,3,5-Trimethylbenzene	27.8	0.50	ug/l	25.0		111	80-130	24	15	*R6*
Vinyl Acetate	23.4	1.0	ug/l	25.0		94	40-150	19	25	
Vinyl chloride	24.8	0.50	ug/l	25.0		99	70-130	16	20	
Xylenes, Total	57.9	1.5	ug/l	50.0		116	60-140	25	15	*R6*
Freon 113	28.7	2.0	ug/l	25.0		115	60-140	22	15	*R6*
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Analyzed: 09/21/2011 (11I0768-MS1)					**Source: PUI0949-03**					
Acetone	18.2	10	ug/l	25.0	ND	73	10-150			
Benzene	26.6	0.50	ug/l	25.0	0.190	106	70-125			
Bromobenzene	27.4	0.50	ug/l	25.0	ND	109	75-120			
Bromochloromethane	25.5	0.50	ug/l	25.0	ND	102	75-130			
Bromodichloromethane	23.1	0.50	ug/l	25.0	ND	93	75-125			
Bromoform	25.3	1.0	ug/l	25.0	ND	101	65-125			
Bromomethane	27.9	1.0	ug/l	25.0	ND	112	45-150			
2-Butanone (MEK)	24.4	2.5	ug/l	25.0	ND	97	15-150			
n-Butylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-130			
sec-Butylbenzene	27.4	0.50	ug/l	25.0	ND	110	70-125			
tert-Butylbenzene	26.8	0.50	ug/l	25.0	ND	107	70-125			
Carbon disulfide	26.3	0.50	ug/l	25.0	ND	105	65-145			
Carbon tetrachloride	26.6	0.50	ug/l	25.0	ND	106	65-135			
Chlorobenzene	29.8	0.50	ug/l	25.0	ND	119	75-120			
Chloroethane	23.3	1.0	ug/l	25.0	ND	93	65-140			
Chloroform	26.0	0.50	ug/l	25.0	0.860	100	70-130			
Chloromethane	20.7	1.0	ug/l	25.0	ND	83	55-145			
2-Chlorotoluene	25.8	0.50	ug/l	25.0	ND	103	70-125			
4-Chlorotoluene	25.3	0.50	ug/l	25.0	ND	101	70-125			
Dibromochloromethane	25.2	0.50	ug/l	25.0	ND	101	70-130			
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0	ND	90	50-150			
1,2-Dibromoethane (EDB)	26.0	0.50	ug/l	25.0	ND	104	70-125			
Dibromomethane	25.8	0.50	ug/l	25.0	ND	103	70-120			
1,2-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	75-120			
1,3-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	110	75-120			
1,4-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	109	70-125			
Dichlorodifluoromethane	20.6	0.50	ug/l	25.0	ND	82	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	1.78	99	70-130			
1,2-Dichloroethane	22.6	0.50	ug/l	25.0	ND	91	65-140			
1,1-Dichloroethene	29.8	0.50	ug/l	25.0	2.46	109	70-130			
cis-1,2-Dichloroethene	26.4	0.50	ug/l	25.0	2.42	96	70-125			
trans-1,2-Dichloroethene	25.5	0.50	ug/l	25.0	ND	102	75-125			
1,2-Dichloropropane	24.6	0.50	ug/l	25.0	ND	98	75-125			
1,3-Dichloropropane	26.4	0.50	ug/l	25.0	ND	105	70-120			
2,2-Dichloropropane	23.2	1.0	ug/l	25.0	ND	93	65-140			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Analyzed: 09/21/2011 (11I0768-MS1)					**Source: PUI0949-03**					
1,1-Dichloropropene	24.8	0.50	ug/l	25.0	ND	99	65-130			
cis-1,3-Dichloropropene	22.7	0.50	ug/l	25.0	ND	91	75-130			
trans-1,3-Dichloropropene	22.6	0.50	ug/l	25.0	ND	90	70-130			
Ethylbenzene	28.9	0.50	ug/l	25.0	ND	115	70-125			
Hexachlorobutadiene	24.4	1.0	ug/l	25.0	ND	97	40-150			
2-Hexanone	19.2	2.5	ug/l	25.0	ND	77	20-150			
Iodomethane	35.9	2.5	ug/l	25.0	ND	144	60-150			
Isopropylbenzene	28.4	0.50	ug/l	25.0	ND	113	75-130			
p-Isopropyltoluene	26.7	0.50	ug/l	25.0	ND	107	70-130			
Methylene Chloride	26.4	1.0	ug/l	25.0	ND	106	65-130			
4-Methyl-2-pentanone (MIBK)	19.9	2.5	ug/l	25.0	ND	80	55-135			
Methyl-tert-butyl Ether (MTBE)	20.7	0.50	ug/l	25.0	ND	83	65-140			
Naphthalene	22.3	2.5	ug/l	25.0	ND	89	40-150			
n-Propylbenzene	27.3	0.50	ug/l	25.0	ND	109	70-130			
Styrene	24.3	0.50	ug/l	25.0	ND	97	55-135			
1,1,1,2-Tetrachloroethane	28.3	0.50	ug/l	25.0	ND	113	70-125			
1,1,2,2-Tetrachloroethane	24.4	0.50	ug/l	25.0	ND	97	70-125			
Tetrachloroethene	31.8	0.50	ug/l	25.0	0.690	125	65-130			
Toluene	27.6	0.50	ug/l	25.0	ND	110	70-125			
1,2,3-Trichlorobenzene	26.8	1.0	ug/l	25.0	ND	107	50-150			
1,2,4-Trichlorobenzene	26.7	1.0	ug/l	25.0	ND	107	50-150			
1,1,1-Trichloroethane	24.8	0.50	ug/l	25.0	ND	99	70-130			
1,1,2-Trichloroethane	24.0	0.50	ug/l	25.0	ND	96	75-125			
Trichloroethene	36.9	0.50	ug/l	25.0	9.59	109	70-125			
Trichlorofluoromethane	25.2	0.50	ug/l	25.0	ND	101	65-150			
1,2,3-Trichloropropane	24.5	1.0	ug/l	25.0	ND	98	70-130			
1,2,4-Trimethylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125			
1,3,5-Trimethylbenzene	26.6	0.50	ug/l	25.0	ND	106	75-130			
Vinyl Acetate	20.4	1.0	ug/l	25.0	ND	82	40-150			
Vinyl chloride	24.5	0.50	ug/l	25.0	ND	98	60-140			
Xylenes, Total	57.4	1.5	ug/l	50.0	ND	115	75-120			
Freon 113	27.7	2.0	ug/l	25.0	ND	111	65-140			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Dup Analyzed: 09/21/2011 (11I0768-MSD1)					**Source: PUI0949-03**					
Acetone	17.7	10	ug/l	25.0	ND	71	10-150	3	35	
Benzene	24.7	0.50	ug/l	25.0	0.190	98	70-125	7	25	
Bromobenzene	25.8	0.50	ug/l	25.0	ND	103	75-120	6	20	
Bromochloromethane	22.3	0.50	ug/l	25.0	ND	89	75-130	13	20	
Bromodichloromethane	20.9	0.50	ug/l	25.0	ND	84	75-125	10	20	
Bromoform	24.2	1.0	ug/l	25.0	ND	97	65-125	5	25	
Bromomethane	24.5	1.0	ug/l	25.0	ND	98	45-150	13	35	
2-Butanone (MEK)	21.3	2.5	ug/l	25.0	ND	85	15-150	13	30	
n-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	7	30	
sec-Butylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-125	7	30	
tert-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125	7	25	
Carbon disulfide	23.0	0.50	ug/l	25.0	ND	92	65-145	13	25	
Carbon tetrachloride	23.8	0.50	ug/l	25.0	ND	95	65-135	11	25	
Chlorobenzene	26.9	0.50	ug/l	25.0	ND	108	75-120	10	20	
Chloroethane	21.0	1.0	ug/l	25.0	ND	84	65-140	10	25	
Chloroform	23.1	0.50	ug/l	25.0	0.860	89	70-130	12	20	
Chloromethane	17.9	1.0	ug/l	25.0	ND	72	55-145	14	35	
2-Chlorotoluene	24.1	0.50	ug/l	25.0	ND	96	70-125	7	25	
4-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	97	70-125	4	25	
Dibromochloromethane	24.3	0.50	ug/l	25.0	ND	97	70-130	4	20	
1,2-Dibromo-3-chloropropane	20.7	2.5	ug/l	25.0	ND	83	50-150	8	30	
1,2-Dibromoethane (EDB)	25.2	0.50	ug/l	25.0	ND	101	70-125	3	20	
Dibromomethane	23.3	0.50	ug/l	25.0	ND	93	70-120	10	20	
1,2-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	4	20	
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0	ND	104	75-120	5	25	
1,4-Dichlorobenzene	25.9	0.50	ug/l	25.0	ND	104	70-125	5	20	
Dichlorodifluoromethane	18.0	0.50	ug/l	25.0	ND	72	60-150	13	30	
1,1-Dichloroethane	24.3	0.50	ug/l	25.0	1.78	90	70-130	9	20	
1,2-Dichloroethane	20.6	0.50	ug/l	25.0	ND	82	65-140	9	20	
1,1-Dichloroethene	26.1	0.50	ug/l	25.0	2.46	95	70-130	13	25	
cis-1,2-Dichloroethene	23.5	0.50	ug/l	25.0	2.42	84	70-125	12	20	
trans-1,2-Dichloroethene	22.6	0.50	ug/l	25.0	ND	90	75-125	12	25	
1,2-Dichloropropane	22.5	0.50	ug/l	25.0	ND	90	75-125	9	20	
1,3-Dichloropropane	24.7	0.50	ug/l	25.0	ND	99	70-120	6	20	
2,2-Dichloropropane	21.1	1.0	ug/l	25.0	ND	85	65-140	9	25	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Dup Analyzed: 09/21/2011 (11I0768-MSD1)					**Source: PUI0949-03**					
1,1-Dichloropropene	22.4	0.50	ug/l	25.0	ND	90	65-130	10	25	
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130	12	20	
trans-1,3-Dichloropropene	20.0	0.50	ug/l	25.0	ND	80	70-130	12	20	
Ethylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-125	10	25	
Hexachlorobutadiene	26.0	1.0	ug/l	25.0	ND	104	40-150	7	30	
2-Hexanone	20.2	2.5	ug/l	25.0	ND	81	20-150	5	30	
Iodomethane	32.9	2.5	ug/l	25.0	ND	131	60-150	9	30	
Isopropylbenzene	27.2	0.50	ug/l	25.0	ND	109	75-130	4	25	
p-Isopropyltoluene	25.0	0.50	ug/l	25.0	ND	100	70-130	7	30	
Methylene Chloride	23.4	1.0	ug/l	25.0	ND	94	65-130	12	20	
4-Methyl-2-pentanone (MIBK)	17.8	2.5	ug/l	25.0	ND	71	55-135	11	25	
Methyl-tert-butyl Ether (MTBE)	19.1	0.50	ug/l	25.0	ND	77	65-140	8	25	
Naphthalene	22.7	2.5	ug/l	25.0	ND	91	40-150	2	30	
n-Propylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-130	7	30	
Styrene	17.0	0.50	ug/l	25.0	ND	68	55-135	35	35	
1,1,1,2-Tetrachloroethane	26.5	0.50	ug/l	25.0	ND	106	70-125	7	20	
1,1,2,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	70-125	3	25	
Tetrachloroethene	28.6	0.50	ug/l	25.0	0.690	112	65-130	11	25	
Toluene	24.8	0.50	ug/l	25.0	ND	99	70-125	11	20	
1,2,3-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150	3	35	
1,2,4-Trichlorobenzene	25.0	1.0	ug/l	25.0	ND	100	50-150	7	25	
1,1,1-Trichloroethane	22.5	0.50	ug/l	25.0	ND	90	70-130	10	25	
1,1,2-Trichloroethane	22.4	0.50	ug/l	25.0	ND	90	75-125	7	20	
Trichloroethene	33.0	0.50	ug/l	25.0	9.59	93	70-125	11	25	
Trichlorofluoromethane	22.2	0.50	ug/l	25.0	ND	89	65-150	13	25	
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0	ND	87	70-130	11	25	
1,2,4-Trimethylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	7	30	
1,3,5-Trimethylbenzene	24.9	0.50	ug/l	25.0	ND	100	75-130	6	25	
Vinyl Acetate	17.4	1.0	ug/l	25.0	ND	69	40-150	16	30	
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140	13	25	
Xylenes, Total	51.4	1.5	ug/l	50.0	ND	103	75-120	11	15	
Freon 113	25.2	2.0	ug/l	25.0	ND	101	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0655 Extracted: 09/19/11										
Blank Analyzed: 09/20/2011 (11I0655-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.3*		*ug/l*	*20.0*		*76*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.2*		*ug/l*	*20.0*		*86*	*59.9-120*			
LCS Analyzed: 09/20/2011 (11I0655-BS1)										
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	80-120			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.6*		*ug/l*	*20.0*		*88*	*38-125*			
LCS Dup Analyzed: 09/20/2011 (11I0655-BSD1)										
1,4-Dioxane	20.8	1.0	ug/l	20.0		104	80-120	2	25	
Surrogate: 1,4-Dioxane-d8	*14.1*		*ug/l*	*20.0*		*71*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.8*		*ug/l*	*20.0*		*84*	*38-125*			
Matrix Spike Analyzed: 09/20/2011 (11I0655-MS1)					**Source: PUI0949-03**					
1,4-Dioxane	21.9	1.0	ug/l	20.0	1.24	103	70-130			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*75*	*36-81*			
Surrogate: Nitrobenzene-d5	*17.8*		*ug/l*	*20.0*		*89*	*59-120*			
Matrix Spike Dup Analyzed: 09/20/2011 (11I0655-MSD1)					**Source: PUI0949-03**					
1,4-Dioxane	21.7	1.0	ug/l	20.0	1.24	102	70-130	1	25	
Surrogate: 1,4-Dioxane-d8	*12.2*		*ug/l*	*20.0*		*61*	*36-81*			
Surrogate: Nitrobenzene-d5	*14.2*		*ug/l*	*20.0*		*71*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West	Project ID: OU3 0096498.030	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/15/11
Scottsdale, AZ 85251	Report Number: PUI0947	Received: 09/15/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
N1	See case narrative.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0947

Sampled: 09/15/11
Received: 09/15/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

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[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E Indian School Rd #100
Scottsdale AZ 85251

Project/PO Number:
003
0096498,030

Project Manager:
jason.hilker@erm.com

Phone Number:
480-998-2401

Sampler: Adam Nagle

Fax Number:

PUI0947

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC 8260B	1,4-Dioxane 8270C								Special Instructions
003-13D-D-091511	WT	3x40mL 2x1L	5	9/15	0756	HCl / —	X	X							-01	Level III
003-2M-M-091511	WT	3x40mL 2x1L	5	9/15	1304	HCl / —	X	X							-02	Level III

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
ERM	9/15 1506			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal ✓
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)
			9-15-11 1506	intact X on ice X

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.6/2.9
2X

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/15/11
Received: 09/15/11
Revised: 11/21/11 12:04

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0949-01	OU3-13M-M-091511	Water
PUI0949-02	EW-19D-D-091511	Water
PUI0949-03	EW-19S-S-091511	Water
PUI0949-04	EW-20-S-091511	Water
PUI0949-05	EW-20-S-091511-Q1	Water
PUI0949-06	GW-EB1-6-091511	Water
PUI0949-07	GW-L1-6-091511	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030

Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

SAMPLE RECEIPT:	Samples were received intact, at 2°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. R1-The RPD exceeded the acceptance limit. S10-Surrogate recovery was above acceptance limits. N1 = The Laboratory Control Sample recovered below and outside of client acceptance limits but within laboratory acceptance limits for for Cis-1,3-Dichloropropene. All associated samples are non-detect for this compound and therefore should not be impacted.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-01 (OU3-13M-M-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	**2.4**	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-01 (OU3-13M-M-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	**0.57**	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	**0.61**	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	**25**	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	**0.55**	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-02 (EW-19D-D-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-02 (EW-19D-D-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	**1.4**	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*87 %*				

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-03 (EW-19S-S-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	**0.86**	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	**1.8**	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	**2.5**	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	**2.4**	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-03 (EW-19S-S-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	**0.69**	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	**9.6**	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*89 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-04 (EW-20-S-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	**1.4**	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	**3.4**	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	**2.6**	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	**5.2**	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-04 (EW-20-S-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	**1.1**	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	**26**	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*89 %*				

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-05 (EW-20-S-091511-Q1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	**1.4**	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	**3.2**	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	**3.2**	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	**5.2**	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-05 (EW-20-S-091511-Q1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	**1.2**	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	**24**	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*92 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-06 (GW-EB1-6-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	**1.9**	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	**7.0**	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	**0.92**	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-06 (GW-EB1-6-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-07 (GW-L1-6-091511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0768	10	ND	1	9/21/2011	9/21/2011	
Benzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromodichloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Bromoform	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Bromomethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Butanone (MEK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
sec-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
tert-Butylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon disulfide	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Carbon tetrachloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	L3
Chloroethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Chloroform	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Chloromethane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
2-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
4-Chlorotoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromochloromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dibromomethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Dichlorodifluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3-Dichloropropane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
2,2-Dichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Ethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Hexachlorobutadiene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	

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Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-07 (GW-L1-6-091511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Iodomethane	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	L3
Isopropylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
p-Isopropyltoluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Methylene Chloride	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Naphthalene	EPA 8260B	11I0768	2.5	ND	1	9/21/2011	9/21/2011	
n-Propylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Styrene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Tetrachloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Toluene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichloroethene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Trichlorofluoromethane	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Vinyl Acetate	EPA 8260B	11I0768	1.0	ND	1	9/21/2011	9/21/2011	
Vinyl chloride	EPA 8260B	11I0768	0.50	ND	1	9/21/2011	9/21/2011	
Xylenes, Total	EPA 8260B	11I0768	1.5	ND	1	9/21/2011	9/21/2011	
Freon 113	EPA 8260B	11I0768	2.0	ND	1	9/21/2011	9/21/2011	
Surrogate: Dibromofluoromethane (80-130%)				*90 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*91 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0949-01 (OU3-13M-M-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	ND	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*58 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*71 %*				
Sample ID: PUI0949-02 (EW-19D-D-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	ND	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*75 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*88 %*				
Sample ID: PUI0949-03 (EW-19S-S-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	**1.2**	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*70 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*86 %*				
Sample ID: PUI0949-04 (EW-20-S-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.1	**1.5**	1.11	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*70 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*86 %*				
Sample ID: PUI0949-05 (EW-20-S-091511-Q1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	**1.5**	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*80 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*91 %*				
Sample ID: PUI0949-06 (GW-EB1-6-091511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0655	1.0	ND	1	9/19/2011	9/20/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*77 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*87 %*				

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Kylie Emily
Project Manager

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Attention: Jason Hilker

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Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Blank Analyzed: 09/21/2011 (11I0768-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Blank Analyzed: 09/21/2011 (11I0768-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*		*ug/l*	*25.0*		*88*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Analyzed: 09/21/2011 (11I0768-BS1)										
Acetone	24.6	10	ug/l	25.0		98	10-150			
Benzene	23.5	0.50	ug/l	25.0		94	80-120			
Bromobenzene	22.8	0.50	ug/l	25.0		91	80-120			
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125			
Bromodichloromethane	20.0	0.50	ug/l	25.0		80	80-120			
Bromoform	21.8	1.0	ug/l	25.0		87	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		94	55-150			
2-Butanone (MEK)	21.3	2.5	ug/l	25.0		85	40-150			
n-Butylbenzene	20.7	0.50	ug/l	25.0		83	80-130			
sec-Butylbenzene	22.0	0.50	ug/l	25.0		88	80-125			
tert-Butylbenzene	21.2	0.50	ug/l	25.0		85	80-120			
Carbon disulfide	21.9	0.50	ug/l	25.0		88	70-140			
Carbon tetrachloride	22.5	0.50	ug/l	25.0		90	75-130			
Chlorobenzene	23.8	0.50	ug/l	25.0		95	80-120			
Chloroethane	20.9	1.0	ug/l	25.0		83	70-130			
Chloroform	21.6	0.50	ug/l	25.0		87	75-120			
Chloromethane	17.6	1.0	ug/l	25.0		70	60-140			
2-Chlorotoluene	21.1	0.50	ug/l	25.0		85	80-120			
4-Chlorotoluene	21.2	0.50	ug/l	25.0		85	80-120			
Dibromochloromethane	21.0	0.50	ug/l	25.0		84	80-120			
1,2-Dibromo-3-chloropropane	21.1	2.5	ug/l	25.0		84	50-150			
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120			
Dibromomethane	21.8	0.50	ug/l	25.0		87	75-120			
1,2-Dichlorobenzene	22.7	0.50	ug/l	25.0		91	80-120			
1,3-Dichlorobenzene	22.7	0.50	ug/l	25.0		91	80-120			
1,4-Dichlorobenzene	22.6	0.50	ug/l	25.0		91	80-120			
Dichlorodifluoromethane	17.5	0.50	ug/l	25.0		70	60-150			
1,1-Dichloroethane	21.4	0.50	ug/l	25.0		86	70-125			
1,2-Dichloroethane	20.0	0.50	ug/l	25.0		80	75-130			
1,1-Dichloroethene	22.7	0.50	ug/l	25.0		91	75-125			
cis-1,2-Dichloroethene	21.0	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	80-120			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0		86	80-120			
1,3-Dichloropropane	22.0	0.50	ug/l	25.0		88	80-120			
2,2-Dichloropropane	19.7	1.0	ug/l	25.0		79	75-130			

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Analyzed: 09/21/2011 (11I0768-BS1)										
1,1-Dichloropropene	21.1	0.50	ug/l	25.0		84	75-120			
cis-1,3-Dichloropropene	19.5	0.50	ug/l	25.0		78	80-120			*N1*
trans-1,3-Dichloropropene	20.2	0.50	ug/l	25.0		81	80-125			
Ethylbenzene	22.9	0.50	ug/l	25.0		92	80-120			
Hexachlorobutadiene	22.7	1.0	ug/l	25.0		91	40-150			
2-Hexanone	18.5	2.5	ug/l	25.0		74	20-150			
Iodomethane	31.1	2.5	ug/l	25.0		124	80-130			
Isopropylbenzene	23.0	0.50	ug/l	25.0		92	80-130			
p-Isopropyltoluene	21.7	0.50	ug/l	25.0		87	80-130			
Methylene Chloride	23.1	1.0	ug/l	25.0		92	70-120			
4-Methyl-2-pentanone (MIBK)	18.9	2.5	ug/l	25.0		76	60-135			
Methyl-tert-butyl Ether (MTBE)	18.9	0.50	ug/l	25.0		76	70-130			
Naphthalene	20.9	2.5	ug/l	25.0		83	40-150			
n-Propylbenzene	21.7	0.50	ug/l	25.0		87	75-130			
Styrene	20.3	0.50	ug/l	25.0		81	80-120			
1,1,1,2-Tetrachloroethane	23.2	0.50	ug/l	25.0		93	75-125			
1,1,2,2-Tetrachloroethane	22.6	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	24.1	0.50	ug/l	25.0		96	70-130			
Toluene	23.1	0.50	ug/l	25.0		92	80-120			
1,2,3-Trichlorobenzene	22.5	1.0	ug/l	25.0		90	55-150			
1,2,4-Trichlorobenzene	22.0	1.0	ug/l	25.0		88	50-150			
1,1,1-Trichloroethane	21.7	0.50	ug/l	25.0		87	75-125			
1,1,2-Trichloroethane	22.8	0.50	ug/l	25.0		91	80-120			
Trichloroethene	22.1	0.50	ug/l	25.0		89	80-120			
Trichlorofluoromethane	21.3	0.50	ug/l	25.0		85	70-150			
1,2,3-Trichloropropane	19.5	1.0	ug/l	25.0		78	70-130			
1,2,4-Trimethylbenzene	21.4	0.50	ug/l	25.0		86	80-120			
1,3,5-Trimethylbenzene	21.8	0.50	ug/l	25.0		87	80-130			
Vinyl Acetate	19.3	1.0	ug/l	25.0		77	40-150			
Vinyl chloride	21.1	0.50	ug/l	25.0		85	70-130			
Xylenes, Total	45.2	1.5	ug/l	50.0		90	60-140			
Freon 113	23.1	2.0	ug/l	25.0		92	60-140			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*92*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

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Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Dup Analyzed: 09/21/2011 (11I0768-BSD1)										
Acetone	26.2	10	ug/l	25.0		105	10-150	6	35	
Benzene	27.6	0.50	ug/l	25.0		110	80-120	16	15	*R6*
Bromobenzene	29.4	0.50	ug/l	25.0		118	80-120	25	15	*R6*
Bromochloromethane	26.6	0.50	ug/l	25.0		106	80-125	17	15	*R6*
Bromodichloromethane	23.9	0.50	ug/l	25.0		95	80-120	18	15	*R6*
Bromoform	28.9	1.0	ug/l	25.0		116	75-130	28	20	*R6*
Bromomethane	28.0	1.0	ug/l	25.0		112	55-150	17	20	
2-Butanone (MEK)	26.1	2.5	ug/l	25.0		105	40-150	20	35	
n-Butylbenzene	26.4	0.50	ug/l	25.0		106	80-130	24	15	*R6*
sec-Butylbenzene	28.1	0.50	ug/l	25.0		112	80-125	24	15	*R6*
tert-Butylbenzene	27.5	0.50	ug/l	25.0		110	80-120	26	15	*R6*
Carbon disulfide	26.3	0.50	ug/l	25.0		105	70-140	18	15	*R6*
Carbon tetrachloride	27.8	0.50	ug/l	25.0		111	75-130	21	20	*R6*
Chlorobenzene	30.2	0.50	ug/l	25.0		121	80-120	24	15	*L3, R1*
Chloroethane	23.1	1.0	ug/l	25.0		92	70-130	10	15	
Chloroform	25.5	0.50	ug/l	25.0		102	75-120	16	15	*R6*
Chloromethane	20.9	1.0	ug/l	25.0		84	60-140	17	20	
2-Chlorotoluene	26.5	0.50	ug/l	25.0		106	80-120	23	15	*R6*
4-Chlorotoluene	26.8	0.50	ug/l	25.0		107	80-120	23	15	*R6*
Dibromochloromethane	27.3	0.50	ug/l	25.0		109	80-120	26	15	*R6*
1,2-Dibromo-3-chloropropane	25.0	2.5	ug/l	25.0		100	50-150	17	35	
1,2-Dibromoethane (EDB)	29.1	0.50	ug/l	25.0		116	80-120	25	15	*R6*
Dibromomethane	27.5	0.50	ug/l	25.0		110	75-120	23	15	*R6*
1,2-Dichlorobenzene	29.0	0.50	ug/l	25.0		116	80-120	24	15	*R6*
1,3-Dichlorobenzene	29.2	0.50	ug/l	25.0		117	80-120	25	15	*R6*
1,4-Dichlorobenzene	29.0	0.50	ug/l	25.0		116	80-120	25	15	*R6*
Dichlorodifluoromethane	21.0	0.50	ug/l	25.0		84	60-150	18	30	
1,1-Dichloroethane	25.6	0.50	ug/l	25.0		102	70-125	18	15	*R6*
1,2-Dichloroethane	24.2	0.50	ug/l	25.0		97	75-130	19	15	*R6*
1,1-Dichloroethene	27.8	0.50	ug/l	25.0		111	75-125	20	20	
cis-1,2-Dichloroethene	24.4	0.50	ug/l	25.0		98	80-120	15	15	
trans-1,2-Dichloroethene	25.8	0.50	ug/l	25.0		103	80-120	15	15	
1,2-Dichloropropane	25.8	0.50	ug/l	25.0		103	80-120	19	15	*R6*
1,3-Dichloropropane	26.2	0.50	ug/l	25.0		105	80-120	17	15	*R6*
2,2-Dichloropropane	23.9	1.0	ug/l	25.0		95	75-130	19	15	*R6*

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Kylie Emily
Project Manager

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Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
LCS Dup Analyzed: 09/21/2011 (11I0768-BSD1)										
1,1-Dichloropropene	25.2	0.50	ug/l	25.0		101	75-120	18	15	*R6*
cis-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-120	21	15	*R1*
trans-1,3-Dichloropropene	23.3	0.50	ug/l	25.0		93	80-125	14	15	
Ethylbenzene	29.2	0.50	ug/l	25.0		117	80-120	24	15	*R6*
Hexachlorobutadiene	28.3	1.0	ug/l	25.0		113	40-150	22	35	
2-Hexanone	23.3	2.5	ug/l	25.0		93	20-150	23	35	
Iodomethane	36.6	2.5	ug/l	25.0		146	80-130	16	10	*L3, R1*
Isopropylbenzene	29.4	0.50	ug/l	25.0		118	80-130	25	15	*R6*
p-Isopropyltoluene	27.7	0.50	ug/l	25.0		111	80-130	24	15	*R6*
Methylene Chloride	27.3	1.0	ug/l	25.0		109	70-120	17	15	*R6*
4-Methyl-2-pentanone (MIBK)	21.9	2.5	ug/l	25.0		88	60-135	15	25	
Methyl-tert-butyl Ether (MTBE)	23.1	0.50	ug/l	25.0		92	70-130	20	20	
Naphthalene	26.6	2.5	ug/l	25.0		107	40-150	24	30	
n-Propylbenzene	28.2	0.50	ug/l	25.0		113	75-130	26	15	*R6*
Styrene	26.0	0.50	ug/l	25.0		104	80-120	25	15	*R6*
1,1,1,2-Tetrachloroethane	28.3	0.50	ug/l	25.0		113	75-125	20	15	*R6*
1,1,2,2-Tetrachloroethane	27.6	0.50	ug/l	25.0		110	80-120	20	20	
Tetrachloroethene	31.7	0.50	ug/l	25.0		127	70-130	28	20	*R6*
Toluene	26.3	0.50	ug/l	25.0		105	80-120	13	15	
1,2,3-Trichlorobenzene	29.2	1.0	ug/l	25.0		117	55-150	26	35	
1,2,4-Trichlorobenzene	28.9	1.0	ug/l	25.0		116	50-150	27	30	
1,1,1-Trichloroethane	26.0	0.50	ug/l	25.0		104	75-125	18	15	*R6*
1,1,2-Trichloroethane	25.1	0.50	ug/l	25.0		101	80-120	10	15	
Trichloroethene	27.8	0.50	ug/l	25.0		111	80-120	23	15	*R6*
Trichlorofluoromethane	25.6	0.50	ug/l	25.0		102	70-150	18	25	
1,2,3-Trichloropropane	25.9	1.0	ug/l	25.0		104	70-130	28	20	*R6*
1,2,4-Trimethylbenzene	27.3	0.50	ug/l	25.0		109	80-120	24	15	*R6*
1,3,5-Trimethylbenzene	27.8	0.50	ug/l	25.0		111	80-130	24	15	*R6*
Vinyl Acetate	23.4	1.0	ug/l	25.0		94	40-150	19	25	
Vinyl chloride	24.8	0.50	ug/l	25.0		99	70-130	16	20	
Xylenes, Total	57.9	1.5	ug/l	50.0		116	60-140	25	15	*R6*
Freon 113	28.7	2.0	ug/l	25.0		115	60-140	22	15	*R6*
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Analyzed: 09/21/2011 (11I0768-MS1)					**Source: PUI0949-03**					
Acetone	18.2	10	ug/l	25.0	ND	73	10-150			
Benzene	26.6	0.50	ug/l	25.0	0.190	106	70-125			
Bromobenzene	27.4	0.50	ug/l	25.0	ND	109	75-120			
Bromochloromethane	25.5	0.50	ug/l	25.0	ND	102	75-130			
Bromodichloromethane	23.1	0.50	ug/l	25.0	ND	93	75-125			
Bromoform	25.3	1.0	ug/l	25.0	ND	101	65-125			
Bromomethane	27.9	1.0	ug/l	25.0	ND	112	45-150			
2-Butanone (MEK)	24.4	2.5	ug/l	25.0	ND	97	15-150			
n-Butylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-130			
sec-Butylbenzene	27.4	0.50	ug/l	25.0	ND	110	70-125			
tert-Butylbenzene	26.8	0.50	ug/l	25.0	ND	107	70-125			
Carbon disulfide	26.3	0.50	ug/l	25.0	ND	105	65-145			
Carbon tetrachloride	26.6	0.50	ug/l	25.0	ND	106	65-135			
Chlorobenzene	29.8	0.50	ug/l	25.0	ND	119	75-120			
Chloroethane	23.3	1.0	ug/l	25.0	ND	93	65-140			
Chloroform	26.0	0.50	ug/l	25.0	0.860	100	70-130			
Chloromethane	20.7	1.0	ug/l	25.0	ND	83	55-145			
2-Chlorotoluene	25.8	0.50	ug/l	25.0	ND	103	70-125			
4-Chlorotoluene	25.3	0.50	ug/l	25.0	ND	101	70-125			
Dibromochloromethane	25.2	0.50	ug/l	25.0	ND	101	70-130			
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0	ND	90	50-150			
1,2-Dibromoethane (EDB)	26.0	0.50	ug/l	25.0	ND	104	70-125			
Dibromomethane	25.8	0.50	ug/l	25.0	ND	103	70-120			
1,2-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	75-120			
1,3-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	110	75-120			
1,4-Dichlorobenzene	27.4	0.50	ug/l	25.0	ND	109	70-125			
Dichlorodifluoromethane	20.6	0.50	ug/l	25.0	ND	82	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	1.78	99	70-130			
1,2-Dichloroethane	22.6	0.50	ug/l	25.0	ND	91	65-140			
1,1-Dichloroethene	29.8	0.50	ug/l	25.0	2.46	109	70-130			
cis-1,2-Dichloroethene	26.4	0.50	ug/l	25.0	2.42	96	70-125			
trans-1,2-Dichloroethene	25.5	0.50	ug/l	25.0	ND	102	75-125			
1,2-Dichloropropane	24.6	0.50	ug/l	25.0	ND	98	75-125			
1,3-Dichloropropane	26.4	0.50	ug/l	25.0	ND	105	70-120			
2,2-Dichloropropane	23.2	1.0	ug/l	25.0	ND	93	65-140			

TestAmerica Phoenix

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Analyzed: 09/21/2011 (11I0768-MS1)					**Source: PUI0949-03**					
1,1-Dichloropropene	24.8	0.50	ug/l	25.0	ND	99	65-130			
cis-1,3-Dichloropropene	22.7	0.50	ug/l	25.0	ND	91	75-130			
trans-1,3-Dichloropropene	22.6	0.50	ug/l	25.0	ND	90	70-130			
Ethylbenzene	28.9	0.50	ug/l	25.0	ND	115	70-125			
Hexachlorobutadiene	24.4	1.0	ug/l	25.0	ND	97	40-150			
2-Hexanone	19.2	2.5	ug/l	25.0	ND	77	20-150			
Iodomethane	35.9	2.5	ug/l	25.0	ND	144	60-150			
Isopropylbenzene	28.4	0.50	ug/l	25.0	ND	113	75-130			
p-Isopropyltoluene	26.7	0.50	ug/l	25.0	ND	107	70-130			
Methylene Chloride	26.4	1.0	ug/l	25.0	ND	106	65-130			
4-Methyl-2-pentanone (MIBK)	19.9	2.5	ug/l	25.0	ND	80	55-135			
Methyl-tert-butyl Ether (MTBE)	20.7	0.50	ug/l	25.0	ND	83	65-140			
Naphthalene	22.3	2.5	ug/l	25.0	ND	89	40-150			
n-Propylbenzene	27.3	0.50	ug/l	25.0	ND	109	70-130			
Styrene	24.3	0.50	ug/l	25.0	ND	97	55-135			
1,1,1,2-Tetrachloroethane	28.3	0.50	ug/l	25.0	ND	113	70-125			
1,1,2,2-Tetrachloroethane	24.4	0.50	ug/l	25.0	ND	97	70-125			
Tetrachloroethene	31.8	0.50	ug/l	25.0	0.690	125	65-130			
Toluene	27.6	0.50	ug/l	25.0	ND	110	70-125			
1,2,3-Trichlorobenzene	26.8	1.0	ug/l	25.0	ND	107	50-150			
1,2,4-Trichlorobenzene	26.7	1.0	ug/l	25.0	ND	107	50-150			
1,1,1-Trichloroethane	24.8	0.50	ug/l	25.0	ND	99	70-130			
1,1,2-Trichloroethane	24.0	0.50	ug/l	25.0	ND	96	75-125			
Trichloroethene	36.9	0.50	ug/l	25.0	9.59	109	70-125			
Trichlorofluoromethane	25.2	0.50	ug/l	25.0	ND	101	65-150			
1,2,3-Trichloropropane	24.5	1.0	ug/l	25.0	ND	98	70-130			
1,2,4-Trimethylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125			
1,3,5-Trimethylbenzene	26.6	0.50	ug/l	25.0	ND	106	75-130			
Vinyl Acetate	20.4	1.0	ug/l	25.0	ND	82	40-150			
Vinyl chloride	24.5	0.50	ug/l	25.0	ND	98	60-140			
Xylenes, Total	57.4	1.5	ug/l	50.0	ND	115	75-120			
Freon 113	27.7	2.0	ug/l	25.0	ND	111	65-140			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Dup Analyzed: 09/21/2011 (11I0768-MSD1)					**Source: PUI0949-03**					
Acetone	17.7	10	ug/l	25.0	ND	71	10-150	3	35	
Benzene	24.7	0.50	ug/l	25.0	0.190	98	70-125	7	25	
Bromobenzene	25.8	0.50	ug/l	25.0	ND	103	75-120	6	20	
Bromochloromethane	22.3	0.50	ug/l	25.0	ND	89	75-130	13	20	
Bromodichloromethane	20.9	0.50	ug/l	25.0	ND	84	75-125	10	20	
Bromoform	24.2	1.0	ug/l	25.0	ND	97	65-125	5	25	
Bromomethane	24.5	1.0	ug/l	25.0	ND	98	45-150	13	35	
2-Butanone (MEK)	21.3	2.5	ug/l	25.0	ND	85	15-150	13	30	
n-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	7	30	
sec-Butylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-125	7	30	
tert-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125	7	25	
Carbon disulfide	23.0	0.50	ug/l	25.0	ND	92	65-145	13	25	
Carbon tetrachloride	23.8	0.50	ug/l	25.0	ND	95	65-135	11	25	
Chlorobenzene	26.9	0.50	ug/l	25.0	ND	108	75-120	10	20	
Chloroethane	21.0	1.0	ug/l	25.0	ND	84	65-140	10	25	
Chloroform	23.1	0.50	ug/l	25.0	0.860	89	70-130	12	20	
Chloromethane	17.9	1.0	ug/l	25.0	ND	72	55-145	14	35	
2-Chlorotoluene	24.1	0.50	ug/l	25.0	ND	96	70-125	7	25	
4-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	97	70-125	4	25	
Dibromochloromethane	24.3	0.50	ug/l	25.0	ND	97	70-130	4	20	
1,2-Dibromo-3-chloropropane	20.7	2.5	ug/l	25.0	ND	83	50-150	8	30	
1,2-Dibromoethane (EDB)	25.2	0.50	ug/l	25.0	ND	101	70-125	3	20	
Dibromomethane	23.3	0.50	ug/l	25.0	ND	93	70-120	10	20	
1,2-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	4	20	
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0	ND	104	75-120	5	25	
1,4-Dichlorobenzene	25.9	0.50	ug/l	25.0	ND	104	70-125	5	20	
Dichlorodifluoromethane	18.0	0.50	ug/l	25.0	ND	72	60-150	13	30	
1,1-Dichloroethane	24.3	0.50	ug/l	25.0	1.78	90	70-130	9	20	
1,2-Dichloroethane	20.6	0.50	ug/l	25.0	ND	82	65-140	9	20	
1,1-Dichloroethene	26.1	0.50	ug/l	25.0	2.46	95	70-130	13	25	
cis-1,2-Dichloroethene	23.5	0.50	ug/l	25.0	2.42	84	70-125	12	20	
trans-1,2-Dichloroethene	22.6	0.50	ug/l	25.0	ND	90	75-125	12	25	
1,2-Dichloropropane	22.5	0.50	ug/l	25.0	ND	90	75-125	9	20	
1,3-Dichloropropane	24.7	0.50	ug/l	25.0	ND	99	70-120	6	20	
2,2-Dichloropropane	21.1	1.0	ug/l	25.0	ND	85	65-140	9	25	

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Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0768 Extracted: 09/21/11										
Matrix Spike Dup Analyzed: 09/21/2011 (11I0768-MSD1)					**Source: PUI0949-03**					
1,1-Dichloropropene	22.4	0.50	ug/l	25.0	ND	90	65-130	10	25	
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130	12	20	
trans-1,3-Dichloropropene	20.0	0.50	ug/l	25.0	ND	80	70-130	12	20	
Ethylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-125	10	25	
Hexachlorobutadiene	26.0	1.0	ug/l	25.0	ND	104	40-150	7	30	
2-Hexanone	20.2	2.5	ug/l	25.0	ND	81	20-150	5	30	
Iodomethane	32.9	2.5	ug/l	25.0	ND	131	60-150	9	30	
Isopropylbenzene	27.2	0.50	ug/l	25.0	ND	109	75-130	4	25	
p-Isopropyltoluene	25.0	0.50	ug/l	25.0	ND	100	70-130	7	30	
Methylene Chloride	23.4	1.0	ug/l	25.0	ND	94	65-130	12	20	
4-Methyl-2-pentanone (MIBK)	17.8	2.5	ug/l	25.0	ND	71	55-135	11	25	
Methyl-tert-butyl Ether (MTBE)	19.1	0.50	ug/l	25.0	ND	77	65-140	8	25	
Naphthalene	22.7	2.5	ug/l	25.0	ND	91	40-150	2	30	
n-Propylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-130	7	30	
Styrene	17.0	0.50	ug/l	25.0	ND	68	55-135	35	35	
1,1,1,2-Tetrachloroethane	26.5	0.50	ug/l	25.0	ND	106	70-125	7	20	
1,1,2,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	70-125	3	25	
Tetrachloroethene	28.6	0.50	ug/l	25.0	0.690	112	65-130	11	25	
Toluene	24.8	0.50	ug/l	25.0	ND	99	70-125	11	20	
1,2,3-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150	3	35	
1,2,4-Trichlorobenzene	25.0	1.0	ug/l	25.0	ND	100	50-150	7	25	
1,1,1-Trichloroethane	22.5	0.50	ug/l	25.0	ND	90	70-130	10	25	
1,1,2-Trichloroethane	22.4	0.50	ug/l	25.0	ND	90	75-125	7	20	
Trichloroethene	33.0	0.50	ug/l	25.0	9.59	93	70-125	11	25	
Trichlorofluoromethane	22.2	0.50	ug/l	25.0	ND	89	65-150	13	25	
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0	ND	87	70-130	11	25	
1,2,4-Trimethylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	7	30	
1,3,5-Trimethylbenzene	24.9	0.50	ug/l	25.0	ND	100	75-130	6	25	
Vinyl Acetate	17.4	1.0	ug/l	25.0	ND	69	40-150	16	30	
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140	13	25	
Xylenes, Total	51.4	1.5	ug/l	50.0	ND	103	75-120	11	15	
Freon 113	25.2	2.0	ug/l	25.0	ND	101	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0655 Extracted: 09/19/11										
Blank Analyzed: 09/20/2011 (11I0655-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.3*		*ug/l*	*20.0*		*76*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.2*		*ug/l*	*20.0*		*86*	*59.9-120*			
LCS Analyzed: 09/20/2011 (11I0655-BS1)										
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	80-120			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.6*		*ug/l*	*20.0*		*88*	*38-125*			
LCS Dup Analyzed: 09/20/2011 (11I0655-BSD1)										
1,4-Dioxane	20.8	1.0	ug/l	20.0		104	80-120	2	25	
Surrogate: 1,4-Dioxane-d8	*14.1*		*ug/l*	*20.0*		*71*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.8*		*ug/l*	*20.0*		*84*	*38-125*			
Matrix Spike Analyzed: 09/20/2011 (11I0655-MS1)					**Source: PUI0949-03**					
1,4-Dioxane	21.9	1.0	ug/l	20.0	1.24	103	70-130			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*75*	*36-81*			
Surrogate: Nitrobenzene-d5	*17.8*		*ug/l*	*20.0*		*89*	*59-120*			
Matrix Spike Dup Analyzed: 09/20/2011 (11I0655-MSD1)					**Source: PUI0949-03**					
1,4-Dioxane	21.7	1.0	ug/l	20.0	1.24	102	70-130	1	25	
Surrogate: 1,4-Dioxane-d8	*12.2*		*ug/l*	*20.0*		*61*	*36-81*			
Surrogate: Nitrobenzene-d5	*14.2*		*ug/l*	*20.0*		*71*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3 0096498.030	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/15/11
Scottsdale, AZ 85251	Report Number: PUI0949	Received: 09/15/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
N1	See case narrative.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0949

Sampled: 09/15/11
Received: 09/15/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[✓] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: ERM
7272 E Indian Sch Rd #100
Scottsdale AZ 85251

Project/PO Number: OV3
0096498.030

Project Manager: jason.hilker@erm.com

Phone Number: 480-998-2401

Sampler: Adam Nagle

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC 8260B	1,4-Dioxane 8270C	MS/MSD							Special Instructions
OV3-13M-M-091511	WT	3x40mL 2x1L	5	9/15	0902	HCl / —	X	X								PVI0949-01
EW-19D-D-091511		3x40 mL 2x1L	5	9/15	1052	HCl —	X	X								-02
EW-19S-S-091511		3x40mL 2x1L	5	9/15	1118	HCl —	X	X								-03
EW-19S-S-091511-MS/MSD		3x40mL 2x1L	7	9/15	1118	HCl —	X	X	X							~~04~~
~~OV3-2M-M~~		~~3x40mL 2x1L~~														
EW-20-S-091511		3x40mL 2x1L	5	9/15	1351	HCl —	X	X								PF ~~-0504~~
EW-20-S-091511-Q1		3x40mL 2x1L	5	9/15	1351	HCl —	X	X								PF ~~-06~~ 05
GW-EB1-6-091511		3x40mL 2x1L	5	9/15	1352	HCl —	X	X								PF ~~-07~~ 06
GW-L1-6-091511	↓	40 mL	1	9/15	—	HCl	X	—	—	TRIP	BLANK	—	—			PF ~~-08~~ 07

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[signature] / ERM	9/15 1506			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal ✓
Relinquished By:	Date/Time:	Received in Lab By: [signature]	Date/Time: 9-15-11 1506	Sample Integrity: (Check) intact X on ice X

Note: By relinquishing samples to TestAmerica. client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/16/11
Received: 09/16/11
Revised: 11/06/11 10:04

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1055-01	EW-13-228-D-091611	Water
PUI1055-02	DT-DW-5-S-091611	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.
N1-The RPD exceeded the acceptance limit due to sample matrix effects.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1055-01 (EW-13-228-D-091611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0837	10	ND	1	9/23/2011	9/23/2011	
Benzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromodichloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromoform	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Bromomethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Butanone (MEK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
sec-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
tert-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon disulfide	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon tetrachloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloroethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Chloroform	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloromethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
4-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromomethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dichlorodifluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
2,2-Dichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Ethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Hexachlorobutadiene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1055-01 (EW-13-228-D-091611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Iodomethane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Isopropylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
p-Isopropyltoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Methylene Chloride	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Naphthalene	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Propylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Styrene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Tetrachloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Toluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichloroethene	EPA 8260B	11I0837	0.50	**1.8**	1	9/23/2011	9/23/2011	
Trichlorofluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Vinyl Acetate	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Vinyl chloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Xylenes, Total	EPA 8260B	11I0837	1.5	ND	1	9/23/2011	9/23/2011	
Freon 113	EPA 8260B	11I0837	2.0	ND	1	9/23/2011	9/23/2011	
Surrogate: Dibromofluoromethane (80-130%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1055-02 (DT-DW-5-S-091611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0837	10	ND	1	9/23/2011	9/23/2011	
Benzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromodichloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromoform	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Bromomethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Butanone (MEK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
sec-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
tert-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon disulfide	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon tetrachloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloroethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Chloroform	EPA 8260B	11I0837	0.50	**0.62**	1	9/23/2011	9/23/2011	
Chloromethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
4-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromomethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dichlorodifluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
2,2-Dichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Ethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Hexachlorobutadiene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1055-02 (DT-DW-5-S-091611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Iodomethane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Isopropylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
p-Isopropyltoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Methylene Chloride	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Naphthalene	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Propylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Styrene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Tetrachloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Toluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichlorofluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Vinyl Acetate	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Vinyl chloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Xylenes, Total	EPA 8260B	11I0837	1.5	ND	1	9/23/2011	9/23/2011	
Freon 113	EPA 8260B	11I0837	2.0	ND	1	9/23/2011	9/23/2011	
Surrogate: Dibromofluoromethane (80-130%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1055-01 (EW-13-228-D-091611 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.2	ND	1.18	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*66 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*82 %*				
Sample ID: PUI1055-02 (DT-DW-5-S-091611 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.2	**1.2**	1.18	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*56 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*88 %*				

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Blank Analyzed: 09/23/2011 (11I0837-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Blank Analyzed: 09/23/2011 (11I0837-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Analyzed: 09/23/2011 (11I0837-BS1)										
Acetone	16.4	10	ug/l	25.0		66	10-150			
Benzene	23.2	0.50	ug/l	25.0		93	80-120			
Bromobenzene	24.3	0.50	ug/l	25.0		97	80-120			
Bromochloromethane	20.4	0.50	ug/l	25.0		82	80-125			
Bromodichloromethane	21.7	0.50	ug/l	25.0		87	80-120			
Bromoform	22.6	1.0	ug/l	25.0		91	75-130			
Bromomethane	21.3	1.0	ug/l	25.0		85	55-150			
2-Butanone (MEK)	19.4	2.5	ug/l	25.0		77	40-150			
n-Butylbenzene	28.7	0.50	ug/l	25.0		115	80-130			
sec-Butylbenzene	28.6	0.50	ug/l	25.0		114	80-125			
tert-Butylbenzene	26.8	0.50	ug/l	25.0		107	80-120			
Carbon disulfide	26.9	0.50	ug/l	25.0		107	70-140			
Carbon tetrachloride	22.6	0.50	ug/l	25.0		90	75-130			
Chlorobenzene	24.0	0.50	ug/l	25.0		96	80-120			
Chloroethane	22.4	1.0	ug/l	25.0		90	70-130			
Chloroform	22.6	0.50	ug/l	25.0		90	75-120			
Chloromethane	20.5	1.0	ug/l	25.0		82	60-140			
2-Chlorotoluene	26.6	0.50	ug/l	25.0		107	80-120			
4-Chlorotoluene	27.1	0.50	ug/l	25.0		109	80-120			
Dibromochloromethane	21.8	0.50	ug/l	25.0		87	80-120			
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0		90	50-150			
1,2-Dibromoethane (EDB)	21.7	0.50	ug/l	25.0		87	80-120			
Dibromomethane	20.3	0.50	ug/l	25.0		81	75-120			
1,2-Dichlorobenzene	24.1	0.50	ug/l	25.0		96	80-120			
1,3-Dichlorobenzene	25.4	0.50	ug/l	25.0		102	80-120			
1,4-Dichlorobenzene	25.0	0.50	ug/l	25.0		100	80-120			
Dichlorodifluoromethane	19.6	0.50	ug/l	25.0		78	60-150			
1,1-Dichloroethane	23.4	0.50	ug/l	25.0		93	70-125			
1,2-Dichloroethane	21.9	0.50	ug/l	25.0		88	75-130			
1,1-Dichloroethene	23.0	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.3	0.50	ug/l	25.0		85	80-120			
trans-1,2-Dichloroethene	22.8	0.50	ug/l	25.0		91	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	23.0	0.50	ug/l	25.0		92	80-120			
2,2-Dichloropropane	23.4	1.0	ug/l	25.0		94	75-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Analyzed: 09/23/2011 (11I0837-BS1)										
1,1-Dichloropropene	22.1	0.50	ug/l	25.0		88	75-120			
cis-1,3-Dichloropropene	21.3	0.50	ug/l	25.0		85	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
Hexachlorobutadiene	25.5	1.0	ug/l	25.0		102	40-150			
2-Hexanone	21.3	2.5	ug/l	25.0		85	20-150			
Iodomethane	25.5	2.5	ug/l	25.0		102	80-130			
Isopropylbenzene	29.2	0.50	ug/l	25.0		117	80-130			
p-Isopropyltoluene	28.2	0.50	ug/l	25.0		113	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	20.8	2.5	ug/l	25.0		83	60-135			
Methyl-tert-butyl Ether (MTBE)	19.5	0.50	ug/l	25.0		78	70-130			
Naphthalene	24.0	2.5	ug/l	25.0		96	40-150			
n-Propylbenzene	28.1	0.50	ug/l	25.0		112	75-130			
Styrene	21.8	0.50	ug/l	25.0		87	80-120			
1,1,1,2-Tetrachloroethane	22.6	0.50	ug/l	25.0		90	75-125			
1,1,2,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	80-120			
Tetrachloroethene	23.9	0.50	ug/l	25.0		95	70-130			
Toluene	22.5	0.50	ug/l	25.0		90	80-120			
1,2,3-Trichlorobenzene	24.6	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	50-150			
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0		92	75-125			
1,1,2-Trichloroethane	20.0	0.50	ug/l	25.0		80	80-120			
Trichloroethene	22.8	0.50	ug/l	25.0		91	80-120			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0		90	70-150			
1,2,3-Trichloropropane	23.1	1.0	ug/l	25.0		92	70-130			
1,2,4-Trimethylbenzene	26.4	0.50	ug/l	25.0		105	80-120			
1,3,5-Trimethylbenzene	27.6	0.50	ug/l	25.0		110	80-130			
Vinyl Acetate	22.3	1.0	ug/l	25.0		89	40-150			
Vinyl chloride	20.3	0.50	ug/l	25.0		81	70-130			
Xylenes, Total	45.4	1.5	ug/l	50.0		91	60-140			
Freon 113	22.7	2.0	ug/l	25.0		91	60-140			
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.1*		*ug/l*	*25.0*		*93*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Dup Analyzed: 09/23/2011 (11I0837-BSD1)										
Acetone	17.5	10	ug/l	25.0		70	10-150	6	35	
Benzene	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Bromobenzene	24.3	0.50	ug/l	25.0		97	80-120	0.08	15	
Bromochloromethane	20.8	0.50	ug/l	25.0		83	80-125	2	15	
Bromodichloromethane	22.2	0.50	ug/l	25.0		89	80-120	2	15	
Bromoform	23.7	1.0	ug/l	25.0		95	75-130	4	20	
Bromomethane	20.9	1.0	ug/l	25.0		84	55-150	2	20	
2-Butanone (MEK)	20.0	2.5	ug/l	25.0		80	40-150	3	35	
n-Butylbenzene	27.2	0.50	ug/l	25.0		109	80-130	5	15	
sec-Butylbenzene	26.7	0.50	ug/l	25.0		107	80-125	7	15	
tert-Butylbenzene	25.2	0.50	ug/l	25.0		101	80-120	6	15	
Carbon disulfide	25.7	0.50	ug/l	25.0		103	70-140	5	15	
Carbon tetrachloride	22.5	0.50	ug/l	25.0		90	75-130	0.4	20	
Chlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	2	15	
Chloroethane	22.3	1.0	ug/l	25.0		89	70-130	0.6	15	
Chloroform	22.1	0.50	ug/l	25.0		88	75-120	2	15	
Chloromethane	20.9	1.0	ug/l	25.0		84	60-140	2	20	
2-Chlorotoluene	25.6	0.50	ug/l	25.0		102	80-120	4	15	
4-Chlorotoluene	26.0	0.50	ug/l	25.0		104	80-120	4	15	
Dibromochloromethane	22.8	0.50	ug/l	25.0		91	80-120	5	15	
1,2-Dibromo-3-chloropropane	24.6	2.5	ug/l	25.0		98	50-150	9	35	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120	6	15	
Dibromomethane	21.4	0.50	ug/l	25.0		86	75-120	5	15	
1,2-Dichlorobenzene	24.4	0.50	ug/l	25.0		98	80-120	1	15	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	3	15	
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	2	15	
Dichlorodifluoromethane	19.4	0.50	ug/l	25.0		77	60-150	1	30	
1,1-Dichloroethane	22.5	0.50	ug/l	25.0		90	70-125	4	15	
1,2-Dichloroethane	23.1	0.50	ug/l	25.0		92	75-130	5	15	
1,1-Dichloroethene	22.3	0.50	ug/l	25.0		89	75-125	3	20	
cis-1,2-Dichloroethene	20.6	0.50	ug/l	25.0		82	80-120	4	15	
trans-1,2-Dichloroethene	21.5	0.50	ug/l	25.0		86	80-120	6	15	
1,2-Dichloropropane	22.7	0.50	ug/l	25.0		91	80-120	0.09	15	
1,3-Dichloropropane	24.3	0.50	ug/l	25.0		97	80-120	6	15	
2,2-Dichloropropane	22.5	1.0	ug/l	25.0		90	75-130	4	15	

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Dup Analyzed: 09/23/2011 (11I0837-BSD1)										
1,1-Dichloropropene	21.9	0.50	ug/l	25.0		87	75-120	1	15	
cis-1,3-Dichloropropene	21.7	0.50	ug/l	25.0		87	80-120	2	15	
trans-1,3-Dichloropropene	21.6	0.50	ug/l	25.0		86	80-125	5	15	
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Hexachlorobutadiene	23.3	1.0	ug/l	25.0		93	40-150	9	35	
2-Hexanone	24.4	2.5	ug/l	25.0		97	20-150	14	35	
Iodomethane	25.3	2.5	ug/l	25.0		101	80-130	0.7	10	
Isopropylbenzene	27.4	0.50	ug/l	25.0		110	80-130	6	15	
p-Isopropyltoluene	26.6	0.50	ug/l	25.0		107	80-130	6	15	
Methylene Chloride	21.0	1.0	ug/l	25.0		84	70-120	0.7	15	
4-Methyl-2-pentanone (MIBK)	23.9	2.5	ug/l	25.0		96	60-135	14	25	
Methyl-tert-butyl Ether (MTBE)	21.4	0.50	ug/l	25.0		85	70-130	9	20	
Naphthalene	25.1	2.5	ug/l	25.0		100	40-150	5	30	
n-Propylbenzene	26.7	0.50	ug/l	25.0		107	75-130	5	15	
Styrene	21.5	0.50	ug/l	25.0		86	80-120	2	15	
1,1,1,2-Tetrachloroethane	22.5	0.50	ug/l	25.0		90	75-125	0.6	15	
1,1,2,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	80-120	8	20	
Tetrachloroethene	23.0	0.50	ug/l	25.0		92	70-130	4	20	
Toluene	21.8	0.50	ug/l	25.0		87	80-120	3	15	
1,2,3-Trichlorobenzene	25.3	1.0	ug/l	25.0		101	55-150	3	35	
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	50-150	0.4	30	
1,1,1-Trichloroethane	22.5	0.50	ug/l	25.0		90	75-125	2	15	
1,1,2-Trichloroethane	21.4	0.50	ug/l	25.0		85	80-120	6	15	
Trichloroethene	22.1	0.50	ug/l	25.0		88	80-120	3	15	
Trichlorofluoromethane	21.4	0.50	ug/l	25.0		86	70-150	5	25	
1,2,3-Trichloropropane	24.8	1.0	ug/l	25.0		99	70-130	7	20	
1,2,4-Trimethylbenzene	25.1	0.50	ug/l	25.0		101	80-120	5	15	
1,3,5-Trimethylbenzene	26.2	0.50	ug/l	25.0		105	80-130	5	15	
Vinyl Acetate	24.0	1.0	ug/l	25.0		96	40-150	8	25	
Vinyl chloride	20.4	0.50	ug/l	25.0		82	70-130	0.7	20	
Xylenes, Total	44.2	1.5	ug/l	50.0		88	60-140	3	15	
Freon 113	22.1	2.0	ug/l	25.0		89	60-140	2	15	
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Analyzed: 09/23/2011 (11I0837-MS1)					**Source: PUI1044-12**					
Acetone	12.8	10	ug/l	25.0	ND	51	10-150			
Benzene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Bromobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	20.5	0.50	ug/l	25.0	ND	82	75-130			
Bromodichloromethane	21.9	0.50	ug/l	25.0	ND	88	75-125			
Bromoform	22.2	1.0	ug/l	25.0	ND	89	65-125			
Bromomethane	22.1	1.0	ug/l	25.0	ND	88	45-150			
2-Butanone (MEK)	18.9	2.5	ug/l	25.0	ND	75	15-150			
n-Butylbenzene	28.1	0.50	ug/l	25.0	ND	113	70-130			
sec-Butylbenzene	27.4	0.50	ug/l	25.0	ND	110	70-125			
tert-Butylbenzene	26.2	0.50	ug/l	25.0	ND	105	70-125			
Carbon disulfide	27.8	0.50	ug/l	25.0	ND	111	65-145			
Carbon tetrachloride	23.1	0.50	ug/l	25.0	ND	92	65-135			
Chlorobenzene	24.3	0.50	ug/l	25.0	ND	97	75-120			
Chloroethane	22.7	1.0	ug/l	25.0	ND	91	65-140			
Chloroform	23.7	0.50	ug/l	25.0	1.19	90	70-130			
Chloromethane	20.6	1.0	ug/l	25.0	ND	83	55-145			
2-Chlorotoluene	26.0	0.50	ug/l	25.0	ND	104	70-125			
4-Chlorotoluene	26.7	0.50	ug/l	25.0	ND	107	70-125			
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130			
1,2-Dibromo-3-chloropropane	22.5	2.5	ug/l	25.0	ND	90	50-150			
1,2-Dibromoethane (EDB)	22.2	0.50	ug/l	25.0	ND	89	70-125			
Dibromomethane	20.4	0.50	ug/l	25.0	ND	82	70-120			
1,2-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120			
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120			
1,4-Dichlorobenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
Dichlorodifluoromethane	20.3	0.50	ug/l	25.0	ND	81	60-150			
1,1-Dichloroethane	25.2	0.50	ug/l	25.0	1.93	93	70-130			
1,2-Dichloroethane	22.8	0.50	ug/l	25.0	ND	91	65-140			
1,1-Dichloroethene	26.2	0.50	ug/l	25.0	2.99	93	70-130			
cis-1,2-Dichloroethene	42.2	0.50	ug/l	25.0	21.6	82	70-125			
trans-1,2-Dichloroethene	22.7	0.50	ug/l	25.0	ND	91	75-125			
1,2-Dichloropropane	22.9	0.50	ug/l	25.0	0.500	89	75-125			
1,3-Dichloropropane	23.6	0.50	ug/l	25.0	ND	95	70-120			
2,2-Dichloropropane	24.3	1.0	ug/l	25.0	ND	97	65-140			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Analyzed: 09/23/2011 (11I0837-MS1)					**Source: PUI1044-12**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130			
cis-1,3-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	75-130			
trans-1,3-Dichloropropene	20.4	0.50	ug/l	25.0	ND	82	70-130			
Ethylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125			
Hexachlorobutadiene	24.7	1.0	ug/l	25.0	ND	99	40-150			
2-Hexanone	21.7	2.5	ug/l	25.0	ND	87	20-150			
Iodomethane	26.8	2.5	ug/l	25.0	ND	107	60-150			
Isopropylbenzene	28.4	0.50	ug/l	25.0	ND	114	75-130			
p-Isopropyltoluene	27.4	0.50	ug/l	25.0	ND	110	70-130			
Methylene Chloride	21.0	1.0	ug/l	25.0	ND	84	65-130			
4-Methyl-2-pentanone (MIBK)	21.4	2.5	ug/l	25.0	ND	85	55-135			
Methyl-tert-butyl Ether (MTBE)	20.3	0.50	ug/l	25.0	ND	81	65-140			
Naphthalene	23.8	2.5	ug/l	25.0	ND	95	40-150			
n-Propylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130			
Styrene	1.15	0.50	ug/l	25.0	ND	5	55-135			*M2*
1,1,1,2-Tetrachloroethane	22.7	0.50	ug/l	25.0	ND	91	70-125			
1,1,2,2-Tetrachloroethane	24.0	0.50	ug/l	25.0	ND	96	70-125			
Tetrachloroethene	28.8	0.50	ug/l	25.0	3.88	100	65-130			
Toluene	22.2	0.50	ug/l	25.0	ND	89	70-125			
1,2,3-Trichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	50-150			
1,2,4-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	50-150			
1,1,1-Trichloroethane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,1,2-Trichloroethane	20.0	0.50	ug/l	25.0	ND	80	75-125			
Trichloroethene	131	0.50	ug/l	25.0	116	62	70-125			*M3*
Trichlorofluoromethane	23.5	0.50	ug/l	25.0	0.190	93	65-150			
1,2,3-Trichloropropane	22.9	1.0	ug/l	25.0	ND	92	70-130			
1,2,4-Trimethylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-125			
1,3,5-Trimethylbenzene	26.8	0.50	ug/l	25.0	ND	107	75-130			
Vinyl Acetate	6.82	1.0	ug/l	25.0	ND	27	40-150			*M2*
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140			
Xylenes, Total	45.4	1.5	ug/l	50.0	ND	91	75-120			
Freon 113	24.0	2.0	ug/l	25.0	0.640	94	65-140			
Surrogate: Dibromofluoromethane	*24.8*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-125*			

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Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Dup Analyzed: 09/23/2011 (11I0837-MSD1)					**Source: PUI1044-12**					
Acetone	12.8	10	ug/l	25.0	ND	51	10-150	0.08	35	
Benzene	21.8	0.50	ug/l	25.0	ND	87	70-125	5	25	
Bromobenzene	22.7	0.50	ug/l	25.0	ND	91	75-120	6	20	
Bromochloromethane	20.0	0.50	ug/l	25.0	ND	80	75-130	2	20	
Bromodichloromethane	20.8	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	21.7	1.0	ug/l	25.0	ND	87	65-125	3	25	
Bromomethane	21.1	1.0	ug/l	25.0	ND	84	45-150	5	35	
2-Butanone (MEK)	18.2	2.5	ug/l	25.0	ND	73	15-150	3	30	
n-Butylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-130	5	30	
sec-Butylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-125	3	30	
tert-Butylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-125	5	25	
Carbon disulfide	26.3	0.50	ug/l	25.0	ND	105	65-145	6	25	
Carbon tetrachloride	22.2	0.50	ug/l	25.0	ND	89	65-135	4	25	
Chlorobenzene	22.8	0.50	ug/l	25.0	ND	91	75-120	6	20	
Chloroethane	22.6	1.0	ug/l	25.0	ND	90	65-140	0.5	25	
Chloroform	22.9	0.50	ug/l	25.0	1.19	87	70-130	3	20	
Chloromethane	20.4	1.0	ug/l	25.0	ND	82	55-145	1	35	
2-Chlorotoluene	24.5	0.50	ug/l	25.0	ND	98	70-125	6	25	
4-Chlorotoluene	25.1	0.50	ug/l	25.0	ND	101	70-125	6	25	
Dibromochloromethane	21.6	0.50	ug/l	25.0	ND	86	70-130	3	20	
1,2-Dibromo-3-chloropropane	21.3	2.5	ug/l	25.0	ND	85	50-150	5	30	
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125	4	20	
Dibromomethane	19.7	0.50	ug/l	25.0	ND	79	70-120	4	20	
1,2-Dichlorobenzene	22.6	0.50	ug/l	25.0	ND	90	75-120	5	20	
1,3-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120	4	25	
1,4-Dichlorobenzene	23.4	0.50	ug/l	25.0	ND	94	70-125	6	20	
Dichlorodifluoromethane	19.6	0.50	ug/l	25.0	ND	78	60-150	4	30	
1,1-Dichloroethane	24.2	0.50	ug/l	25.0	1.93	89	70-130	4	20	
1,2-Dichloroethane	22.2	0.50	ug/l	25.0	ND	89	65-140	3	20	
1,1-Dichloroethene	25.0	0.50	ug/l	25.0	2.99	88	70-130	5	25	
cis-1,2-Dichloroethene	40.9	0.50	ug/l	25.0	21.6	77	70-125	3	20	
trans-1,2-Dichloroethene	21.8	0.50	ug/l	25.0	ND	87	75-125	4	25	
1,2-Dichloropropane	22.0	0.50	ug/l	25.0	0.500	86	75-125	4	20	
1,3-Dichloropropane	22.6	0.50	ug/l	25.0	ND	90	70-120	5	20	
2,2-Dichloropropane	23.3	1.0	ug/l	25.0	ND	93	65-140	4	25	

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Dup Analyzed: 09/23/2011 (11I0837-MSD1)					**Source: PUI1044-12**					
1,1-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	65-130	4	25	
cis-1,3-Dichloropropene	20.4	0.50	ug/l	25.0	ND	82	75-130	5	20	
trans-1,3-Dichloropropene	19.9	0.50	ug/l	25.0	ND	80	70-130	2	20	
Ethylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125	6	25	
Hexachlorobutadiene	23.1	1.0	ug/l	25.0	ND	92	40-150	7	30	
2-Hexanone	21.7	2.5	ug/l	25.0	ND	87	20-150	0.4	30	
Iodomethane	25.2	2.5	ug/l	25.0	ND	101	60-150	6	30	
Isopropylbenzene	26.9	0.50	ug/l	25.0	ND	107	75-130	6	25	
p-Isopropyltoluene	26.3	0.50	ug/l	25.0	ND	105	70-130	4	30	
Methylene Chloride	20.3	1.0	ug/l	25.0	ND	81	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135	2	25	
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0	ND	80	65-140	1	25	
Naphthalene	23.5	2.5	ug/l	25.0	ND	94	40-150	1	30	
n-Propylbenzene	26.0	0.50	ug/l	25.0	ND	104	70-130	7	30	
Styrene	0.180	0.50	ug/l	25.0	ND	1	55-135	146	35	*M2, N1*
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/l	25.0	ND	86	70-125	5	20	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0	ND	93	70-125	3	25	
Tetrachloroethene	27.1	0.50	ug/l	25.0	3.88	93	65-130	6	25	
Toluene	21.2	0.50	ug/l	25.0	ND	85	70-125	4	20	
1,2,3-Trichlorobenzene	23.1	1.0	ug/l	25.0	ND	92	50-150	2	35	
1,2,4-Trichlorobenzene	22.3	1.0	ug/l	25.0	ND	89	50-150	5	25	
1,1,1-Trichloroethane	22.6	0.50	ug/l	25.0	ND	90	70-130	4	25	
1,1,2-Trichloroethane	19.5	0.50	ug/l	25.0	ND	78	75-125	3	20	
Trichloroethene	128	0.50	ug/l	25.0	116	49	70-125	2	25	*M3*
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.190	89	65-150	5	25	
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0	ND	90	70-130	2	25	
1,2,4-Trimethylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	5	30	
1,3,5-Trimethylbenzene	25.4	0.50	ug/l	25.0	ND	101	75-130	5	25	
Vinyl Acetate	3.15	1.0	ug/l	25.0	ND	13	40-150	74	30	*M2, N1*
Vinyl chloride	22.1	0.50	ug/l	25.0	ND	88	60-140	4	25	
Xylenes, Total	42.8	1.5	ug/l	50.0	ND	86	75-120	6	15	
Freon 113	22.6	2.0	ug/l	25.0	0.640	88	65-140	6	20	
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*24.1*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0714 Extracted: 09/20/11										
Blank Analyzed: 09/21/2011 (11I0714-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.6*		*ug/l*	*20.0*		*88*	*59.9-120*			
LCS Analyzed: 09/21/2011 (11I0714-BS1)										
1,4-Dioxane	20.0	1.0	ug/l	20.0		100	80-120			
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*89*	*38-125*			
LCS Dup Analyzed: 09/21/2011 (11I0714-BSD1)										
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	80-120	2	25	
Surrogate: 1,4-Dioxane-d8	*14.3*		*ug/l*	*20.0*		*72*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*84*	*38-125*			
Matrix Spike Analyzed: 09/21/2011 (11I0714-MS1)					**Source: PUI1134-02**					
1,4-Dioxane	24.4	1.1	ug/l	22.2	2.00	101	70-130			
Surrogate: 1,4-Dioxane-d8	*17.7*		*ug/l*	*22.2*		*79*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*22.2*		*88*	*59-120*			
Matrix Spike Dup Analyzed: 09/21/2011 (11I0714-MSD1)					**Source: PUI1134-02**					
1,4-Dioxane	25.5	1.2	ug/l	23.5	2.00	100	70-130	5	25	
Surrogate: 1,4-Dioxane-d8	*18.3*		*ug/l*	*23.5*		*78*	*36-81*			
Surrogate: Nitrobenzene-d5	*22.0*		*ug/l*	*23.5*		*94*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3 0096498.030	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/16/11
Scottsdale, AZ 85251	Report Number: PUI1055	Received: 09/16/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
N1	See case narrative.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1055

Sampled: 09/16/11
Received: 09/16/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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Environmental Resources Management

CHAIN OF CUSTODY RECORD

PUFI055

NO: 3046

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

Page 1 of 1

PROJECT #	PROJECT NAME
0096498.030	OU3

SAMPLER: (PRINT NAME)	(SIGNATURE)
Adam Nagh	[signature]

RECEIVING LABORATORY: Test America, Phoenix AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	REQUESTED PARAMETERS: VOC (8260B)	REQUESTED PARAMETERS: 1,4-Dioxane (8270C)								
EW-13-228-D-091611	9/16/11	1406		X	~~1406~~ pump	HCl	Y	40mL / 1L	3 / 2		X		X	X								01
DT-DW-5-S-091611	9/16/11	1620		X	Bail	HCl	Y	40mL / 1L	3 / 2		X		X	X								02

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
[signature] / ERM	9/16	1655			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
			[signature]	9/16/11	1455

FIELD REMARKS: Level III

D-4°C

REMARKS ON SAMPLE RECEIPT

- ☐ BOTTLE INTACT
- ☐ PRESERVED
- ☐ CUSTODY SEALS
- ☐ SEALS INTACT
- ☐ CHILLED
- ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@ERM.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.030

Sampled: 09/16/11
Received: 09/16/11
Revised: 11/06/11 10:14

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1056-01	EW-13-168-M-091611	Water
PUI1056-02	EW-13-268-D-091611	Water
PUI1056-03	GW-L1-7-091611	Water
PUI1056-04	GW-EB1-7-091611	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.
N1-The RPD exceeded the acceptance limit due to sample matrix effects.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-01 (EW-13-168-M-091611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0837	10	ND	1	9/23/2011	9/23/2011	
Benzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromodichloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromoform	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Bromomethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Butanone (MEK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
sec-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
tert-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon disulfide	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon tetrachloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloroethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Chloroform	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloromethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
4-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromomethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dichlorodifluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
2,2-Dichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Ethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Hexachlorobutadiene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-01 (EW-13-168-M-091611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Iodomethane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Isopropylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
p-Isopropyltoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Methylene Chloride	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Naphthalene	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Propylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Styrene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Tetrachloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Toluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichlorofluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Vinyl Acetate	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Vinyl chloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Xylenes, Total	EPA 8260B	11I0837	1.5	ND	1	9/23/2011	9/23/2011	
Freon 113	EPA 8260B	11I0837	2.0	ND	1	9/23/2011	9/23/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-02 (EW-13-268-D-091611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0837	10	ND	1	9/23/2011	9/23/2011	
Benzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromodichloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromoform	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Bromomethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Butanone (MEK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
sec-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
tert-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon disulfide	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon tetrachloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloroethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Chloroform	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloromethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
4-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromomethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dichlorodifluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
2,2-Dichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Ethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Hexachlorobutadiene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-02 (EW-13-268-D-091611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Iodomethane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Isopropylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
p-Isopropyltoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Methylene Chloride	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Naphthalene	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Propylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Styrene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Tetrachloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Toluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichlorofluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Vinyl Acetate	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Vinyl chloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Xylenes, Total	EPA 8260B	11I0837	1.5	ND	1	9/23/2011	9/23/2011	
Freon 113	EPA 8260B	11I0837	2.0	ND	1	9/23/2011	9/23/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-03 (GW-L1-7-091611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0837	10	ND	1	9/23/2011	9/23/2011	
Benzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromodichloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromoform	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Bromomethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Butanone (MEK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
sec-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
tert-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon disulfide	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon tetrachloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloroethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Chloroform	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloromethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
4-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromomethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dichlorodifluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
2,2-Dichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Ethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Hexachlorobutadiene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-03 (GW-L1-7-091611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Iodomethane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Isopropylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
p-Isopropyltoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Methylene Chloride	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Naphthalene	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Propylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Styrene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Tetrachloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Toluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichlorofluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Vinyl Acetate	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Vinyl chloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Xylenes, Total	EPA 8260B	11I0837	1.5	ND	1	9/23/2011	9/23/2011	
Freon 113	EPA 8260B	11I0837	2.0	ND	1	9/23/2011	9/23/2011	
Surrogate: Dibromofluoromethane (80-130%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-04 (GW-EB1-7-091611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0837	10	ND	1	9/23/2011	9/23/2011	
Benzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromochloromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Bromodichloromethane	EPA 8260B	11I0837	0.50	**1.8**	1	9/23/2011	9/23/2011	
Bromoform	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Bromomethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Butanone (MEK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
sec-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
tert-Butylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon disulfide	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Carbon tetrachloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Chloroethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Chloroform	EPA 8260B	11I0837	0.50	**6.5**	1	9/23/2011	9/23/2011	
Chloromethane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
2-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
4-Chlorotoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromochloromethane	EPA 8260B	11I0837	0.50	**0.87**	1	9/23/2011	9/23/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dibromomethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Dichlorodifluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3-Dichloropropane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
2,2-Dichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Ethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Hexachlorobutadiene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-04 (GW-EB1-7-091611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Iodomethane	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Isopropylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
p-Isopropyltoluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Methylene Chloride	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Naphthalene	EPA 8260B	11I0837	2.5	ND	1	9/23/2011	9/23/2011	
n-Propylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Styrene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Tetrachloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Toluene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichloroethene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Trichlorofluoromethane	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Vinyl Acetate	EPA 8260B	11I0837	1.0	ND	1	9/23/2011	9/23/2011	
Vinyl chloride	EPA 8260B	11I0837	0.50	ND	1	9/23/2011	9/23/2011	
Xylenes, Total	EPA 8260B	11I0837	1.5	ND	1	9/23/2011	9/23/2011	
Freon 113	EPA 8260B	11I0837	2.0	ND	1	9/23/2011	9/23/2011	
Surrogate: Dibromofluoromethane (80-130%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*89 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1056-01 (EW-13-168-M-091611 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.2	ND	1.25	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*64 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*80 %*				
Sample ID: PUI1056-02 (EW-13-268-D-091611 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.2	ND	1.25	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*56 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*68 %*				
Sample ID: PUI1056-04 (GW-EB1-7-091611 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.0	ND	1.05	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*75 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*90 %*				

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Blank Analyzed: 09/23/2011 (11I0837-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Blank Analyzed: 09/23/2011 (11I0837-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Analyzed: 09/23/2011 (11I0837-BS1)										
Acetone	16.4	10	ug/l	25.0		66	10-150			
Benzene	23.2	0.50	ug/l	25.0		93	80-120			
Bromobenzene	24.3	0.50	ug/l	25.0		97	80-120			
Bromochloromethane	20.4	0.50	ug/l	25.0		82	80-125			
Bromodichloromethane	21.7	0.50	ug/l	25.0		87	80-120			
Bromoform	22.6	1.0	ug/l	25.0		91	75-130			
Bromomethane	21.3	1.0	ug/l	25.0		85	55-150			
2-Butanone (MEK)	19.4	2.5	ug/l	25.0		77	40-150			
n-Butylbenzene	28.7	0.50	ug/l	25.0		115	80-130			
sec-Butylbenzene	28.6	0.50	ug/l	25.0		114	80-125			
tert-Butylbenzene	26.8	0.50	ug/l	25.0		107	80-120			
Carbon disulfide	26.9	0.50	ug/l	25.0		107	70-140			
Carbon tetrachloride	22.6	0.50	ug/l	25.0		90	75-130			
Chlorobenzene	24.0	0.50	ug/l	25.0		96	80-120			
Chloroethane	22.4	1.0	ug/l	25.0		90	70-130			
Chloroform	22.6	0.50	ug/l	25.0		90	75-120			
Chloromethane	20.5	1.0	ug/l	25.0		82	60-140			
2-Chlorotoluene	26.6	0.50	ug/l	25.0		107	80-120			
4-Chlorotoluene	27.1	0.50	ug/l	25.0		109	80-120			
Dibromochloromethane	21.8	0.50	ug/l	25.0		87	80-120			
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0		90	50-150			
1,2-Dibromoethane (EDB)	21.7	0.50	ug/l	25.0		87	80-120			
Dibromomethane	20.3	0.50	ug/l	25.0		81	75-120			
1,2-Dichlorobenzene	24.1	0.50	ug/l	25.0		96	80-120			
1,3-Dichlorobenzene	25.4	0.50	ug/l	25.0		102	80-120			
1,4-Dichlorobenzene	25.0	0.50	ug/l	25.0		100	80-120			
Dichlorodifluoromethane	19.6	0.50	ug/l	25.0		78	60-150			
1,1-Dichloroethane	23.4	0.50	ug/l	25.0		93	70-125			
1,2-Dichloroethane	21.9	0.50	ug/l	25.0		88	75-130			
1,1-Dichloroethene	23.0	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.3	0.50	ug/l	25.0		85	80-120			
trans-1,2-Dichloroethene	22.8	0.50	ug/l	25.0		91	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	23.0	0.50	ug/l	25.0		92	80-120			
2,2-Dichloropropane	23.4	1.0	ug/l	25.0		94	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Analyzed: 09/23/2011 (11I0837-BS1)										
1,1-Dichloropropene	22.1	0.50	ug/l	25.0		88	75-120			
cis-1,3-Dichloropropene	21.3	0.50	ug/l	25.0		85	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
Hexachlorobutadiene	25.5	1.0	ug/l	25.0		102	40-150			
2-Hexanone	21.3	2.5	ug/l	25.0		85	20-150			
Iodomethane	25.5	2.5	ug/l	25.0		102	80-130			
Isopropylbenzene	29.2	0.50	ug/l	25.0		117	80-130			
p-Isopropyltoluene	28.2	0.50	ug/l	25.0		113	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	20.8	2.5	ug/l	25.0		83	60-135			
Methyl-tert-butyl Ether (MTBE)	19.5	0.50	ug/l	25.0		78	70-130			
Naphthalene	24.0	2.5	ug/l	25.0		96	40-150			
n-Propylbenzene	28.1	0.50	ug/l	25.0		112	75-130			
Styrene	21.8	0.50	ug/l	25.0		87	80-120			
1,1,1,2-Tetrachloroethane	22.6	0.50	ug/l	25.0		90	75-125			
1,1,2,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	80-120			
Tetrachloroethene	23.9	0.50	ug/l	25.0		95	70-130			
Toluene	22.5	0.50	ug/l	25.0		90	80-120			
1,2,3-Trichlorobenzene	24.6	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	50-150			
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0		92	75-125			
1,1,2-Trichloroethane	20.0	0.50	ug/l	25.0		80	80-120			
Trichloroethene	22.8	0.50	ug/l	25.0		91	80-120			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0		90	70-150			
1,2,3-Trichloropropane	23.1	1.0	ug/l	25.0		92	70-130			
1,2,4-Trimethylbenzene	26.4	0.50	ug/l	25.0		105	80-120			
1,3,5-Trimethylbenzene	27.6	0.50	ug/l	25.0		110	80-130			
Vinyl Acetate	22.3	1.0	ug/l	25.0		89	40-150			
Vinyl chloride	20.3	0.50	ug/l	25.0		81	70-130			
Xylenes, Total	45.4	1.5	ug/l	50.0		91	60-140			
Freon 113	22.7	2.0	ug/l	25.0		91	60-140			
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.1*		*ug/l*	*25.0*		*93*	*80-125*			

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Dup Analyzed: 09/23/2011 (11I0837-BSD1)										
Acetone	17.5	10	ug/l	25.0		70	10-150	6	35	
Benzene	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Bromobenzene	24.3	0.50	ug/l	25.0		97	80-120	0.08	15	
Bromochloromethane	20.8	0.50	ug/l	25.0		83	80-125	2	15	
Bromodichloromethane	22.2	0.50	ug/l	25.0		89	80-120	2	15	
Bromoform	23.7	1.0	ug/l	25.0		95	75-130	4	20	
Bromomethane	20.9	1.0	ug/l	25.0		84	55-150	2	20	
2-Butanone (MEK)	20.0	2.5	ug/l	25.0		80	40-150	3	35	
n-Butylbenzene	27.2	0.50	ug/l	25.0		109	80-130	5	15	
sec-Butylbenzene	26.7	0.50	ug/l	25.0		107	80-125	7	15	
tert-Butylbenzene	25.2	0.50	ug/l	25.0		101	80-120	6	15	
Carbon disulfide	25.7	0.50	ug/l	25.0		103	70-140	5	15	
Carbon tetrachloride	22.5	0.50	ug/l	25.0		90	75-130	0.4	20	
Chlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	2	15	
Chloroethane	22.3	1.0	ug/l	25.0		89	70-130	0.6	15	
Chloroform	22.1	0.50	ug/l	25.0		88	75-120	2	15	
Chloromethane	20.9	1.0	ug/l	25.0		84	60-140	2	20	
2-Chlorotoluene	25.6	0.50	ug/l	25.0		102	80-120	4	15	
4-Chlorotoluene	26.0	0.50	ug/l	25.0		104	80-120	4	15	
Dibromochloromethane	22.8	0.50	ug/l	25.0		91	80-120	5	15	
1,2-Dibromo-3-chloropropane	24.6	2.5	ug/l	25.0		98	50-150	9	35	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120	6	15	
Dibromomethane	21.4	0.50	ug/l	25.0		86	75-120	5	15	
1,2-Dichlorobenzene	24.4	0.50	ug/l	25.0		98	80-120	1	15	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	3	15	
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	2	15	
Dichlorodifluoromethane	19.4	0.50	ug/l	25.0		77	60-150	1	30	
1,1-Dichloroethane	22.5	0.50	ug/l	25.0		90	70-125	4	15	
1,2-Dichloroethane	23.1	0.50	ug/l	25.0		92	75-130	5	15	
1,1-Dichloroethene	22.3	0.50	ug/l	25.0		89	75-125	3	20	
cis-1,2-Dichloroethene	20.6	0.50	ug/l	25.0		82	80-120	4	15	
trans-1,2-Dichloroethene	21.5	0.50	ug/l	25.0		86	80-120	6	15	
1,2-Dichloropropane	22.7	0.50	ug/l	25.0		91	80-120	0.09	15	
1,3-Dichloropropane	24.3	0.50	ug/l	25.0		97	80-120	6	15	
2,2-Dichloropropane	22.5	1.0	ug/l	25.0		90	75-130	4	15	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
LCS Dup Analyzed: 09/23/2011 (11I0837-BSD1)										
1,1-Dichloropropene	21.9	0.50	ug/l	25.0		87	75-120	1	15	
cis-1,3-Dichloropropene	21.7	0.50	ug/l	25.0		87	80-120	2	15	
trans-1,3-Dichloropropene	21.6	0.50	ug/l	25.0		86	80-125	5	15	
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Hexachlorobutadiene	23.3	1.0	ug/l	25.0		93	40-150	9	35	
2-Hexanone	24.4	2.5	ug/l	25.0		97	20-150	14	35	
Iodomethane	25.3	2.5	ug/l	25.0		101	80-130	0.7	10	
Isopropylbenzene	27.4	0.50	ug/l	25.0		110	80-130	6	15	
p-Isopropyltoluene	26.6	0.50	ug/l	25.0		107	80-130	6	15	
Methylene Chloride	21.0	1.0	ug/l	25.0		84	70-120	0.7	15	
4-Methyl-2-pentanone (MIBK)	23.9	2.5	ug/l	25.0		96	60-135	14	25	
Methyl-tert-butyl Ether (MTBE)	21.4	0.50	ug/l	25.0		85	70-130	9	20	
Naphthalene	25.1	2.5	ug/l	25.0		100	40-150	5	30	
n-Propylbenzene	26.7	0.50	ug/l	25.0		107	75-130	5	15	
Styrene	21.5	0.50	ug/l	25.0		86	80-120	2	15	
1,1,1,2-Tetrachloroethane	22.5	0.50	ug/l	25.0		90	75-125	0.6	15	
1,1,2,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	80-120	8	20	
Tetrachloroethene	23.0	0.50	ug/l	25.0		92	70-130	4	20	
Toluene	21.8	0.50	ug/l	25.0		87	80-120	3	15	
1,2,3-Trichlorobenzene	25.3	1.0	ug/l	25.0		101	55-150	3	35	
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	50-150	0.4	30	
1,1,1-Trichloroethane	22.5	0.50	ug/l	25.0		90	75-125	2	15	
1,1,2-Trichloroethane	21.4	0.50	ug/l	25.0		85	80-120	6	15	
Trichloroethene	22.1	0.50	ug/l	25.0		88	80-120	3	15	
Trichlorofluoromethane	21.4	0.50	ug/l	25.0		86	70-150	5	25	
1,2,3-Trichloropropane	24.8	1.0	ug/l	25.0		99	70-130	7	20	
1,2,4-Trimethylbenzene	25.1	0.50	ug/l	25.0		101	80-120	5	15	
1,3,5-Trimethylbenzene	26.2	0.50	ug/l	25.0		105	80-130	5	15	
Vinyl Acetate	24.0	1.0	ug/l	25.0		96	40-150	8	25	
Vinyl chloride	20.4	0.50	ug/l	25.0		82	70-130	0.7	20	
Xylenes, Total	44.2	1.5	ug/l	50.0		88	60-140	3	15	
Freon 113	22.1	2.0	ug/l	25.0		89	60-140	2	15	
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Analyzed: 09/23/2011 (11I0837-MS1)					**Source: PUI1044-12**					
Acetone	12.8	10	ug/l	25.0	ND	51	10-150			
Benzene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Bromobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	20.5	0.50	ug/l	25.0	ND	82	75-130			
Bromodichloromethane	21.9	0.50	ug/l	25.0	ND	88	75-125			
Bromoform	22.2	1.0	ug/l	25.0	ND	89	65-125			
Bromomethane	22.1	1.0	ug/l	25.0	ND	88	45-150			
2-Butanone (MEK)	18.9	2.5	ug/l	25.0	ND	75	15-150			
n-Butylbenzene	28.1	0.50	ug/l	25.0	ND	113	70-130			
sec-Butylbenzene	27.4	0.50	ug/l	25.0	ND	110	70-125			
tert-Butylbenzene	26.2	0.50	ug/l	25.0	ND	105	70-125			
Carbon disulfide	27.8	0.50	ug/l	25.0	ND	111	65-145			
Carbon tetrachloride	23.1	0.50	ug/l	25.0	ND	92	65-135			
Chlorobenzene	24.3	0.50	ug/l	25.0	ND	97	75-120			
Chloroethane	22.7	1.0	ug/l	25.0	ND	91	65-140			
Chloroform	23.7	0.50	ug/l	25.0	1.19	90	70-130			
Chloromethane	20.6	1.0	ug/l	25.0	ND	83	55-145			
2-Chlorotoluene	26.0	0.50	ug/l	25.0	ND	104	70-125			
4-Chlorotoluene	26.7	0.50	ug/l	25.0	ND	107	70-125			
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130			
1,2-Dibromo-3-chloropropane	22.5	2.5	ug/l	25.0	ND	90	50-150			
1,2-Dibromoethane (EDB)	22.2	0.50	ug/l	25.0	ND	89	70-125			
Dibromomethane	20.4	0.50	ug/l	25.0	ND	82	70-120			
1,2-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120			
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120			
1,4-Dichlorobenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
Dichlorodifluoromethane	20.3	0.50	ug/l	25.0	ND	81	60-150			
1,1-Dichloroethane	25.2	0.50	ug/l	25.0	1.93	93	70-130			
1,2-Dichloroethane	22.8	0.50	ug/l	25.0	ND	91	65-140			
1,1-Dichloroethene	26.2	0.50	ug/l	25.0	2.99	93	70-130			
cis-1,2-Dichloroethene	42.2	0.50	ug/l	25.0	21.6	82	70-125			
trans-1,2-Dichloroethene	22.7	0.50	ug/l	25.0	ND	91	75-125			
1,2-Dichloropropane	22.9	0.50	ug/l	25.0	0.500	89	75-125			
1,3-Dichloropropane	23.6	0.50	ug/l	25.0	ND	95	70-120			
2,2-Dichloropropane	24.3	1.0	ug/l	25.0	ND	97	65-140			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Analyzed: 09/23/2011 (11I0837-MS1)					**Source: PUI1044-12**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130			
cis-1,3-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	75-130			
trans-1,3-Dichloropropene	20.4	0.50	ug/l	25.0	ND	82	70-130			
Ethylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125			
Hexachlorobutadiene	24.7	1.0	ug/l	25.0	ND	99	40-150			
2-Hexanone	21.7	2.5	ug/l	25.0	ND	87	20-150			
Iodomethane	26.8	2.5	ug/l	25.0	ND	107	60-150			
Isopropylbenzene	28.4	0.50	ug/l	25.0	ND	114	75-130			
p-Isopropyltoluene	27.4	0.50	ug/l	25.0	ND	110	70-130			
Methylene Chloride	21.0	1.0	ug/l	25.0	ND	84	65-130			
4-Methyl-2-pentanone (MIBK)	21.4	2.5	ug/l	25.0	ND	85	55-135			
Methyl-tert-butyl Ether (MTBE)	20.3	0.50	ug/l	25.0	ND	81	65-140			
Naphthalene	23.8	2.5	ug/l	25.0	ND	95	40-150			
n-Propylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130			
Styrene	1.15	0.50	ug/l	25.0	ND	5	55-135			*M2*
1,1,1,2-Tetrachloroethane	22.7	0.50	ug/l	25.0	ND	91	70-125			
1,1,2,2-Tetrachloroethane	24.0	0.50	ug/l	25.0	ND	96	70-125			
Tetrachloroethene	28.8	0.50	ug/l	25.0	3.88	100	65-130			
Toluene	22.2	0.50	ug/l	25.0	ND	89	70-125			
1,2,3-Trichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	50-150			
1,2,4-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	50-150			
1,1,1-Trichloroethane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,1,2-Trichloroethane	20.0	0.50	ug/l	25.0	ND	80	75-125			
Trichloroethene	131	0.50	ug/l	25.0	116	62	70-125			*M3*
Trichlorofluoromethane	23.5	0.50	ug/l	25.0	0.190	93	65-150			
1,2,3-Trichloropropane	22.9	1.0	ug/l	25.0	ND	92	70-130			
1,2,4-Trimethylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-125			
1,3,5-Trimethylbenzene	26.8	0.50	ug/l	25.0	ND	107	75-130			
Vinyl Acetate	6.82	1.0	ug/l	25.0	ND	27	40-150			*M2*
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140			
Xylenes, Total	45.4	1.5	ug/l	50.0	ND	91	75-120			
Freon 113	24.0	2.0	ug/l	25.0	0.640	94	65-140			
Surrogate: Dibromofluoromethane	*24.8*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Dup Analyzed: 09/23/2011 (11I0837-MSD1)					**Source: PUI1044-12**					
Acetone	12.8	10	ug/l	25.0	ND	51	10-150	0.08	35	
Benzene	21.8	0.50	ug/l	25.0	ND	87	70-125	5	25	
Bromobenzene	22.7	0.50	ug/l	25.0	ND	91	75-120	6	20	
Bromochloromethane	20.0	0.50	ug/l	25.0	ND	80	75-130	2	20	
Bromodichloromethane	20.8	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	21.7	1.0	ug/l	25.0	ND	87	65-125	3	25	
Bromomethane	21.1	1.0	ug/l	25.0	ND	84	45-150	5	35	
2-Butanone (MEK)	18.2	2.5	ug/l	25.0	ND	73	15-150	3	30	
n-Butylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-130	5	30	
sec-Butylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-125	3	30	
tert-Butylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-125	5	25	
Carbon disulfide	26.3	0.50	ug/l	25.0	ND	105	65-145	6	25	
Carbon tetrachloride	22.2	0.50	ug/l	25.0	ND	89	65-135	4	25	
Chlorobenzene	22.8	0.50	ug/l	25.0	ND	91	75-120	6	20	
Chloroethane	22.6	1.0	ug/l	25.0	ND	90	65-140	0.5	25	
Chloroform	22.9	0.50	ug/l	25.0	1.19	87	70-130	3	20	
Chloromethane	20.4	1.0	ug/l	25.0	ND	82	55-145	1	35	
2-Chlorotoluene	24.5	0.50	ug/l	25.0	ND	98	70-125	6	25	
4-Chlorotoluene	25.1	0.50	ug/l	25.0	ND	101	70-125	6	25	
Dibromochloromethane	21.6	0.50	ug/l	25.0	ND	86	70-130	3	20	
1,2-Dibromo-3-chloropropane	21.3	2.5	ug/l	25.0	ND	85	50-150	5	30	
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125	4	20	
Dibromomethane	19.7	0.50	ug/l	25.0	ND	79	70-120	4	20	
1,2-Dichlorobenzene	22.6	0.50	ug/l	25.0	ND	90	75-120	5	20	
1,3-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120	4	25	
1,4-Dichlorobenzene	23.4	0.50	ug/l	25.0	ND	94	70-125	6	20	
Dichlorodifluoromethane	19.6	0.50	ug/l	25.0	ND	78	60-150	4	30	
1,1-Dichloroethane	24.2	0.50	ug/l	25.0	1.93	89	70-130	4	20	
1,2-Dichloroethane	22.2	0.50	ug/l	25.0	ND	89	65-140	3	20	
1,1-Dichloroethene	25.0	0.50	ug/l	25.0	2.99	88	70-130	5	25	
cis-1,2-Dichloroethene	40.9	0.50	ug/l	25.0	21.6	77	70-125	3	20	
trans-1,2-Dichloroethene	21.8	0.50	ug/l	25.0	ND	87	75-125	4	25	
1,2-Dichloropropane	22.0	0.50	ug/l	25.0	0.500	86	75-125	4	20	
1,3-Dichloropropane	22.6	0.50	ug/l	25.0	ND	90	70-120	5	20	
2,2-Dichloropropane	23.3	1.0	ug/l	25.0	ND	93	65-140	4	25	

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0837 Extracted: 09/23/11										
Matrix Spike Dup Analyzed: 09/23/2011 (11I0837-MSD1)					**Source: PUI1044-12**					
1,1-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	65-130	4	25	
cis-1,3-Dichloropropene	20.4	0.50	ug/l	25.0	ND	82	75-130	5	20	
trans-1,3-Dichloropropene	19.9	0.50	ug/l	25.0	ND	80	70-130	2	20	
Ethylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125	6	25	
Hexachlorobutadiene	23.1	1.0	ug/l	25.0	ND	92	40-150	7	30	
2-Hexanone	21.7	2.5	ug/l	25.0	ND	87	20-150	0.4	30	
Iodomethane	25.2	2.5	ug/l	25.0	ND	101	60-150	6	30	
Isopropylbenzene	26.9	0.50	ug/l	25.0	ND	107	75-130	6	25	
p-Isopropyltoluene	26.3	0.50	ug/l	25.0	ND	105	70-130	4	30	
Methylene Chloride	20.3	1.0	ug/l	25.0	ND	81	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135	2	25	
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0	ND	80	65-140	1	25	
Naphthalene	23.5	2.5	ug/l	25.0	ND	94	40-150	1	30	
n-Propylbenzene	26.0	0.50	ug/l	25.0	ND	104	70-130	7	30	
Styrene	0.180	0.50	ug/l	25.0	ND	1	55-135	146	35	*M2, N1*
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/l	25.0	ND	86	70-125	5	20	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0	ND	93	70-125	3	25	
Tetrachloroethene	27.1	0.50	ug/l	25.0	3.88	93	65-130	6	25	
Toluene	21.2	0.50	ug/l	25.0	ND	85	70-125	4	20	
1,2,3-Trichlorobenzene	23.1	1.0	ug/l	25.0	ND	92	50-150	2	35	
1,2,4-Trichlorobenzene	22.3	1.0	ug/l	25.0	ND	89	50-150	5	25	
1,1,1-Trichloroethane	22.6	0.50	ug/l	25.0	ND	90	70-130	4	25	
1,1,2-Trichloroethane	19.5	0.50	ug/l	25.0	ND	78	75-125	3	20	
Trichloroethene	128	0.50	ug/l	25.0	116	49	70-125	2	25	*M3*
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.190	89	65-150	5	25	
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0	ND	90	70-130	2	25	
1,2,4-Trimethylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	5	30	
1,3,5-Trimethylbenzene	25.4	0.50	ug/l	25.0	ND	101	75-130	5	25	
Vinyl Acetate	3.15	1.0	ug/l	25.0	ND	13	40-150	74	30	*M2, N1*
Vinyl chloride	22.1	0.50	ug/l	25.0	ND	88	60-140	4	25	
Xylenes, Total	42.8	1.5	ug/l	50.0	ND	86	75-120	6	15	
Freon 113	22.6	2.0	ug/l	25.0	0.640	88	65-140	6	20	
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*24.1*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0714 Extracted: 09/20/11										
Blank Analyzed: 09/21/2011 (11I0714-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.6*		*ug/l*	*20.0*		*88*	*59.9-120*			
LCS Analyzed: 09/21/2011 (11I0714-BS1)										
1,4-Dioxane	20.0	1.0	ug/l	20.0		100	80-120			
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*89*	*38-125*			
LCS Dup Analyzed: 09/21/2011 (11I0714-BSD1)										
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	80-120	2	25	
Surrogate: 1,4-Dioxane-d8	*14.3*		*ug/l*	*20.0*		*72*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*84*	*38-125*			
Matrix Spike Analyzed: 09/21/2011 (11I0714-MS1)					**Source: PUI1134-02**					
1,4-Dioxane	24.4	1.1	ug/l	22.2	2.00	101	70-130			
Surrogate: 1,4-Dioxane-d8	*17.7*		*ug/l*	*22.2*		*79*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*22.2*		*88*	*59-120*			
Matrix Spike Dup Analyzed: 09/21/2011 (11I0714-MSD1)					**Source: PUI1134-02**					
1,4-Dioxane	25.5	1.2	ug/l	23.5	2.00	100	70-130	5	25	
Surrogate: 1,4-Dioxane-d8	*18.3*		*ug/l*	*23.5*		*78*	*36-81*			
Surrogate: Nitrobenzene-d5	*22.0*		*ug/l*	*23.5*		*94*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

DATA QUALIFIERS AND DEFINITIONS

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
N1	See case narrative.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.030
Report Number: PUI1056

Sampled: 09/16/11
Received: 09/16/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E Indian School Rd STE 100
Scottsdale AZ 85251

Project/PO Number: 0009649 8.030

Project Manager: Jason.Hilker@erm.com

Phone Number: 480-994-2401

Sampler: Adam Nagle

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	M-Dioxan (8270C)								Special Instructions
~~EW-13-118-S-091611~~	WT	~~40mL / 1L~~	~~3 / 2~~	~~9/16/11~~		~~HCl / —~~	~~X~~	~~X~~	AN							PVI1056-01 9/16/11
EW-13-168-M-091611	↓	↓	↓	↓	1500	↓	X	X								-01
EW-13-268-D-091611	↓	↓	↓	↓	1020	↓	X	X								-02
GW-LI-7-091611	WT	40mL	1	—	—	HCl	X	—	—	TRIP	BLANK	—				-03
GW-EBI-7-091611	WT	~~40mL / 1L~~	~~3 / 2~~	9/16/11	1501	~~HCl / —~~	X	X								-04

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[signature] / ERM	9/16 1655			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal ✓
Relinquished By:	Date/Time:	Received in Lab By: [signature]	Date/Time: 9/16/11 1655	Sample Integrity: (Check) intact ✓ on ice ✓ 2-4°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/20/11
Received: 09/20/11
Revised: 11/06/11 09:15

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1211-01	EW-13-118-S-092011	Water
PUI1211-02	GW-EB1-9-092011	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Sample ID: PUI1211-01 (EW-13-118-S-092011 - Water)

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1211-01 (EW-13-118-S-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*103 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1211-02 (GW-EB1-9-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	**2.9**	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	**5.2**	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	**1.4**	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1211-02 (GW-EB1-9-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*103 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1211-01 (EW-13-118-S-092011 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0811	1.0	ND	1	9/22/2011	9/23/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*67 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*79 %*				
Sample ID: PUI1211-02 (GW-EB1-9-092011 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0811	1.0	ND	1	9/22/2011	9/23/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*63 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*75 %*				

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Sampled: 09/20/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Blank Analyzed: 09/25/2011 (11I0895-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Blank Analyzed: 09/25/2011 (11I0895-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.1*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Analyzed: 09/25/2011 (11I0895-BS1)										
Acetone	21.6	10	ug/l	25.0		87	10-150			
Benzene	24.0	0.50	ug/l	25.0		96	80-120			
Bromobenzene	23.7	0.50	ug/l	25.0		95	80-120			
Bromochloromethane	22.6	0.50	ug/l	25.0		90	80-125			
Bromodichloromethane	24.3	0.50	ug/l	25.0		97	80-120			
Bromoform	20.9	1.0	ug/l	25.0		83	75-130			
Bromomethane	19.1	1.0	ug/l	25.0		76	55-150			
2-Butanone (MEK)	23.0	2.5	ug/l	25.0		92	40-150			
n-Butylbenzene	25.1	0.50	ug/l	25.0		100	80-130			
sec-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-125			
tert-Butylbenzene	24.9	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	27.2	0.50	ug/l	25.0		109	70-140			
Carbon tetrachloride	26.8	0.50	ug/l	25.0		107	75-130			
Chlorobenzene	24.1	0.50	ug/l	25.0		97	80-120			
Chloroethane	22.4	1.0	ug/l	25.0		90	70-130			
Chloroform	22.7	0.50	ug/l	25.0		91	75-120			
Chloromethane	19.6	1.0	ug/l	25.0		78	60-140			
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120			
4-Chlorotoluene	24.8	0.50	ug/l	25.0		99	80-120			
Dibromochloromethane	24.5	0.50	ug/l	25.0		98	80-120			
1,2-Dibromo-3-chloropropane	25.3	2.5	ug/l	25.0		101	50-150			
1,2-Dibromoethane (EDB)	24.3	0.50	ug/l	25.0		97	80-120			
Dibromomethane	23.6	0.50	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	24.7	0.50	ug/l	25.0		99	80-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	80-120			
1,4-Dichlorobenzene	24.1	0.50	ug/l	25.0		96	80-120			
Dichlorodifluoromethane	24.0	0.50	ug/l	25.0		96	60-150			
1,1-Dichloroethane	23.6	0.50	ug/l	25.0		94	70-125			
1,2-Dichloroethane	24.0	0.50	ug/l	25.0		96	75-130			
1,1-Dichloroethene	23.9	0.50	ug/l	25.0		96	75-125			
cis-1,2-Dichloroethene	20.9	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	80-120			
1,2-Dichloropropane	23.8	0.50	ug/l	25.0		95	80-120			
1,3-Dichloropropane	23.6	0.50	ug/l	25.0		94	80-120			
2,2-Dichloropropane	28.6	1.0	ug/l	25.0		114	75-130			

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Analyzed: 09/25/2011 (11I0895-BS1)										
1,1-Dichloropropene	24.5	0.50	ug/l	25.0		98	75-120			
cis-1,3-Dichloropropene	25.1	0.50	ug/l	25.0		100	80-120			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	80-125			
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120			
Hexachlorobutadiene	24.6	1.0	ug/l	25.0		98	40-150			
2-Hexanone	24.6	2.5	ug/l	25.0		99	20-150			
Iodomethane	27.4	2.5	ug/l	25.0		110	80-130			
Isopropylbenzene	25.9	0.50	ug/l	25.0		104	80-130			
p-Isopropyltoluene	25.0	0.50	ug/l	25.0		100	80-130			
Methylene Chloride	21.4	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	26.0	2.5	ug/l	25.0		104	60-135			
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130			
Naphthalene	28.7	2.5	ug/l	25.0		115	40-150			
n-Propylbenzene	25.6	0.50	ug/l	25.0		102	75-130			
Styrene	22.6	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.2	0.50	ug/l	25.0		97	75-125			
1,1,2,2-Tetrachloroethane	24.6	0.50	ug/l	25.0		98	80-120			
Tetrachloroethene	24.6	0.50	ug/l	25.0		98	70-130			
Toluene	23.4	0.50	ug/l	25.0		94	80-120			
1,2,3-Trichlorobenzene	27.5	1.0	ug/l	25.0		110	55-150			
1,2,4-Trichlorobenzene	26.8	1.0	ug/l	25.0		107	50-150			
1,1,1-Trichloroethane	25.0	0.50	ug/l	25.0		100	75-125			
1,1,2-Trichloroethane	23.7	0.50	ug/l	25.0		95	80-120			
Trichloroethene	24.0	0.50	ug/l	25.0		96	80-120			
Trichlorofluoromethane	23.6	0.50	ug/l	25.0		94	70-150			
1,2,3-Trichloropropane	24.5	1.0	ug/l	25.0		98	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	24.9	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	29.0	1.0	ug/l	25.0		116	40-150			
Vinyl chloride	23.6	0.50	ug/l	25.0		95	70-130			
Xylenes, Total	44.3	1.5	ug/l	50.0		89	60-140			
Freon 113	25.9	2.0	ug/l	25.0		104	60-140			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*103*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Dup Analyzed: 09/25/2011 (11I0895-BSD1)										
Acetone	19.1	10	ug/l	25.0		76	10-150	13	35	
Benzene	23.5	0.50	ug/l	25.0		94	80-120	2	15	
Bromobenzene	22.9	0.50	ug/l	25.0		92	80-120	3	15	
Bromochloromethane	22.3	0.50	ug/l	25.0		89	80-125	1	15	
Bromodichloromethane	23.5	0.50	ug/l	25.0		94	80-120	3	15	
Bromoform	20.0	1.0	ug/l	25.0		80	75-130	4	20	
Bromomethane	18.6	1.0	ug/l	25.0		74	55-150	3	20	
2-Butanone (MEK)	21.3	2.5	ug/l	25.0		85	40-150	8	35	
n-Butylbenzene	24.2	0.50	ug/l	25.0		97	80-130	4	15	
sec-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-125	3	15	
tert-Butylbenzene	24.0	0.50	ug/l	25.0		96	80-120	4	15	
Carbon disulfide	26.6	0.50	ug/l	25.0		106	70-140	2	15	
Carbon tetrachloride	26.0	0.50	ug/l	25.0		104	75-130	3	20	
Chlorobenzene	23.2	0.50	ug/l	25.0		93	80-120	4	15	
Chloroethane	21.6	1.0	ug/l	25.0		86	70-130	4	15	
Chloroform	22.6	0.50	ug/l	25.0		91	75-120	0.4	15	
Chloromethane	19.2	1.0	ug/l	25.0		77	60-140	2	20	
2-Chlorotoluene	22.9	0.50	ug/l	25.0		91	80-120	5	15	
4-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Dibromochloromethane	23.5	0.50	ug/l	25.0		94	80-120	4	15	
1,2-Dibromo-3-chloropropane	23.4	2.5	ug/l	25.0		93	50-150	8	35	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120	6	15	
Dibromomethane	22.5	0.50	ug/l	25.0		90	75-120	5	15	
1,2-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
1,3-Dichlorobenzene	22.9	0.50	ug/l	25.0		92	80-120	4	15	
1,4-Dichlorobenzene	23.6	0.50	ug/l	25.0		95	80-120	2	15	
Dichlorodifluoromethane	23.1	0.50	ug/l	25.0		92	60-150	4	30	
1,1-Dichloroethane	23.5	0.50	ug/l	25.0		94	70-125	0.7	15	
1,2-Dichloroethane	23.4	0.50	ug/l	25.0		94	75-130	2	15	
1,1-Dichloroethene	24.0	0.50	ug/l	25.0		96	75-125	0.3	20	
cis-1,2-Dichloroethene	20.6	0.50	ug/l	25.0		83	80-120	1	15	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0		92	80-120	1	15	
1,2-Dichloropropane	23.1	0.50	ug/l	25.0		92	80-120	3	15	
1,3-Dichloropropane	22.1	0.50	ug/l	25.0		88	80-120	7	15	
2,2-Dichloropropane	28.9	1.0	ug/l	25.0		116	75-130	1	15	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Dup Analyzed: 09/25/2011 (11I0895-BSD1)										
1,1-Dichloropropene	23.9	0.50	ug/l	25.0		96	75-120	2	15	
cis-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-120	4	15	
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0		97	80-125	5	15	
Ethylbenzene	23.0	0.50	ug/l	25.0		92	80-120	4	15	
Hexachlorobutadiene	24.5	1.0	ug/l	25.0		98	40-150	0.5	35	
2-Hexanone	22.6	2.5	ug/l	25.0		90	20-150	9	35	
Iodomethane	27.2	2.5	ug/l	25.0		109	80-130	1	10	
Isopropylbenzene	25.2	0.50	ug/l	25.0		101	80-130	3	15	
p-Isopropyltoluene	24.4	0.50	ug/l	25.0		97	80-130	2	15	
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120	0.5	15	
4-Methyl-2-pentanone (MIBK)	24.0	2.5	ug/l	25.0		96	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130	0.2	20	
Naphthalene	27.9	2.5	ug/l	25.0		112	40-150	3	30	
n-Propylbenzene	24.4	0.50	ug/l	25.0		97	75-130	5	15	
Styrene	21.7	0.50	ug/l	25.0		87	80-120	4	15	
1,1,1,2-Tetrachloroethane	23.6	0.50	ug/l	25.0		94	75-125	3	15	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0		93	80-120	6	20	
Tetrachloroethene	24.2	0.50	ug/l	25.0		97	70-130	1	20	
Toluene	22.8	0.50	ug/l	25.0		91	80-120	3	15	
1,2,3-Trichlorobenzene	26.9	1.0	ug/l	25.0		108	55-150	2	35	
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0		104	50-150	3	30	
1,1,1-Trichloroethane	24.5	0.50	ug/l	25.0		98	75-125	2	15	
1,1,2-Trichloroethane	22.2	0.50	ug/l	25.0		89	80-120	7	15	
Trichloroethene	23.4	0.50	ug/l	25.0		94	80-120	3	15	
Trichlorofluoromethane	22.7	0.50	ug/l	25.0		91	70-150	4	25	
1,2,3-Trichloropropane	23.1	1.0	ug/l	25.0		92	70-130	6	20	
1,2,4-Trimethylbenzene	23.6	0.50	ug/l	25.0		94	80-120	3	15	
1,3,5-Trimethylbenzene	23.8	0.50	ug/l	25.0		95	80-130	4	15	
Vinyl Acetate	28.2	1.0	ug/l	25.0		113	40-150	3	25	
Vinyl chloride	21.5	0.50	ug/l	25.0		86	70-130	10	20	
Xylenes, Total	42.8	1.5	ug/l	50.0		86	60-140	3	15	
Freon 113	26.0	2.0	ug/l	25.0		104	60-140	0.4	15	
Surrogate: Dibromofluoromethane	*25.5*		*ug/l*	*25.0*		*102*	*80-130*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*99*	*80-125*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Analyzed: 09/25/2011 (11I0895-MS1)					**Source: PUI1152-04**					
Acetone	391	100	ug/l	250	222	67	10-150			
Benzene	285	5.0	ug/l	250	49.7	94	70-125			
Bromobenzene	243	5.0	ug/l	250	ND	97	75-120			
Bromochloromethane	233	5.0	ug/l	250	ND	93	75-130			
Bromodichloromethane	217	5.0	ug/l	250	ND	87	75-125			
Bromoform	181	10	ug/l	250	ND	73	65-125			
Bromomethane	187	10	ug/l	250	ND	75	45-150			
2-Butanone (MEK)	313	25	ug/l	250	103	84	15-150			
n-Butylbenzene	252	5.0	ug/l	250	3.10	99	70-130			
sec-Butylbenzene	250	5.0	ug/l	250	ND	100	70-125			
tert-Butylbenzene	254	5.0	ug/l	250	ND	102	70-125			
Carbon disulfide	182	5.0	ug/l	250	ND	73	65-145			
Carbon tetrachloride	254	5.0	ug/l	250	ND	102	65-135			
Chlorobenzene	251	5.0	ug/l	250	ND	100	75-120			
Chloroethane	222	10	ug/l	250	ND	89	65-140			
Chloroform	221	5.0	ug/l	250	ND	88	70-130			
Chloromethane	178	10	ug/l	250	ND	71	55-145			
2-Chlorotoluene	236	5.0	ug/l	250	1.90	93	70-125			
4-Chlorotoluene	241	5.0	ug/l	250	ND	96	70-125			
Dibromochloromethane	230	5.0	ug/l	250	ND	92	70-130			
1,2-Dibromo-3-chloropropane	231	25	ug/l	250	ND	92	50-150			
1,2-Dibromoethane (EDB)	242	5.0	ug/l	250	ND	97	70-125			
Dibromomethane	219	5.0	ug/l	250	ND	88	70-120			
1,2-Dichlorobenzene	248	5.0	ug/l	250	ND	99	75-120			
1,3-Dichlorobenzene	249	5.0	ug/l	250	ND	100	75-120			
1,4-Dichlorobenzene	250	5.0	ug/l	250	ND	100	70-125			
Dichlorodifluoromethane	196	5.0	ug/l	250	ND	78	60-150			
1,1-Dichloroethane	231	5.0	ug/l	250	ND	92	70-130			
1,2-Dichloroethane	221	5.0	ug/l	250	ND	88	65-140			
1,1-Dichloroethene	249	5.0	ug/l	250	ND	99	70-130			
cis-1,2-Dichloroethene	214	5.0	ug/l	250	ND	86	70-125			
trans-1,2-Dichloroethene	229	5.0	ug/l	250	ND	92	75-125			
1,2-Dichloropropane	226	5.0	ug/l	250	ND	90	75-125			
1,3-Dichloropropane	223	5.0	ug/l	250	ND	89	70-120			
2,2-Dichloropropane	280	10	ug/l	250	ND	112	65-140			

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Analyzed: 09/25/2011 (11I0895-MS1)					**Source: PUI1152-04**					
1,1-Dichloropropene	236	5.0	ug/l	250	ND	94	65-130			
cis-1,3-Dichloropropene	211	5.0	ug/l	250	ND	84	75-130			
trans-1,3-Dichloropropene	208	5.0	ug/l	250	ND	83	70-130			
Ethylbenzene	255	5.0	ug/l	250	11.7	97	70-125			
Hexachlorobutadiene	262	10	ug/l	250	ND	105	40-150			
2-Hexanone	234	25	ug/l	250	17.3	87	20-150			
Iodomethane	287	25	ug/l	250	ND	115	60-150			
Isopropylbenzene	263	5.0	ug/l	250	ND	105	75-130			
p-Isopropyltoluene	262	5.0	ug/l	250	ND	105	70-130			
Methylene Chloride	212	10	ug/l	250	ND	85	65-130			
4-Methyl-2-pentanone (MIBK)	234	25	ug/l	250	ND	94	55-135			
Methyl-tert-butyl Ether (MTBE)	373	5.0	ug/l	250	166	83	65-140			
Naphthalene	332	25	ug/l	250	28.2	121	40-150			
n-Propylbenzene	254	5.0	ug/l	250	2.10	101	70-130			
Styrene	233	5.0	ug/l	250	ND	93	55-135			
1,1,1,2-Tetrachloroethane	254	5.0	ug/l	250	ND	102	70-125			
1,1,2,2-Tetrachloroethane	221	5.0	ug/l	250	ND	88	70-125			
Tetrachloroethene	265	5.0	ug/l	250	ND	106	65-130			
Toluene	288	5.0	ug/l	250	55.9	93	70-125			
1,2,3-Trichlorobenzene	271	10	ug/l	250	ND	108	50-150			
1,2,4-Trichlorobenzene	265	10	ug/l	250	ND	106	50-150			
1,1,1-Trichloroethane	246	5.0	ug/l	250	ND	98	70-130			
1,1,2-Trichloroethane	221	5.0	ug/l	250	ND	88	75-125			
Trichloroethene	236	5.0	ug/l	250	ND	94	70-125			
Trichlorofluoromethane	222	5.0	ug/l	250	ND	89	65-150			
1,2,3-Trichloropropane	231	10	ug/l	250	ND	92	70-130			
1,2,4-Trimethylbenzene	267	5.0	ug/l	250	23.4	98	70-125			
1,3,5-Trimethylbenzene	259	5.0	ug/l	250	6.50	101	75-130			
Vinyl Acetate	262	10	ug/l	250	ND	105	40-150			
Vinyl chloride	225	5.0	ug/l	250	ND	90	60-140			
Xylenes, Total	539	15	ug/l	500	73.2	93	75-120			
Freon 113	268	20	ug/l	250	ND	107	65-140			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Dup Analyzed: 09/25/2011 (11I0895-MSD1)					**Source: PUI1152-04**					
Acetone	339	100	ug/l	250	222	47	10-150	14	35	
Benzene	267	5.0	ug/l	250	49.7	87	70-125	7	25	
Bromobenzene	231	5.0	ug/l	250	ND	92	75-120	5	20	
Bromochloromethane	215	5.0	ug/l	250	ND	86	75-130	8	20	
Bromodichloromethane	206	5.0	ug/l	250	ND	83	75-125	5	20	
Bromoform	158	10	ug/l	250	ND	63	65-125	14	25	*M2*
Bromomethane	178	10	ug/l	250	ND	71	45-150	5	35	
2-Butanone (MEK)	286	25	ug/l	250	103	73	15-150	9	30	
n-Butylbenzene	237	5.0	ug/l	250	3.10	94	70-130	6	30	
sec-Butylbenzene	238	5.0	ug/l	250	ND	95	70-125	5	30	
tert-Butylbenzene	242	5.0	ug/l	250	ND	97	70-125	5	25	
Carbon disulfide	169	5.0	ug/l	250	ND	67	65-145	8	25	
Carbon tetrachloride	240	5.0	ug/l	250	ND	96	65-135	6	25	
Chlorobenzene	233	5.0	ug/l	250	ND	93	75-120	7	20	
Chloroethane	206	10	ug/l	250	ND	82	65-140	8	25	
Chloroform	203	5.0	ug/l	250	ND	81	70-130	8	20	
Chloromethane	174	10	ug/l	250	ND	70	55-145	2	35	
2-Chlorotoluene	218	5.0	ug/l	250	1.90	86	70-125	8	25	
4-Chlorotoluene	227	5.0	ug/l	250	ND	91	70-125	6	25	
Dibromochloromethane	204	5.0	ug/l	250	ND	82	70-130	12	20	
1,2-Dibromo-3-chloropropane	211	25	ug/l	250	ND	84	50-150	9	30	
1,2-Dibromoethane (EDB)	224	5.0	ug/l	250	ND	90	70-125	8	20	
Dibromomethane	210	5.0	ug/l	250	ND	84	70-120	4	20	
1,2-Dichlorobenzene	238	5.0	ug/l	250	ND	95	75-120	4	20	
1,3-Dichlorobenzene	236	5.0	ug/l	250	ND	94	75-120	6	25	
1,4-Dichlorobenzene	238	5.0	ug/l	250	ND	95	70-125	5	20	
Dichlorodifluoromethane	197	5.0	ug/l	250	ND	79	60-150	0.6	30	
1,1-Dichloroethane	213	5.0	ug/l	250	ND	85	70-130	8	20	
1,2-Dichloroethane	204	5.0	ug/l	250	ND	82	65-140	8	20	
1,1-Dichloroethene	228	5.0	ug/l	250	ND	91	70-130	8	25	
cis-1,2-Dichloroethene	198	5.0	ug/l	250	ND	79	70-125	8	20	
trans-1,2-Dichloroethene	220	5.0	ug/l	250	ND	88	75-125	4	25	
1,2-Dichloropropane	213	5.0	ug/l	250	ND	85	75-125	6	20	
1,3-Dichloropropane	210	5.0	ug/l	250	ND	84	70-120	6	20	
2,2-Dichloropropane	274	10	ug/l	250	ND	110	65-140	2	25	

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Dup Analyzed: 09/25/2011 (11I0895-MSD1)					**Source: PUI1152-04**					
1,1-Dichloropropene	229	5.0	ug/l	250	ND	92	65-130	3	25	
cis-1,3-Dichloropropene	199	5.0	ug/l	250	ND	79	75-130	6	20	
trans-1,3-Dichloropropene	196	5.0	ug/l	250	ND	79	70-130	6	20	
Ethylbenzene	237	5.0	ug/l	250	11.7	90	70-125	7	25	
Hexachlorobutadiene	246	10	ug/l	250	ND	99	40-150	6	30	
2-Hexanone	218	25	ug/l	250	17.3	80	20-150	7	30	
Iodomethane	272	25	ug/l	250	ND	109	60-150	6	30	
Isopropylbenzene	249	5.0	ug/l	250	ND	100	75-130	5	25	
p-Isopropyltoluene	246	5.0	ug/l	250	ND	98	70-130	6	30	
Methylene Chloride	197	10	ug/l	250	ND	79	65-130	7	20	
4-Methyl-2-pentanone (MIBK)	223	25	ug/l	250	ND	89	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	362	5.0	ug/l	250	166	79	65-140	3	25	
Naphthalene	301	25	ug/l	250	28.2	109	40-150	10	30	
n-Propylbenzene	238	5.0	ug/l	250	2.10	94	70-130	6	30	
Styrene	218	5.0	ug/l	250	ND	87	55-135	7	35	
1,1,1,2-Tetrachloroethane	238	5.0	ug/l	250	ND	95	70-125	7	20	
1,1,2,2-Tetrachloroethane	215	5.0	ug/l	250	ND	86	70-125	3	25	
Tetrachloroethene	247	5.0	ug/l	250	ND	99	65-130	7	25	
Toluene	269	5.0	ug/l	250	55.9	85	70-125	7	20	
1,2,3-Trichlorobenzene	260	10	ug/l	250	ND	104	50-150	4	35	
1,2,4-Trichlorobenzene	253	10	ug/l	250	ND	101	50-150	4	25	
1,1,1-Trichloroethane	230	5.0	ug/l	250	ND	92	70-130	7	25	
1,1,2-Trichloroethane	212	5.0	ug/l	250	ND	85	75-125	4	20	
Trichloroethene	222	5.0	ug/l	250	ND	89	70-125	6	25	
Trichlorofluoromethane	205	5.0	ug/l	250	ND	82	65-150	8	25	
1,2,3-Trichloropropane	224	10	ug/l	250	ND	89	70-130	3	25	
1,2,4-Trimethylbenzene	253	5.0	ug/l	250	23.4	92	70-125	6	30	
1,3,5-Trimethylbenzene	243	5.0	ug/l	250	6.50	95	75-130	6	25	
Vinyl Acetate	249	10	ug/l	250	ND	100	40-150	5	30	
Vinyl chloride	215	5.0	ug/l	250	ND	86	60-140	4	25	
Xylenes, Total	496	15	ug/l	500	73.2	84	75-120	8	15	
Freon 113	247	20	ug/l	250	ND	99	65-140	8	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0811 Extracted: 09/22/11										
Blank Analyzed: 09/23/2011 (11I0811-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*10.3*		*ug/l*	*20.0*		*51*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*13.9*		*ug/l*	*20.0*		*69*	*59.9-120*			
LCS Analyzed: 09/23/2011 (11I0811-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*14.2*		*ug/l*	*20.0*		*71*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*90*	*38-125*			
LCS Dup Analyzed: 09/23/2011 (11I0811-BSD1)										**Q8**
1,4-Dioxane	19.9	1.0	ug/l	20.0		99	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*14.8*		*ug/l*	*20.0*		*74*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*93*	*38-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3 0096498.030	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/20/11
Scottsdale, AZ 85251	Report Number: PUI1211	Received: 09/20/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI1211

Sampled: 09/20/11
Received: 09/20/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name/Address: ERM
7272 E Indian School
Scottsdale AZ 85251

Project/PO Number: 003
0096498.030

Project Manager: Jason.Hilker@ERM.com

Phone Number: 480-988-2401

Sampler: Kyle Johnson

Fax Number:

Analysis Required: VOC (8260B); 1,4-Dioxane (8270C)

PUI 1211

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)	Special Instructions
EW-13-118-S-092011	WT	40ml / 1L	3 / 2	9/20/11	0935	HCl / –	X	X	PUI1211-01
GW-EB1-9-092011	WT	40ml / 1L	3 / 2	9/20/11	0936	HCl / –	X	X	-02

Relinquished By: [signature] Date/Time: 9/20/11 1530

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: [signature] Date/Time:

Relinquished By: Date/Time:

Received in Lab By: [signature] Date/Time: 9/20/11 1530

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓ 1.4°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Level III Data Package

Environmental Resources Management Inc.

TestAmerica Work Order Number:

PUI0650

Prepared for:

Jason Hilker
Environmental Resources Management, Inc.
7272 East Indian School Road, Suite 100
Scottsdale, AZ 85251

QA/QC DATA PACKAGE: LEVEL III

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/12/11
Received: 09/12/11
Revised: 11/02/11 14:59

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0650-01	OU3-1M-M-091211	Water
PUI0650-02	EW-21-S-091211	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
S10-Surrogate recovery was above acceptance limits.
R1-The RPD exceeded the acceptance limit.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kyli Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

Environmental Resources Management

CHAIN OF CUSTODY RECORD

NO: 3042

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

PROJECT #	PROJECT NAME
0096498.030	OU3

SAMPLER: **(PRINT NAME)** Adam Nagle **(SIGNATURE)**

RECEIVING LABORATORY: Test America, Phoenix AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	VOC (8260B)	1,4-Dioxane (8270C)								
OU3-1M-M-091211	9/12/11	1413		x	Pump	HCl / -	Y	40mL / 1L	3 / 2		x		x	x				PUI0650-01				
EW-21-S-091211	9/12/11	1504		x	Pump	HCl / -	Y	40mL / 1L	3 / 2		x		x	x						-02		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
ERM / ERM	9/12	1707			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
				9/12/11	1707

FIELD REMARKS: Level III

0.6°C / 0.2°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@ERM.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-01 (OU3-1M-M-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**0.67**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	**0.70**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Kyli Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-01 (OU3-1M-M-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	**4.9**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*103 %*				

TestAmerica Phoenix

Kyli Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-02 (EW-21-S-091211 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0627	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Bromoform	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0627	0.50	**0.76**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	L3
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Ethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-02 (EW-21-S-091211 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	L3
Isopropylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0627	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0627	0.50	**0.50**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0627	0.50	**1.9**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0627	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0627	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0627	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0627	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*102 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0650-01 (OU3-1M-M-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0534	1.0	ND	1.06	9/15/2011	9/16/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*71 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*88 %*				
Sample ID: PUI0650-02 (EW-21-S-091211 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0534	1.0	ND	1.06	9/15/2011	9/16/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*98 %*				

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QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0627-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0627-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0627-BS1)										
Acetone	21.2	10	ug/l	25.0		85	10-150			
Benzene	27.7	0.50	ug/l	25.0		111	80-120			
Bromobenzene	28.5	0.50	ug/l	25.0		114	80-120			
Bromochloromethane	26.7	0.50	ug/l	25.0		107	80-125			
Bromodichloromethane	27.7	0.50	ug/l	25.0		111	80-120			
Bromoform	26.8	1.0	ug/l	25.0		107	75-130			
Bromomethane	23.2	1.0	ug/l	25.0		93	55-150			
2-Butanone (MEK)	23.3	2.5	ug/l	25.0		93	40-150			
n-Butylbenzene	28.7	0.50	ug/l	25.0		115	80-130			
sec-Butylbenzene	28.1	0.50	ug/l	25.0		112	80-125			
tert-Butylbenzene	29.6	0.50	ug/l	25.0		118	80-120			
Carbon disulfide	33.3	0.50	ug/l	25.0		133	70-140			
Carbon tetrachloride	30.5	0.50	ug/l	25.0		122	75-130			
Chlorobenzene	28.4	0.50	ug/l	25.0		114	80-120			
Chloroethane	26.2	1.0	ug/l	25.0		105	70-130			
Chloroform	26.2	0.50	ug/l	25.0		105	75-120			
Chloromethane	22.6	1.0	ug/l	25.0		90	60-140			
2-Chlorotoluene	27.8	0.50	ug/l	25.0		111	80-120			
4-Chlorotoluene	28.6	0.50	ug/l	25.0		114	80-120			
Dibromochloromethane	30.3	0.50	ug/l	25.0		121	80-120			*L3*
1,2-Dibromo-3-chloropropane	27.5	2.5	ug/l	25.0		110	50-150			
1,2-Dibromoethane (EDB)	27.2	0.50	ug/l	25.0		109	80-120			
Dibromomethane	25.9	0.50	ug/l	25.0		104	75-120			
1,2-Dichlorobenzene	28.8	0.50	ug/l	25.0		115	80-120			
1,3-Dichlorobenzene	28.3	0.50	ug/l	25.0		113	80-120			
1,4-Dichlorobenzene	28.4	0.50	ug/l	25.0		113	80-120			
Dichlorodifluoromethane	28.2	0.50	ug/l	25.0		113	60-150			
1,1-Dichloroethane	27.7	0.50	ug/l	25.0		111	70-125			
1,2-Dichloroethane	27.0	0.50	ug/l	25.0		108	75-130			
1,1-Dichloroethene	28.2	0.50	ug/l	25.0		113	75-125			
cis-1,2-Dichloroethene	25.3	0.50	ug/l	25.0		101	80-120			
trans-1,2-Dichloroethene	27.4	0.50	ug/l	25.0		109	80-120			
1,2-Dichloropropane	27.2	0.50	ug/l	25.0		109	80-120			
1,3-Dichloropropane	26.1	0.50	ug/l	25.0		104	80-120			
2,2-Dichloropropane	29.1	1.0	ug/l	25.0		116	75-130			

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Kyli Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0627-BS1)										
1,1-Dichloropropene	28.0	0.50	ug/l	25.0		112	75-120			
cis-1,3-Dichloropropene	29.0	0.50	ug/l	25.0		116	80-120			
trans-1,3-Dichloropropene	28.9	0.50	ug/l	25.0		115	80-125			
Ethylbenzene	27.9	0.50	ug/l	25.0		112	80-120			
Hexachlorobutadiene	29.5	1.0	ug/l	25.0		118	40-150			
2-Hexanone	26.1	2.5	ug/l	25.0		105	20-150			
Iodomethane	32.9	2.5	ug/l	25.0		132	80-130			*L3*
Isopropylbenzene	30.6	0.50	ug/l	25.0		123	80-130			
p-Isopropyltoluene	29.3	0.50	ug/l	25.0		117	80-130			
Methylene Chloride	24.4	1.0	ug/l	25.0		98	70-120			
4-Methyl-2-pentanone (MIBK)	27.0	2.5	ug/l	25.0		108	60-135			
Methyl-tert-butyl Ether (MTBE)	25.5	0.50	ug/l	25.0		102	70-130			
Naphthalene	30.5	2.5	ug/l	25.0		122	40-150			
n-Propylbenzene	29.3	0.50	ug/l	25.0		117	75-130			
Styrene	27.0	0.50	ug/l	25.0		108	80-120			
1,1,1,2-Tetrachloroethane	28.9	0.50	ug/l	25.0		116	75-125			
1,1,2,2-Tetrachloroethane	26.6	0.50	ug/l	25.0		106	80-120			
Tetrachloroethene	29.3	0.50	ug/l	25.0		117	70-130			
Toluene	26.9	0.50	ug/l	25.0		108	80-120			
1,2,3-Trichlorobenzene	29.5	1.0	ug/l	25.0		118	55-150			
1,2,4-Trichlorobenzene	29.6	1.0	ug/l	25.0		118	50-150			
1,1,1-Trichloroethane	28.6	0.50	ug/l	25.0		115	75-125			
1,1,2-Trichloroethane	26.3	0.50	ug/l	25.0		105	80-120			
Trichloroethene	27.7	0.50	ug/l	25.0		111	80-120			
Trichlorofluoromethane	29.1	0.50	ug/l	25.0		116	70-150			
1,2,3-Trichloropropane	27.6	1.0	ug/l	25.0		110	70-130			
1,2,4-Trimethylbenzene	28.1	0.50	ug/l	25.0		112	80-120			
1,3,5-Trimethylbenzene	29.3	0.50	ug/l	25.0		117	80-130			
Vinyl Acetate	28.7	1.0	ug/l	25.0		115	40-150			
Vinyl chloride	24.5	0.50	ug/l	25.0		98	70-130			
Xylenes, Total	52.7	1.5	ug/l	50.0		105	60-140			
Freon 113	29.9	2.0	ug/l	25.0		120	60-140			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-125*			

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Kyli Emily
Project Manager

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0627-BSD1)										
Acetone	19.4	10	ug/l	25.0		78	10-150	9	35	
Benzene	24.4	0.50	ug/l	25.0		98	80-120	13	15	
Bromobenzene	25.4	0.50	ug/l	25.0		102	80-120	12	15	
Bromochloromethane	24.3	0.50	ug/l	25.0		97	80-125	9	15	
Bromodichloromethane	24.7	0.50	ug/l	25.0		99	80-120	11	15	
Bromoform	25.1	1.0	ug/l	25.0		100	75-130	7	20	
Bromomethane	21.1	1.0	ug/l	25.0		85	55-150	9	20	
2-Butanone (MEK)	22.0	2.5	ug/l	25.0		88	40-150	6	35	
n-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-130	15	15	
sec-Butylbenzene	24.5	0.50	ug/l	25.0		98	80-125	14	15	
tert-Butylbenzene	25.9	0.50	ug/l	25.0		104	80-120	13	15	
Carbon disulfide	29.8	0.50	ug/l	25.0		119	70-140	11	15	
Carbon tetrachloride	27.4	0.50	ug/l	25.0		110	75-130	11	20	
Chlorobenzene	25.1	0.50	ug/l	25.0		100	80-120	13	15	
Chloroethane	23.9	1.0	ug/l	25.0		95	70-130	9	15	
Chloroform	23.3	0.50	ug/l	25.0		93	75-120	12	15	
Chloromethane	20.4	1.0	ug/l	25.0		82	60-140	10	20	
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120	14	15	
4-Chlorotoluene	24.9	0.50	ug/l	25.0		99	80-120	14	15	
Dibromochloromethane	27.7	0.50	ug/l	25.0		111	80-120	9	15	
1,2-Dibromo-3-chloropropane	26.1	2.5	ug/l	25.0		105	50-150	5	35	
1,2-Dibromoethane (EDB)	25.5	0.50	ug/l	25.0		102	80-120	7	15	
Dibromomethane	23.9	0.50	ug/l	25.0		96	75-120	8	15	
1,2-Dichlorobenzene	25.9	0.50	ug/l	25.0		104	80-120	11	15	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	14	15	
1,4-Dichlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	12	15	
Dichlorodifluoromethane	25.7	0.50	ug/l	25.0		103	60-150	9	30	
1,1-Dichloroethane	24.4	0.50	ug/l	25.0		98	70-125	12	15	
1,2-Dichloroethane	24.0	0.50	ug/l	25.0		96	75-130	12	15	
1,1-Dichloroethene	25.2	0.50	ug/l	25.0		101	75-125	11	20	
cis-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	80-120	13	15	
trans-1,2-Dichloroethene	24.2	0.50	ug/l	25.0		97	80-120	12	15	
1,2-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120	12	15	
1,3-Dichloropropane	23.9	0.50	ug/l	25.0		96	80-120	9	15	
2,2-Dichloropropane	25.0	1.0	ug/l	25.0		100	75-130	15	15	

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0627-BSD1)										
1,1-Dichloropropene	25.0	0.50	ug/l	25.0		100	75-120	11	15	
cis-1,3-Dichloropropene	26.0	0.50	ug/l	25.0		104	80-120	11	15	
trans-1,3-Dichloropropene	26.4	0.50	ug/l	25.0		106	80-125	9	15	
Ethylbenzene	24.6	0.50	ug/l	25.0		99	80-120	13	15	
Hexachlorobutadiene	25.7	1.0	ug/l	25.0		103	40-150	14	35	
2-Hexanone	25.0	2.5	ug/l	25.0		100	20-150	5	35	
Iodomethane	29.6	2.5	ug/l	25.0		118	80-130	11	10	*R6*
Isopropylbenzene	26.7	0.50	ug/l	25.0		107	80-130	14	15	
p-Isopropyltoluene	25.2	0.50	ug/l	25.0		101	80-130	15	15	
Methylene Chloride	22.0	1.0	ug/l	25.0		88	70-120	10	15	
4-Methyl-2-pentanone (MIBK)	25.8	2.5	ug/l	25.0		103	60-135	5	25	
Methyl-tert-butyl Ether (MTBE)	23.5	0.50	ug/l	25.0		94	70-130	8	20	
Naphthalene	29.2	2.5	ug/l	25.0		117	40-150	4	30	
n-Propylbenzene	25.4	0.50	ug/l	25.0		102	75-130	14	15	
Styrene	24.0	0.50	ug/l	25.0		96	80-120	11	15	
1,1,1,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	75-125	10	15	
1,1,2,2-Tetrachloroethane	24.4	0.50	ug/l	25.0		97	80-120	9	20	
Tetrachloroethene	26.2	0.50	ug/l	25.0		105	70-130	11	20	
Toluene	23.8	0.50	ug/l	25.0		95	80-120	12	15	
1,2,3-Trichlorobenzene	27.7	1.0	ug/l	25.0		111	55-150	6	35	
1,2,4-Trichlorobenzene	27.2	1.0	ug/l	25.0		109	50-150	8	30	
1,1,1-Trichloroethane	25.4	0.50	ug/l	25.0		102	75-125	12	15	
1,1,2-Trichloroethane	24.1	0.50	ug/l	25.0		96	80-120	9	15	
Trichloroethene	24.3	0.50	ug/l	25.0		97	80-120	13	15	
Trichlorofluoromethane	26.5	0.50	ug/l	25.0		106	70-150	9	25	
1,2,3-Trichloropropane	25.5	1.0	ug/l	25.0		102	70-130	8	20	
1,2,4-Trimethylbenzene	24.3	0.50	ug/l	25.0		97	80-120	14	15	
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0		102	80-130	14	15	
Vinyl Acetate	27.0	1.0	ug/l	25.0		108	40-150	6	25	
Vinyl chloride	21.6	0.50	ug/l	25.0		86	70-130	13	20	
Xylenes, Total	46.7	1.5	ug/l	50.0		93	60-140	12	15	
Freon 113	26.8	2.0	ug/l	25.0		107	60-140	11	15	
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-130*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-125*			

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0627-MS1)					**Source: PUI0649-01**					
Acetone	15.3	10	ug/l	25.0	ND	61	10-150			
Benzene	23.6	0.50	ug/l	25.0	ND	94	70-125			
Bromobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	22.4	0.50	ug/l	25.0	ND	89	75-130			
Bromodichloromethane	23.0	0.50	ug/l	25.0	ND	92	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	19.2	1.0	ug/l	25.0	ND	77	45-150			
2-Butanone (MEK)	17.7	2.5	ug/l	25.0	ND	71	15-150			
n-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-130			
sec-Butylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-125			
tert-Butylbenzene	25.8	0.50	ug/l	25.0	ND	103	70-125			
Carbon disulfide	28.4	0.50	ug/l	25.0	ND	114	65-145			
Carbon tetrachloride	27.2	0.50	ug/l	25.0	ND	109	65-135			
Chlorobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Chloroethane	22.0	1.0	ug/l	25.0	ND	88	65-140			
Chloroform	22.3	0.50	ug/l	25.0	ND	89	70-130			
Chloromethane	18.8	1.0	ug/l	25.0	ND	75	55-145			
2-Chlorotoluene	23.6	0.50	ug/l	25.0	ND	94	70-125			
4-Chlorotoluene	24.4	0.50	ug/l	25.0	ND	98	70-125			
Dibromochloromethane	24.4	0.50	ug/l	25.0	ND	98	70-130			
1,2-Dibromo-3-chloropropane	22.8	2.5	ug/l	25.0	ND	91	50-150			
1,2-Dibromoethane (EDB)	22.3	0.50	ug/l	25.0	ND	89	70-125			
Dibromomethane	21.9	0.50	ug/l	25.0	ND	87	70-120			
1,2-Dichlorobenzene	24.2	0.50	ug/l	25.0	ND	97	75-120			
1,3-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	24.4	0.50	ug/l	25.0	ND	97	70-125			
Dichlorodifluoromethane	24.4	0.50	ug/l	25.0	ND	98	60-150			
1,1-Dichloroethane	23.4	0.50	ug/l	25.0	ND	93	70-130			
1,2-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	65-140			
1,1-Dichloroethene	24.5	0.50	ug/l	25.0	ND	98	70-130			
cis-1,2-Dichloroethene	21.6	0.50	ug/l	25.0	ND	86	70-125			
trans-1,2-Dichloroethene	23.7	0.50	ug/l	25.0	ND	95	75-125			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0	ND	90	75-125			
1,3-Dichloropropane	21.5	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	24.0	1.0	ug/l	25.0	ND	96	65-140			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0627-MS1)					**Source: PUI0649-01**					
1,1-Dichloropropene	24.5	0.50	ug/l	25.0	ND	98	65-130			
cis-1,3-Dichloropropene	24.6	0.50	ug/l	25.0	ND	98	75-130			
trans-1,3-Dichloropropene	23.7	0.50	ug/l	25.0	ND	95	70-130			
Ethylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	26.6	1.0	ug/l	25.0	ND	106	40-150			
2-Hexanone	19.8	2.5	ug/l	25.0	ND	79	20-150			
Iodomethane	28.2	2.5	ug/l	25.0	ND	113	60-150			
Isopropylbenzene	26.4	0.50	ug/l	25.0	ND	106	75-130			
p-Isopropyltoluene	25.4	0.50	ug/l	25.0	ND	102	70-130			
Methylene Chloride	20.0	1.0	ug/l	25.0	ND	80	65-130			
4-Methyl-2-pentanone (MIBK)	21.0	2.5	ug/l	25.0	ND	84	55-135			
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0	ND	80	65-140			
Naphthalene	26.3	2.5	ug/l	25.0	ND	105	40-150			
n-Propylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-130			
Styrene	20.7	0.50	ug/l	25.0	ND	83	55-135			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0	ND	99	70-125			
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125			
Tetrachloroethene	25.8	0.50	ug/l	25.0	ND	103	65-130			
Toluene	23.4	0.50	ug/l	25.0	0.280	93	70-125			
1,2,3-Trichlorobenzene	26.0	1.0	ug/l	25.0	ND	104	50-150			
1,2,4-Trichlorobenzene	26.1	1.0	ug/l	25.0	ND	104	50-150			
1,1,1-Trichloroethane	24.9	0.50	ug/l	25.0	ND	99	70-130			
1,1,2-Trichloroethane	21.3	0.50	ug/l	25.0	ND	85	75-125			
Trichloroethene	24.2	0.50	ug/l	25.0	0.370	96	70-125			
Trichlorofluoromethane	24.6	0.50	ug/l	25.0	ND	98	65-150			
1,2,3-Trichloropropane	21.6	1.0	ug/l	25.0	ND	86	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/l	25.0	ND	91	70-125			
1,3,5-Trimethylbenzene	24.7	0.50	ug/l	25.0	ND	99	75-130			
Vinyl Acetate	23.3	1.0	ug/l	25.0	ND	93	40-150			
Vinyl chloride	21.6	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	44.8	1.5	ug/l	50.0	ND	90	75-120			
Freon 113	26.3	2.0	ug/l	25.0	ND	105	65-140			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

TestAmerica Phoenix

Kyli Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0627-MSD1)					**Source: PUI0649-01**					
Acetone	17.2	10	ug/l	25.0	ND	69	10-150	12	35	
Benzene	22.3	0.50	ug/l	25.0	ND	89	70-125	6	25	
Bromobenzene	23.1	0.50	ug/l	25.0	ND	92	75-120	4	20	
Bromochloromethane	22.4	0.50	ug/l	25.0	ND	90	75-130	0.2	20	
Bromodichloromethane	22.1	0.50	ug/l	25.0	ND	88	75-125	4	20	
Bromoform	21.5	1.0	ug/l	25.0	ND	86	65-125	2	25	
Bromomethane	18.1	1.0	ug/l	25.0	ND	73	45-150	5	35	
2-Butanone (MEK)	18.8	2.5	ug/l	25.0	ND	75	15-150	6	30	
n-Butylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-130	7	30	
sec-Butylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	7	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	7	25	
Carbon disulfide	20.8	0.50	ug/l	25.0	ND	83	65-145	31	25	*R1*
Carbon tetrachloride	25.0	0.50	ug/l	25.0	ND	100	65-135	9	25	
Chlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120	4	20	
Chloroethane	21.1	1.0	ug/l	25.0	ND	84	65-140	4	25	
Chloroform	21.3	0.50	ug/l	25.0	ND	85	70-130	4	20	
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145	4	35	
2-Chlorotoluene	22.2	0.50	ug/l	25.0	ND	89	70-125	6	25	
4-Chlorotoluene	23.1	0.50	ug/l	25.0	ND	92	70-125	5	25	
Dibromochloromethane	24.4	0.50	ug/l	25.0	ND	98	70-130	0.08	20	
1,2-Dibromo-3-chloropropane	23.0	2.5	ug/l	25.0	ND	92	50-150	0.8	30	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0	ND	92	70-125	3	20	
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-120	2	20	
1,2-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	75-120	4	20	
1,3-Dichlorobenzene	22.6	0.50	ug/l	25.0	ND	90	75-120	5	25	
1,4-Dichlorobenzene	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dichlorodifluoromethane	22.0	0.50	ug/l	25.0	ND	88	60-150	11	30	
1,1-Dichloroethane	22.4	0.50	ug/l	25.0	ND	90	70-130	4	20	
1,2-Dichloroethane	21.9	0.50	ug/l	25.0	ND	88	65-140	0.5	20	
1,1-Dichloroethene	23.7	0.50	ug/l	25.0	ND	95	70-130	3	25	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0	ND	82	70-125	5	20	
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0	ND	88	75-125	8	25	
1,2-Dichloropropane	21.7	0.50	ug/l	25.0	ND	87	75-125	4	20	
1,3-Dichloropropane	21.6	0.50	ug/l	25.0	ND	86	70-120	0.4	20	
2,2-Dichloropropane	24.3	1.0	ug/l	25.0	ND	97	65-140	1	25	

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Kyli Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0627 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0627-MSD1)					**Source: PUI0649-01**					
1,1-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	65-130	7	25	
cis-1,3-Dichloropropene	23.0	0.50	ug/l	25.0	ND	92	75-130	7	20	
trans-1,3-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	70-130	3	20	
Ethylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-125	4	25	
Hexachlorobutadiene	23.9	1.0	ug/l	25.0	ND	96	40-150	11	30	
2-Hexanone	21.0	2.5	ug/l	25.0	ND	84	20-150	6	30	
Iodomethane	27.4	2.5	ug/l	25.0	ND	110	60-150	3	30	
Isopropylbenzene	25.0	0.50	ug/l	25.0	ND	100	75-130	5	25	
p-Isopropyltoluene	23.7	0.50	ug/l	25.0	ND	95	70-130	7	30	
Methylene Chloride	20.2	1.0	ug/l	25.0	ND	81	65-130	1	20	
4-Methyl-2-pentanone (MIBK)	22.1	2.5	ug/l	25.0	ND	88	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	21.2	0.50	ug/l	25.0	ND	85	65-140	5	25	
Naphthalene	25.6	2.5	ug/l	25.0	ND	103	40-150	3	30	
n-Propylbenzene	23.9	0.50	ug/l	25.0	ND	95	70-130	7	30	
Styrene	20.5	0.50	ug/l	25.0	ND	82	55-135	0.8	35	
1,1,1,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	70-125	4	20	
1,1,2,2-Tetrachloroethane	21.8	0.50	ug/l	25.0	ND	87	70-125	2	25	
Tetrachloroethene	24.4	0.50	ug/l	25.0	ND	97	65-130	6	25	
Toluene	21.8	0.50	ug/l	25.0	0.280	86	70-125	7	20	
1,2,3-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	50-150	5	35	
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	50-150	6	25	
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0	ND	94	70-130	5	25	
1,1,2-Trichloroethane	21.1	0.50	ug/l	25.0	ND	84	75-125	1	20	
Trichloroethene	22.5	0.50	ug/l	25.0	0.370	89	70-125	7	25	
Trichlorofluoromethane	24.2	0.50	ug/l	25.0	ND	97	65-150	2	25	
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0	ND	89	70-130	3	25	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-125	5	30	
1,3,5-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	75-130	6	25	
Vinyl Acetate	25.0	1.0	ug/l	25.0	ND	100	40-150	7	30	
Vinyl chloride	20.0	0.50	ug/l	25.0	ND	80	60-140	8	25	
Xylenes, Total	42.9	1.5	ug/l	50.0	ND	86	75-120	4	15	
Freon 113	25.2	2.0	ug/l	25.0	ND	101	65-140	4	20	
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kyli Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0534 Extracted: 09/15/11										
Blank Analyzed: 09/16/2011 (11I0534-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*19.0*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/16/2011 (11I0534-BS1)										
1,4-Dioxane	19.9	1.0	ug/l	20.0		99	80-120			
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.8*		*ug/l*	*20.0*		*94*	*38-125*			
LCS Dup Analyzed: 09/16/2011 (11I0534-BSD1)										
1,4-Dioxane	20.1	1.0	ug/l	20.0		100	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*15.1*		*ug/l*	*20.0*		*76*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*94*	*38-125*			
Matrix Spike Analyzed: 09/16/2011 (11I0534-MS1)					**Source: PUI0764-02**					
1,4-Dioxane	42.2	1.0	ug/l	20.0	19.0	116	70-130			
Surrogate: 1,4-Dioxane-d8	*12.8*		*ug/l*	*20.0*		*64*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.8*		*ug/l*	*20.0*		*99*	*59-120*			
Matrix Spike Dup Analyzed: 09/16/2011 (11I0534-MSD1)					**Source: PUI0764-02**					
1,4-Dioxane	41.3	1.0	ug/l	20.0	19.0	111	70-130	2	25	
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*36-81*			
Surrogate: Nitrobenzene-d5	*20.2*		*ug/l*	*20.0*		*101*	*59-120*			

TestAmerica Phoenix

Kyli Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0650

Sampled: 09/12/11
Received: 09/12/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kyli Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 09/17/2011

TestAmerica
Phoenix

Instrument ID	GCMS
Date:	9/17/11
Analyst	MI
Method(s)	8260/624
50 ppm Cal. Std.	PU05632
500 / 250 ppm EtOH/TBA Cal. Std.	PU05631
50 ppm SS Std.	PU05646
500 / 250 ppm EtOH/TBA SS Std.	PU05531

This table outlines the initial calibration preparation for GCMS 9 & GCMS 13.

	FINAL CONCENTRATIONS (ppb)		SPIKE AMOUNTS (uL)	
Calibration number	ISTD / Surrogates *	Target Compounds VOC / EtOH / TBA	Calibration standard 50 ppm and Ethanol/TBA standard 500 ppm /250 ppm	Final Volume (mL)
1	25	0.5 / 2.5 / 5	1	100
2	25	1 / 5 10	1	50
3	25	2 / 10 / 20	2	50
4	25	5 / 25 / 50	5	50
5	25	10 / 50 / 100	10	50
6*	**25**	**25 / 125 / 250**	**25**	**50**
7	25	50 / 250 / 500	50	50
8	25	100 / 500 / 1000	100	50
9	25	200 / 1000 / 2000	200	50

SS/ICVs are at the same level as Calibration point #6 and prepared the same way.

Reviewed By: _____ Date: 9/20/11

Injection Log

Directory: C:\HPCHEM\1\GCMS9\DATA\091711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09171101.D	1.	TUNE		17 Sep 2011 10:21
2	2	09171102.D	1.	TUNE		17 Sep 2011 10:33
3	3	09171103.D	1.	BLANK		17 Sep 2011 11:05
4	4	09171104.D	1.	BLANK		17 Sep 2011 11:36
5	5	09171105.D	1.	0.5 PPB		17 Sep 2011 12:07
6	6	09171106.D	1.	1.0 PPB		17 Sep 2011 12:40
7	7	09171107.D	1.	2.0 PPB		17 Sep 2011 13:11
8	8	09171108.D	1.	5.0 PPB		17 Sep 2011 13:43
9	9	09171109.D	1.	10.0 PPB		17 Sep 2011 14:14
10	10	09171110.D	1.	25.0 PPB		17 Sep 2011 14:45
11	11	09171111.D	1.	50.0 PPB		17 Sep 2011 15:16
12	12	09171112.D	1.	100.0 PPB		17 Sep 2011 15:48
13	13	09171113.D	1.	BLANK		17 Sep 2011 16:19
14	14	09171114.D	1.	BLANK		17 Sep 2011 16:51
15	15	09171115.D	1.	25 PPB ICV/SS		17 Sep 2011 17:22
16	16	09171116.D	1.	20 PPB ICV/SS		17 Sep 2011 17:54
17	17	09171117.D	1.	BLANK		17 Sep 2011 18:25

9/20/11

M 9/19/11

TestAmerica
Phoenix

GC/MS 09 DAILY LOG SUMMARY

DATE: 09/17/11 QC BATCH # (s) : NA

ANALYST: AA SEQUENCE FILE: C:\GCMS9\DATA\ 091711.S

CALIBRATION METHOD(S): New Curve

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
/	091711 01	Tune	2mL	NA	8260/624	NA	after retune
/	02	↓	2mL			↓	
2	03	Blank	✓			H_2O	clearout
3	04	Blank	✓				
4	05	0.5 ppb	✓				
5	06	1.0	✓				
6	07	2.0	✓				
7	08	5.0	✓				
8	09	10.0	✓				
9	10	25.0	✓				
10	11	50.0	✓				
11	12	100.0 ↓	✓				
12	13	Blank	✓				clearout
13	14	↓	✓				↓
14	15	25 ppb ICV/SS	✓				RR for AC/SC with New STD
15	16	20 ppb ICV/SS	✓				↓
16	17	Blank	✓				clearout

AA 9/17/11

STANDARD ID NUMBERS

ICV / H_2O LCS: PM05646, 05531

CCV/CALIBRATION STD: PM05622, 05631

Surr/Internal Std: PM05552

@ ~~IS/Surrogate~~/BFB: PM05529

VOA VIAL LOT #: NA

REQUIRED REVIEWS

NA PrepARATION: NA

↓ PrepARATION: ↓

ARCHON REVIEWED By/Date: AA 9/17/11

SEQUENCE REVIEWED By/Date: 29 of 404

FINAL REVIEWER / Date: SR 9/20/11

@ AA 9/17/11

Calibration Status Report GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	5	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D
2	2	10	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D
3	3	20	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D
4	4	50	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D
5	5	100	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D
6	6	250	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D
7	7	500	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D
8	8	1000	200	C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Sep 19 07:25 2011	Sep 19 07:12 19111	17 Sep 2011 12:07 pm
2	2	Sep 19 07:25 2011	Sep 19 07:14 19111	17 Sep 2011 12:40 pm
3	3	Sep 19 07:26 2011	Sep 19 07:15 19111	17 Sep 2011 1:11 pm
4	4	Sep 19 07:26 2011	Sep 19 07:16 19111	17 Sep 2011 1:43 pm
5	5	Sep 19 07:26 2011	Sep 19 07:19 19111	17 Sep 2011 2:14 pm
6	6	Sep 19 07:26 2011	Sep 19 07:20 19111	17 Sep 2011 2:45 pm
7	7	Sep 19 07:26 2011	Sep 19 07:23 19111	17 Sep 2011 3:16 pm
8	8	Sep 19 07:26 2011	Sep 19 07:24 19111	17 Sep 2011 3:48 pm

091711.M Mon Sep 19 13:57:34 2011

M 9/19/11

9/20/11

RESPONSE FACTOR REPORT
Operator_____
Standard Lot_____
Reviewed by_____
GCMS9

9/20/11

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

Calibration File
1 =09171105.D 2 =09171106.D 3 =09171107.D 4 =09171108.D
6 =09171110.D 7 =09171111.D 8 =09171112.D = =

	Compound	1	2	3	4	5	6	7	8	Avg	%RSD
I	TBA-d9	ISTD									
T	Ethanol				0.367	0.307	0.312	0.258	0.242	0.297	16.75 L
T	tert-Butanol (TBA)			2.102	1.959	1.787	1.747	1.702	1.611	1.818	9.92
I	Pentafluorobenzene	ISTD									
T	Dichlorodifluoromethane	0.885	0.809	0.752	0.790	0.803	0.854	0.856	0.788	0.817	5.39
P	Chloromethane		1.393	1.306	1.312	1.293	1.223	1.153	0.933	1.230	12.30
C	Vinyl Chloride	1.003	0.935	0.898	0.910	0.835	0.763	0.671		0.859	13.05 <30%
#											
T	1,3-Butadiene	0.595	0.554	0.544	0.566	0.534	0.517	0.472		0.540	7.20
T	Bromomethane	0.771	0.720	0.717	0.694	0.674	0.643	0.637	0.550	0.676	9.91
T	Chloroethane	0.580	0.579	0.542	0.544	0.518	0.520	0.518	0.453	0.532	7.60
	Acrolein			0.059	0.048	0.050	0.051	0.047	0.049	0.051	8.34
T	Trichlorofluoromethane	0.753	0.691	0.679	0.693	0.699	0.716	0.741	0.706	0.710	3.61
T	Acetone		0.993	0.682	0.341	0.315	0.188	0.226		0.458	* 68.86 Q
	Acrylonitrile		0.153	0.163	0.158	0.148	0.148	0.148	0.138	0.151	5.34
T	Iodomethane	1.109	1.055	1.058	1.023	1.030	1.014	1.037	0.971	1.037	3.83
T	1,1-Dichloroethene	0.715	0.688	0.638	0.615	0.607	0.614	0.605	0.571	0.632	7.49
T	Methylene Chloride	1.013	0.871	0.837	0.798	0.769	0.753	0.728	0.675	0.805	12.88
T	Freon 113	0.666	0.630	0.595	0.613	0.569	0.619	0.591	0.564	0.606	5.53
T	Carbon Disulfide	1.685	1.535	1.678	1.635	1.708	1.696	1.832	1.649	1.677	4.95
T	trans-1,2-Dichloroethene	0.862	0.841	0.866	0.841	0.833	0.835	0.832	0.766	0.834	3.65
T	MTBE	1.418	1.364	1.428	1.394	1.401	1.392	1.387	1.313	1.387	2.57
P	1,1-Dichloroethane	1.526	1.548	1.599	1.574	1.570	1.554	1.532	1.388	1.536	4.19
T	Vinyl Acetate	0.965	0.858	0.996	1.045	1.025	1.228	1.189	1.212	1.065	12.46
T	n-Hexane	0.206	0.165	0.152	0.156	0.148	0.164	0.150	0.137	0.160	13.02
T	2-Butanone (MEK)		0.055	0.057	0.052	0.057	0.048	0.052	0.043	0.052	9.83
T	Diisopropylether (DIPE)	3.353	3.346	3.424	3.355	3.293	3.161	2.979	2.632	3.193	8.37
T	cis-1,2-Dichloroethene	0.946	0.941	0.943	0.909	0.894	0.884	0.869	0.808	0.899	5.23

Acetone %RSD greater than 50%. Does not comply with SOP criteria but meets method criteria. See CAR #15103

Mg 9/19/11

T	Bromochloromethane	0.359	0.380	0.389	0.393	0.383	0.384	0.381	0.360	0.378	3.32
C	Chloroform	1.454	1.506	1.507	1.519	1.471	1.440	1.386	1.254	1.442	6.08 <30%
#											
T	2,2-Dichloropropane	0.628	0.560	0.624	0.589	0.638	0.649	0.682	0.611	0.623	5.97
T	(ETBE) 2-Ethoxy-2-methyl propane	1.902	1.762	2.015	1.879	1.944	1.935	1.944	1.772	1.894	4.63
S	Dibromofluoromethane(surr)	0.567	0.573	0.582	0.588	0.576	0.571	0.572	0.575	0.576	1.19
T	Tetrahydrofuran		0.111	0.078	0.053	0.048	0.048	0.045	0.044	0.061	41.00 L
T	1,2-Dichloroethane	0.841	0.898	0.904	0.906	0.903	0.891	0.882	0.818	0.880	3.72
T	1,1,1-Trichloroethane	0.981	0.926	0.980	1.013	1.019	1.025	1.023	0.945	0.989	3.82
T	(TAME) tert-Amyl methyl ether	1.297	1.232	1.376	1.295	1.309	1.358	1.410	1.290	1.321	4.29
I	1,4-Difluorobenzene	----------ISTD----------									
T	1,1-Dichloropropene	0.632	0.626	0.601	0.616	0.625	0.626	0.604	0.555	0.611	4.08
T	Carbon Tetrachloride	0.517	0.490	0.508	0.527	0.531	0.554	0.552	0.521	0.525	4.08
T	Benzene	1.844	1.828	1.812	1.784	1.771	1.730	1.652	1.461	1.735	7.30
T	Dibromomethane	0.229	0.228	0.248	0.253	0.258	0.249	0.243	0.226	0.242	5.14
C	1,2-Dichloropropane	0.506	0.496	0.505	0.502	0.506	0.482	0.462	0.412	0.484	6.75 <30%
#											
T	Trichloroethene	0.513	0.504	0.494	0.486	0.476	0.470	0.455	0.411	0.476	6.78
T	Bromodichloromethane	0.523	0.551	0.580	0.583	0.611	0.600	0.600	0.550	0.575	5.30
	2-Chloroethyl vinylether	0.127	0.130	0.142	0.160	0.172	0.177	0.177	0.171	0.157	13.45
T	cis-1,3-Dichloropropene	0.538	0.583	0.602	0.641	0.671	0.670	0.661	0.610	0.622	7.62
T	4-Methyl-2-pentanone (MIBK)	0.250	0.267	0.274	0.289	0.296	0.299	0.294	0.280	0.281	5.99
T	trans-1,3-Dichloropropene	0.396	0.412	0.463	0.498	0.521	0.531	0.530	0.496	0.481	10.87
T	1,1,2-Trichloroethane	0.277	0.297	0.306	0.302	0.301	0.297	0.290	0.272	0.293	4.17
S	Toluene-d8 (surr)	1.051	1.063	1.053	1.063	1.072	1.069	1.048	1.053	1.059	0.83
C	Toluene	1.108	1.037	1.053	1.036	1.007	0.977	0.933	0.817	0.996	8.96 <30%
#											
I	Chlorobenzene-d5	----------ISTD----------									
T	1,3-Dichloropropane	0.592	0.586	0.602	0.599	0.581	0.560	0.545	0.495	0.570	6.32
T	2-Hexanone		0.237	0.230	0.205	0.247	0.212	0.235	0.202	0.224	7.80
T	Dibromochloromethane	0.330	0.336	0.378	0.396	0.412	0.421	0.427	0.411	0.389	9.72
T	1,2-Dibromoethane	0.292	0.320	0.360	0.356	0.345	0.345	0.342	0.324	0.335	6.65
T	Tetrachloroethene	0.439	0.389	0.410	0.393	0.391	0.379	0.370	0.340	0.389	7.40
T	1,1,1,2-Tetrachloroethane	0.428	0.391	0.450	0.457	0.451	0.451	0.443	0.417	0.436	5.14
P	Chlorobenzene	1.392	1.361	1.415	1.368	1.363	1.304	1.270	1.128	1.325 70.3	6.96
C	Ethylbenzene	2.332	2.171	2.287	2.211	2.168	2.034	1.897	1.613	2.089	11.34 <30%
#											
T	m,p-Xylene	1.019	0.926	0.919	0.861	0.847	0.800	0.772	0.678	0.853	12.33
T	Styrene	1.081	1.159	1.229	1.299	1.272	1.235	1.188	1.040	1.188	7.62
T	o-Xylene	0.896	0.846	0.884	0.831	0.808	0.758	0.722	0.602	0.793	12.24
S	4-Bromofluorobenzene (surr)	0.464	0.465	0.479	0.476	0.465	0.458	0.447	0.441	0.462	2.80
I	1,4-Dichlorobenzene-d4	----------ISTD----------									
P	Bromoform	0.270	0.336	0.377	0.441	0.482	0.499	0.527	0.546	0.435 70.1	22.60 L
P	1,1,2,2-Tetrachloroethane	0.714	0.818	0.849	0.853	0.789	0.755	0.697	0.604	0.760 70.3	11.25
T	1,2,3-Trichloropropane	0.208	0.207	0.207	0.215	0.213	0.209	0.210	0.206	0.209	1.44

T	trans-1,4-Dichloro-2-butene			0.145	0.172	0.194	0.207	0.214	0.208	0.190	14.00
T	Isopropylbenzene	4.378	4.363	4.338	4.427	4.320	4.133	3.935	3.500	4.174	7.59
T	Bromobenzene	1.143	1.127	1.130	1.138	1.114	1.100	1.073	1.030	1.107	3.48
T	n-Propylbenzene	5.823	5.628	5.608	5.695	5.505	5.289	4.879	4.229	5.332	10.00
T	2-Chlorotoluene	3.740	3.556	3.494	3.487	3.357	3.255	3.062	2.699	3.331	9.80
T	4-Chlorotoluene	3.440	3.471	3.486	3.469	3.404	3.288	3.070	2.689	3.290	8.51
T	1,3,5-Trimethylbenzene	3.827	3.822	3.830	3.825	3.736	3.628	3.420	2.994	3.635	8.15
T	tert-Butylbenzene	3.090	3.152	3.101	3.254	3.118	3.030	2.885	2.552	3.023	7.19
T	1,2,4-Trimethylbenzene	3.933	3.936	3.961	3.918	3.861	3.685	3.416	3.012	3.715	9.12
T	sec-Butylbenzene	5.387	5.137	4.954	4.954	4.767	4.603	4.183	3.646	4.704	11.88
T	1,3-Dichlorobenzene	2.154	2.160	2.166	2.108	2.069	2.036	1.950	1.773	2.052	6.56
T	1,4-Dichlorobenzene	2.269	2.166	2.173	2.046	2.052	1.970	1.900	1.668	2.031	9.27
T	4-Isopropyltoluene	4.088	4.151	4.062	3.959	3.924	3.804	3.508	3.026	3.815	9.90
T	1,2-Dichlorobenzene	1.769	1.753	1.886	1.851	1.844	1.809	1.753	1.591	1.782	5.12
T	n-Butylbenzene	4.236	3.952	3.792	3.854	3.753	3.656	3.382	2.838	3.683	11.38
T	1,2-Dibromo-3-chloropropane		0.082	0.091	0.085	0.098	0.102	0.105	0.103	0.095	9.74
T	1,2,4-Trichlorobenzene	1.177	1.117	1.142	1.125	1.209	1.244	1.270	1.208	1.187	4.71
T	Naphthalene	1.277	1.280	1.435	1.491	1.667	1.738	1.774	1.719	1.548	13.20
T	Hexachlorobutadiene	0.849	0.769	0.699	0.656	0.697	0.712	0.728	0.704	0.727	8.07
T	1,2,3-Trichlorobenzene	0.866	0.898	0.879	0.873	0.977	0.992	1.013	0.992	0.936	6.68

(#) = Out of Range

091711.M Mon Sep 19 13:46:06 2011

Compound List Report GCMS9

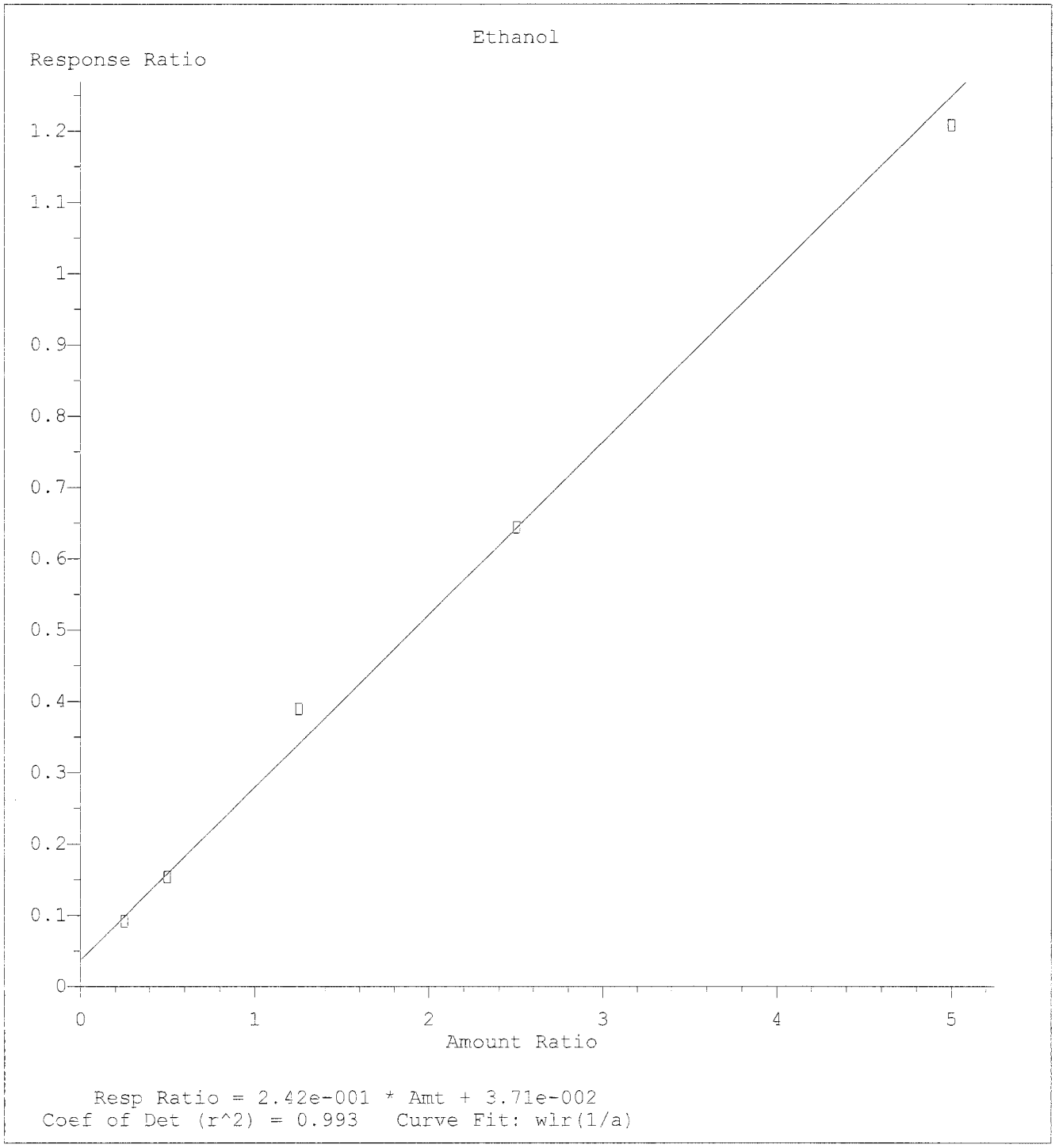
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
Total Cpnds : 88

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	7.59	1.000	A	0	A	B
2	T	Ethanol	45	6.18	0.814	L	1	A	B
3	T	tert-Butanol (TBA)	59	7.69	1.013	A	1	A	B
4	I	Pentafluorobenzene	168	10.71	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.88	0.456	A	1	A	B
6	P	Chloromethane	50	5.13	0.480	A	1	A	B
7	C	Vinyl Chloride	62	5.47	0.511	A	1	A	B
8	T	1,3-Butadiene	54	5.56	0.520	A	2	A	B
9	T	Bromomethane	94	6.00	0.561	A	1	A	B
10	T	Chloroethane	64	6.19	0.578	A	2	A	B
11		Acrolein	56	6.95	0.649	A	1	A	B
12	T	Trichlorofluoromethane	101	7.07	0.661	A	1	A	B
13	T	Acetone	43	7.12	0.665	Q	1	A	L
14		Acrylonitrile	53	7.75	0.724	A	1	A	B
15	T	Iodomethane	142	7.76	0.725	A	2	A	B
16	T	1,1-Dichloroethene	96	7.71	0.721	A	2	A	L
17	T	Methylene Chloride	84	7.87	0.735	A	2	A	B
18	T	Freon 113	101	8.01	0.748	A	2	A	B
19	T	Carbon Disulfide	76	8.21	0.767	A	2	A	B
20	T	trans-1,2-Dichloroethene	96	8.75	0.817	A	2	A	B
21	T	MTBE	73	8.88	0.829	A	1	A	B
22	P	1,1-Dichloroethane	63	9.07	0.847	A	2	A	B
23	T	Vinyl Acetate	43	9.21	0.861	A	1	A	B
24	T	n-Hexane	86	9.57	0.894	A	1	A	B
25	T	2-Butanone (MEK)	72	9.59	0.896	A	2	A	B
26	T	Diisopropylether (DIPE)	45	9.60	0.897	A	3	A	B
27	T	cis-1,2-Dichloroethene	96	9.80	0.915	A	2	A	B
28	T	Bromochloromethane	128	10.01	0.935	A	2	A	B
29	C	Chloroform	83	10.06	0.939	A	2	A	B
30	T	2,2-Dichloropropane	77	10.17	0.950	A	2	A	B
31	T	(ETBE) 2-Ethoxy-2-methyl propa	59	10.12	0.945	A	2	A	B
32	S	Dibromofluoromethane(surr)	113	10.22	0.954	A	0	A	B
33	T	Tetrahydrofuran	72	10.48	0.979	L	2	A	B
34	T	1,2-Dichloroethane	62	10.90	1.018	A	2	A	B
35	T	1,1,1-Trichloroethane	97	11.03	1.031	A	2	A	B
36	T	(TAME) tert-Amyl methyl ether	73	11.73	1.095	A	3	A	R
37	I	1,4-Difluorobenzene	114	11.83	1.000	A	0	A	B
38	T	1,1-Dichloropropene	75	11.26	0.952	A	2	A	B
39	T	Carbon Tetrachloride	117	11.51	0.973	A	2	A	B
40	T	Benzene	78	11.56	0.977	A	1	A	B
41	T	Dibromomethane	93	12.27	1.038	A	2	A	B
42	C	1,2-Dichloropropane	63	12.32	1.041	A	2	A	B
43	T	Trichloroethene	95	12.37	1.046	A	3	A	B
44	T	Bromodichloromethane	83	12.43	1.051	A	2	A	B
45		2-Chloroethyl vinylether	63	12.94	1.094	A	1	A	B
46	T	cis-1,3-Dichloropropene	75	13.26	1.121	A	2	A	B
47	T	4-Methyl-2-pentanone (MIBK)	43	13.39	1.133	A	1	A	L
48	T	trans-1,3-Dichloropropene	75	13.82	1.168	A	2	A	B
49	T	1,1,2-Trichloroethane	97	14.04	1.187	A	2	A	Q
50	S	Toluene-d8 (surr)	98	14.20	1.201	A	0	A	B
51	C	Toluene	92	14.30	1.210	A	2	A	Q
52	I	Chlorobenzene-d5	117	16.16	1.000	A	0	A	B
53	T	1,3-Dichloropropane	76	14.35	0.888	A	1	A	B
54	T	2-Hexanone	43	14.54	0.900	A	2	A	B
55	T	Dibromochloromethane	129	14.73	0.912	A	1	A	B
56	T	1,2-Dibromoethane	107	15.07	0.933	A	1	A	B
57	T	Tetrachloroethene	164	15.29	0.946	A	2	A	B
58	T	1,1,1,2-Tetrachloroethane	131	16.09	0.996	A	2	A	B
59	P	Chlorobenzene	112	16.21	1.003	A	2	A	B

60	C		Ethylbenzene	91	16.46	1.019	A	1	A	B
61		T	m,p-Xylene	106	16.72	1.035	A	2	A	B
62		T	Styrene	104	17.18	1.063	A	3	A	B
63		T	o-Xylene	106	17.28	1.069	A	2	A	B
64	S		4-Bromofluorobenzene (surr)	95	17.84	1.104	A	2	A	B
65	I		1,4-Dichlorobenzene-d4	152	19.60	1.000	A	2	A	B
66	P		Bromoform	173	16.90	0.862	L	1	A	B
67	P		1,1,2,2-Tetrachloroethane	83	17.26	0.881	A	2	A	B
68		T	1,2,3-Trichloropropane	110	17.46	0.891	A	2	A	R
69		T	trans-1,4-Dichloro-2-butene	53	17.48	0.892	A	2	A	B
70		T	Isopropylbenzene	105	17.77	0.907	A	1	A	L
71		T	Bromobenzene	156	18.14	0.926	A	2	A	B
72		T	n-Propylbenzene	91	18.38	0.938	A	1	A	B
73		T	2-Chlorotoluene	91	18.53	0.945	A	1	A	R
74		T	4-Chlorotoluene	91	18.64	0.951	A	1	A	R
75		T	1,3,5-Trimethylbenzene	105	18.78	0.958	A	1	A	B
76		T	tert-Butylbenzene	119	19.16	0.978	A	2	A	B
77		T	1,2,4-Trimethylbenzene	105	19.30	0.985	A	1	A	B
78		T	sec-Butylbenzene	105	19.44	0.992	A	1	A	R
79		T	1,3-Dichlorobenzene	146	19.55	0.998	A	2	A	R
80		T	1,4-Dichlorobenzene	146	19.63	1.002	A	2	A	R
81		T	4-Isopropyltoluene	119	19.66	1.003	A	2	A	R
82		T	1,2-Dichlorobenzene	146	20.07	1.024	A	2	A	B
83		T	n-Butylbenzene	91	20.16	1.029	A	2	A	B
84		T	1,2-Dibromo-3-chloropropane	75	20.64	1.053	A	2	A	B
85		T	1,2,4-Trichlorobenzene	180	22.38	1.142	A	2	A	B
86		T	Naphthalene	128	22.73	1.160	A	1	A	B
87		T	Hexachlorobutadiene	225	22.77	1.162	A	2	A	B
88		T	1,2,3-Trichlorobenzene	180	23.00	1.174	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

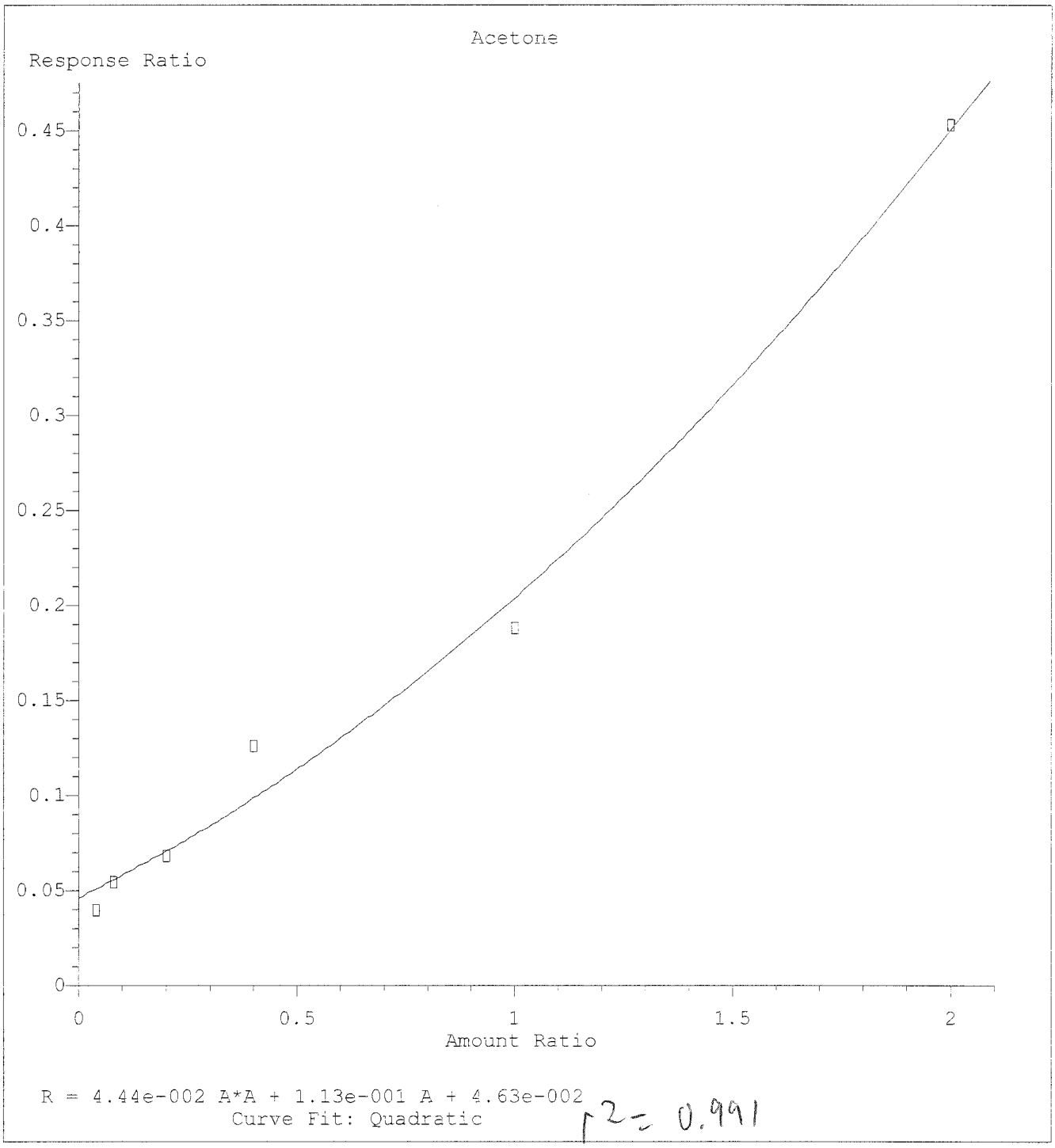
091711.M Mon Sep 19 13:57:41 2011



Method Name: C:\HPCHEM\1\GCMS9\METHODS\091711.M
Calibration Table Last Updated: Mon Sep 19 07:37:03 2011

9/20/11

M 9/19/11



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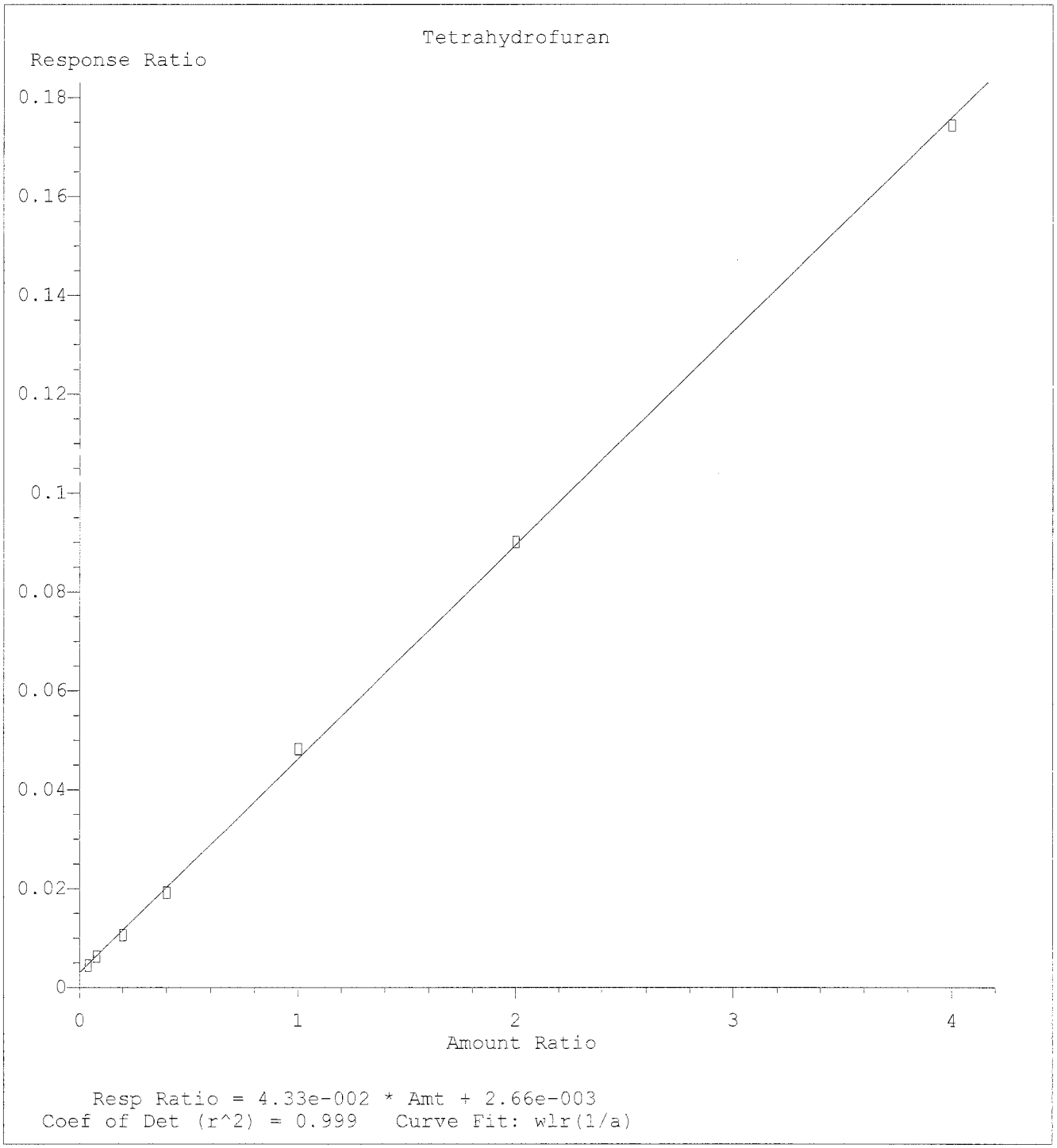
Calibration Table Last Updated: Mon Sep 19 07:37:03 2011

9/20/11

M 9/19/11



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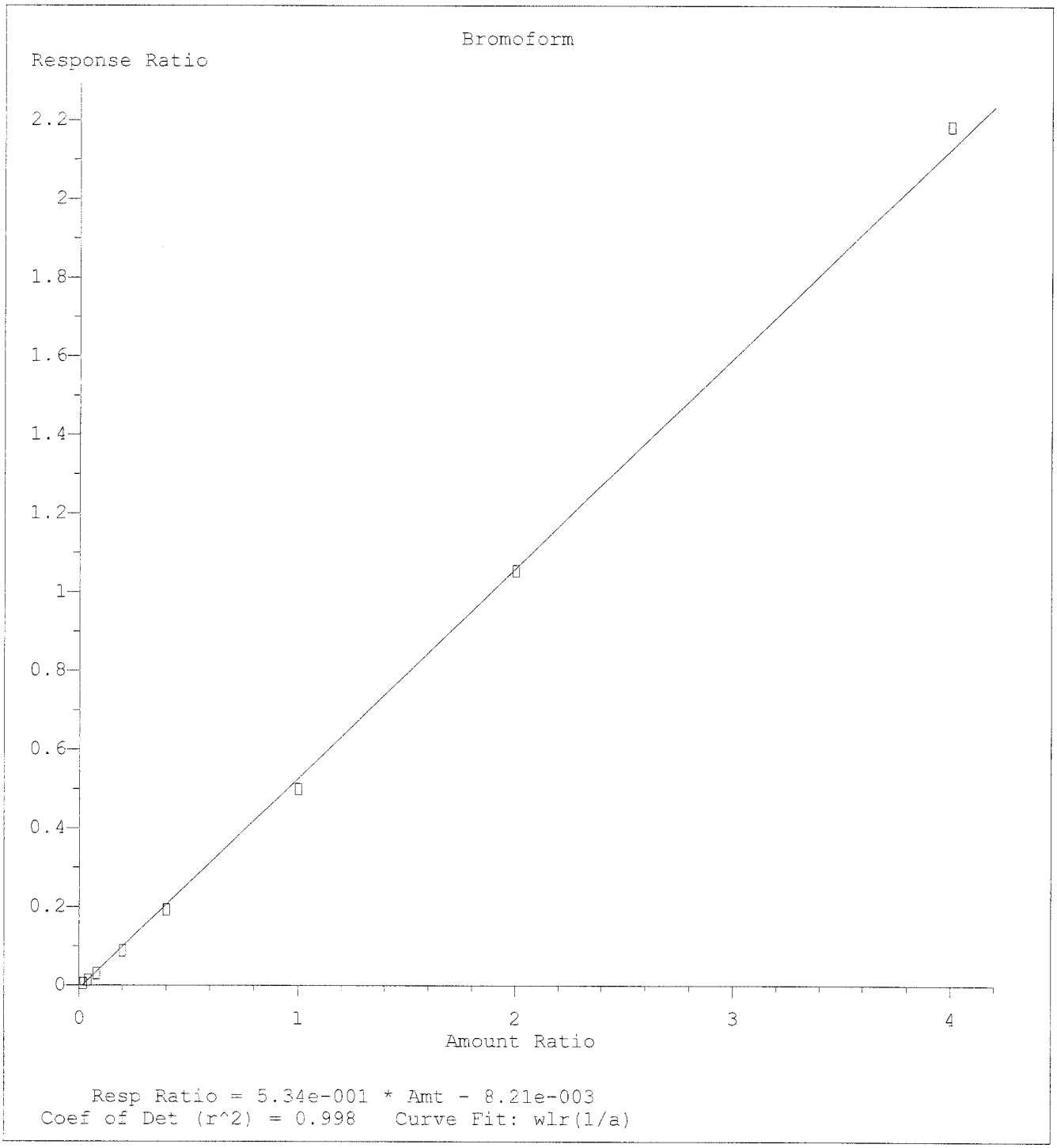
Calibration Table Last Updated: Mon Sep 19 07:37:03 2011

9/20/11

M 9/19/11



Method Name: C:\HPCHEM\1\GCMS9\METHODS\091711.M
Calibration Table Last Updated: Mon Sep 19 07:37:03 2011

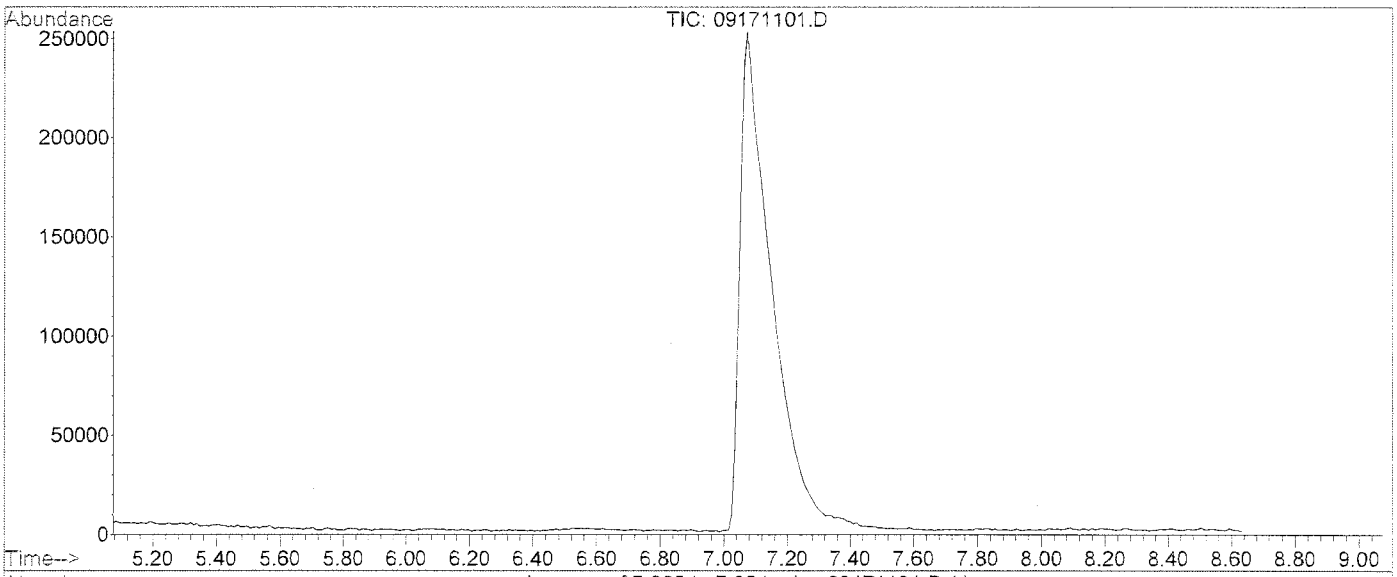
✓ 9/20/11

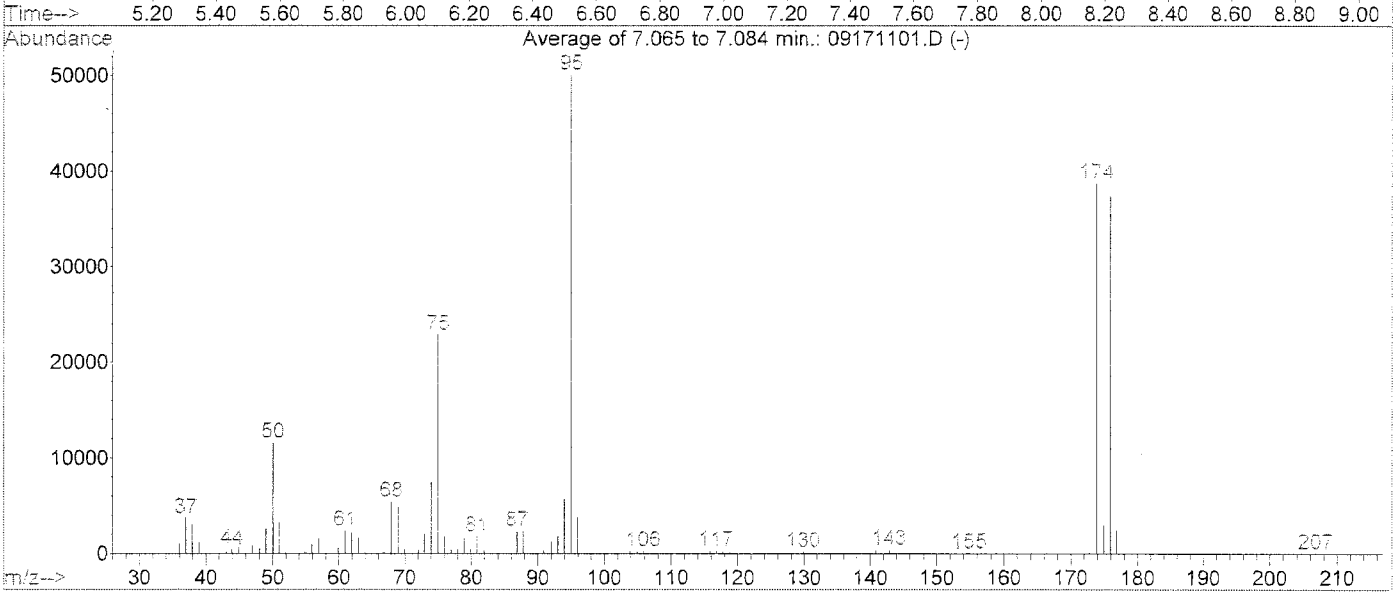
M 9/19/11

Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171101.D Vial: 1
Acq On : 17 Sep 2011 10:21 am Operator: KH
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260

9/20/11





Spectrum Information: Average of 7.065 to 7.084 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	11566	PASS
75	95	30	60	45.6	22880	PASS
95	95	100	100	100.0	50125	PASS
96	95	5	9	7.5	3754	PASS
173	174	0.00	2	0.3	110	PASS
174	95	50	100	77.3	38725	PASS
175	174	5	9	7.6	2955	PASS
176	174	95	101	96.5	37363	PASS
177	176	5	9	6.5	2422	PASS

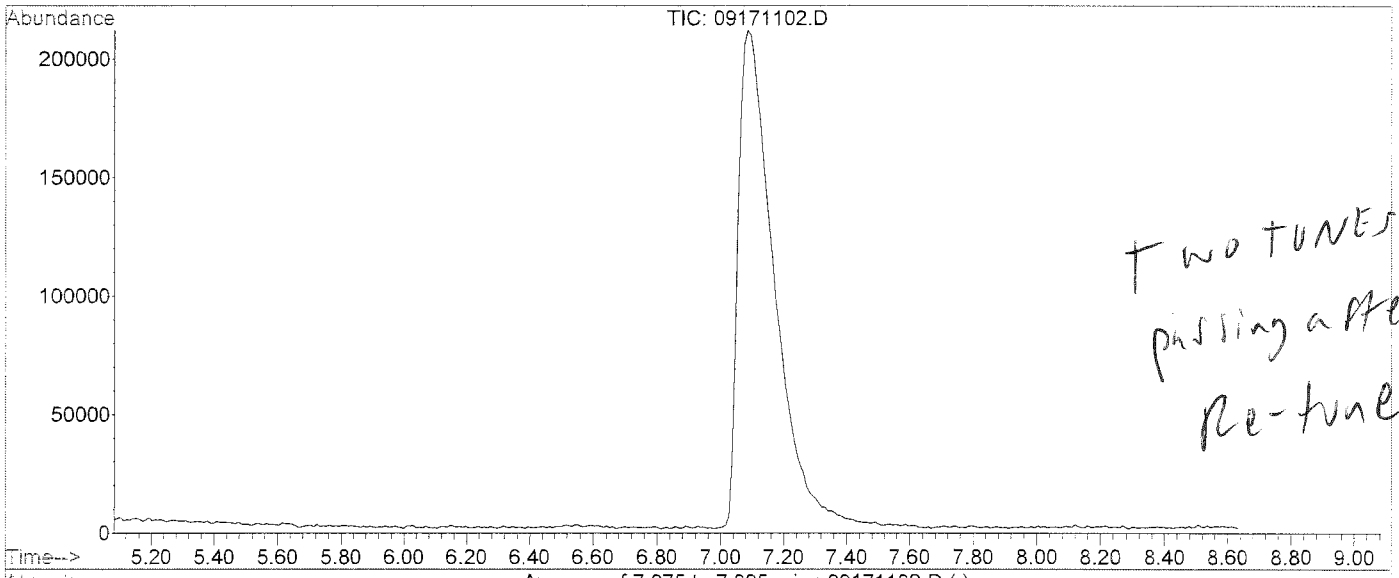
09171101.D 091611.M Mon Sep 19 13:15:00 2011

MH 9/19

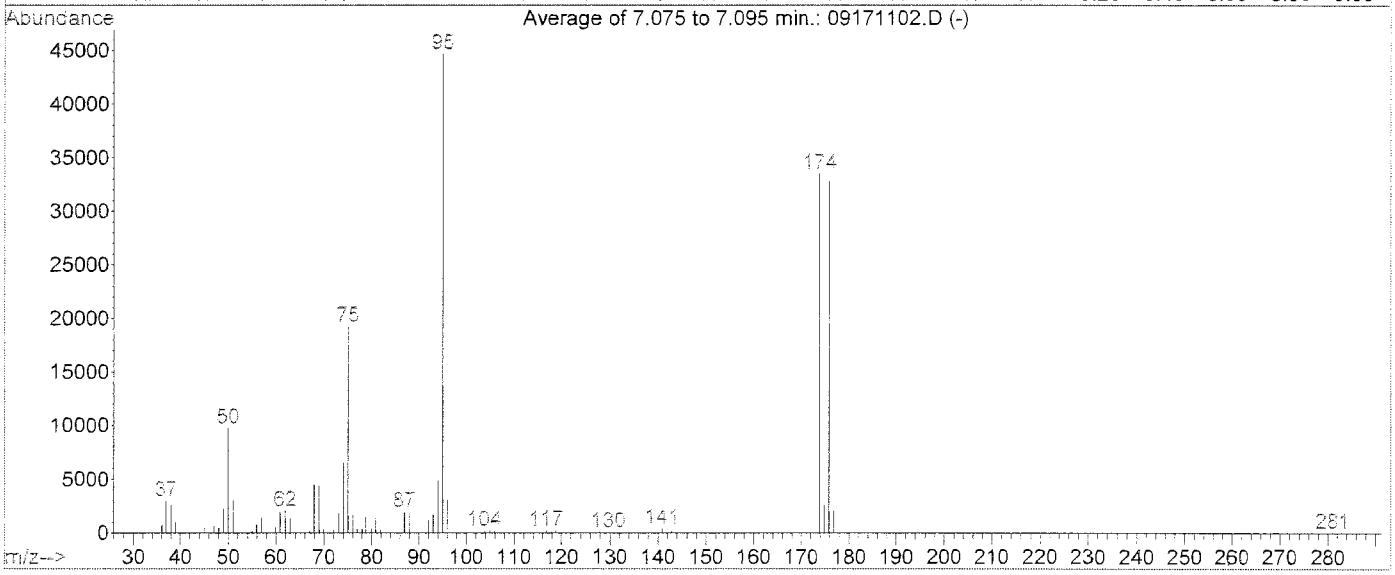
Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171102.D Vial: 2
Acq On : 17 Sep 2011 10:33 am Operator: KH
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260

9/20/11



Two TUNES passing after Re-tune.



Spectrum Information: Average of 7.075 to 7.095 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	9749	PASS
75	95	30	60	43.0	19216	PASS
95	95	100	100	100.0	44680	PASS
96	95	5	9	6.9	3066	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.0	33496	PASS
175	174	5	9	7.6	2550	PASS
176	174	95	101	97.9	32795	PASS
177	176	5	9	6.2	2026	PASS

09171102.D 091611.M Mon Sep 19 13:15:04 2011

M 9/19/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171104.D Vial: 4
Acq On : 17 Sep 2011 11:36 am Operator: KH
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:15 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	105633	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	601620	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	991429	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	858523	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	372188	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	328589	27.91 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.64%	
50) Toluene-d8 (surr)	14.21	98	1029381	27.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 109.88%	
64) 4-Bromofluorobenzene (surr	17.83	95	393528	29.48 ug/L	0.00
Spiked Amount 25.000			Recovery	= 117.92%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	174	Below Cal	1
13) Acetone	7.13	43	17561	0.87 ug/L	91
33) Tetrahydrofuran	10.48	72	1636	1.41 ug/L #	58
36) (TAME) tert-Amyl methyl et	11.82	73	10246	0.36 ug/L #	30
61) m,p-Xylene	16.72	106	3834	0.14 ug/L	88
81) 4-Isopropyltoluene	19.66	119	4676	0.09 ug/L	93
83) n-Butylbenzene	20.16	91	5442	0.11 ug/L	96
85) 1,2,4-Trichlorobenzene	22.37	180	2256	0.13 ug/L	93
87) Hexachlorobutadiene	22.77	225	1401	0.13 ug/L	90
88) 1,2,3-Trichlorobenzene	23.00	180	1791	0.13 ug/L	96

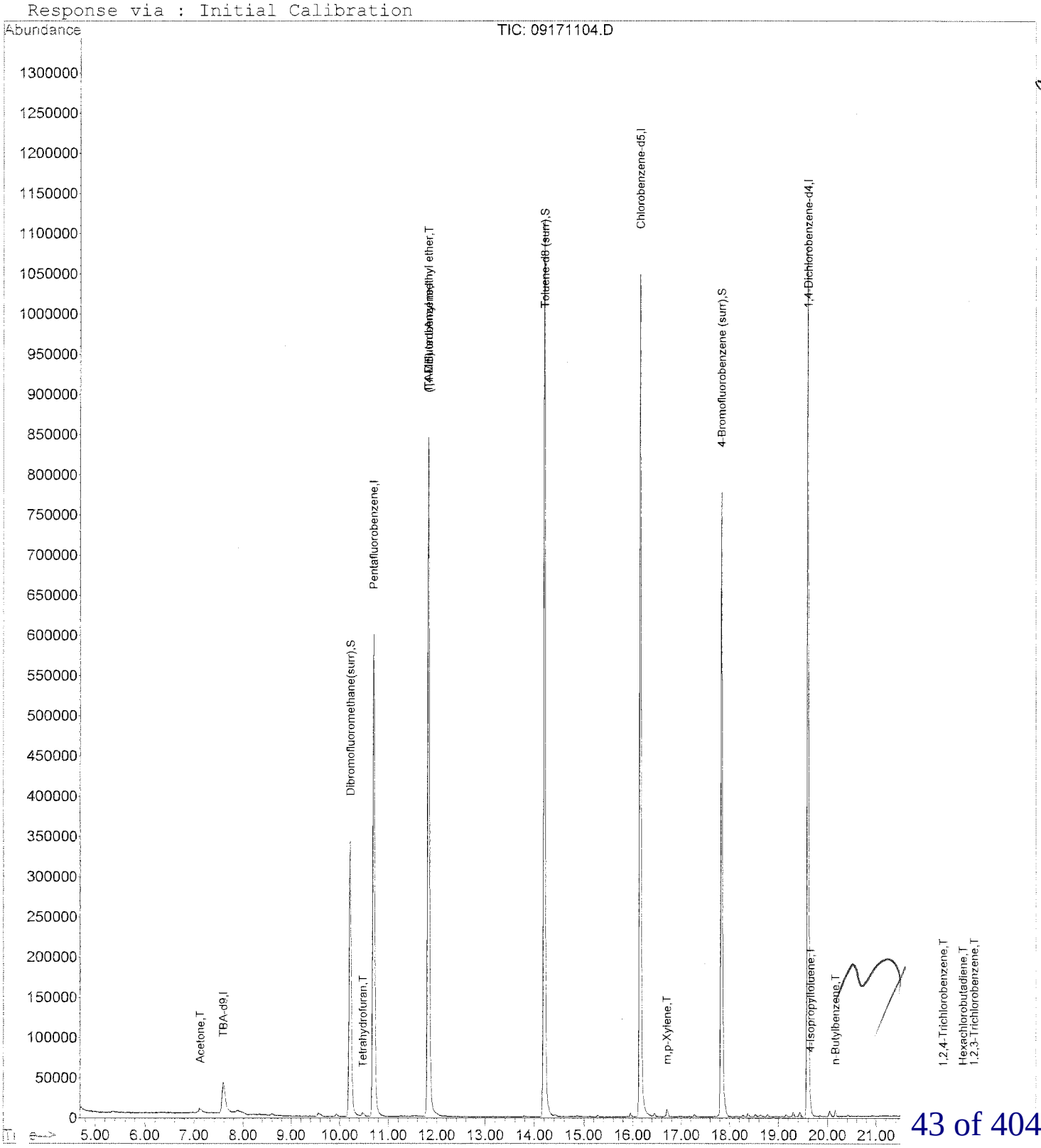
9/19/11

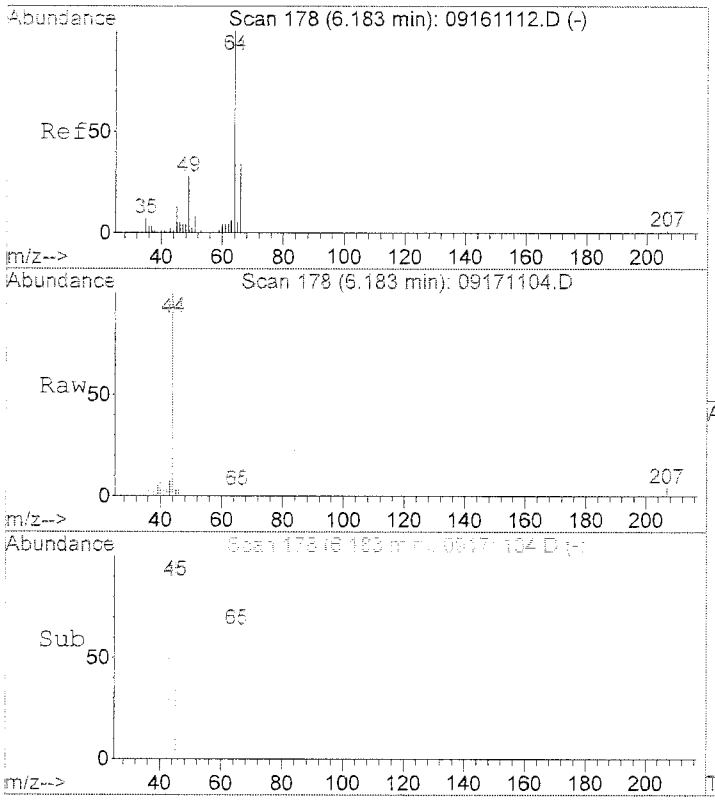
(#) = qualifier out of range (m) = manual integration
09171104.D 091611.M Mon Sep 19 13:15:31 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171104.D Vial: 4
Acq On : 17 Sep 2011 11:36 am Operator: KH
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:15 2011 Quant Results File: 091611.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

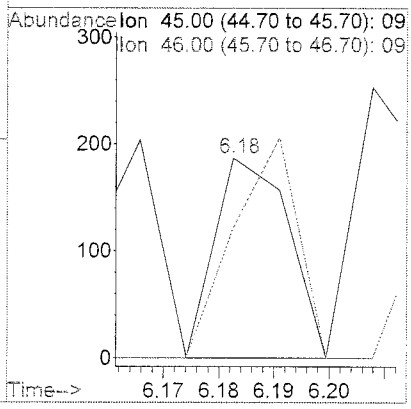


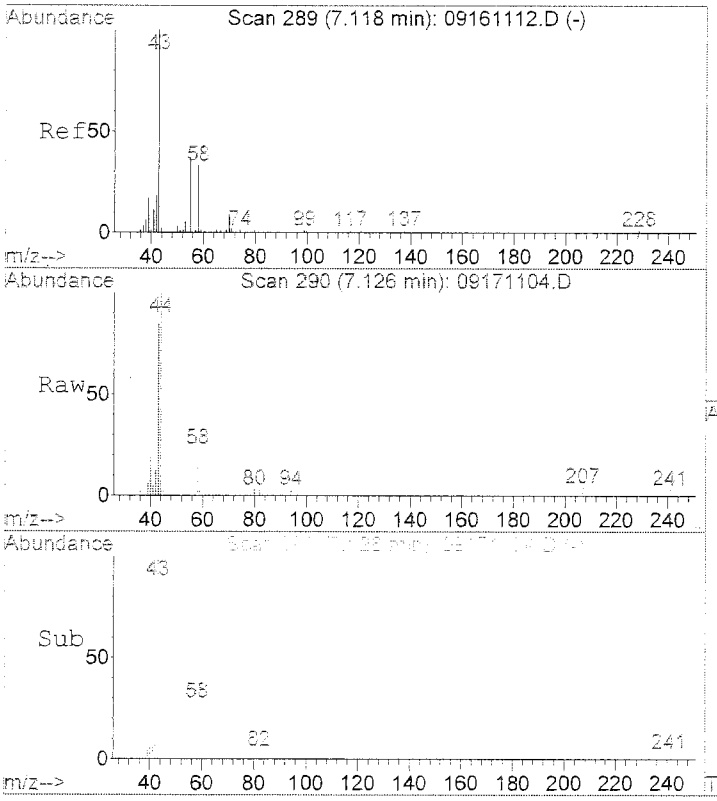


#2
Ethanol
Concen: Below Cal
RT: 6.18 min Scan# 178
Delta R.T. 0.00 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 45 Resp: 174

Ion	Ratio	Lower	Upper
45	100		
46	95.4	27.0	40.6#

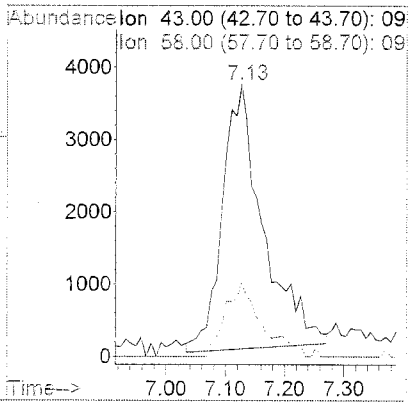


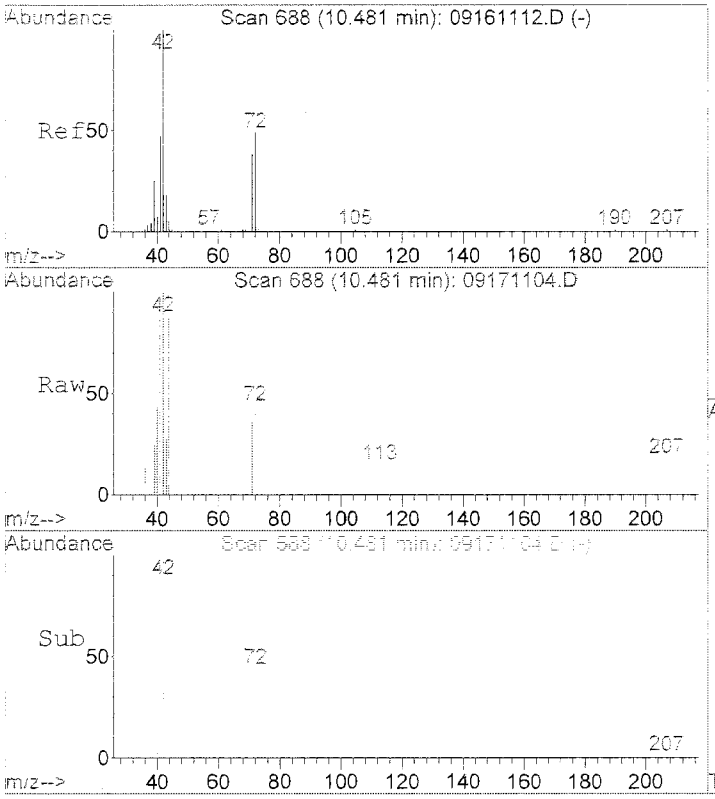


#13
Acetone
Concen: 0.87 ug/L
RT: 7.13 min Scan# 290
Delta R.T. 0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 43 Resp: 17561

Ion	Ratio	Lower	Upper
43	100		
58	25.0	24.1	36.1

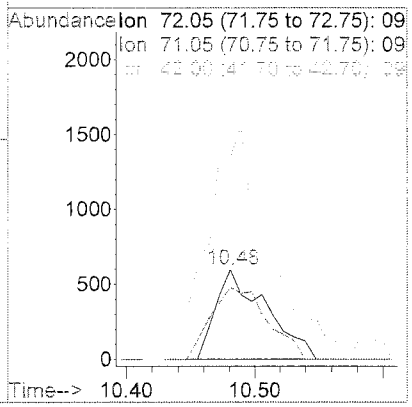


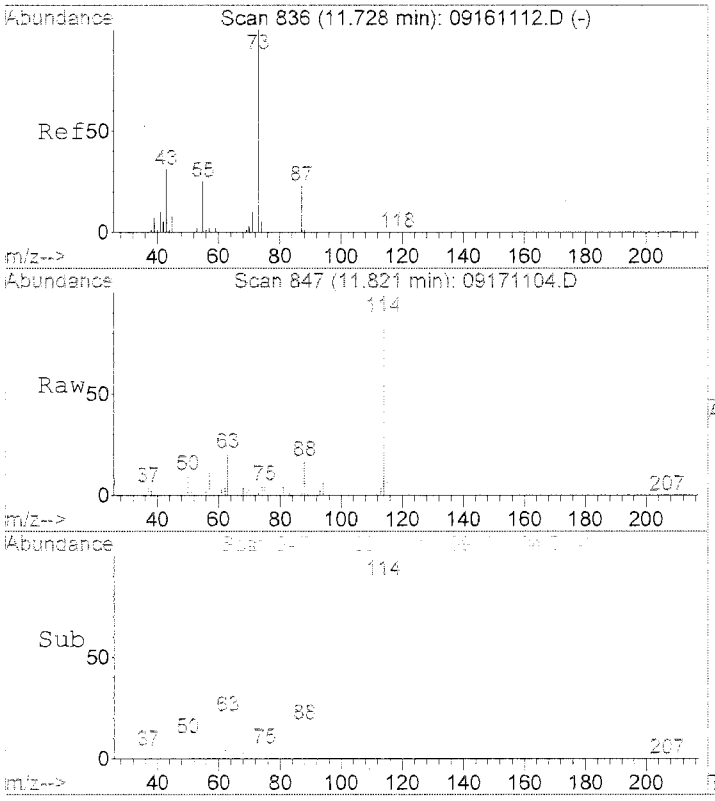


#33
Tetrahydrofuran
Concen: 1.41 ug/L
RT: 10.48 min Scan# 688
Delta R.T. 0.00 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 72 Resp: 1636

Ion	Ratio	Lower	Upper
72	100		
71	90.7	76.4	116.4
42	316.2	203.3	243.3#

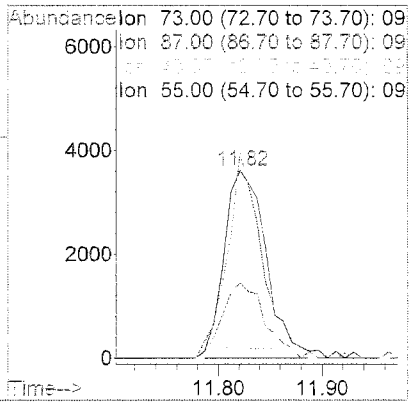


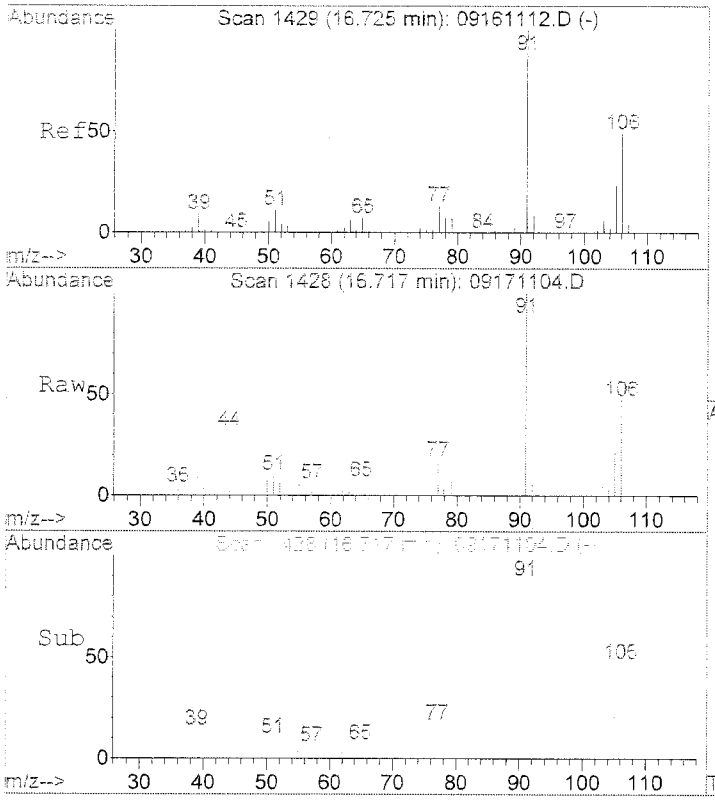


#36
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.09 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 73 Resp: 10246

Ion	Ratio	Lower	Upper
73	100		
87	90.4	2.1	42.1#
43	4.8	11.6	51.6#
55	40.6	4.3	44.3

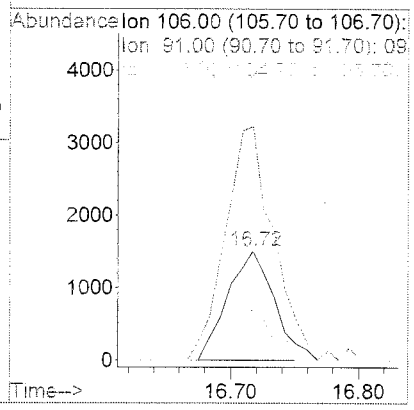


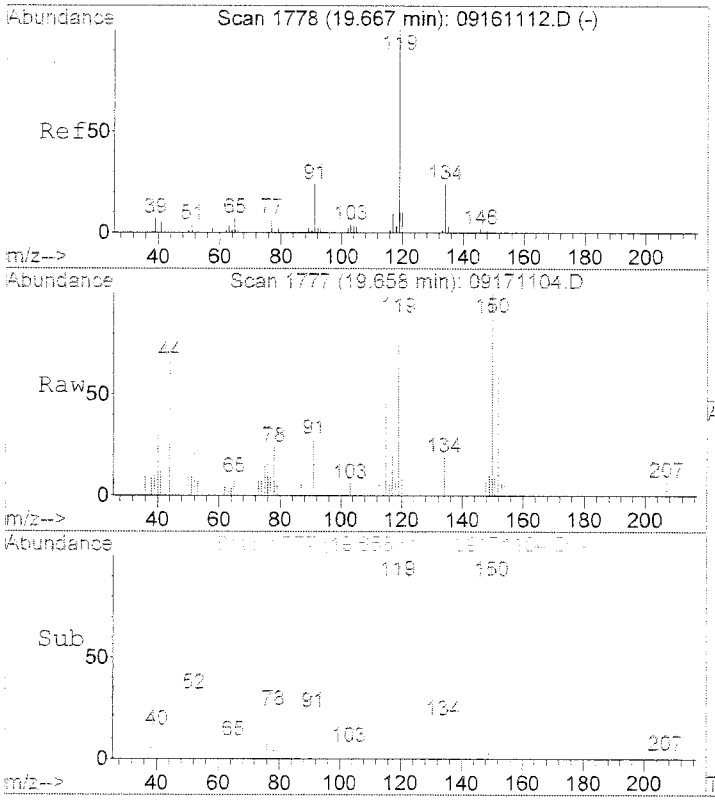


#61
m,p-Xylene
Concen: 0.14 ug/L
RT: 16.72 min Scan# 1428
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:106 Resp: 3834

Ion	Ratio	Lower	Upper
106	100		
91	220.2	159.7	239.5
105	41.6	36.2	54.2

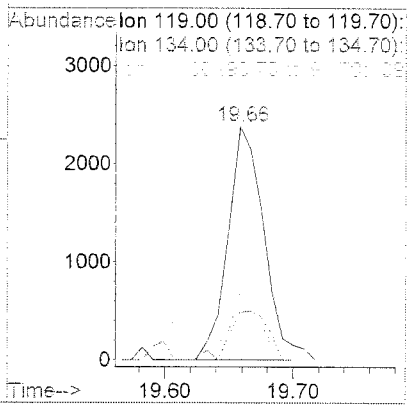


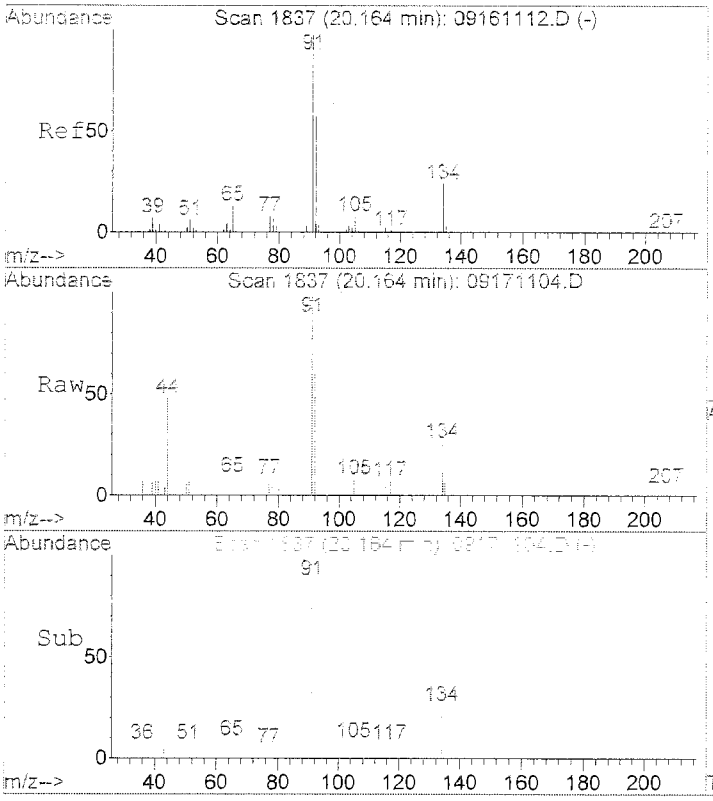


#81
4-Isopropyltoluene
Concen: 0.09 ug/L
RT: 19.66 min Scan# 1777
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:119 Resp: 4676

Ion	Ratio	Lower	Upper
119	100		
134	22.0	20.2	30.4
91	26.9	18.8	28.2

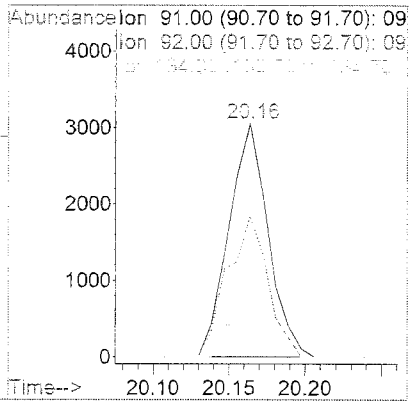


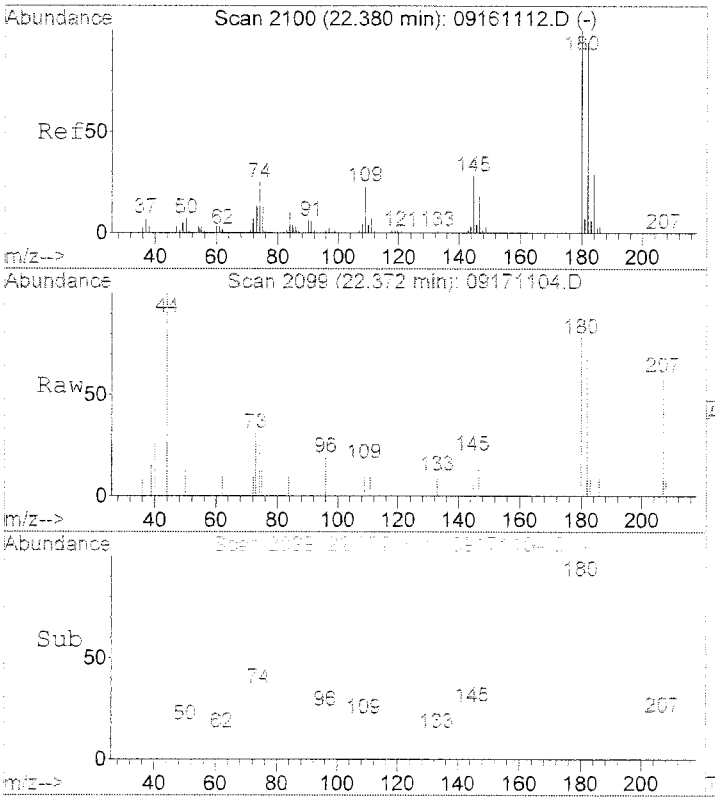


#83
n-Butylbenzene
Concen: 0.11 ug/L
RT: 20.16 min Scan# 1837
Delta R.T. 0.00 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 91 Resp: 5442

Ion	Ratio	Lower	Upper
91	100		
92	62.0	46.2	69.4
134	24.0	19.6	29.4

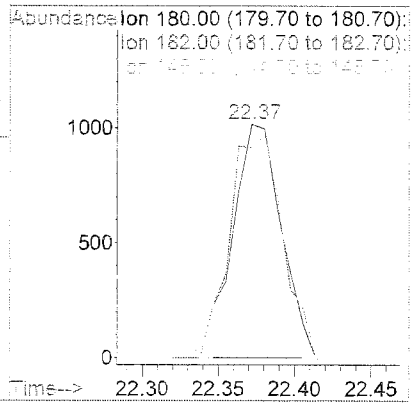


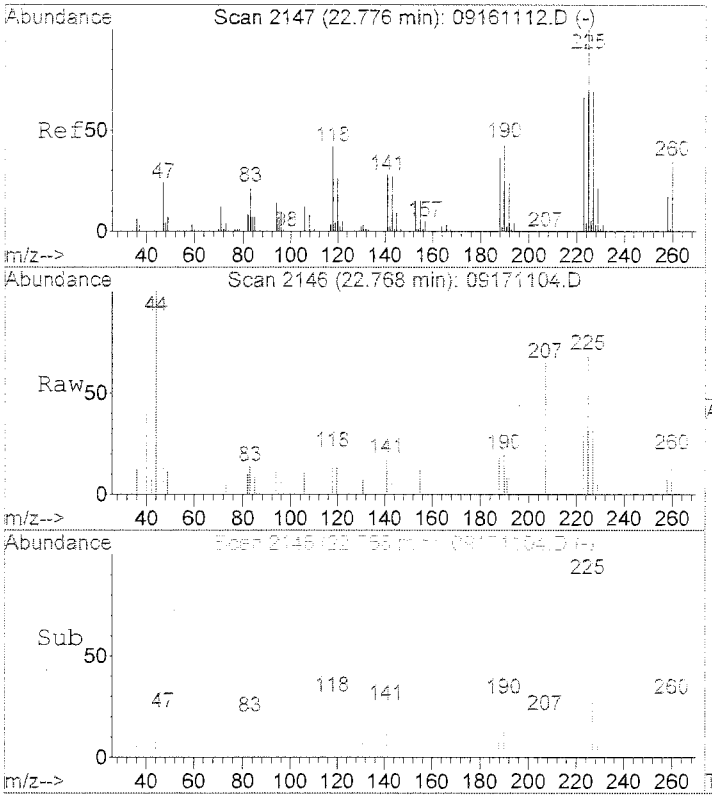


#85
1,2,4-Trichlorobenzene
Concen: 0.13 ug/L
RT: 22.37 min Scan# 2099
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:180 Resp: 2256

Ion	Ratio	Lower	Upper
180	100		
182	103.5	76.2	114.4
145	26.0	22.6	33.8

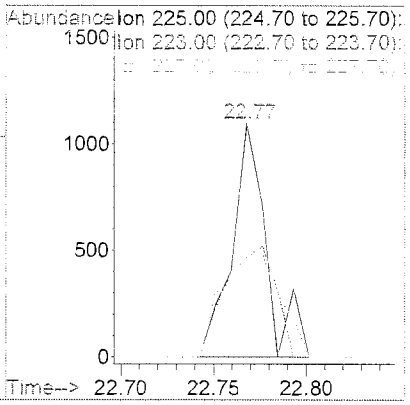


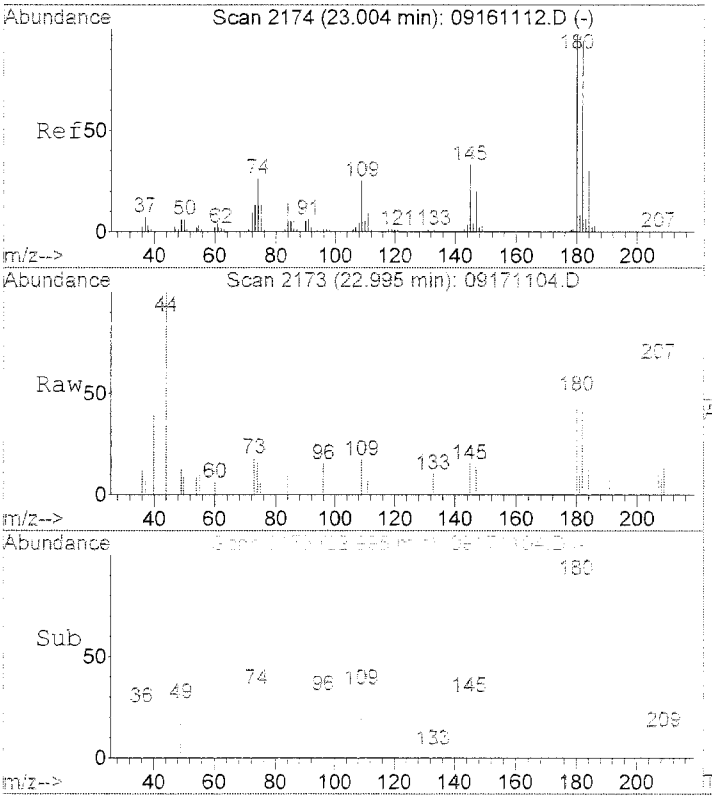


#87
Hexachlorobutadiene
Concen: 0.13 ug/L
RT: 22.77 min Scan# 2146
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:225 Resp: 1401

Ion	Ratio	Lower	Upper
225	100		
223	69.1	50.8	76.2
227	74.1	51.8	77.6

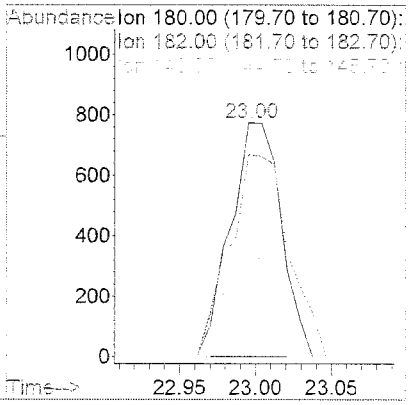




#88
1,2,3-Trichlorobenzene
Concen: 0.13 ug/L
RT: 23.00 min Scan# 2173
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:180 Resp: 1791

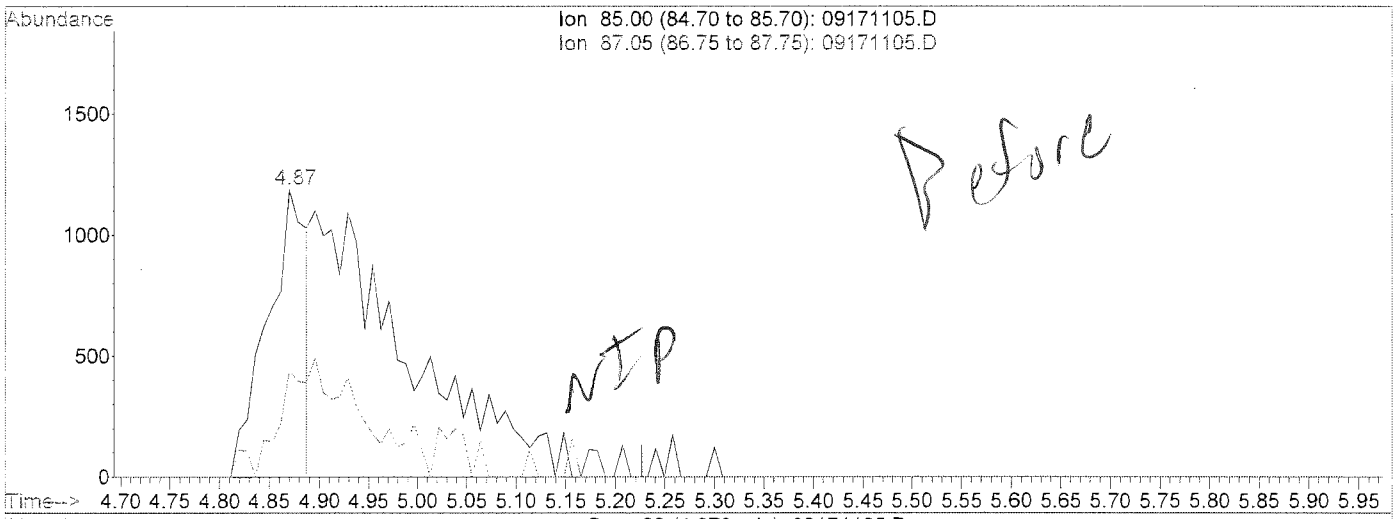
Ion	Ratio	Lower	Upper
180	100		
182	100.6	76.5	114.7
145	32.7	25.4	38.0

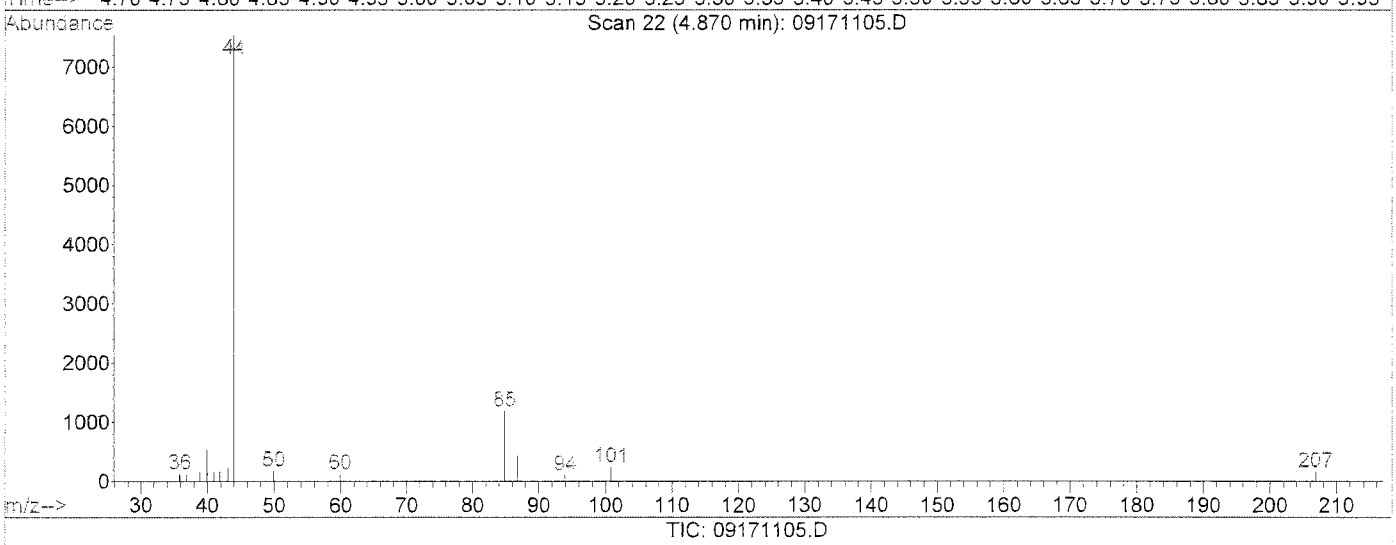


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:10 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(5) Dichlorodifluoromethane (T)

4.87min 0.15ug/L

response 3188

Ion	Exp%	Act%
85.00	100	100
87.05	31.50	46.20
0.00	0.00	0.00
0.00	0.00	0.00

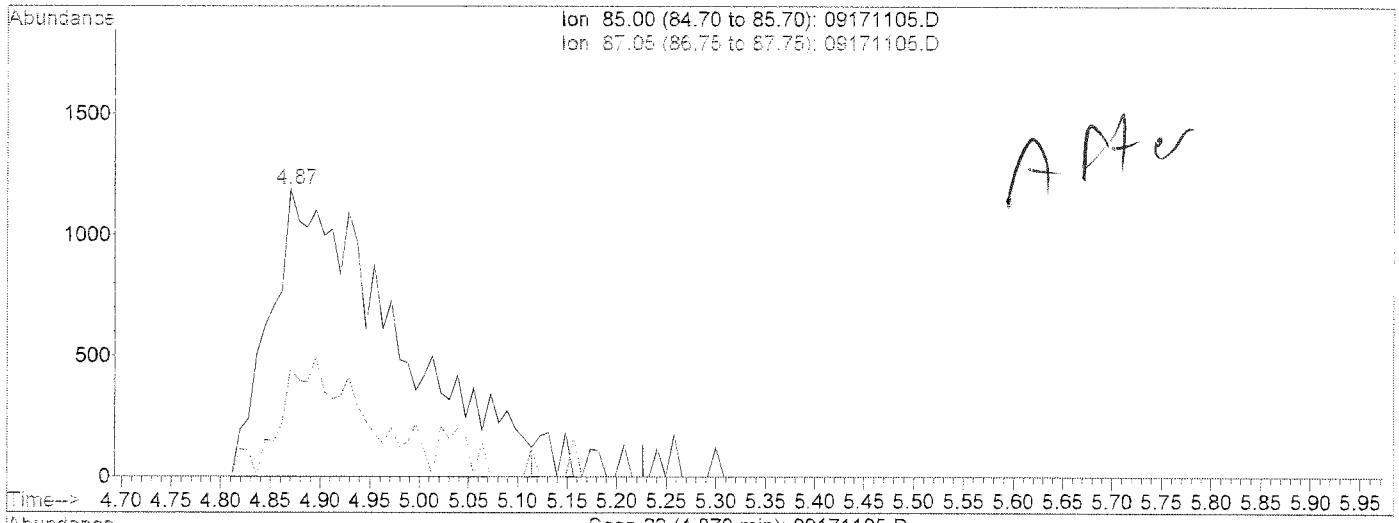
9/20/11

09171105.D 091611.M Mon Sep 19 07:10:18 2011

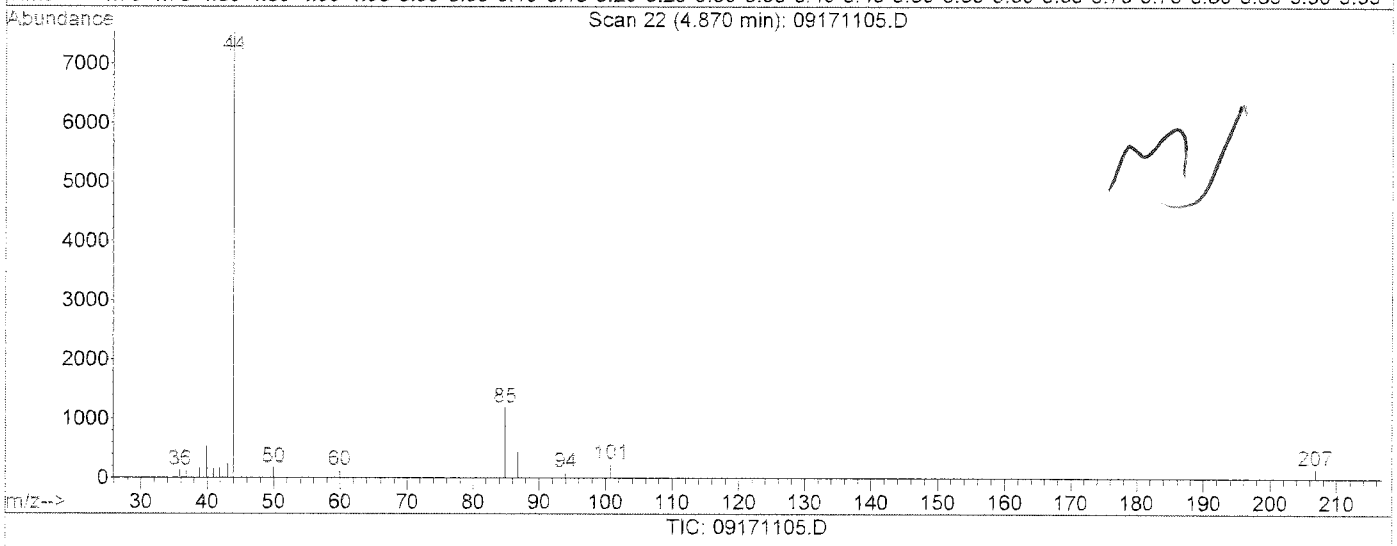
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:10 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



After



TIC: 09171105.D

MJ

(5) Dichlorodifluoromethane (T)

4.87min 0.48ug/L m

response 10405

Ion	Exp%	Act%
85.00	100	100
87.05	31.50	14.16
0.00	0.00	0.00
0.00	0.00	0.00

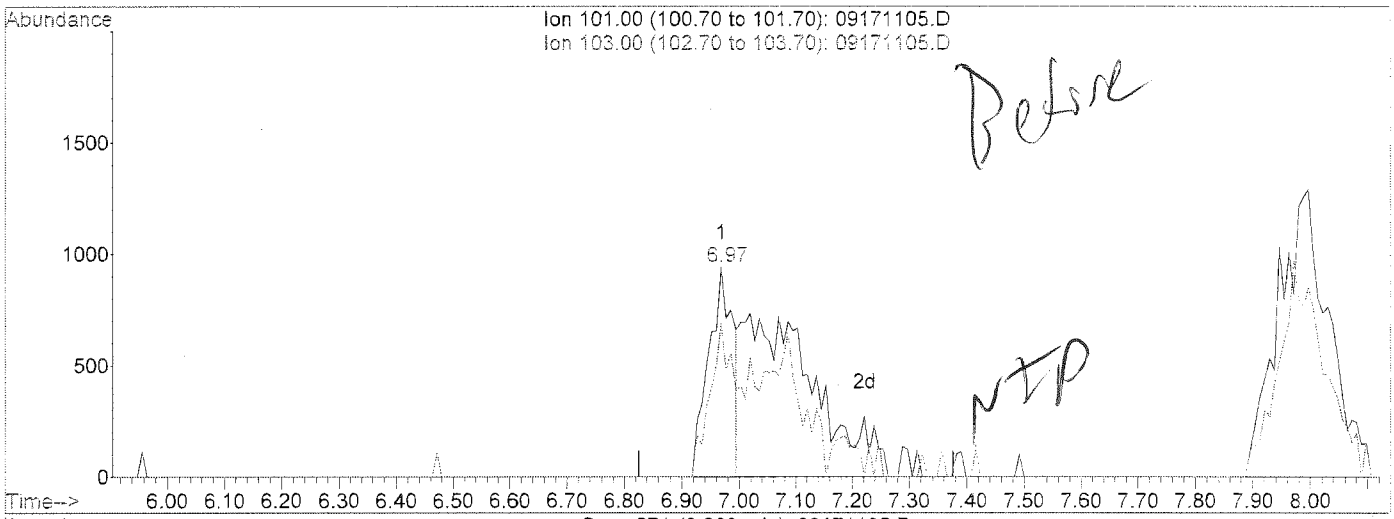
9/20/11

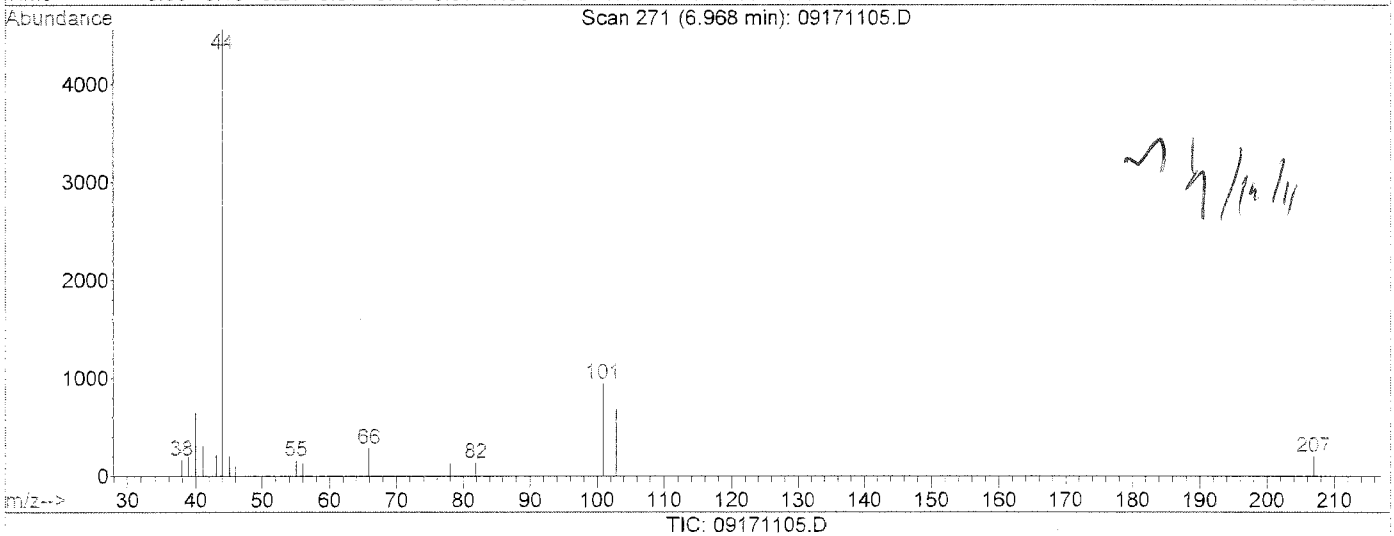
09171105.D 091611.M Mon Sep 19 07:10:23 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KB
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:10 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171105.D

(12) Trichlorofluoromethane (T)

6.97min 0.16ug/L

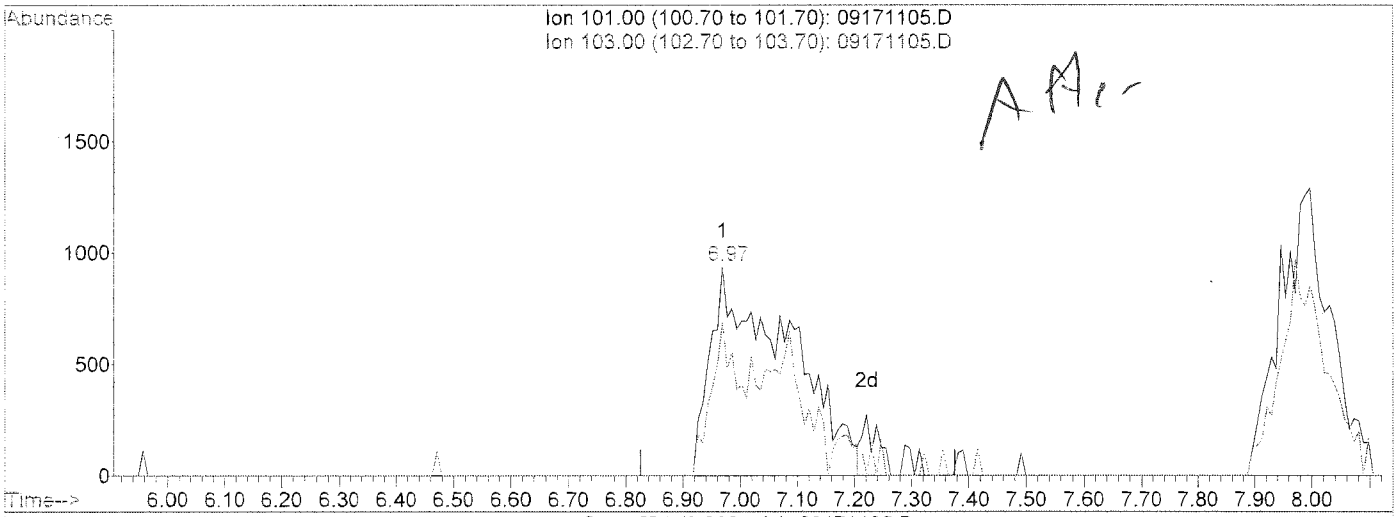
response 2759

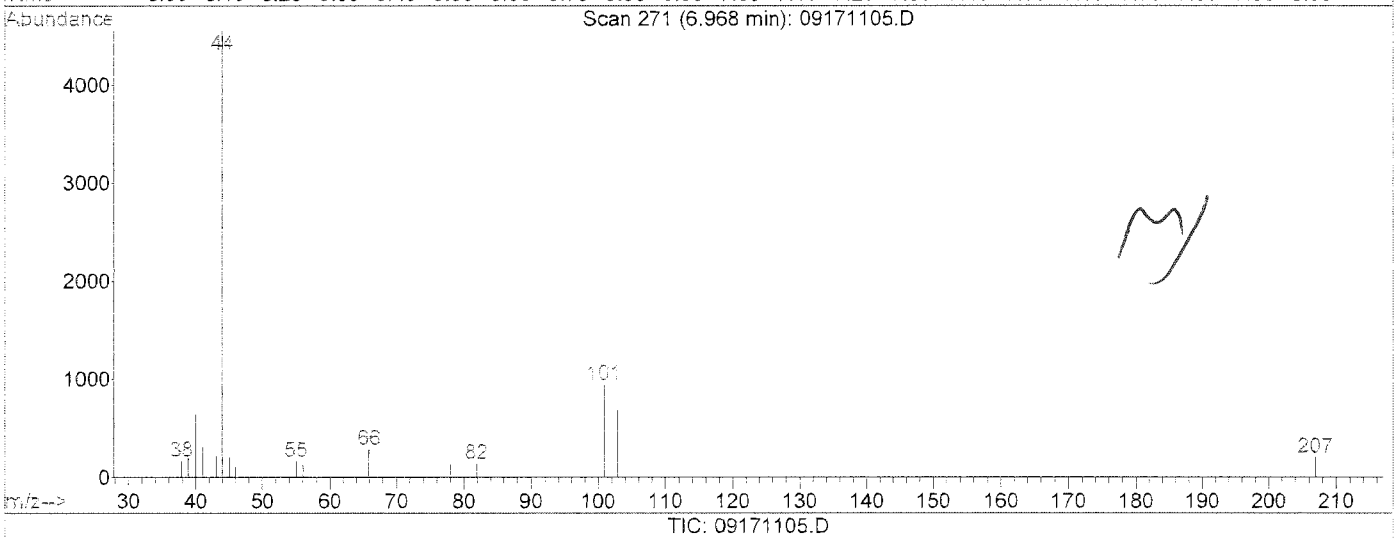
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	72.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:11 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171105.D

(12) Trichlorofluoromethane (T)

6.97min 0.52ug/L m

response 8855

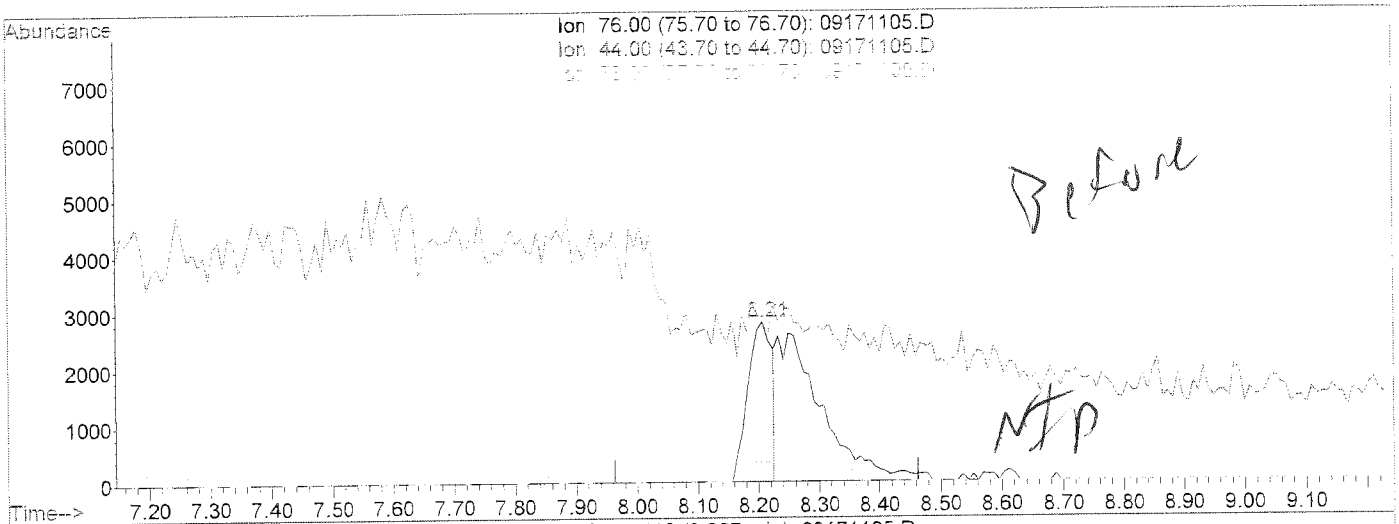
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	72.93
0.00	0.00	0.00
0.00	0.00	0.00

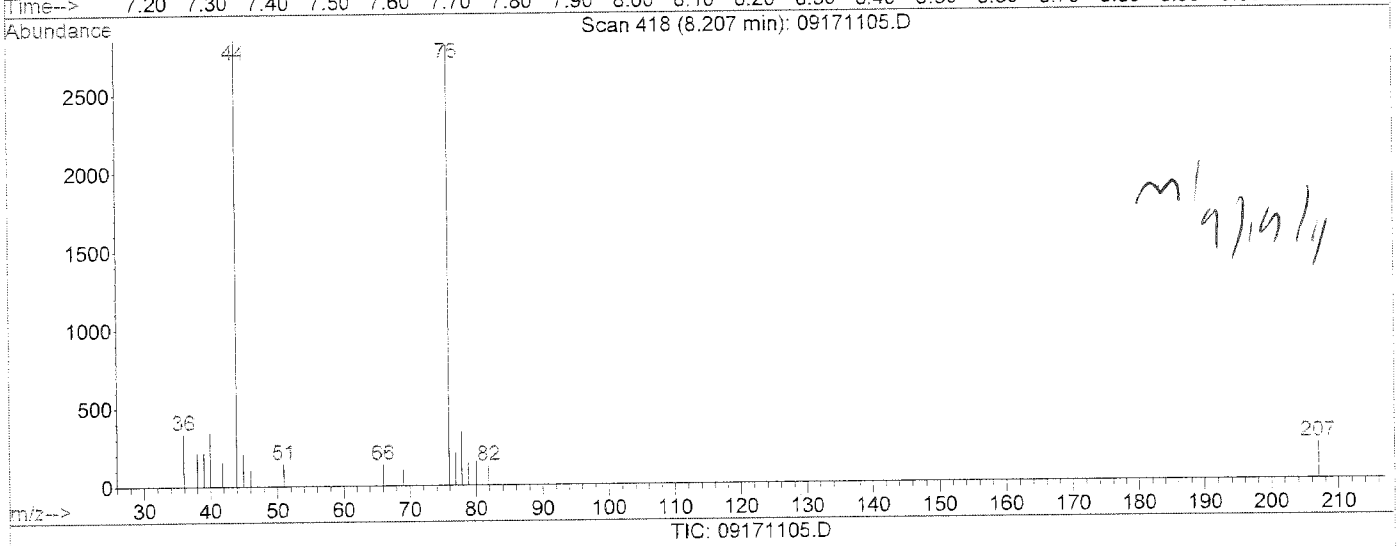
09171105.D 091611.M Mon Sep 19 07:11:05 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:11 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.21min 0.19ug/L

response 7790

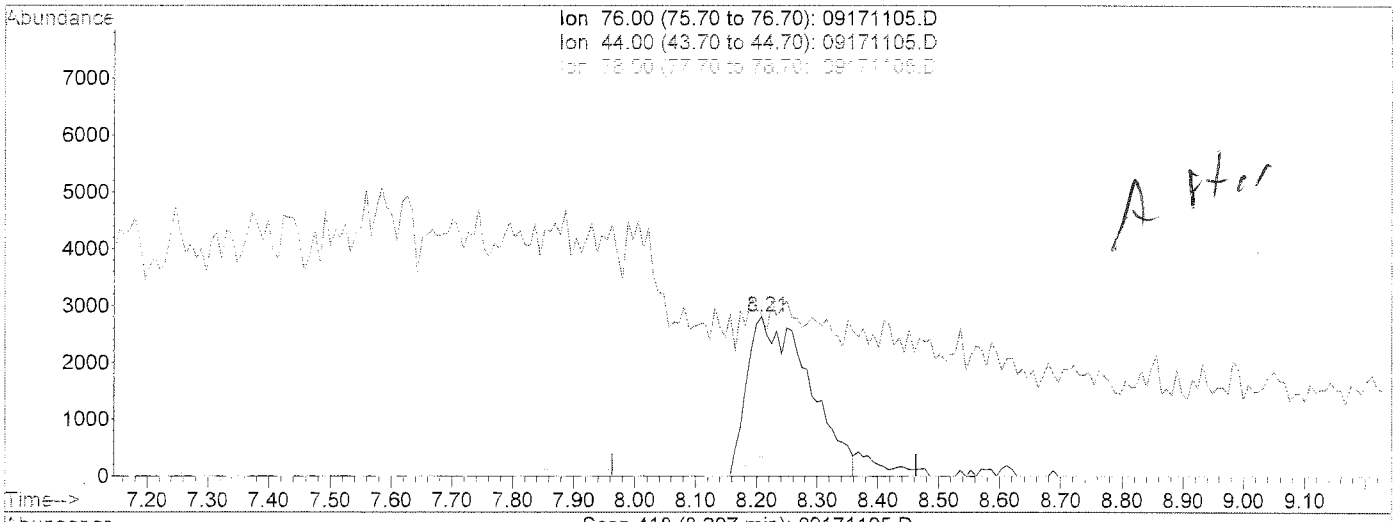
Ion	Exp%	Act%
76.00	100	100
44.00	4.30	24.76#
78.00	5.10	0.00#
0.00	0.00	0.00

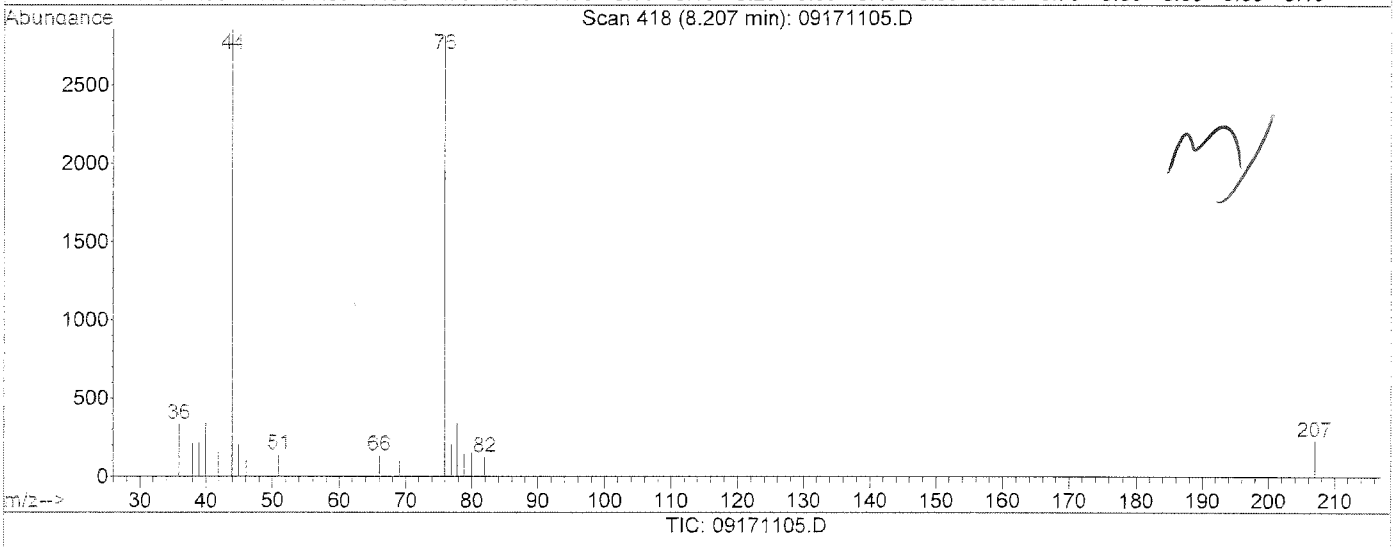
09171105.D 091611.M Mon Sep 19 07:11:18 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:11 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.21min 0.47ug/L m

response 19807

Ion	Exp%	Act%
76.00	100	100
44.00	4.30	9.74#
78.00	5.10	0.00#
0.00	0.00	0.00

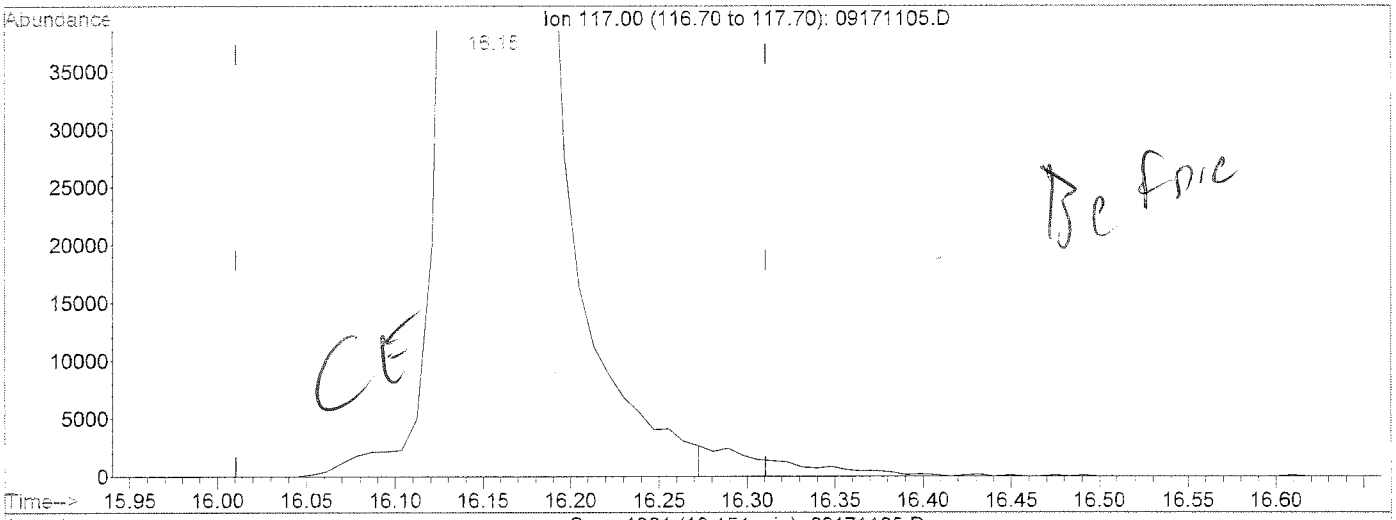
9/20/11

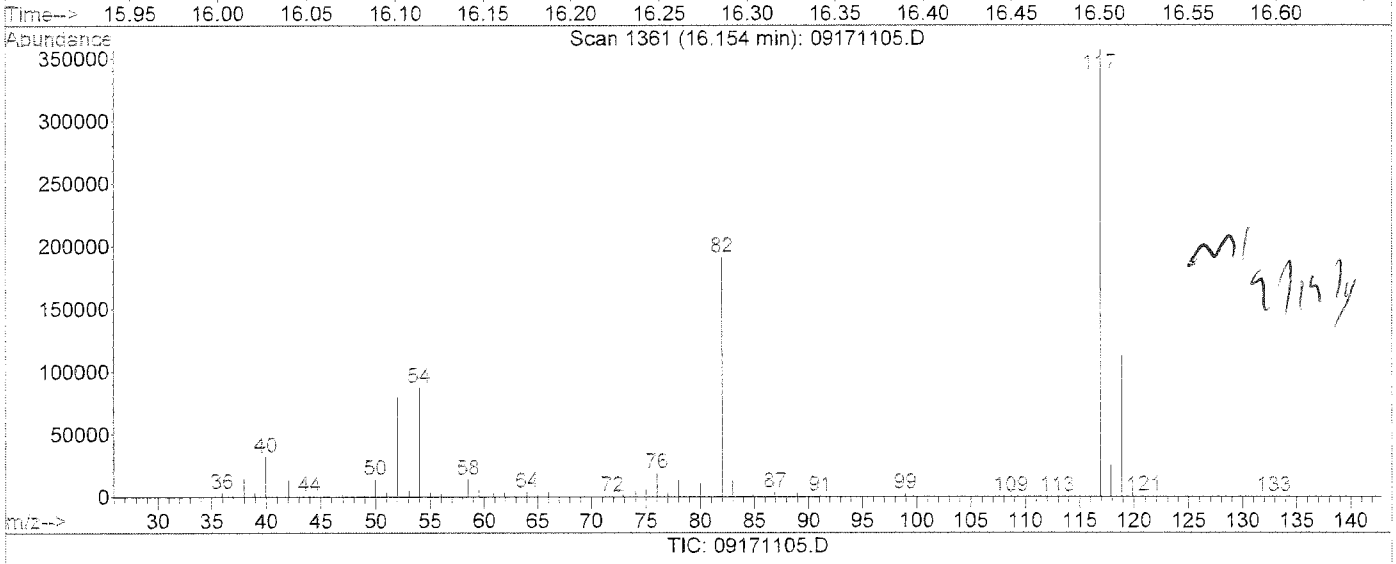
09171105.D 091611.M Mon Sep 19 07:11:28 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:11 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L

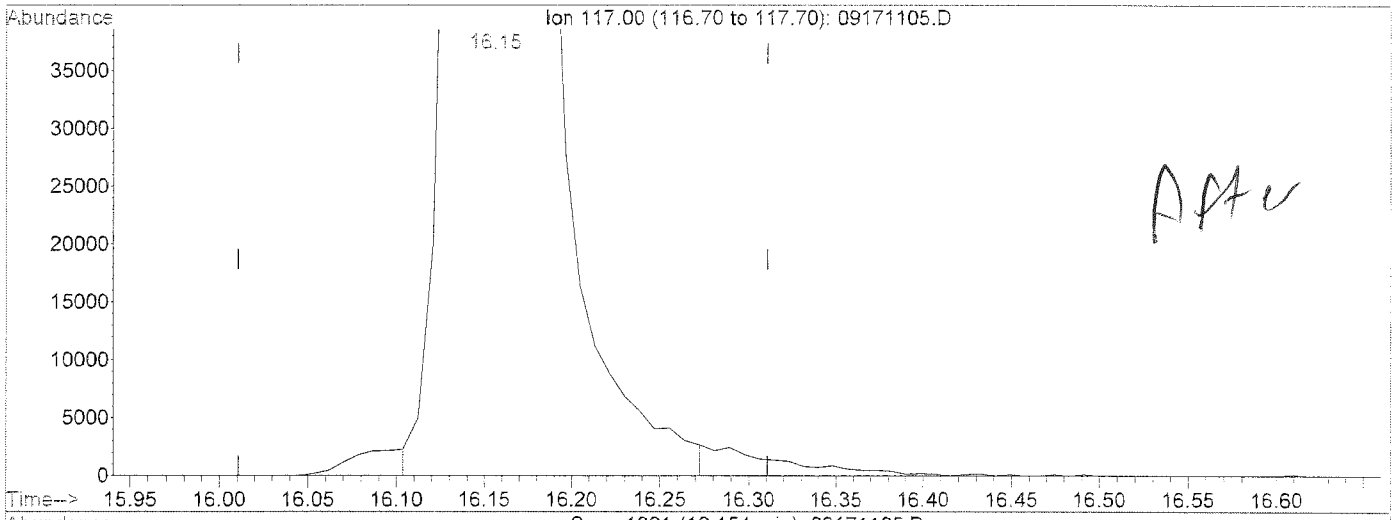
response 860907

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

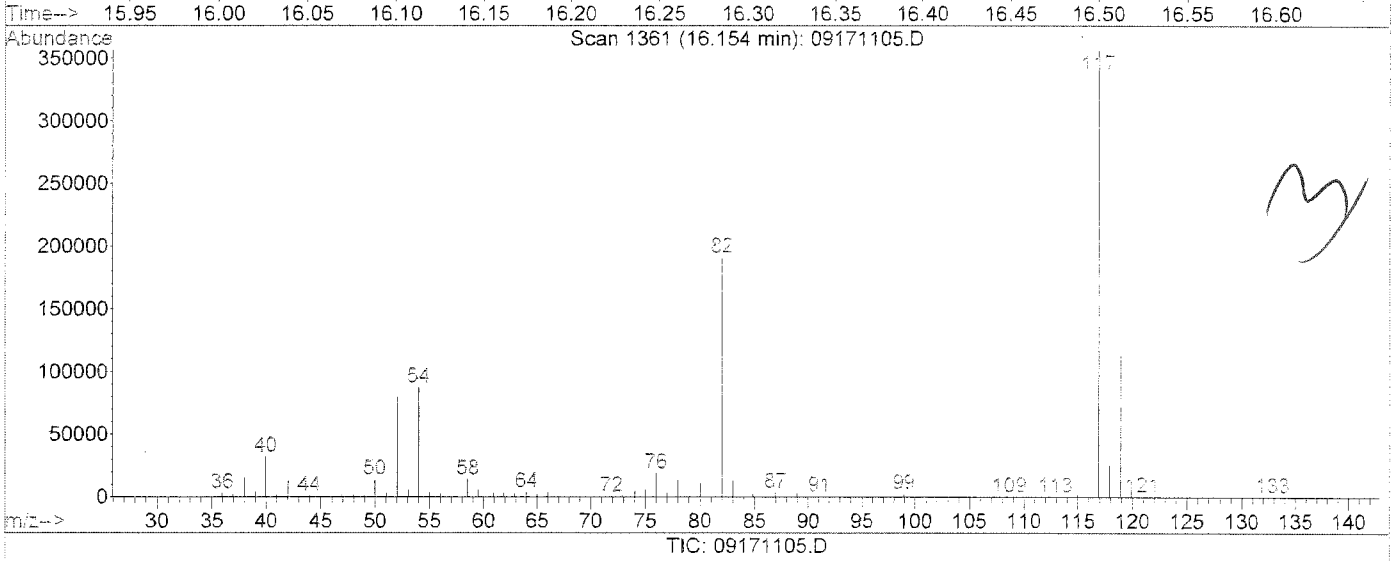
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:11 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



After



(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L m

response 855727

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:12 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	108918	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	587744	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	988848	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	855727m	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	373565	25.00 ug/L	-0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	332999	28.96 ug/L	0.00
Spiked Amount 25.000			Recovery	= 115.84%	
50) Toluene-d8 (surr)	14.20	98	1039610	27.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.28%	
64) 4-Bromofluorobenzene (surr	17.83	95	397179	29.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 119.40%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.87	85	10405m	0.48 ug/L	
6) Chloromethane	5.10	50	19075	0.71 ug/L	85
7) Vinyl Chloride	5.44	62	11786	0.71 ug/L #	79
8) 1,3-Butadiene	5.56	54	6996	0.67 ug/L #	77
9) Bromomethane	5.98	94	9060	0.62 ug/L	99
10) Chloroethane	6.18	64	6813	0.58 ug/L #	81
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	6.97	101	8855m	0.52 ug/L	
13) Acetone	7.12	43	21791	1.89 ug/L #	86
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.76	142	13036	0.55 ug/L #	91
16) 1,1-Dichloroethene	7.70	96	8399	0.60 ug/L	93
17) Methylene Chloride	7.87	84	11902	0.67 ug/L	90
18) Freon 113	8.00	101	7826	0.56 ug/L #	78
19) Carbon Disulfide	8.21	76	19807m	0.47 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	10132	0.53 ug/L	88
21) MTBE	8.88	73	16671	0.62 ug/L	99
22) 1,1-Dichloroethane	9.07	63	17943	0.57 ug/L	96
23) Vinyl Acetate	9.21	43	11343	0.67 ug/L #	87
24) n-Hexane	9.56	86	2426	0.63 ug/L #	70
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.61	45	39413	0.76 ug/L #	88
27) cis-1,2-Dichloroethene	9.80	96	11125	0.56 ug/L	89
28) Bromochloromethane	10.00	128	4219	0.50 ug/L #	65
29) Chloroform	10.06	83	17089	0.55 ug/L #	96
30) 2,2-Dichloropropane	10.17	77	7381	0.55 ug/L #	61
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	22360	0.66 ug/L	91
33) Tetrahydrofuran	10.49	72	1931	1.71 ug/L #	45
34) 1,2-Dichloroethane	10.90	62	9890	0.64 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	11537	0.55 ug/L	92
36) (TAME) tert-Amyl methyl et	11.72	73	15241	0.57 ug/L	84
38) 1,1-Dichloropropene	11.26	75	12494	0.51 ug/L #	91
39) Carbon Tetrachloride	11.50	117	10231	0.48 ug/L	96
0) Benzene	11.55	78	36473	0.53 ug/L #	88

(#) = qualifier out of range (m) = manual integration

MI 9/19/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:12 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

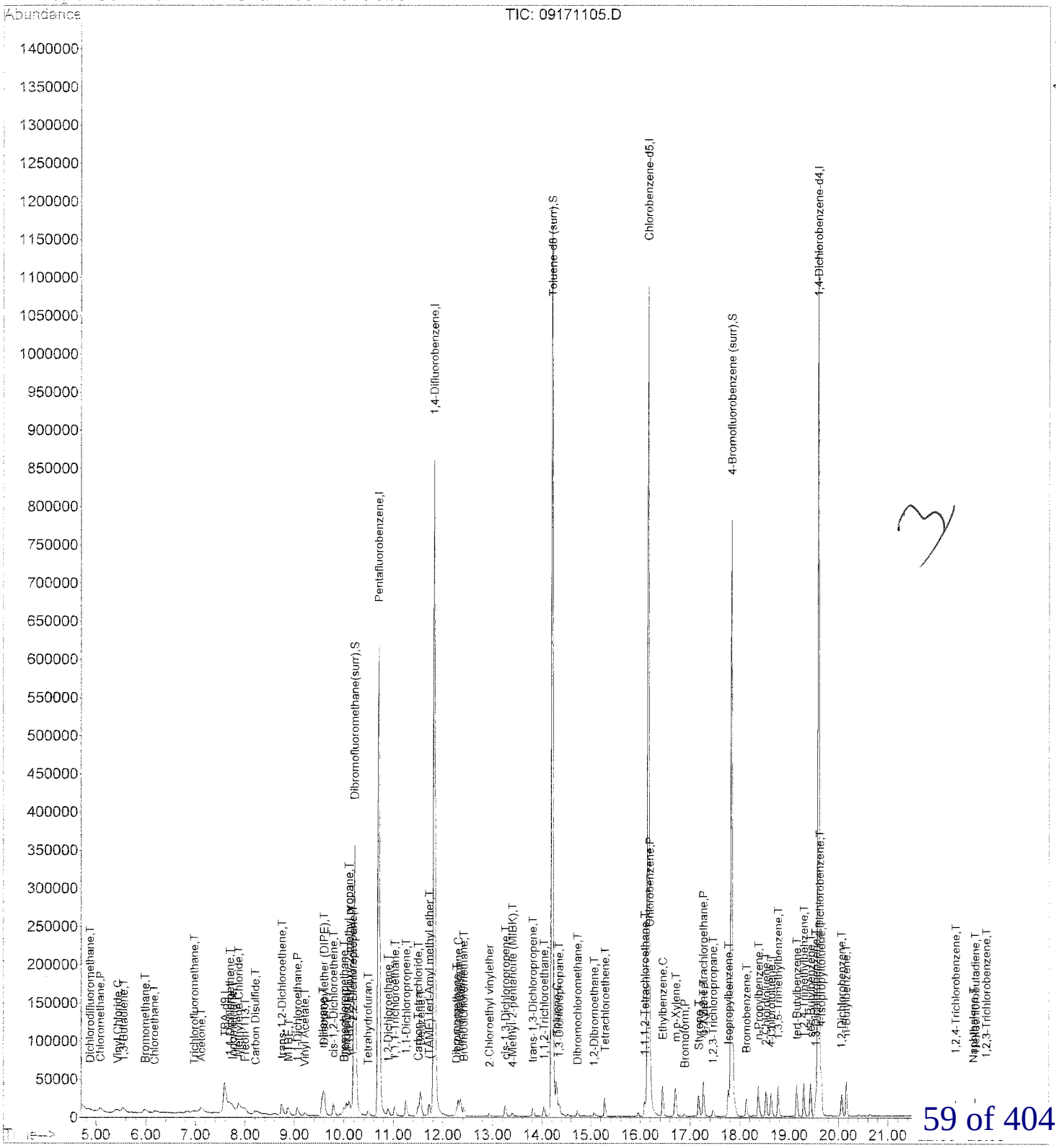
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	4530	0.48 ug/L	94
42)	1,2-Dichloropropane	12.31	63	9999	0.54 ug/L #	85
43)	Trichloroethene	12.36	95	10149	0.55 ug/L	89
44)	Bromodichloromethane	12.43	83	10346	0.48 ug/L #	98
45)	2-Chloroethyl vinylether	12.94	63	2509	0.39 ug/L	83
46)	cis-1,3-Dichloropropene	13.26	75	10637	0.44 ug/L #	69
47)	4-Methyl-2-pentanone (MIBK	13.40	43	4945	0.64 ug/L #	81
48)	trans-1,3-Dichloropropene	13.81	75	7841	0.42 ug/L #	68
49)	1,1,2-Trichloroethane	14.04	97	5473	0.47 ug/L #	88
51)	Toluene	14.30	92	21905	0.57 ug/L	96
53)	1,3-Dichloropropane	14.36	76	10140	0.51 ug/L	95
54)	2-Hexanone	0.00	43	0	N.D. d	
55)	Dibromochloromethane	14.74	129	5644	0.40 ug/L	97
56)	1,2-Dibromoethane	15.06	107	5000	0.43 ug/L	88
57)	Tetrachloroethene	15.29	164	7511	0.52 ug/L	96
58)	1,1,1,2-Tetrachloroethane	16.09	131	7329	0.46 ug/L #	62
59)	Chlorobenzene	16.20	112	23822	0.53 ug/L #	72
60)	Ethylbenzene	16.46	91	39913	0.58 ug/L	99
61)	m,p-Xylene	16.72	106	17446	0.63 ug/L	98
62)	Styrene	17.17	104	18499	0.48 ug/L #	94
63)	o-Xylene	17.28	106	15331	0.61 ug/L	93
66)	Bromoform	16.90	173	2018	0.79 ug/L #	76
67)	1,1,2,2-Tetrachloroethane	17.26	83	5335	0.50 ug/L #	96
68)	1,2,3-Trichloropropane	17.46	110	1552	0.55 ug/L	88
69)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
70)	Isopropylbenzene	17.77	105	32706	0.58 ug/L	96
71)	Bromobenzene	18.13	156	8539	0.52 ug/L	88
72)	n-Propylbenzene	18.38	91	43506	0.59 ug/L	97
73)	2-Chlorotoluene	18.53	91	27940	0.62 ug/L	93
74)	4-Chlorotoluene	18.63	91	25701	0.57 ug/L	93
75)	1,3,5-Trimethylbenzene	18.78	105	28592	0.59 ug/L	99
76)	tert-Butylbenzene	19.15	119	23084	0.57 ug/L	96
77)	1,2,4-Trimethylbenzene	19.30	105	29388	0.59 ug/L	100
78)	sec-Butylbenzene	19.44	105	40251	0.63 ug/L	97
79)	1,3-Dichlorobenzene	19.54	146	16093	0.54 ug/L	94
80)	1,4-Dichlorobenzene	19.63	146	16951	0.58 ug/L #	87
81)	4-Isopropyltoluene	19.66	119	30543	0.60 ug/L	99
82)	1,2-Dichlorobenzene	20.07	146	13220	0.51 ug/L	96
83)	n-Butylbenzene	20.16	91	31649	0.63 ug/L	94
84)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
85)	1,2,4-Trichlorobenzene	22.37	180	8797	0.52 ug/L	97
86)	Naphthalene	22.73	128	9541	0.45 ug/L	97
87)	Hexachlorobutadiene	22.77	225	6341	0.57 ug/L	89
88)	1,2,3-Trichlorobenzene	23.01	180	6469	0.49 ug/L	99

(#) = qualifier out of range (m) = manual integration
09171105.D 091611.M Mon Sep 19 07:12:42 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:12 2011 Quant Results File: 091611.RES

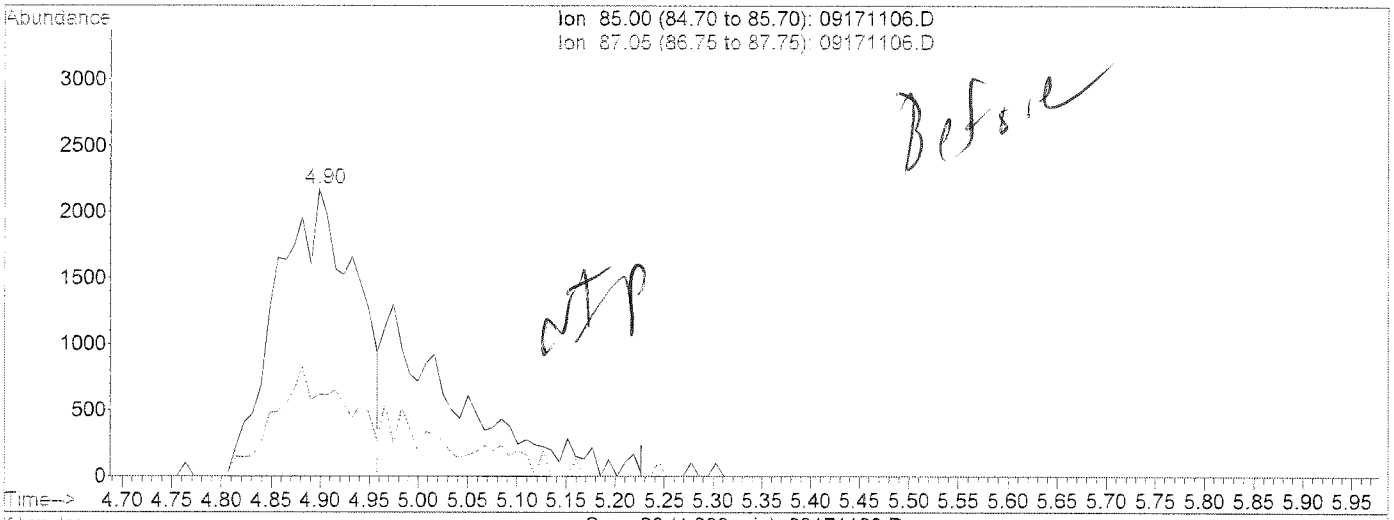
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

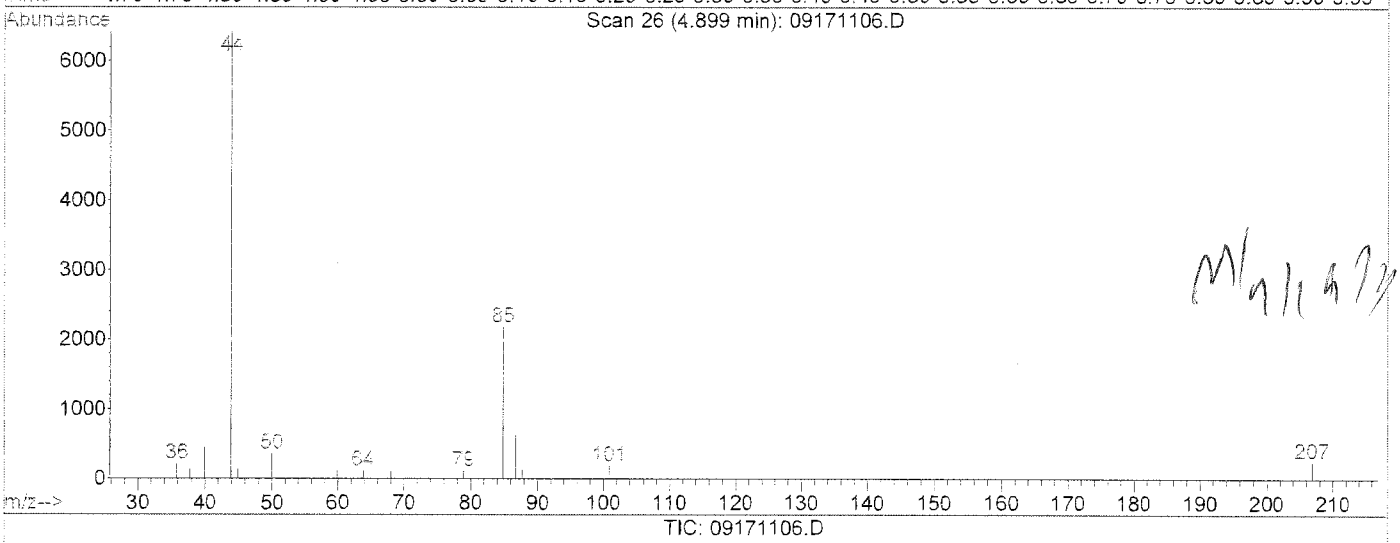


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

(5) Dichlorodifluoromethane (T)

4.90min 0.58ug/L

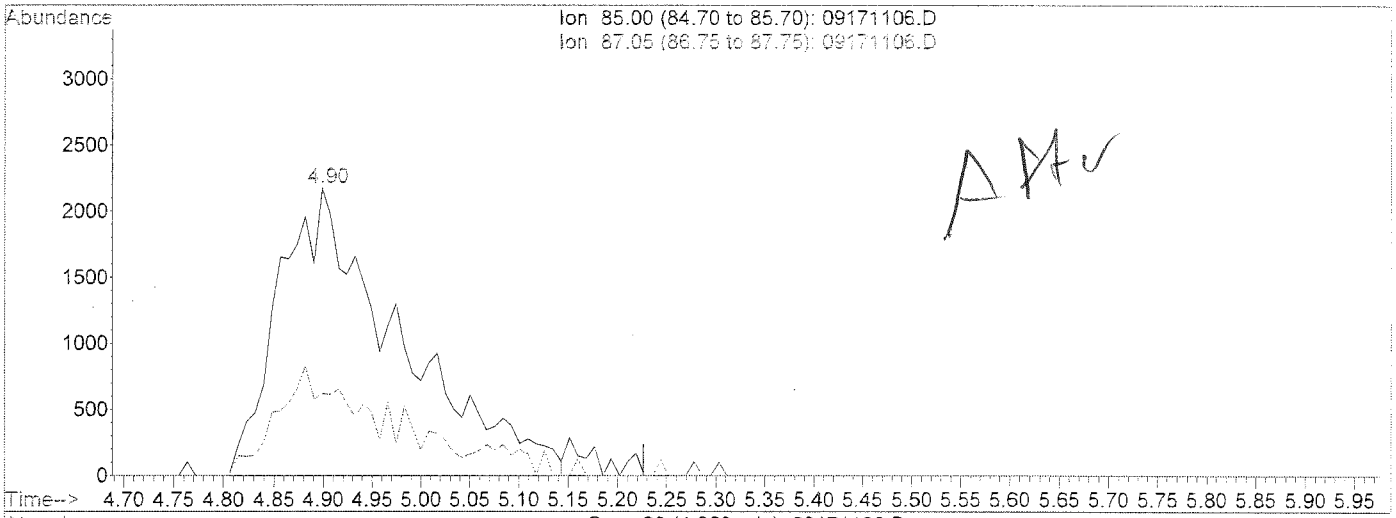
response 12240

Ion	Exp%	Act%
85.00	100	100
87.05	31.50	22.74
0.00	0.00	0.00
0.00	0.00	0.00

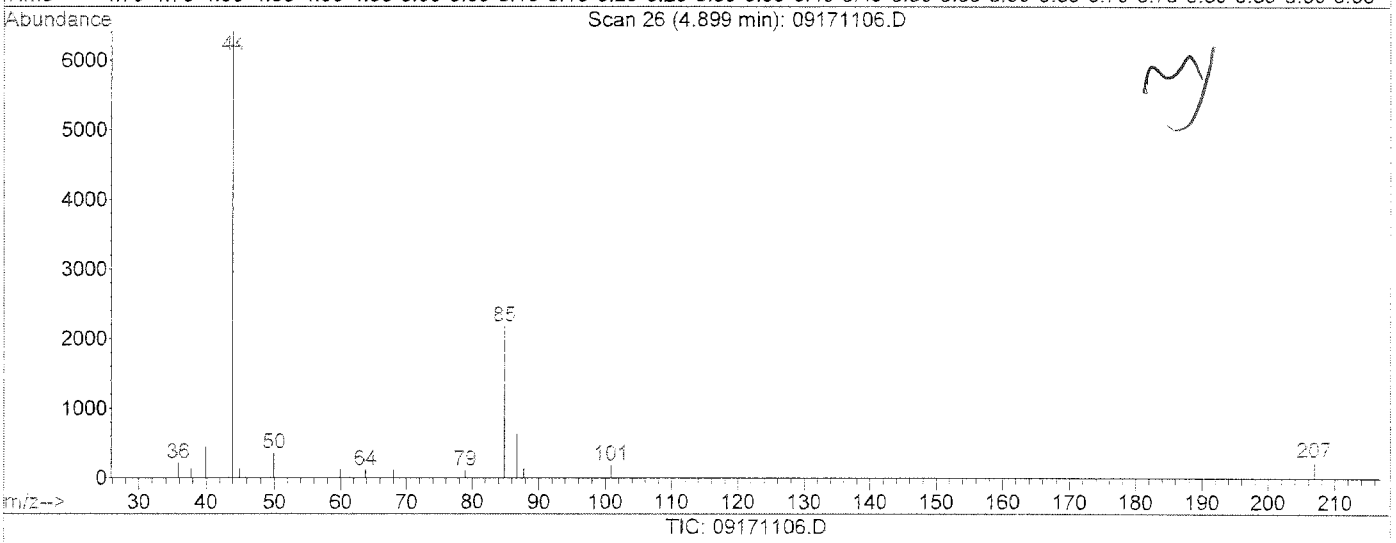
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



After



My

(5) Dichlorodifluoromethane (T)

4.90min 0.88ug/L m

response 18379

Ion	Exp%	Act%
85.00	100	100
87.05	31.50	15.14
0.00	0.00	0.00
0.00	0.00	0.00

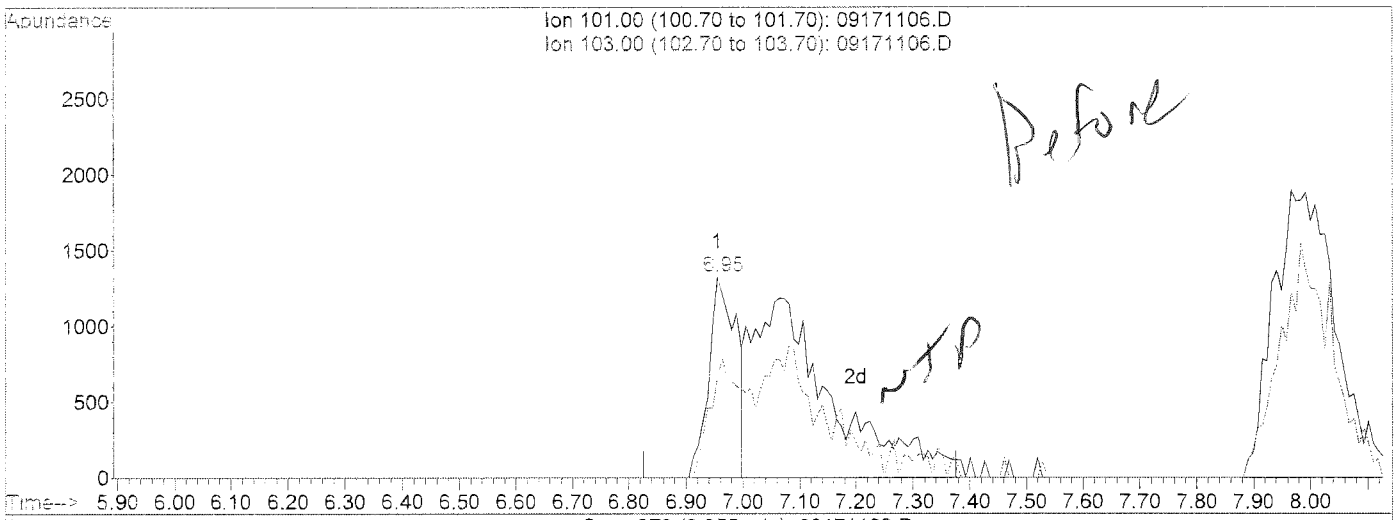
9/20/11

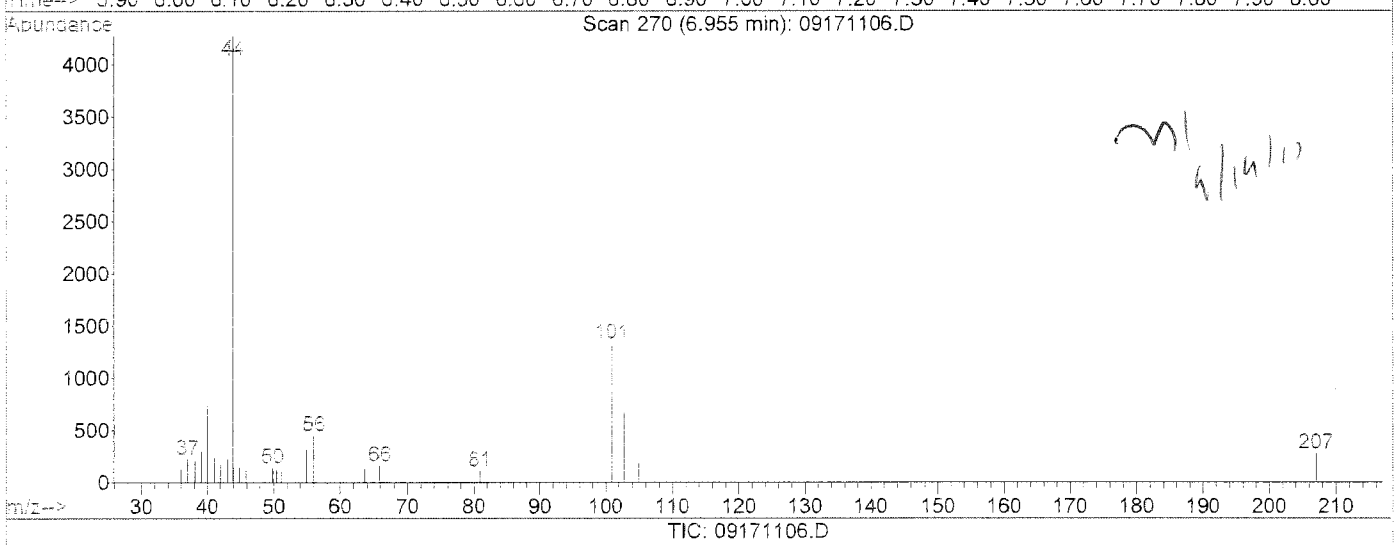
09171106.D 091611.M Mon Sep 19 07:13:24 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

(12) Trichlorofluoromethane (T)

6.95min 0.27ug/L

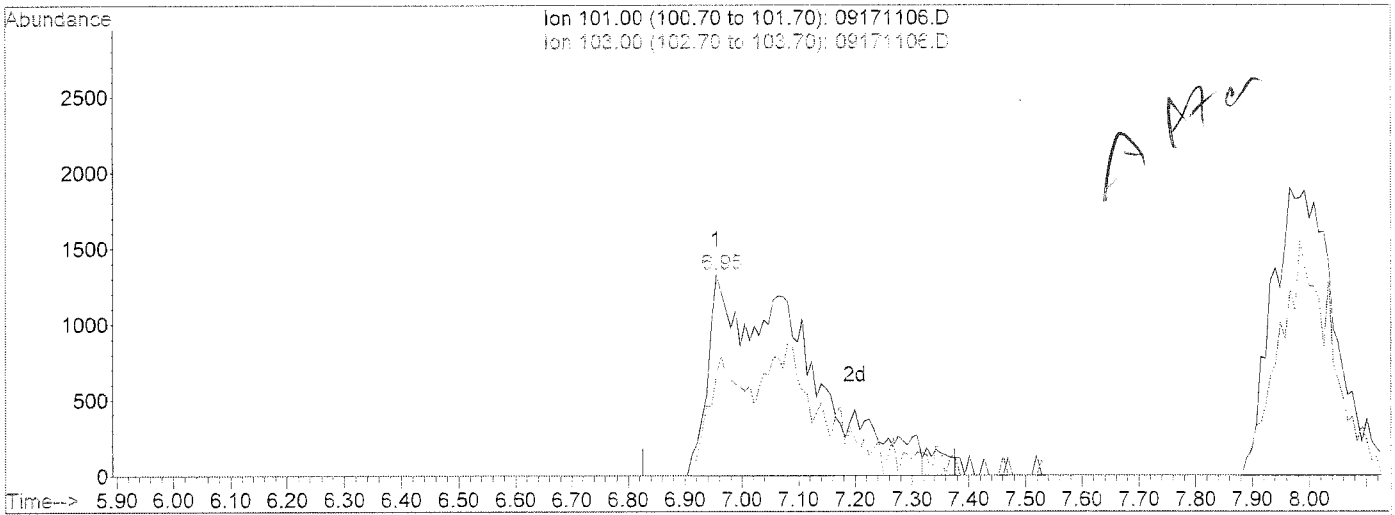
response 4449

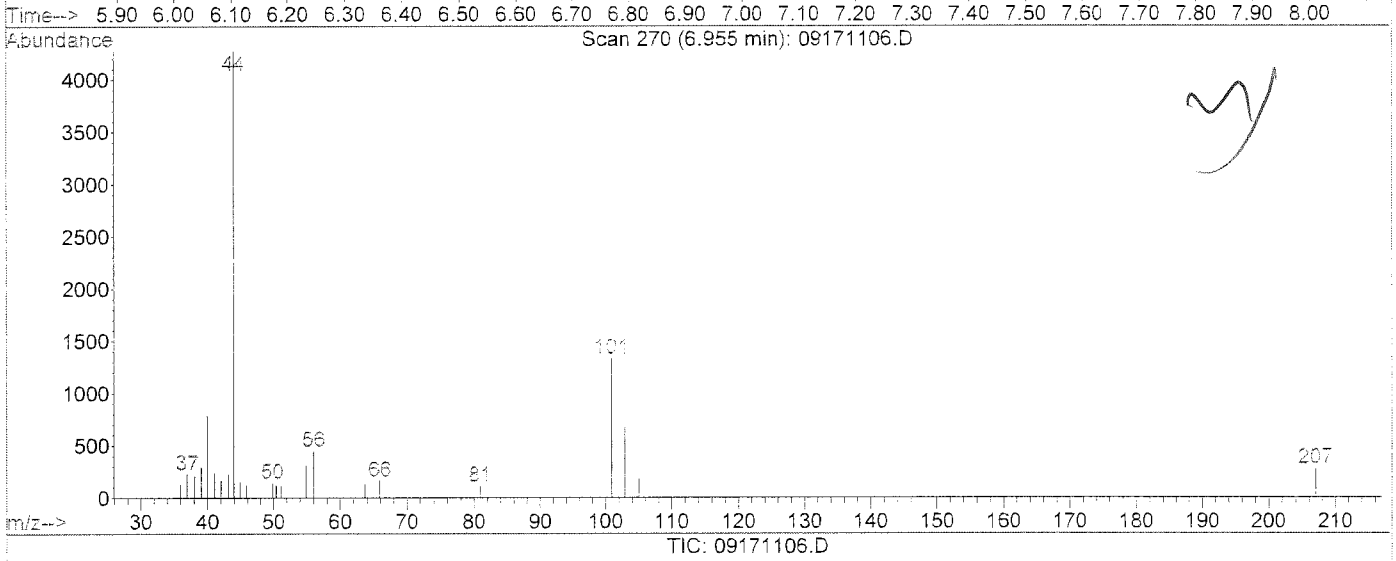
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	50.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

6.95min 0.95ug/L m

response 15695

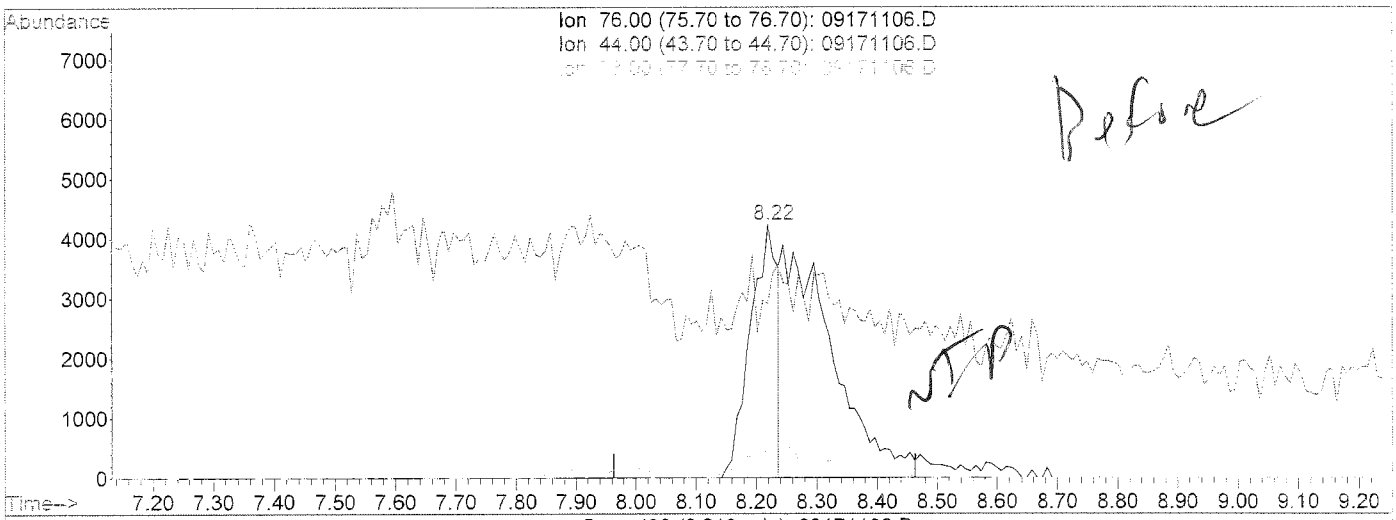
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	50.45
0.00	0.00	0.00
0.00	0.00	0.00

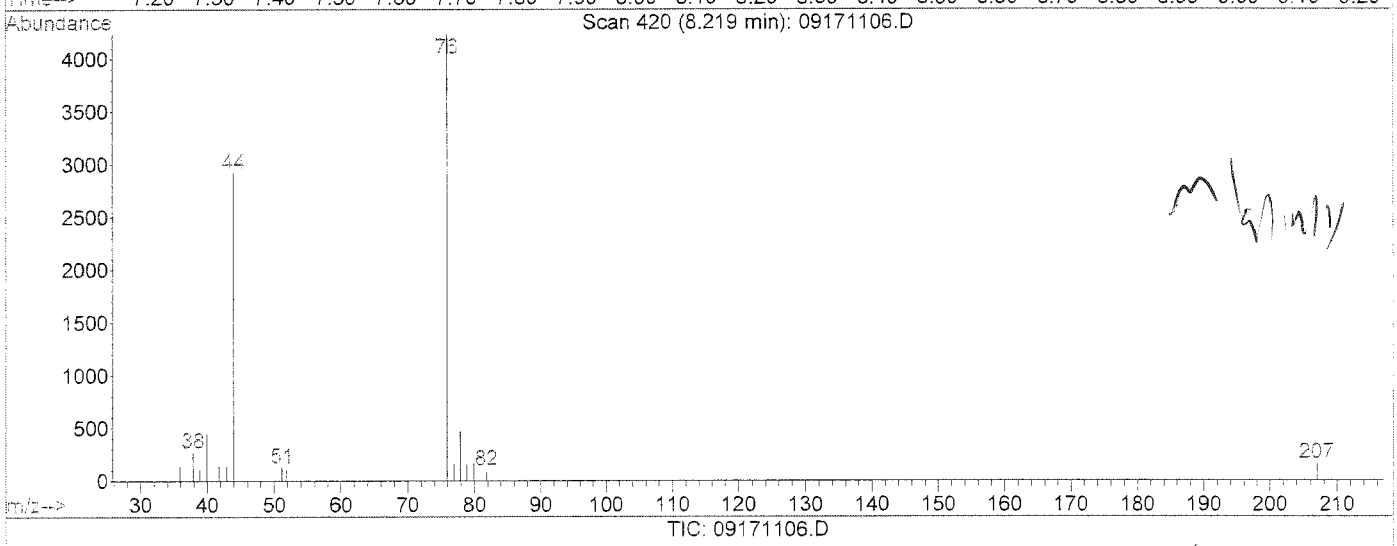
09171106.D 091611.M Mon Sep 19 07:13:42 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

9/20/11

(19) Carbon Disulfide (T)

8.22min 0.32ug/L

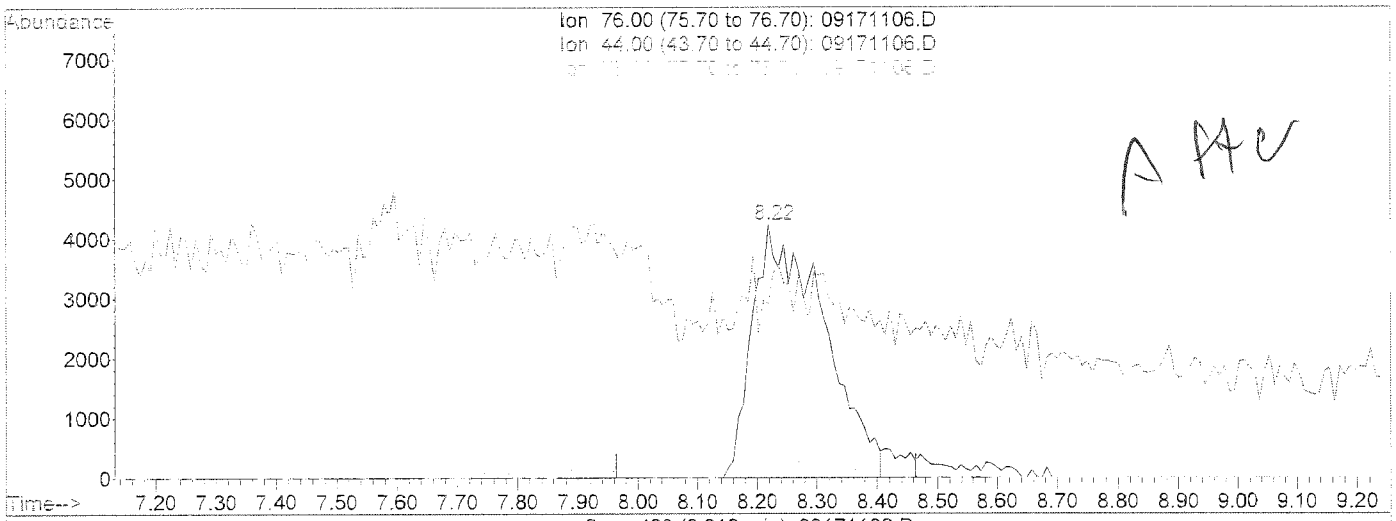
response 13030

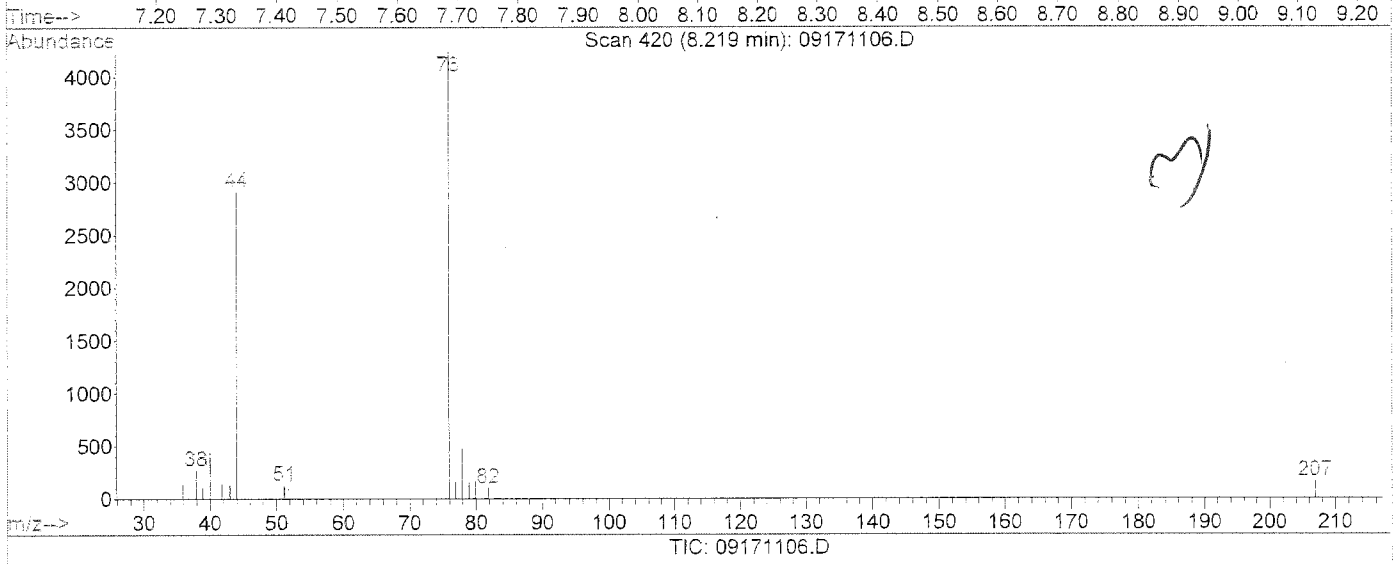
Ion	Exp%	Act%
76.00	100	100
44.00	4.30	11.83#
78.00	5.10	13.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

(19) Carbon Disulfide (T)

8.22min 0.87ug/L m

response 34853

Ion	Exp%	Act%
76.00	100	100
44.00	4.30	4.42
78.00	5.10	5.04
0.00	0.00	0.00

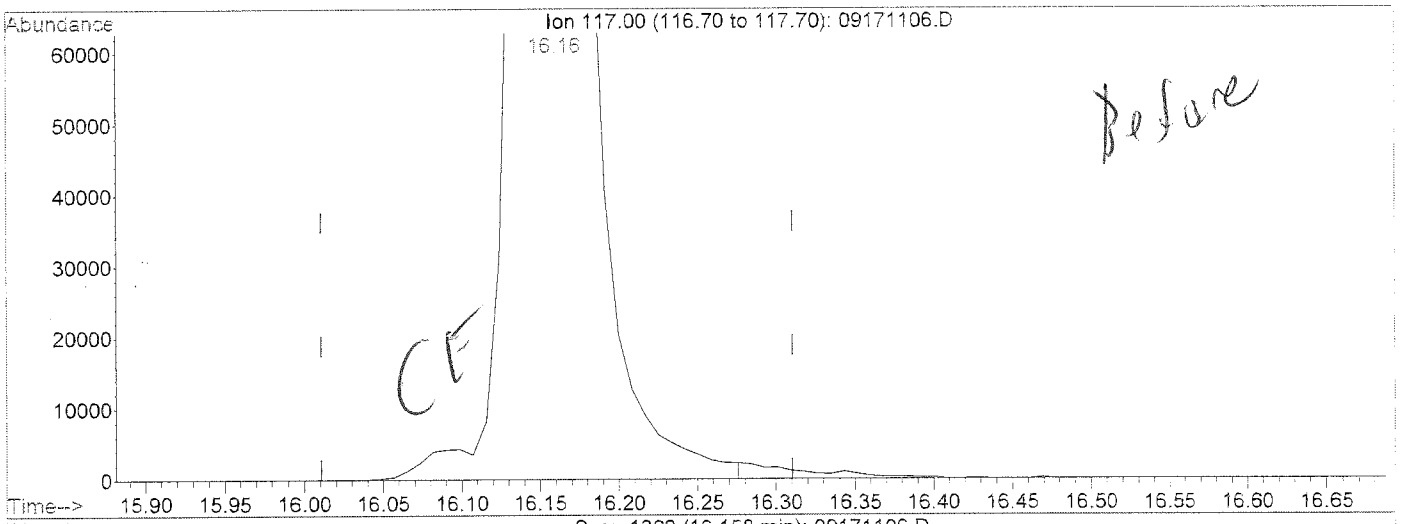
9/20/11

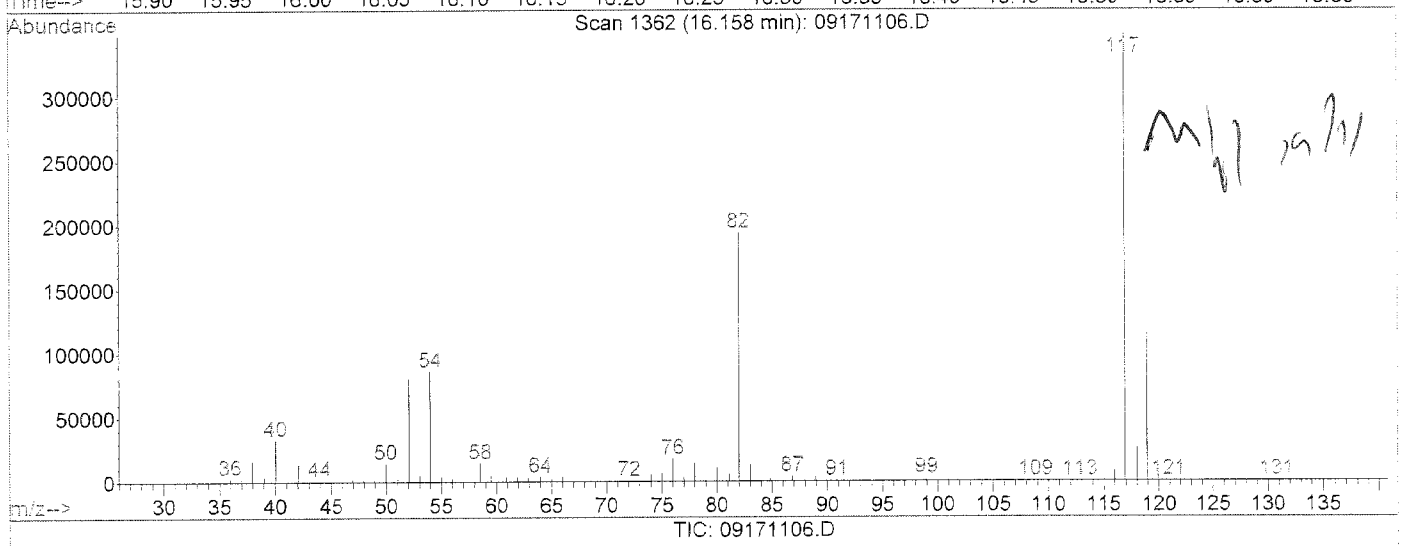
09171106.D 091611.M Mon Sep 19 07:14:01 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:13 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

(52) Chlorobenzene-d5 (I)

16.16min 25.00ug/L

response 846474

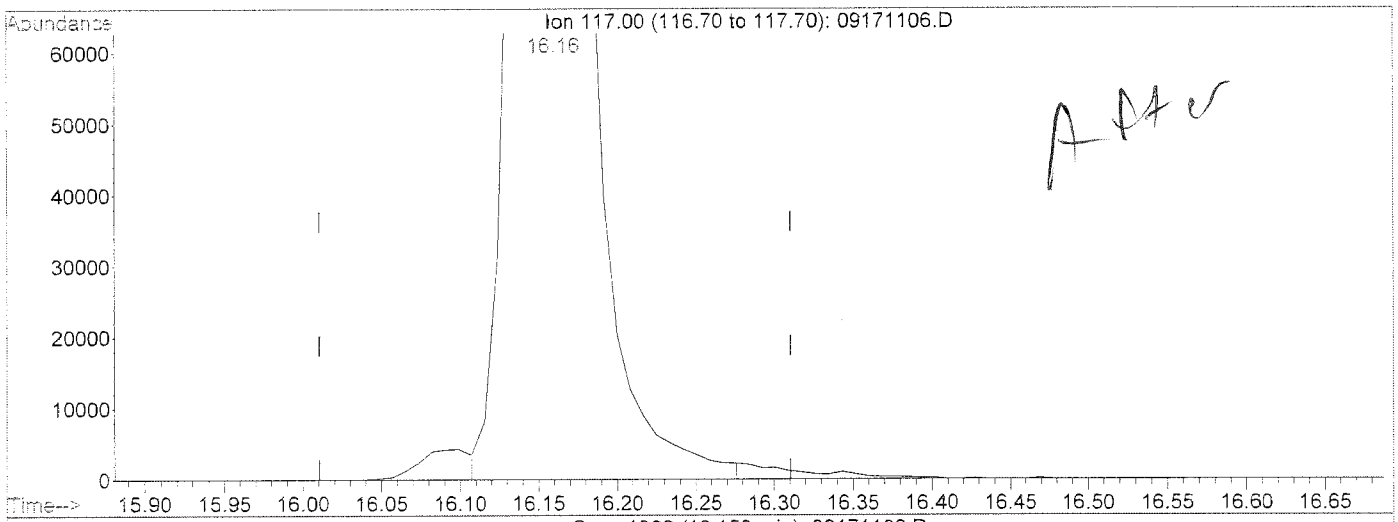
Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

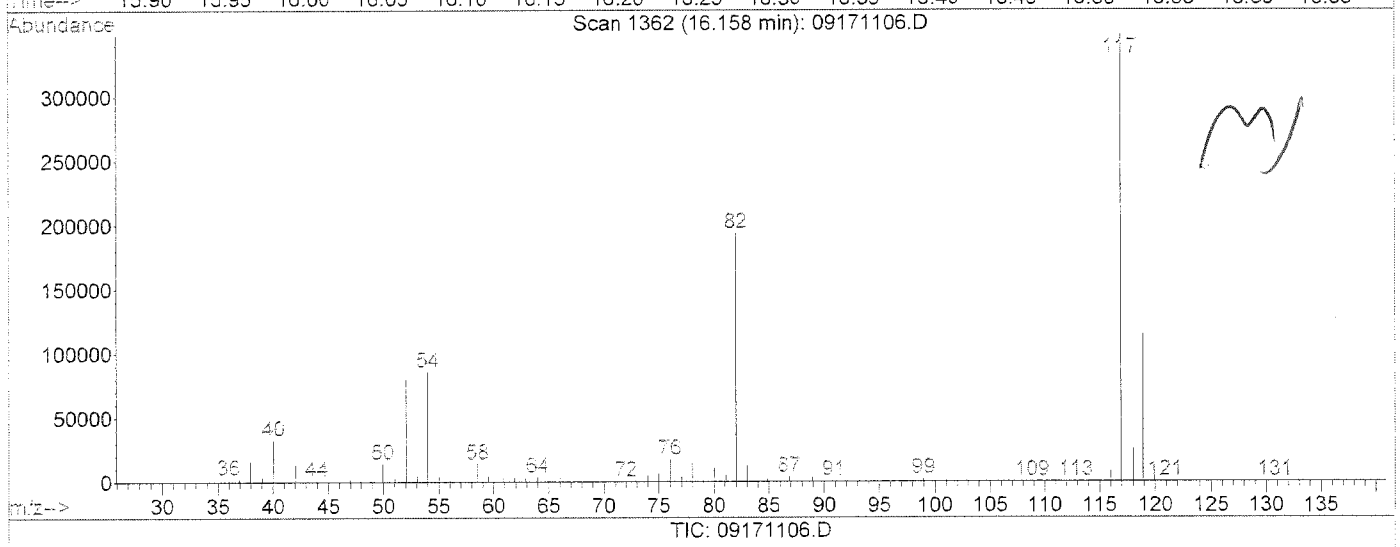
✓ 9/20/11

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:14 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(52) Chlorobenzene-d5 (I)

16.16min 25.00ug/L m

response 836500

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:14 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.60	65	103709	200.00 ug/L	0.01
4) Pentafluorobenzene	10.71	168	567732	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	958836	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	836500m	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	357886	25.00 ug/L	-0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	325414	29.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 117.16%	
50) Toluene-d8 (surr)	14.20	98	1018877	28.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 112.48%	
64) 4-Bromofluorobenzene (surr	17.83	95	389352	29.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 119.76%	

M 9/19/11

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.90	85	18379m	0.88 ug/L	
6) Chloromethane	5.11	50	31645	1.22 ug/L	94
7) Vinyl Chloride	5.45	62	21226	1.33 ug/L	96
8) 1,3-Butadiene	5.56	54	12571	1.24 ug/L	93
9) Bromomethane	5.99	94	16356	1.17 ug/L	98
10) Chloroethane	6.20	64	13144	1.15 ug/L #	76
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	6.95	101	15695m	0.95 ug/L	
13) Acetone	7.12	43	22555	2.23 ug/L #	78
14) Acrylonitrile	7.76	53	3466	1.29 ug/L	83
15) Iodomethane	7.77	142	23948	1.06 ug/L	92
16) 1,1-Dichloroethene	7.71	96	15624	1.16 ug/L	91
17) Methylene Chloride	7.87	84	19781	1.15 ug/L	87
18) Freon 113	7.97	101	14311	1.07 ug/L #	63
19) Carbon Disulfide	8.22	76	34853m	0.87 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	19091	1.04 ug/L	86
21) MTBE	8.88	73	30985	1.18 ug/L	97
22) 1,1-Dichloroethane	9.07	63	35157	1.16 ug/L	97
23) Vinyl Acetate	9.21	43	19484	1.18 ug/L #	88
24) n-Hexane	9.57	86	3738	1.01 ug/L #	49
25) 2-Butanone (MEK)	9.59	72	1239	1.10 ug/L #	1
26) Diisopropylether (DIPE)	9.61	45	75988	1.51 ug/L #	90
27) cis-1,2-Dichloroethene	9.79	96	21368	1.12 ug/L	92
28) Bromochloromethane	10.01	128	8623	1.06 ug/L #	72
29) Chloroform	10.06	83	34197	1.15 ug/L #	93
30) 2,2-Dichloropropane	10.17	77	12717	0.98 ug/L #	49
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	40025	1.22 ug/L	95
33) Tetrahydrofuran	10.48	72	2523	2.31 ug/L #	61
34) 1,2-Dichloroethane	10.90	62	20392	1.37 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	21027	1.04 ug/L	85
36) (TAME) tert-Amyl methyl et	11.72	73	27979	1.10 ug/L	82
38) 1,1-Dichloropropene	11.26	75	24028	1.01 ug/L	97
39) Carbon Tetrachloride	11.50	117	18797	0.92 ug/L	94
0) Benzene	11.55	78	70113	1.05 ug/L #	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:14 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

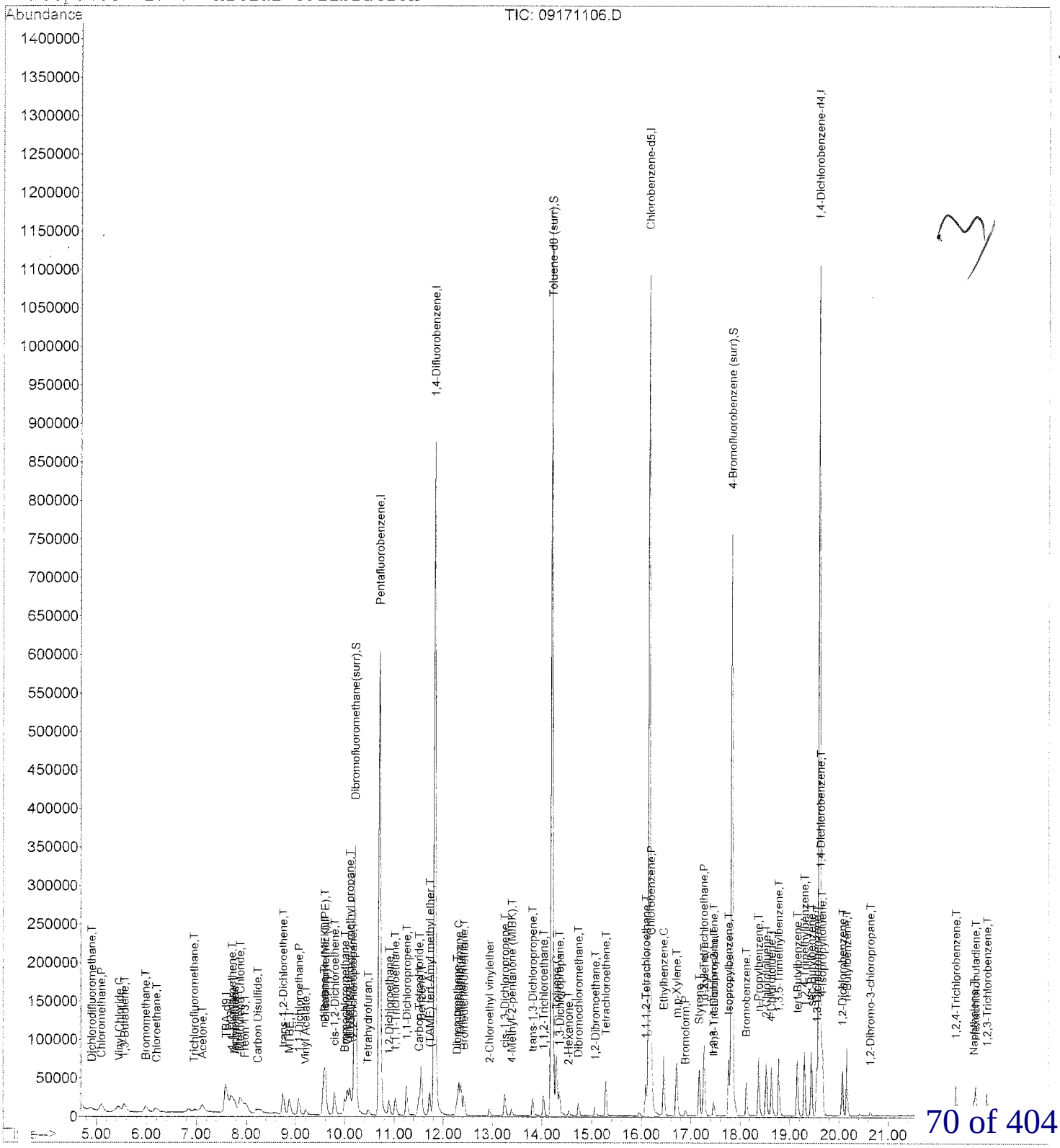
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	8728	0.96 ug/L		93
42)	1,2-Dichloropropane	12.31	63	19039	1.07 ug/L	#	82
43)	Trichloroethene	12.37	95	19316	1.07 ug/L		88
44)	Bromodichloromethane	12.42	83	21147	1.00 ug/L		95
45)	2-Chloroethyl vinylether	12.95	63	4973	0.79 ug/L		90
46)	cis-1,3-Dichloropropene	13.25	75	22355	0.95 ug/L	#	75
47)	4-Methyl-2-pentanone (MIBK	13.39	43	10242	1.37 ug/L	#	80
48)	trans-1,3-Dichloropropene	13.81	75	15817	0.88 ug/L	#	74
49)	1,1,2-Trichloroethane	14.04	97	11397	1.02 ug/L	#	91
51)	Toluene	14.30	92	39782	1.07 ug/L		99
53)	1,3-Dichloropropane	14.35	76	19593	1.02 ug/L		99
54)	2-Hexanone	14.53	43	7941	1.40 ug/L	#	71
55)	Dibromochloromethane	14.73	129	11237	0.82 ug/L		100
56)	1,2-Dibromoethane	15.07	107	10706	0.94 ug/L		97
57)	Tetrachloroethene	15.29	164	13016	0.92 ug/L		90
58)	1,1,1,2-Tetrachloroethane	16.09	131	13097	0.85 ug/L		92
59)	Chlorobenzene	16.20	112	45526	1.05 ug/L	#	85
60)	Ethylbenzene	16.45	91	72657	1.07 ug/L		99
61)	m,p-Xylene	16.71	106	30973	1.15 ug/L		96
62)	Styrene	17.17	104	38764	1.02 ug/L	#	94
63)	o-Xylene	17.27	106	28303	1.15 ug/L		99
66)	Bromoform	16.90	173	4808	1.11 ug/L		98
67)	1,1,2,2-Tetrachloroethane	17.25	83	11715	1.15 ug/L		97
68)	1,2,3-Trichloropropane	17.46	110	2961	1.09 ug/L		97
69)	trans-1,4-Dichloro-2-buten	17.46	53	1984	0.92 ug/L	#	57
70)	Isopropylbenzene	17.77	105	62462	1.15 ug/L		97
71)	Bromobenzene	18.13	156	16140	1.02 ug/L		88
72)	n-Propylbenzene	18.37	91	80568	1.14 ug/L		98
73)	2-Chlorotoluene	18.53	91	50903	1.19 ug/L		95
74)	4-Chlorotoluene	18.63	91	49685	1.16 ug/L		93
75)	1,3,5-Trimethylbenzene	18.77	105	54711	1.17 ug/L		98
76)	tert-Butylbenzene	19.16	119	45119	1.16 ug/L		98
77)	1,2,4-Trimethylbenzene	19.30	105	56348	1.18 ug/L		99
78)	sec-Butylbenzene	19.44	105	73544	1.21 ug/L		97
79)	1,3-Dichlorobenzene	19.55	146	30926	1.07 ug/L		96
80)	1,4-Dichlorobenzene	19.63	146	31006	1.10 ug/L	#	92
81)	4-Isopropyltoluene	19.66	119	59421	1.22 ug/L		98
82)	1,2-Dichlorobenzene	20.07	146	25091	1.00 ug/L		95
83)	n-Butylbenzene	20.16	91	56576	1.17 ug/L		97
84)	1,2-Dibromo-3-chloropropan	20.63	75	1171	1.09 ug/L	#	67
85)	1,2,4-Trichlorobenzene	22.37	180	15989	0.99 ug/L		95
86)	Naphthalene	22.73	128	18319	0.89 ug/L		99
87)	Hexachlorobutadiene	22.77	225	11005	1.02 ug/L		93
88)	1,2,3-Trichlorobenzene	23.00	180	12857	1.01 ug/L		98

(#) = qualifier out of range (m) = manual integration
09171106.D 091611.M Mon Sep 19 07:14:48 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:14 2011 Quant Results File: 091611.RES

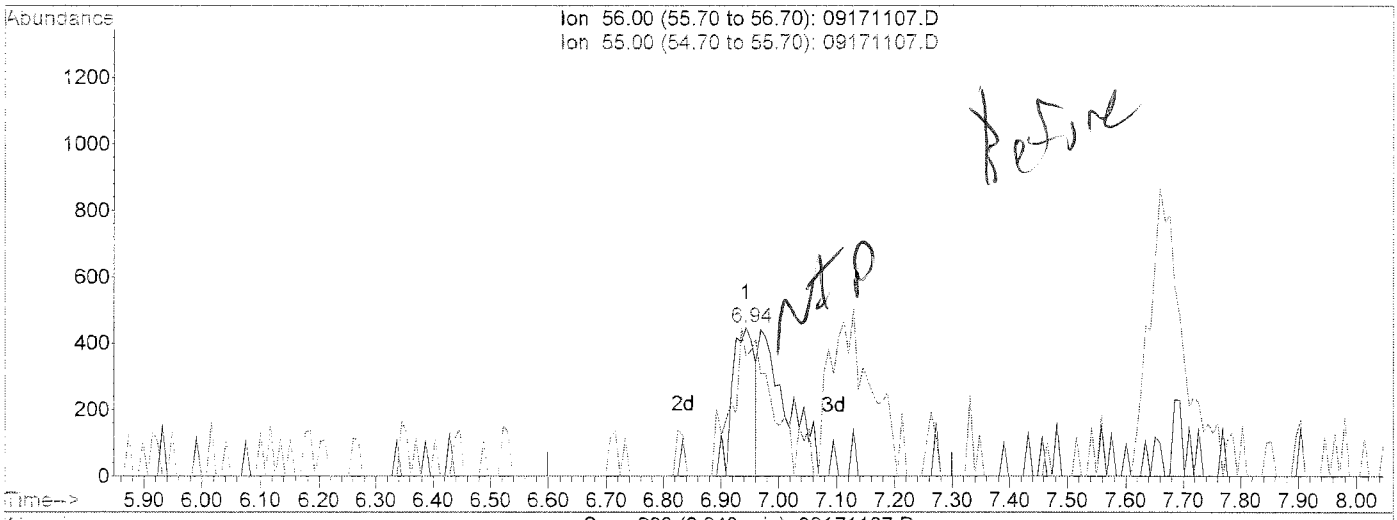
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

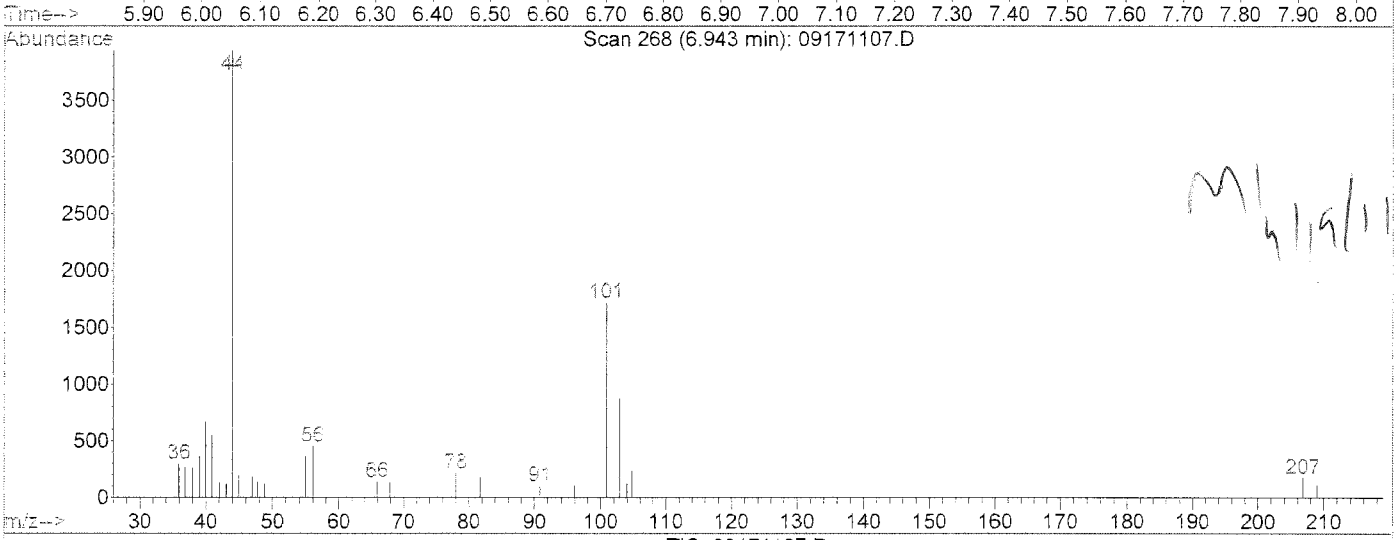


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:14 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

(11) Acrolein

6.94min 1.18ug/L

response 1217

Ion	Exp%	Act%
56.00	100	100
55.00	67.30	166.89#
0.00	0.00	0.00
0.00	0.00	0.00

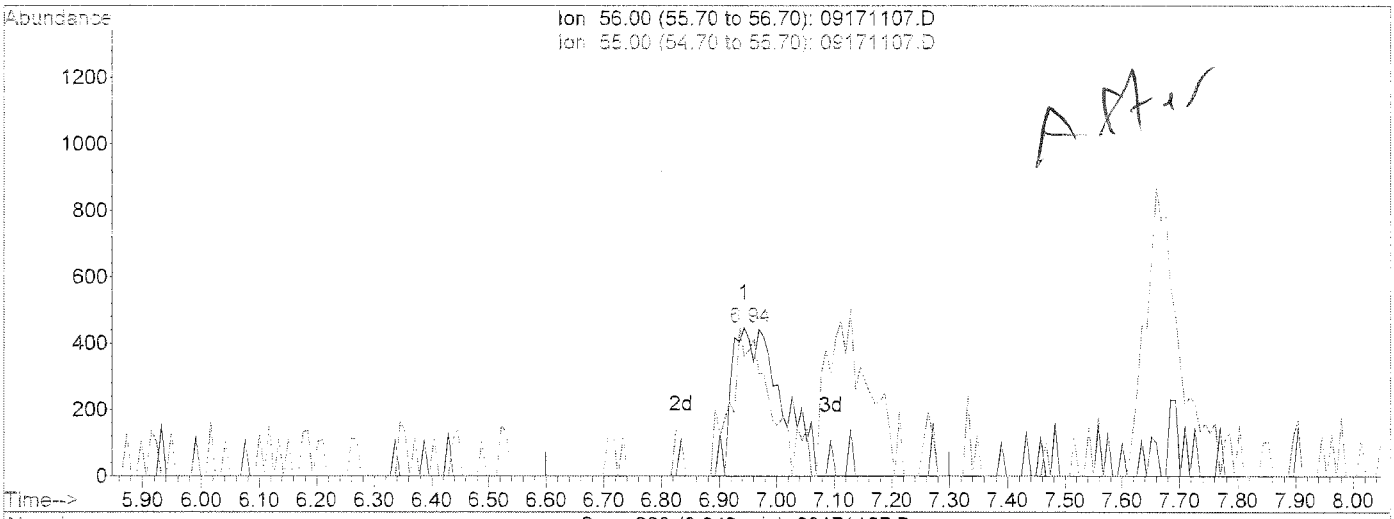
9/20/11

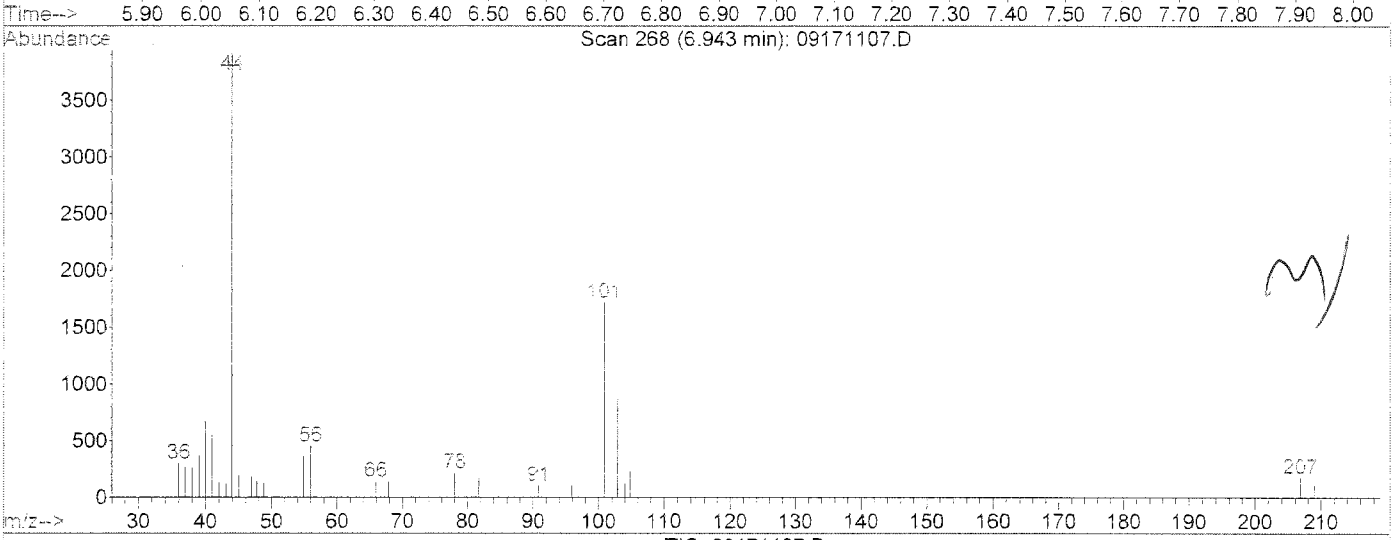
09171107.D 091611.M Mon Sep 19 07:15:12 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

(11) Acrolein

6.94min 2.57ug/L m

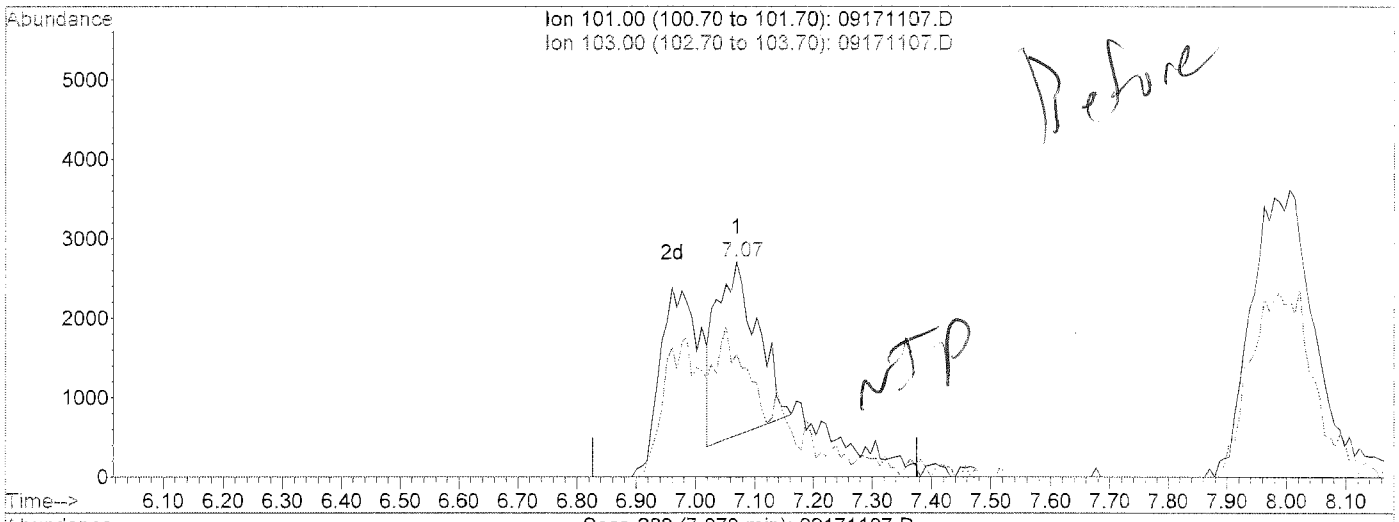
response 2651

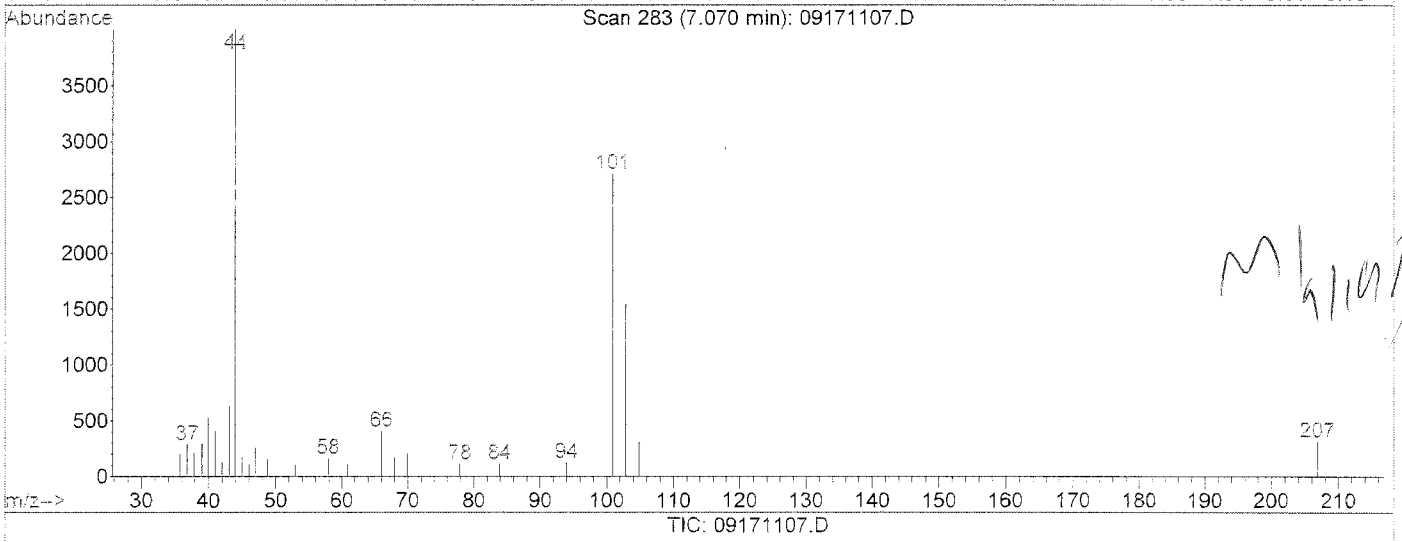
Ion	Exp%	Act%
56.00	100	100
55.00	67.30	76.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.07min 0.64ug/L

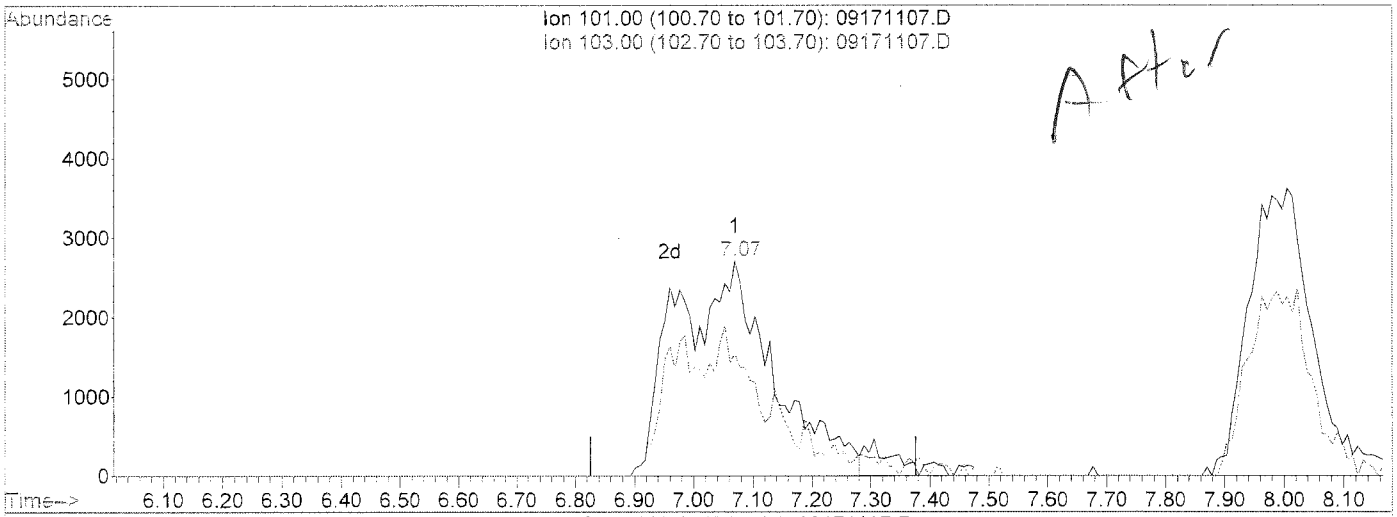
response 10477

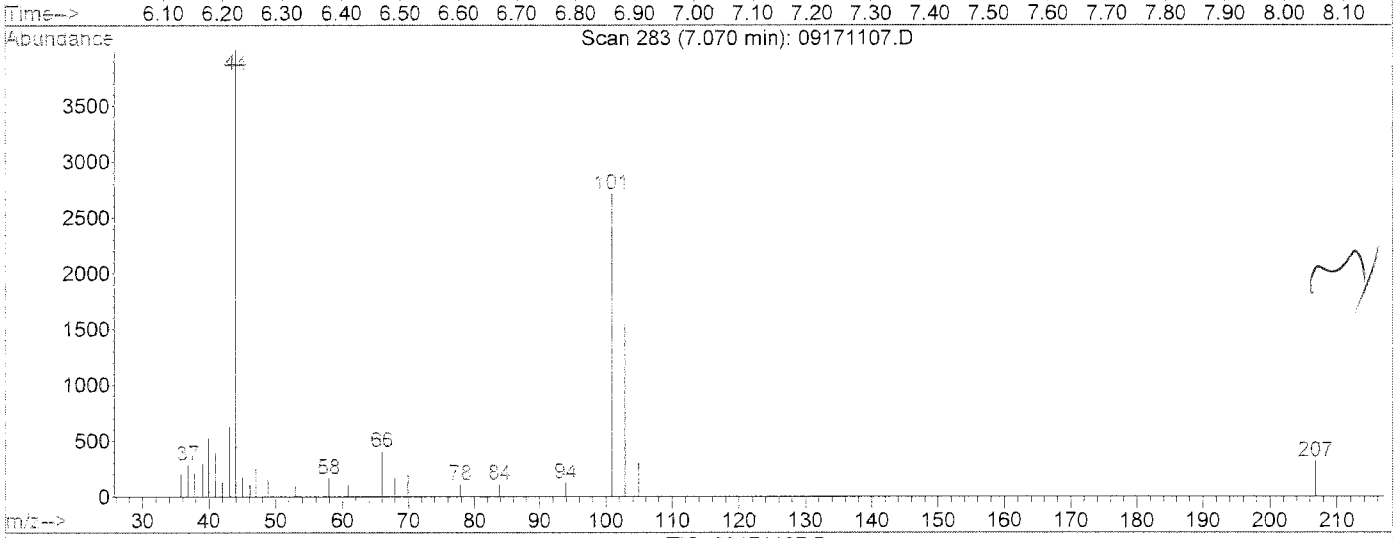
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	50.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

9/20/11

(12) Trichlorofluoromethane (T)

7.07min 1.86ug/L m

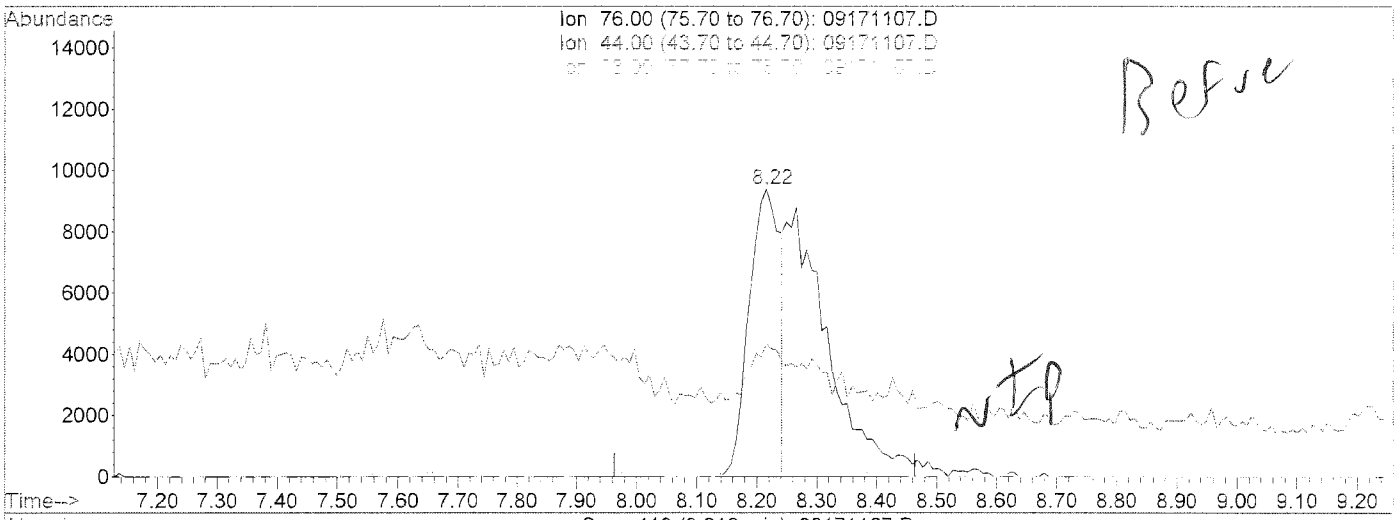
response 30635

Ion	Exp%	Act%
101.00	100	100
103.00	61.20	56.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

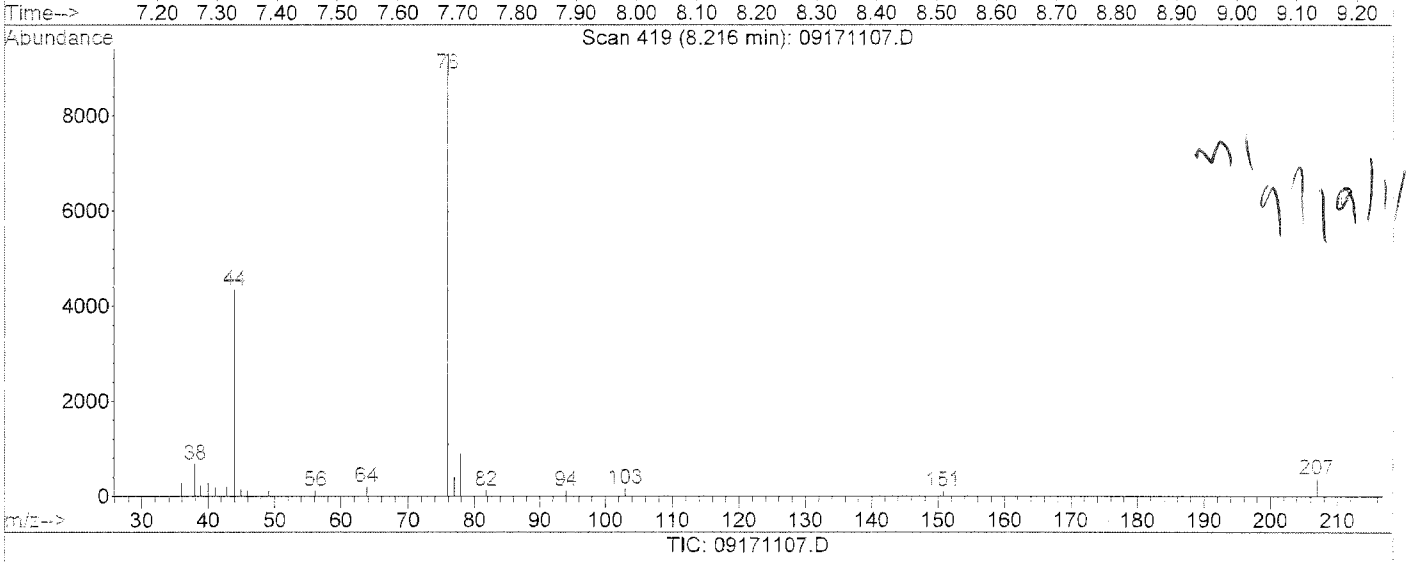
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



Before

NTP



TIC: 09171107.D

MI 9/19/11

(19) Carbon Disulfide (T)

8.22min 0.84ug/L

response 33430

Ion	Exp%	Act%
76.00	100	100
44.00	4.30	23.28#
78.00	5.10	8.12#
0.00	0.00	0.00

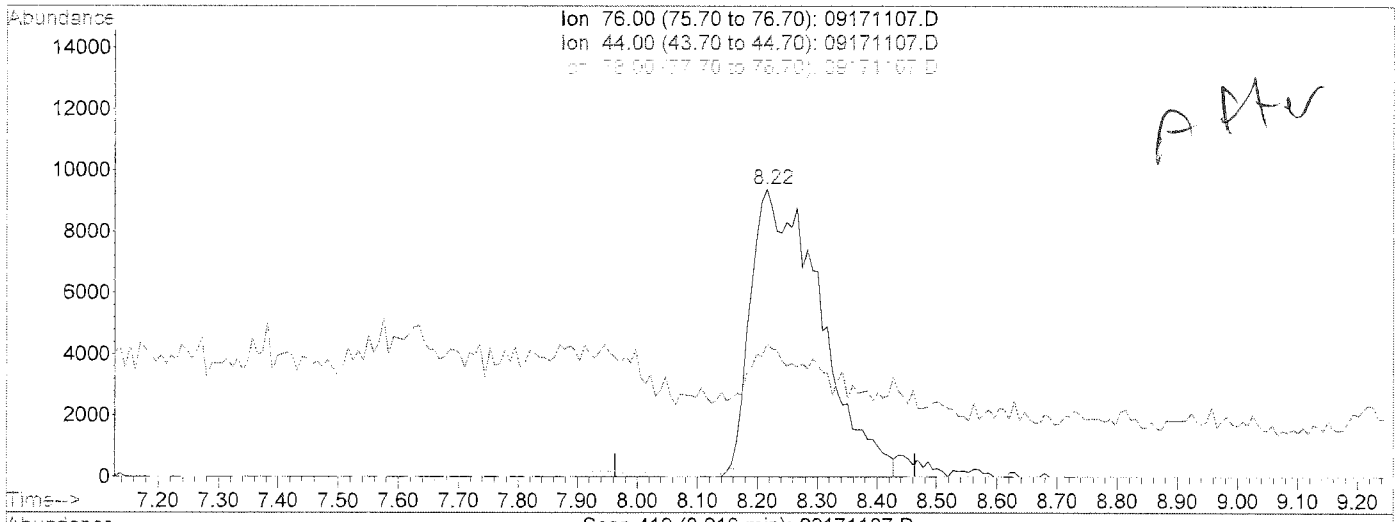
9/20/11

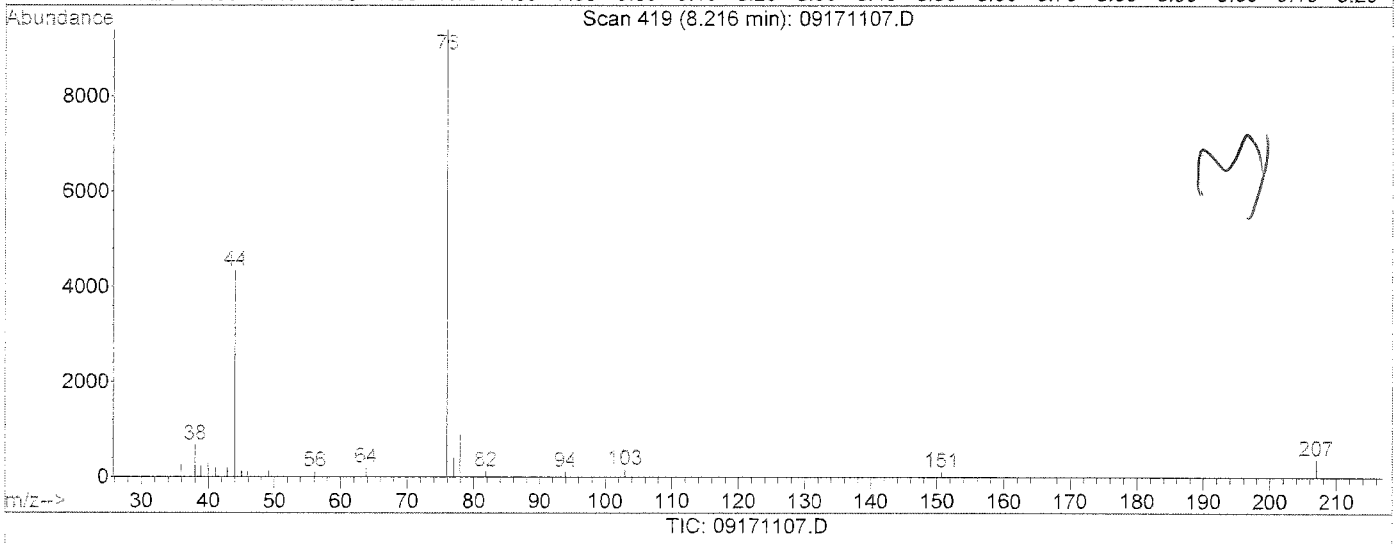
09171107.D 091611.M Mon Sep 19 07:15:45 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

(19) Carbon Disulfide (T)

8.22min 1.89ug/L m

response 75719

Ion	Exp%	Act%
76.00	100	100
44.00	4.30	10.28#
78.00	5.10	3.58#
0.00	0.00	0.00

09171107.D 091611.M Mon Sep 19 07:15:53 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	109544	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	563985	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	955797	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	808613	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	358117	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	328422	29.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 119.04%	
50) Toluene-d8 (surr)	14.20	98	1006028	27.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.40%	
64) 4-Bromofluorobenzene (surr	17.83	95	387427	30.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 123.28%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.70	59	11513	11.28 ug/L #	89
5) Dichlorodifluoromethane	4.90	85	33947	1.63 ug/L	93
6) Chloromethane	5.11	50	58934	2.28 ug/L	97
7) Vinyl Chloride	5.47	62	40515	2.56 ug/L	96
8) 1,3-Butadiene	5.56	54	24531	2.44 ug/L	95
9) Bromomethane	5.99	94	32348	2.33 ug/L	99
10) Chloroethane	6.19	64	24466	2.16 ug/L	96
11) Acrolein	6.94	56	2651m	2.57 ug/L	
12) Trichlorofluoromethane	7.07	101	30635m	1.86 ug/L	
13) Acetone	7.12	43	30767	4.17 ug/L #	83
14) Acrylonitrile	7.75	53	7350	2.76 ug/L	84
15) Iodomethane	7.76	142	47746	2.12 ug/L #	93
16) 1,1-Dichloroethene	7.70	96	28805	2.15 ug/L	100
17) Methylene Chloride	7.89	84	37747	2.21 ug/L	86
18) Freon 113	8.00	101	26853	2.01 ug/L	92
19) Carbon Disulfide	8.22	76	75719m	1.89 ug/L	
20) trans-1,2-Dichloroethene	8.76	96	39069	2.14 ug/L	88
21) MTBE	8.88	73	64439	2.48 ug/L	95
22) 1,1-Dichloroethane	9.07	63	72123	2.39 ug/L	97
23) Vinyl Acetate	9.22	43	44919	2.75 ug/L #	91
24) n-Hexane	9.57	86	6866	1.87 ug/L #	53
25) 2-Butanone (MEK)	9.60	72	2562	2.30 ug/L #	3
26) Diisopropylether (DIPE)	9.61	45	154506	3.10 ug/L #	95
27) cis-1,2-Dichloroethene	9.79	96	42529	2.24 ug/L	87
28) Bromochloromethane	10.01	128	17537	2.17 ug/L #	71
29) Chloroform	10.06	83	67999	2.30 ug/L #	94
30) 2,2-Dichloropropane	10.17	77	28166	2.19 ug/L #	76
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	90933	2.80 ug/L	94
33) Tetrahydrofuran	10.47	72	3541	3.26 ug/L #	59
34) 1,2-Dichloroethane	10.90	62	40782	2.75 ug/L	98
35) 1,1,1-Trichloroethane	11.03	97	44217	2.19 ug/L	92
36) (TAME) tert-Amyl methyl et	11.72	73	62070	2.49 ug/L	86
38) 1,1-Dichloropropene	11.26	75	45960	1.94 ug/L	99
39) Carbon Tetrachloride	11.50	117	38849	1.90 ug/L	99
0) Benzene	11.55	78	138568	2.07 ug/L #	90

(#) = qualifier out of range (m) = manual integration

9/19/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

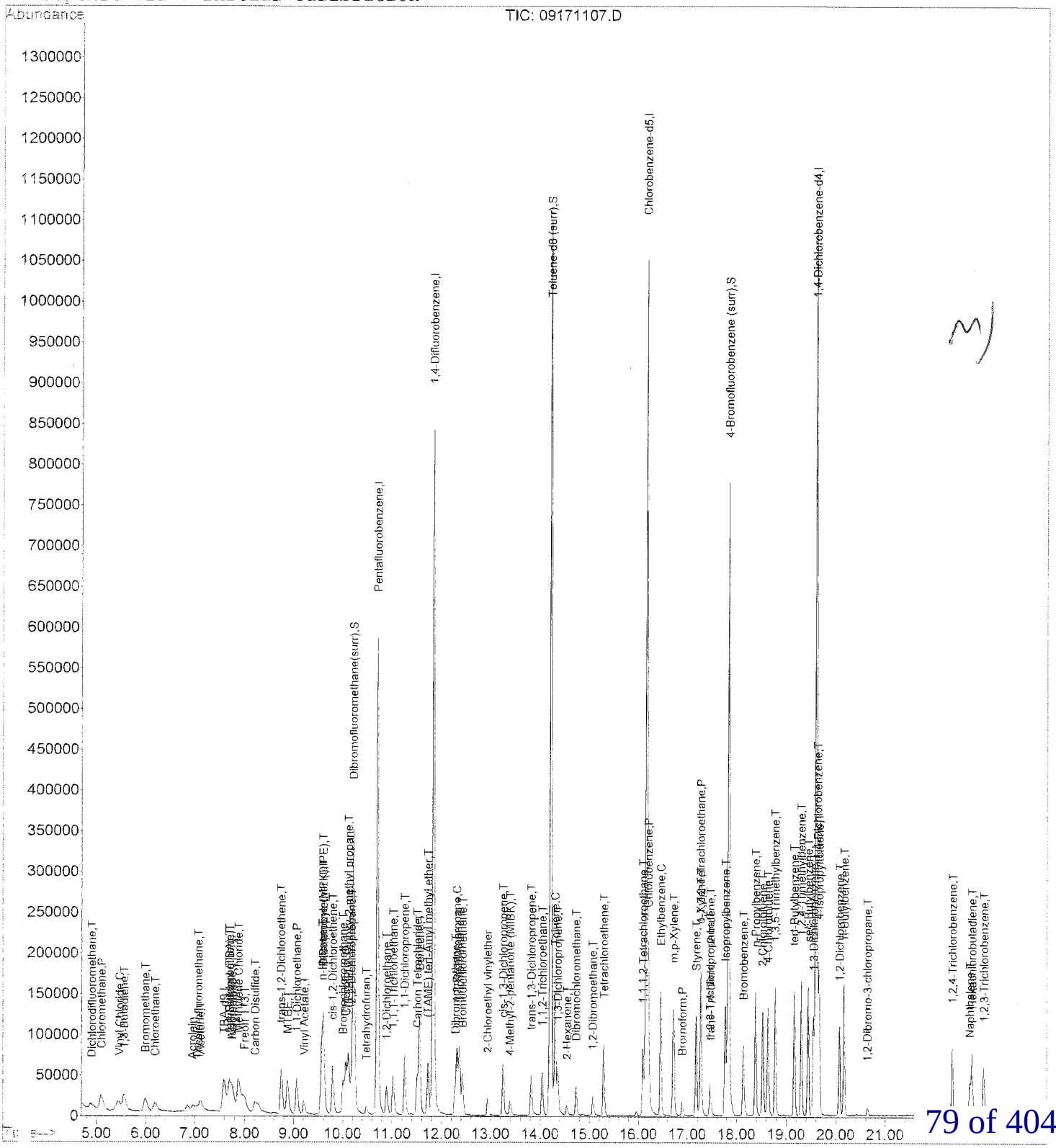
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.28	93	18981	2.10 ug/L		94
42)	1,2-Dichloropropane	12.32	63	38591	2.17 ug/L	#	84
43)	Trichloroethene	12.36	95	37797	2.11 ug/L		93
44)	Bromodichloromethane	12.43	83	44311	2.10 ug/L		98
45)	2-Chloroethyl vinylether	12.94	63	10843	1.73 ug/L		91
46)	cis-1,3-Dichloropropene	13.26	75	46010	1.96 ug/L	#	76
47)	4-Methyl-2-pentanone (MIBK	13.39	43	20983	2.82 ug/L	#	86
48)	trans-1,3-Dichloropropene	13.82	75	35438	1.98 ug/L	#	77
49)	1,1,2-Trichloroethane	14.04	97	23367	2.10 ug/L	#	91
51)	Toluene	14.30	92	80519	2.18 ug/L		99
53)	1,3-Dichloropropane	14.35	76	38916	2.09 ug/L		100
54)	2-Hexanone	14.54	43	14891	2.72 ug/L	#	78
55)	Dibromochloromethane	14.73	129	24423	1.85 ug/L		98
56)	1,2-Dibromoethane	15.07	107	23304	2.11 ug/L		95
57)	Tetrachloroethene	15.29	164	26504	1.93 ug/L		97
58)	1,1,1,2-Tetrachloroethane	16.09	131	29132	1.95 ug/L		100
59)	Chlorobenzene	16.20	112	91538	2.17 ug/L		93
60)	Ethylbenzene	16.46	91	147940	2.26 ug/L		97
61)	m,p-Xylene	16.72	106	59430	2.28 ug/L		97
62)	Styrene	17.17	104	79532	2.18 ug/L	#	96
63)	o-Xylene	17.27	106	57165	2.40 ug/L		100
66)	Bromoform	16.90	173	10793	1.79 ug/L		99
67)	1,1,2,2-Tetrachloroethane	17.26	83	24330	2.40 ug/L		98
68)	1,2,3-Trichloropropane	17.46	110	5939	2.18 ug/L		95
69)	trans-1,4-Dichloro-2-buten	17.48	53	4162	1.92 ug/L	#	71
70)	Isopropylbenzene	17.77	105	124278	2.28 ug/L		98
71)	Bromobenzene	18.13	156	32374	2.05 ug/L	#	85
72)	n-Propylbenzene	18.38	91	160670	2.28 ug/L		99
73)	2-Chlorotoluene	18.53	91	100100	2.33 ug/L		97
74)	4-Chlorotoluene	18.63	91	99872	2.33 ug/L		95
75)	1,3,5-Trimethylbenzene	18.78	105	109721	2.34 ug/L		98
76)	tert-Butylbenzene	19.15	119	88851	2.27 ug/L		99
77)	1,2,4-Trimethylbenzene	19.30	105	113485	2.38 ug/L		99
78)	sec-Butylbenzene	19.44	105	141929	2.33 ug/L		96
79)	1,3-Dichlorobenzene	19.55	146	62061	2.15 ug/L		98
80)	1,4-Dichlorobenzene	19.63	146	62267	2.21 ug/L	#	93
81)	4-Isopropyltoluene	19.66	119	116385	2.38 ug/L		98
82)	1,2-Dichlorobenzene	20.07	146	54019	2.16 ug/L		96
83)	n-Butylbenzene	20.17	91	108644	2.24 ug/L		97
84)	1,2-Dibromo-3-chloropropan	20.64	75	2608	2.42 ug/L	#	64
85)	1,2,4-Trichlorobenzene	22.37	180	32710	2.03 ug/L		100
86)	Naphthalene	22.73	128	41118	2.00 ug/L		97
87)	Hexachlorobutadiene	22.78	225	20027	1.86 ug/L		97
88)	1,2,3-Trichlorobenzene	23.01	180	25190	1.97 ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:15 2011 Quant Results File: 091611.RES

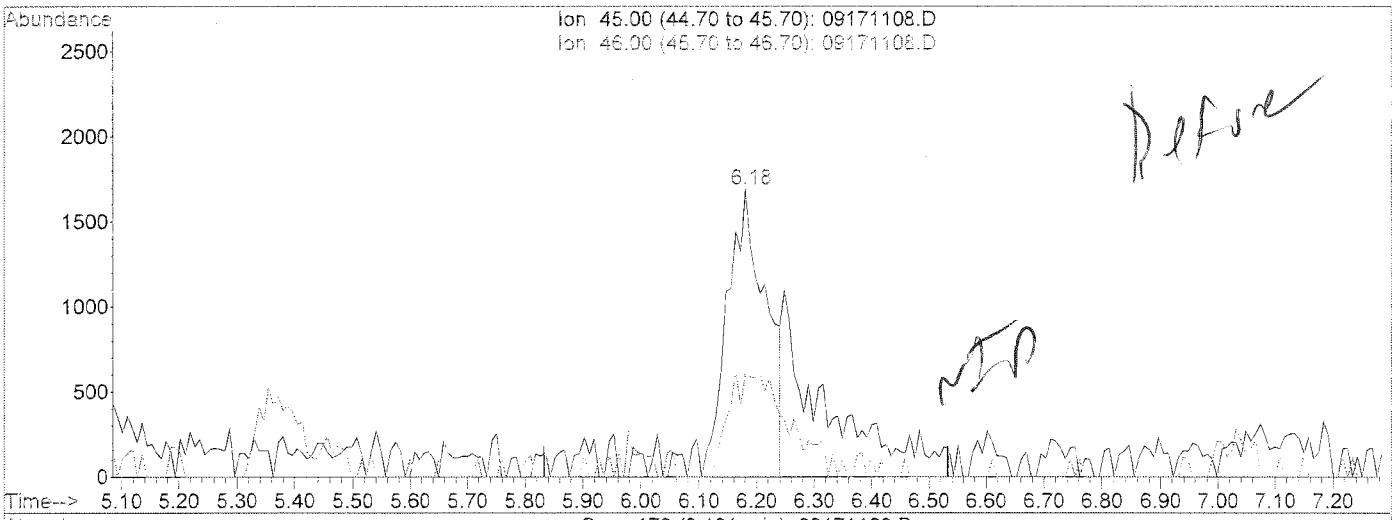
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

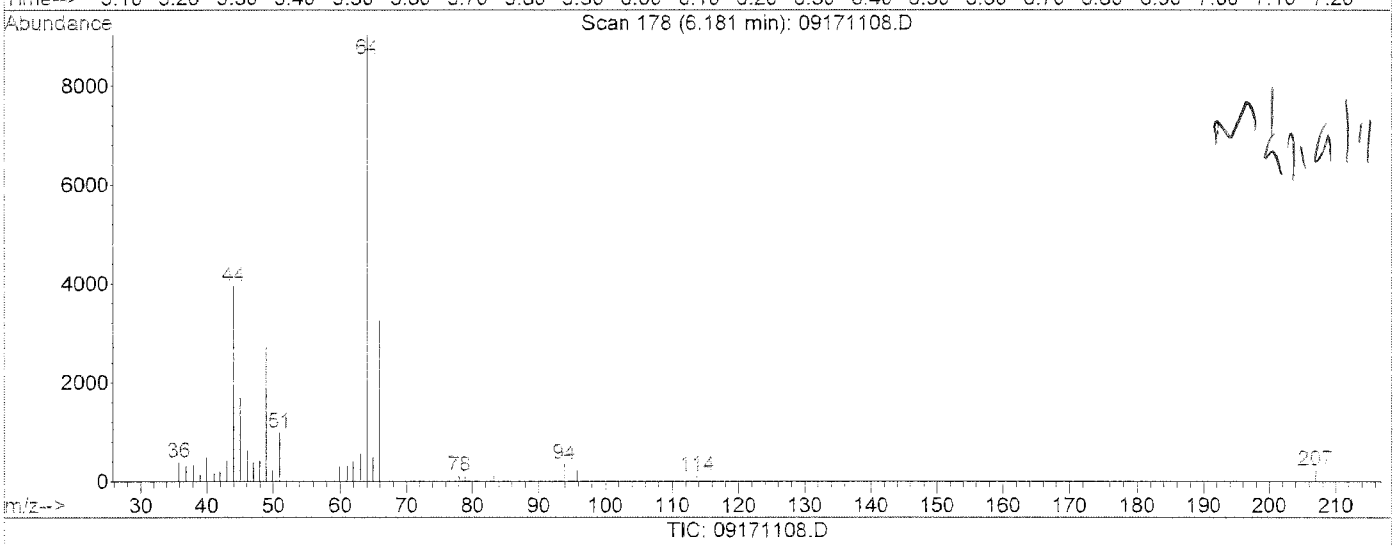


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171108.D

(2) Ethanol (T)

6.18min 68.99ug/L

response 7865

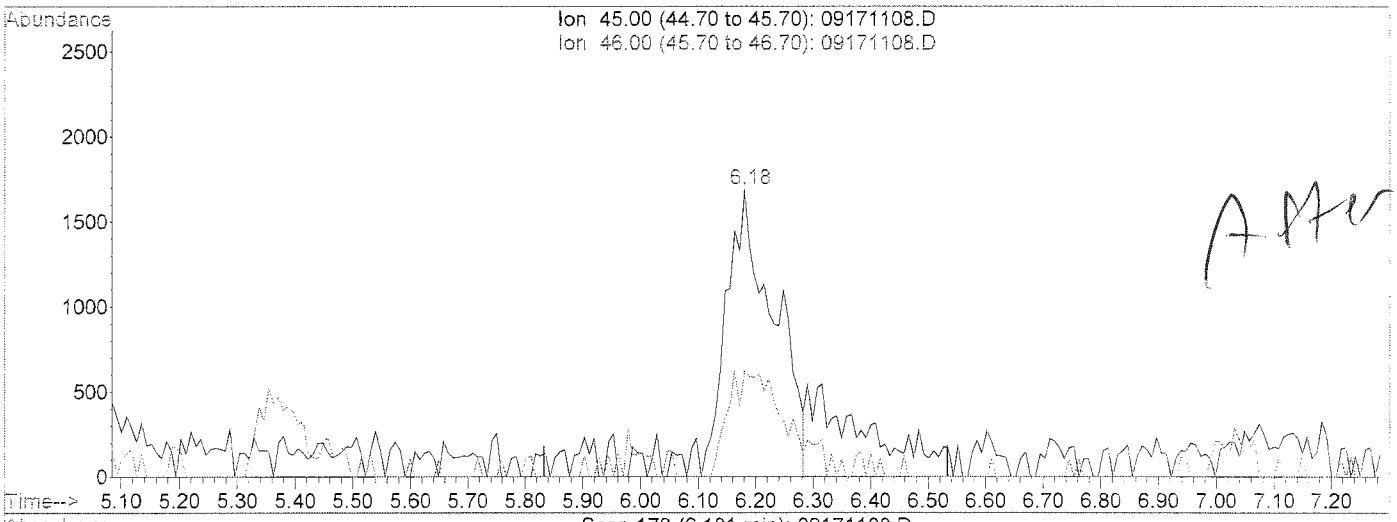
Ion	Exp%	Act%
45.00	100	100
46.00	33.80	13.83#
0.00	0.00	0.00
0.00	0.00	0.00

09171108.D 091611.M Mon Sep 19 07:16:37 2011

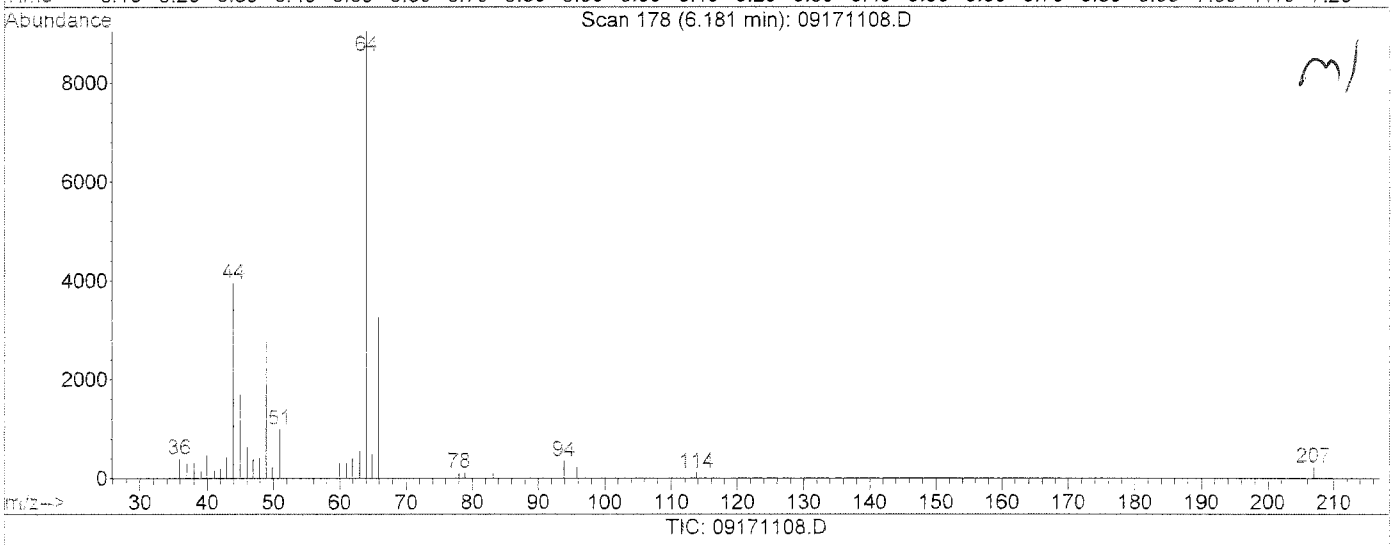
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



After



TIC: 09171108.D

m

(2) Ethanol (T)

6.18min 88.67ug/L m

response 9643

Ion	Exp%	Act%
45.00	100	100
46.00	33.80	11.28#
0.00	0.00	0.00
0.00	0.00	0.00

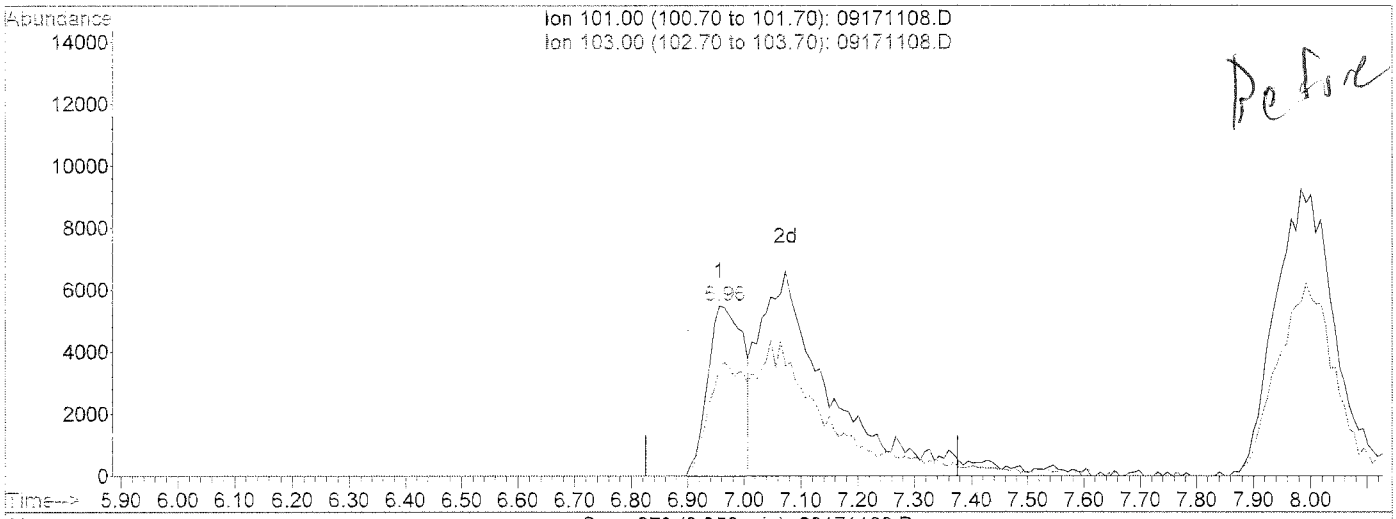
9/20/11 T

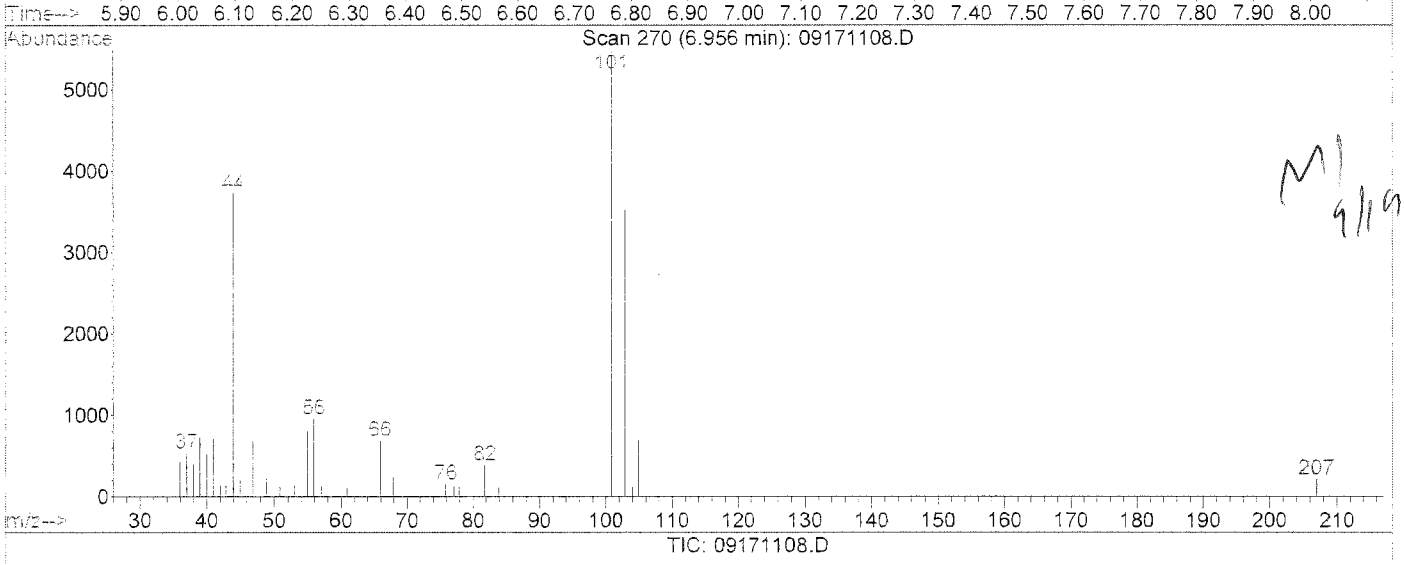
09171108.D 091611.M Mon Sep 19 07:16:46 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171108.D

MI 9/19/11

(12) Trichlorofluoromethane (T)

9/20/11

6.96min 1.49ug/L

response 24119

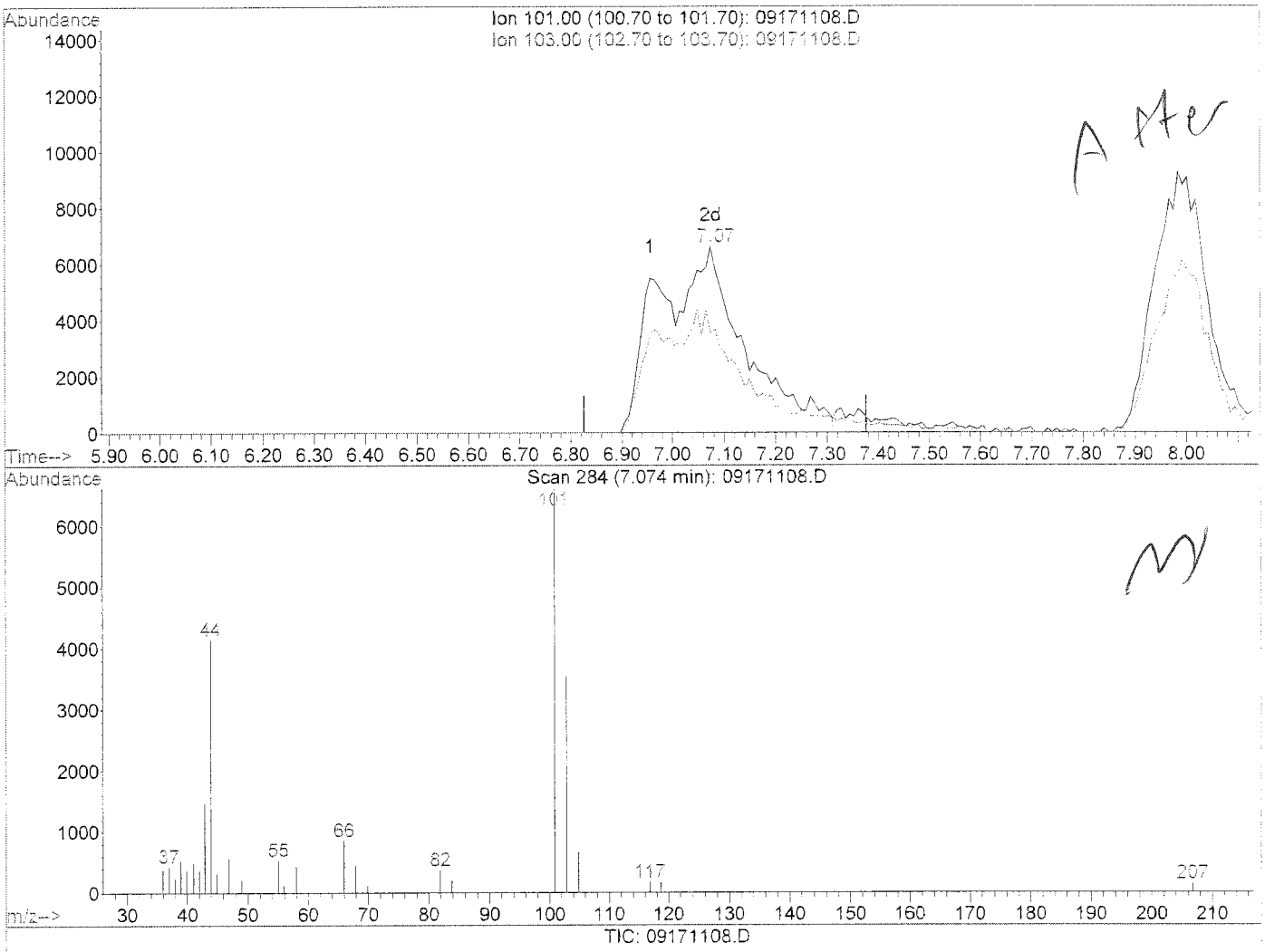
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	64.10
0.00	0.00	0.00
0.00	0.00	0.00

09171108.D 091611.M Mon Sep 19 07:16:53 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



TIC: 09171108.D

After

M

(12) Trichlorofluoromethane (T)

7.07min 4.75ug/L m

response 76743

Ion	Exp%	Act%
101.00	100	100
103.00	61.20	53.52
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	104990	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	553946	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	931476	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	806915	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	345498	25.00 ug/L	-0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	325939	30.07 ug/L	0.00
Spiked Amount 25.000			Recovery = 120.28%		
50) Toluene-d8 (surr)	14.20	98	989988	28.12 ug/L	0.00
Spiked Amount 25.000			Recovery = 112.48%		
64) 4-Bromofluorobenzene (surr	17.84	95	383998	30.61 ug/L	0.00
Spiked Amount 25.000			Recovery = 122.44%		

Target Compounds					Qvalue
2) Ethanol	6.18	45	9643m	88.67 ug/L	
3) tert-Butanol (TBA)	7.70	59	25703	26.27 ug/L	97
5) Dichlorodifluoromethane	4.89	85	87516	4.29 ug/L #	63
6) Chloromethane	5.10	50	145356	5.72 ug/L	99
7) Vinyl Chloride	5.46	62	100804	6.49 ug/L	99
8) 1,3-Butadiene	5.56	54	62749	6.35 ug/L #	84
9) Bromomethane	6.00	94	76920	5.63 ug/L	99
10) Chloroethane	6.20	64	60241	5.42 ug/L	97
11) Acrolein	6.95	56	5302	5.24 ug/L #	63
12) Trichlorofluoromethane	7.07	101	76743m	4.75 ug/L	
13) Acetone	7.12	43	37834	5.98 ug/L #	87
14) Acrylonitrile	7.75	53	17476	6.68 ug/L	84
15) Iodomethane	7.77	142	113369	5.12 ug/L	95
16) 1,1-Dichloroethene	7.70	96	68134	5.19 ug/L	96
17) Methylene Chloride	7.88	84	88408	5.28 ug/L	90
18) Freon 113	7.98	101	67939	5.19 ug/L	93
19) Carbon Disulfide	8.21	76	181180	4.61 ug/L #	92
20) trans-1,2-Dichloroethene	8.75	96	93175	5.20 ug/L	87
21) MTBE	8.88	73	154482	6.05 ug/L	95
22) 1,1-Dichloroethane	9.06	63	174400	5.90 ug/L	98
23) Vinyl Acetate	9.21	43	115774	7.21 ug/L #	92
24) n-Hexane	9.57	86	17305	4.80 ug/L #	55
25) 2-Butanone (MEK)	9.59	72	5766	5.26 ug/L #	1
26) Diisopropylether (DIPE)	9.60	45	371692	7.59 ug/L #	96
27) cis-1,2-Dichloroethene	9.80	96	100728	5.39 ug/L	87
28) Bromochloromethane	10.01	128	43488	5.49 ug/L #	70
29) Chloroform	10.06	83	168338	5.79 ug/L #	94
30) 2,2-Dichloropropane	10.17	77	65277	5.17 ug/L #	64
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	208188	6.53 ug/L	95
33) Tetrahydrofuran	10.48	72	5900	5.53 ug/L #	52
34) 1,2-Dichloroethane	10.90	62	100371	6.89 ug/L	98
35) 1,1,1-Trichloroethane	11.03	97	112266	5.67 ug/L	95
36) (TAME) tert-Amyl methyl et	11.72	73	143464	5.91 ug/L	86
38) 1,1-Dichloropropene	11.26	75	114847	4.99 ug/L	99
39) Carbon Tetrachloride	11.51	117	98204	4.94 ug/L	98
40) Benzene	11.55	78	332411	5.10 ug/L #	89

(#) = qualifier out of range (m) = manual integration
09171108.D 091611.M Mon Sep 19 07:17:30 2011

MI 9/19/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

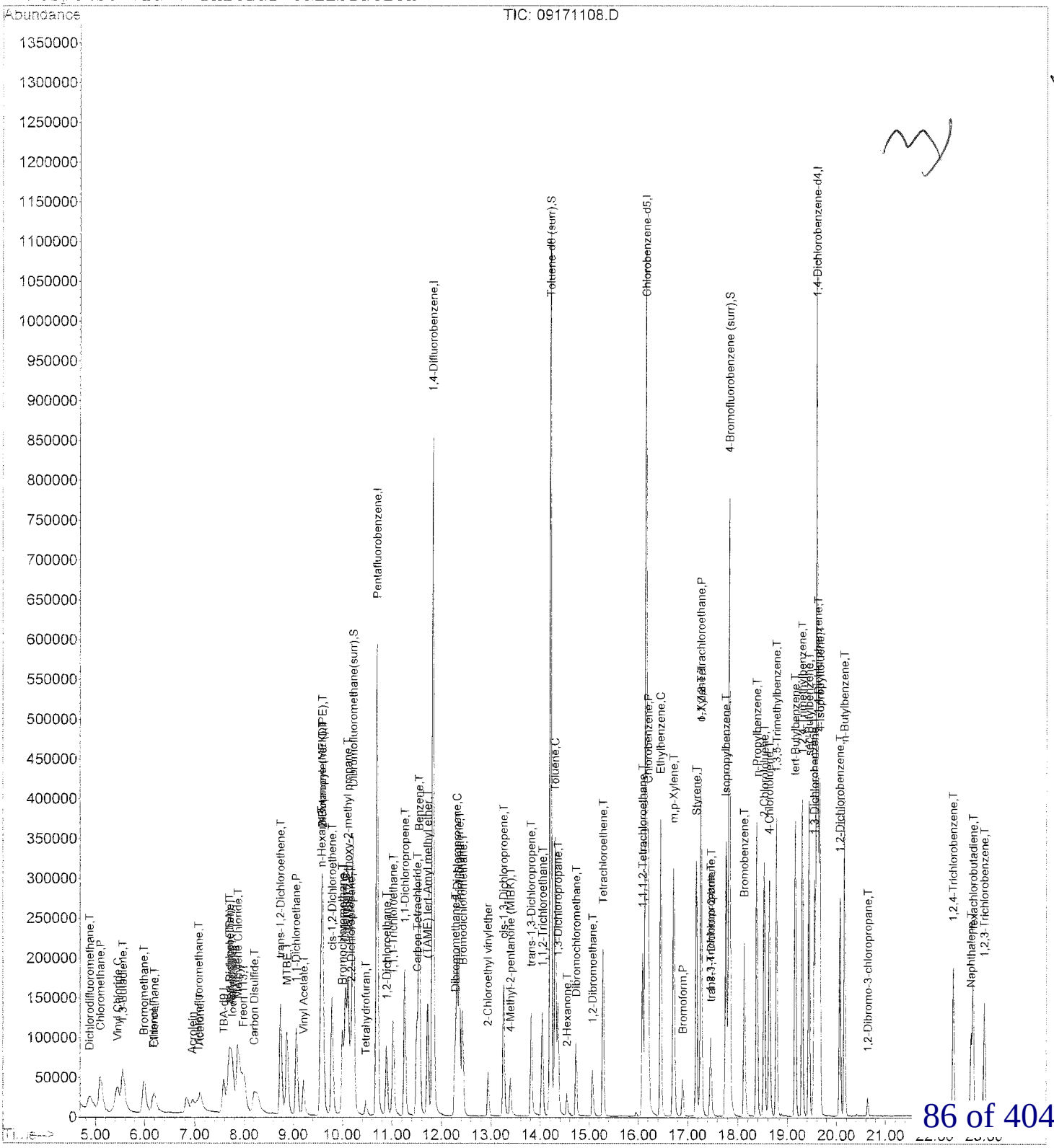
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	47074	5.33 ug/L		92
42)	1,2-Dichloropropane	12.32	63	93504	5.39 ug/L	#	85
43)	Trichloroethene	12.37	95	90591	5.18 ug/L		93
44)	Bromodichloromethane	12.43	83	108668	5.30 ug/L		100
45)	2-Chloroethyl vinylether	12.94	63	29831	4.87 ug/L		97
46)	cis-1,3-Dichloropropene	13.25	75	119463	5.21 ug/L	#	77
47)	4-Methyl-2-pentanone (MIBK	13.39	43	53796	7.42 ug/L	#	84
48)	trans-1,3-Dichloropropene	13.82	75	92765	5.33 ug/L	#	78
49)	1,1,2-Trichloroethane	14.03	97	56221	5.17 ug/L	#	90
51)	Toluene	14.30	92	193004	5.37 ug/L		99
53)	1,3-Dichloropropane	14.36	76	96624	5.19 ug/L		100
54)	2-Hexanone	14.54	43	33077	6.07 ug/L	#	81
55)	Dibromochloromethane	14.73	129	63979	4.85 ug/L		99
56)	1,2-Dibromoethane	15.07	107	57375	5.21 ug/L		97
57)	Tetrachloroethene	15.29	164	63421	4.63 ug/L		96
58)	1,1,1,2-Tetrachloroethane	16.09	131	73676	4.94 ug/L		98
59)	Chlorobenzene	16.20	112	220791	5.26 ug/L		96
60)	Ethylbenzene	16.45	91	356767	5.46 ug/L		98
61)	m,p-Xylene	16.71	106	138880	5.33 ug/L		95
62)	Styrene	17.17	104	209559	5.74 ug/L	#	97
63)	o-Xylene	17.27	106	134177	5.65 ug/L		99
66)	Bromoform	16.90	173	30474	4.14 ug/L		100
67)	1,1,2,2-Tetrachloroethane	17.26	83	58939	6.02 ug/L		99
68)	1,2,3-Trichloropropane	17.46	110	14852	5.64 ug/L		97
69)	trans-1,4-Dichloro-2-buten	17.48	53	11912	5.71 ug/L		79
70)	Isopropylbenzene	17.77	105	305937	5.82 ug/L		97
71)	Bromobenzene	18.14	156	78669	5.16 ug/L		88
72)	n-Propylbenzene	18.38	91	393552	5.78 ug/L		98
73)	2-Chlorotoluene	18.53	91	240941	5.82 ug/L		96
74)	4-Chlorotoluene	18.63	91	239702	5.78 ug/L		93
75)	1,3,5-Trimethylbenzene	18.78	105	264323	5.85 ug/L		99
76)	tert-Butylbenzene	19.16	119	224883	5.97 ug/L		98
77)	1,2,4-Trimethylbenzene	19.30	105	270702	5.88 ug/L		100
78)	sec-Butylbenzene	19.44	105	342318	5.82 ug/L		97
79)	1,3-Dichlorobenzene	19.55	146	145682	5.24 ug/L		98
80)	1,4-Dichlorobenzene	19.63	146	141364	5.20 ug/L		97
81)	4-Isopropyltoluene	19.66	119	273532	5.80 ug/L		97
82)	1,2-Dichlorobenzene	20.07	146	127928	5.30 ug/L		98
83)	n-Butylbenzene	20.16	91	266292	5.69 ug/L		98
84)	1,2-Dibromo-3-chloropropan	20.64	75	5876	5.65 ug/L	#	74
85)	1,2,4-Trichlorobenzene	22.38	180	77759	5.01 ug/L		100
86)	Naphthalene	22.73	128	103047	5.20 ug/L		100
87)	Hexachlorobutadiene	22.77	225	45306	4.37 ug/L		99
88)	1,2,3-Trichlorobenzene	23.00	180	60327	4.89 ug/L		98

(#) = qualifier out of range (m) = manual integration
09171108.D 091611.M Mon Sep 19 07:17:30 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:16 2011 Quant Results File: 091611.RES

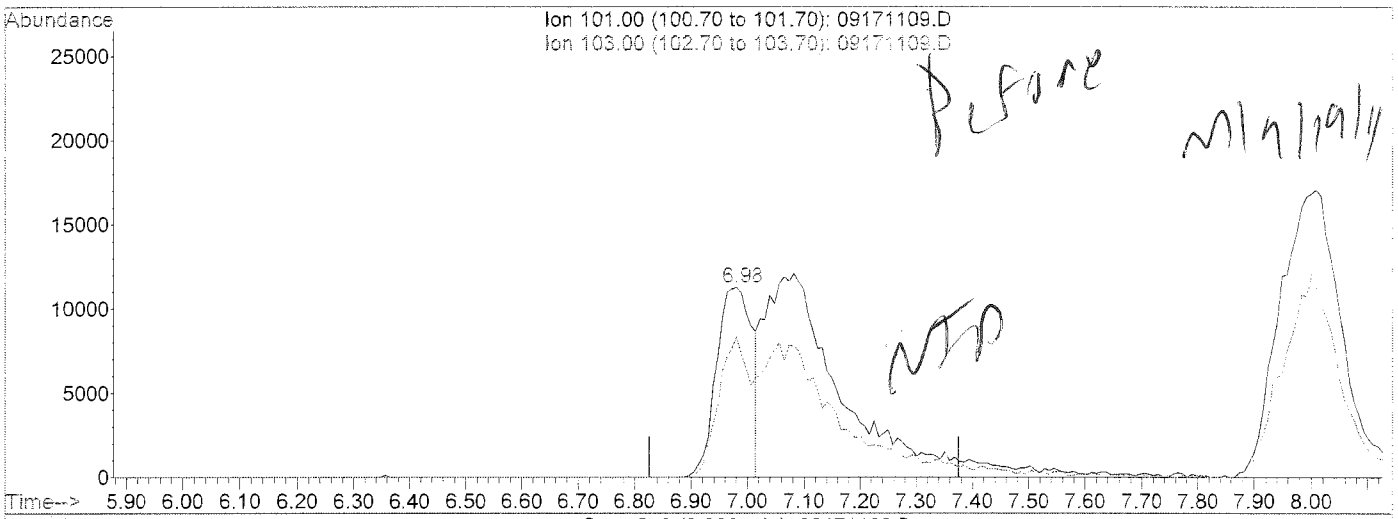
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

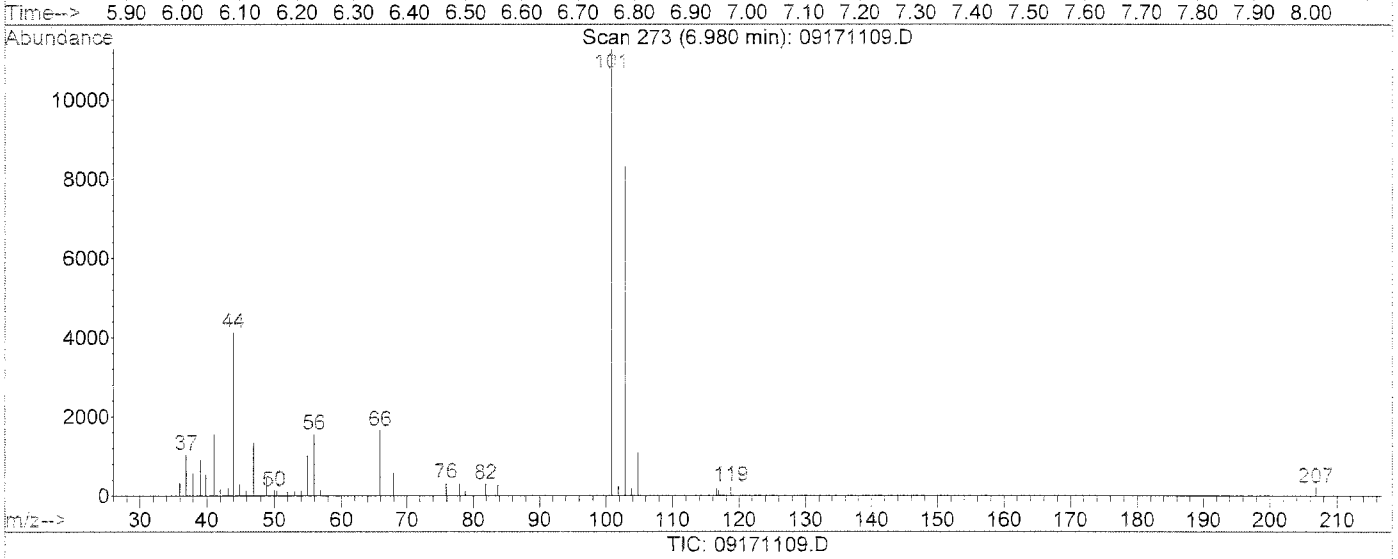


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:17 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171109.D

9/20/11

(12) Trichlorofluoromethane (T)

6.98min 3.02ug/L

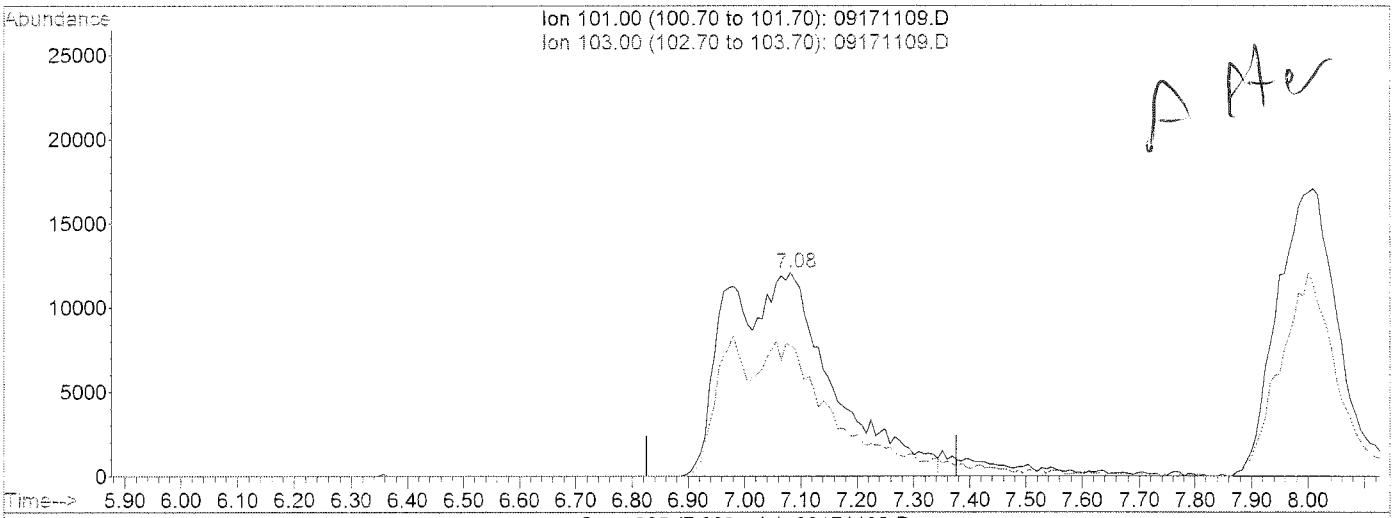
response 49986

Ion	Exp%	Act%
101.00	100	100
103.00	61.20	73.69#
0.00	0.00	0.00
0.00	0.00	0.00

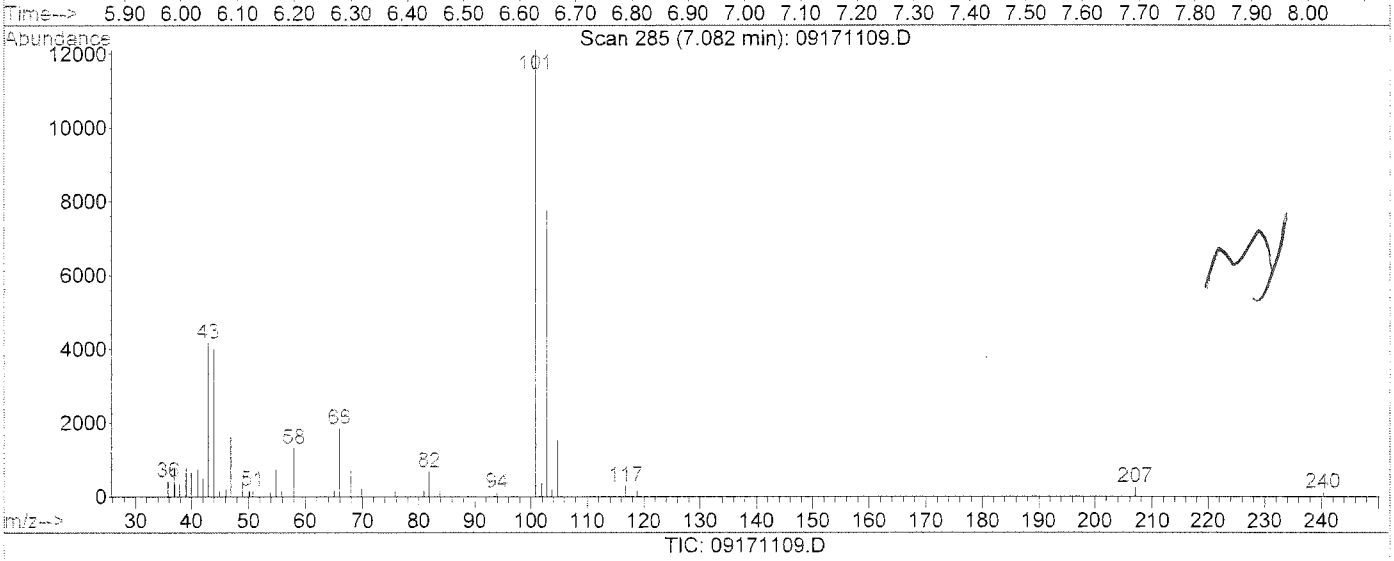
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:18 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



After



TIC: 09171109.D

(12) Trichlorofluoromethane (T)

7.08min 9.59ug/L m

response 158528

ion	Exp%	Act%
101.00	100	100
103.00	61.20	64.05
0.00	0.00	0.00
0.00	0.00	0.00

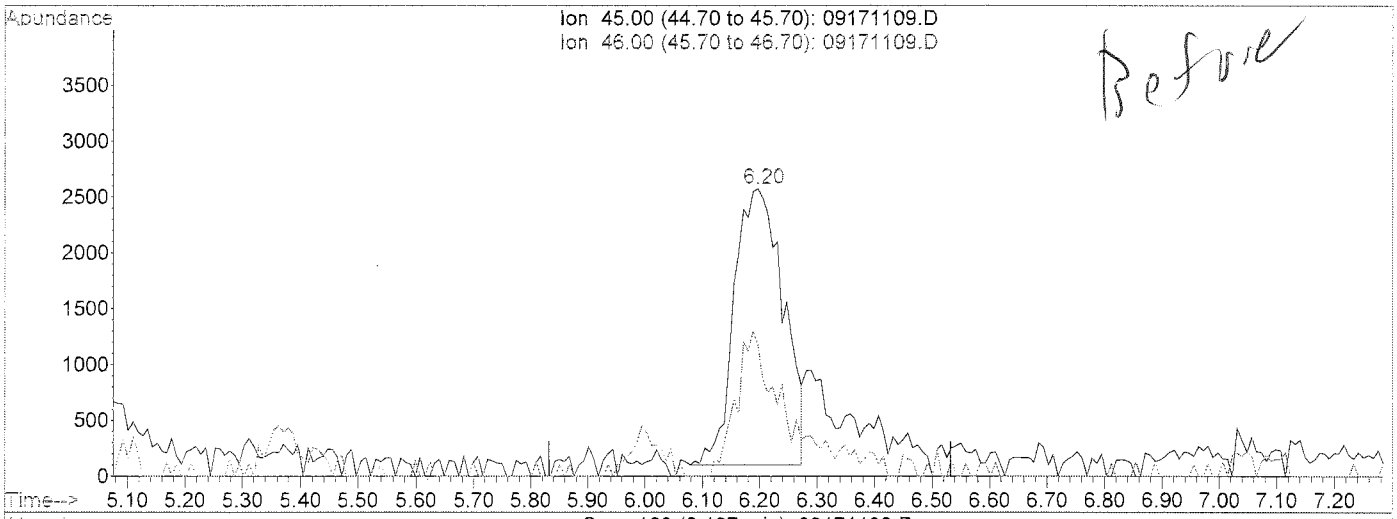
9/20/11

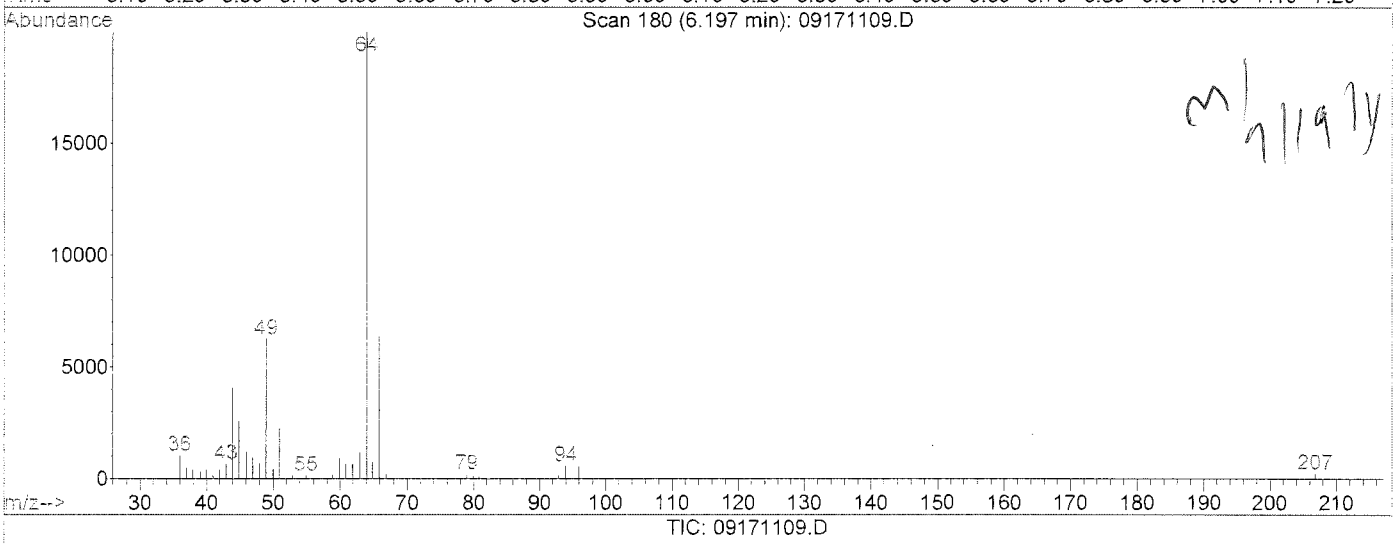
09171109.D 091611.M Mon Sep 19 07:18:14 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:18 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171109.D

(2) Ethanol (T)

6.20min 137.85ug/L

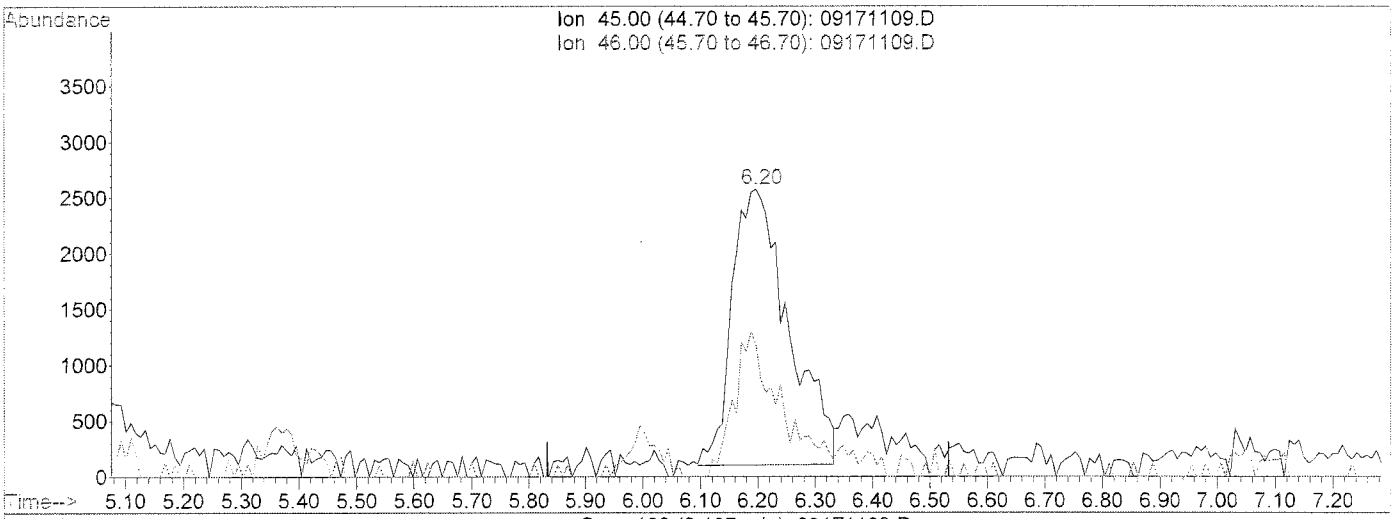
response 14778

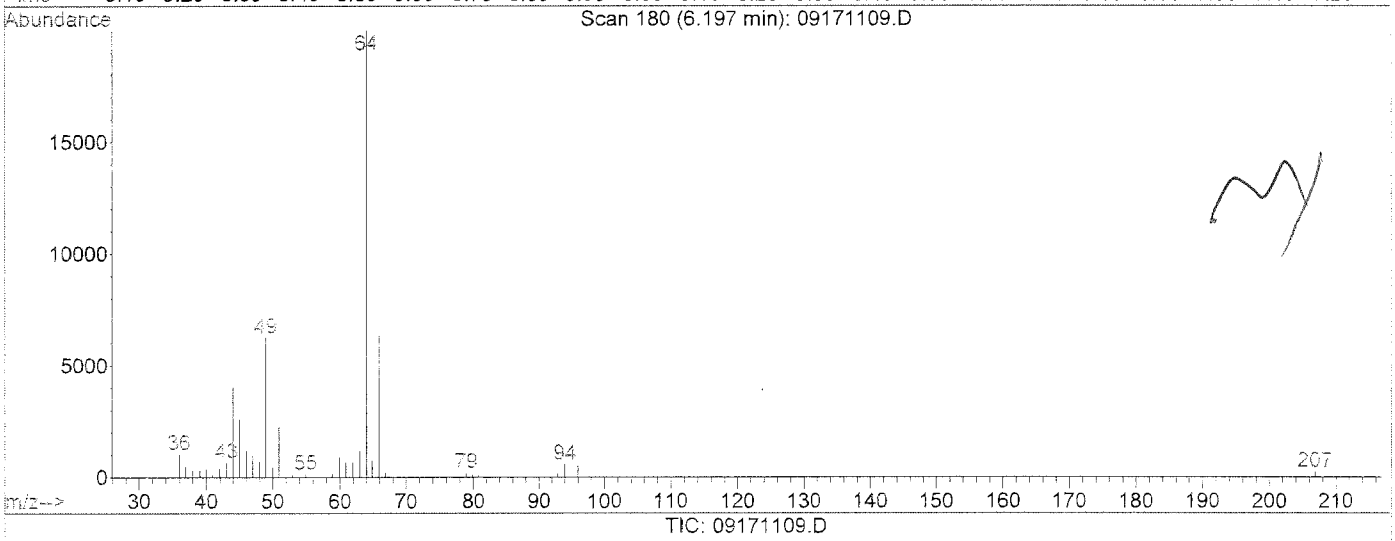
Ion	Exp%	Act%
45.00	100	100
46.00	33.80	40.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:19 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171109.D

(2) Ethanol (T)

6.20min 160.56ug/L m

response 16931

Ion	Exp%	Act%
45.00	100	100
46.00	33.80	35.37
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:19 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	110127	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	566698	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	932152	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	820055	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	351711	25.00 ug/L	-0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	326170	29.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 117.68%	
50) Toluene-d8 (surr)	14.20	98	998879	28.35 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.40%	
64) 4-Bromofluorobenzene (surr	17.84	95	381444	29.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 119.68%	

Target Compounds					Qvalue
2) Ethanol	6.20	45	16931m	160.56 ug/L	
3) tert-Butanol (TBA)	7.70	59	49210	47.96 ug/L	99
5) Dichlorodifluoromethane	4.89	85	181936	8.71 ug/L	90
6) Chloromethane	5.13	50	292989	11.28 ug/L	99
7) Vinyl Chloride	5.47	62	189318	11.91 ug/L	100
8) 1,3-Butadiene	5.56	54	121062	11.97 ug/L	87
9) Bromomethane	6.00	94	152764	10.93 ug/L	100
10) Chloroethane	6.21	64	117451	10.33 ug/L	97
11) Acrolein	6.95	56	11399	11.02 ug/L	100
12) Trichlorofluoromethane	7.08	101	158528m	9.59 ug/L	
13) Acetone	7.12	43	71504	13.71 ug/L	90
14) Acrylonitrile	7.75	53	33447	12.49 ug/L	88
15) Iodomethane	7.77	142	233413	10.30 ug/L	96
16) 1,1-Dichloroethene	7.71	96	137575	10.24 ug/L	99
17) Methylene Chloride	7.88	84	174382	10.18 ug/L	89
18) Freon 113	8.01	101	128933	9.63 ug/L	96
19) Carbon Disulfide	8.22	76	387207	9.63 ug/L #	76
20) trans-1,2-Dichloroethene	8.75	96	188769	10.29 ug/L	87
21) MTBE	8.89	73	317494	12.15 ug/L	94
22) 1,1-Dichloroethane	9.07	63	355917	11.76 ug/L	98
23) Vinyl Acetate	9.21	43	232348	14.14 ug/L #	93
24) n-Hexane	9.58	86	33518	9.08 ug/L #	55
25) 2-Butanone (MEK)	9.60	72	12823	11.44 ug/L #	26
26) Diisopropylether (DIPE)	9.60	45	746445	14.89 ug/L #	96
27) cis-1,2-Dichloroethene	9.80	96	202656	10.60 ug/L #	85
28) Bromochloromethane	10.01	128	86810	10.71 ug/L #	71
29) Chloroform	10.06	83	333467	11.22 ug/L #	94
30) 2,2-Dichloropropane	10.17	77	144578	11.19 ug/L #	71
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	440754	13.51 ug/L	94
33) Tetrahydrofuran	10.49	72	10886	9.97 ug/L #	59
34) 1,2-Dichloroethane	10.90	62	204621	13.74 ug/L	98
35) 1,1,1-Trichloroethane	11.03	97	231046	11.41 ug/L	95
36) (TAME) tert-Amyl methyl et	11.73	73	296827	11.98 ug/L	87
38) 1,1-Dichloropropene	11.26	75	233009	10.11 ug/L	99
39) Carbon Tetrachloride	11.51	117	198140	9.95 ug/L	98
0) Benzene	11.56	78	660248	10.13 ug/L #	89

M 9/19/11

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:19 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

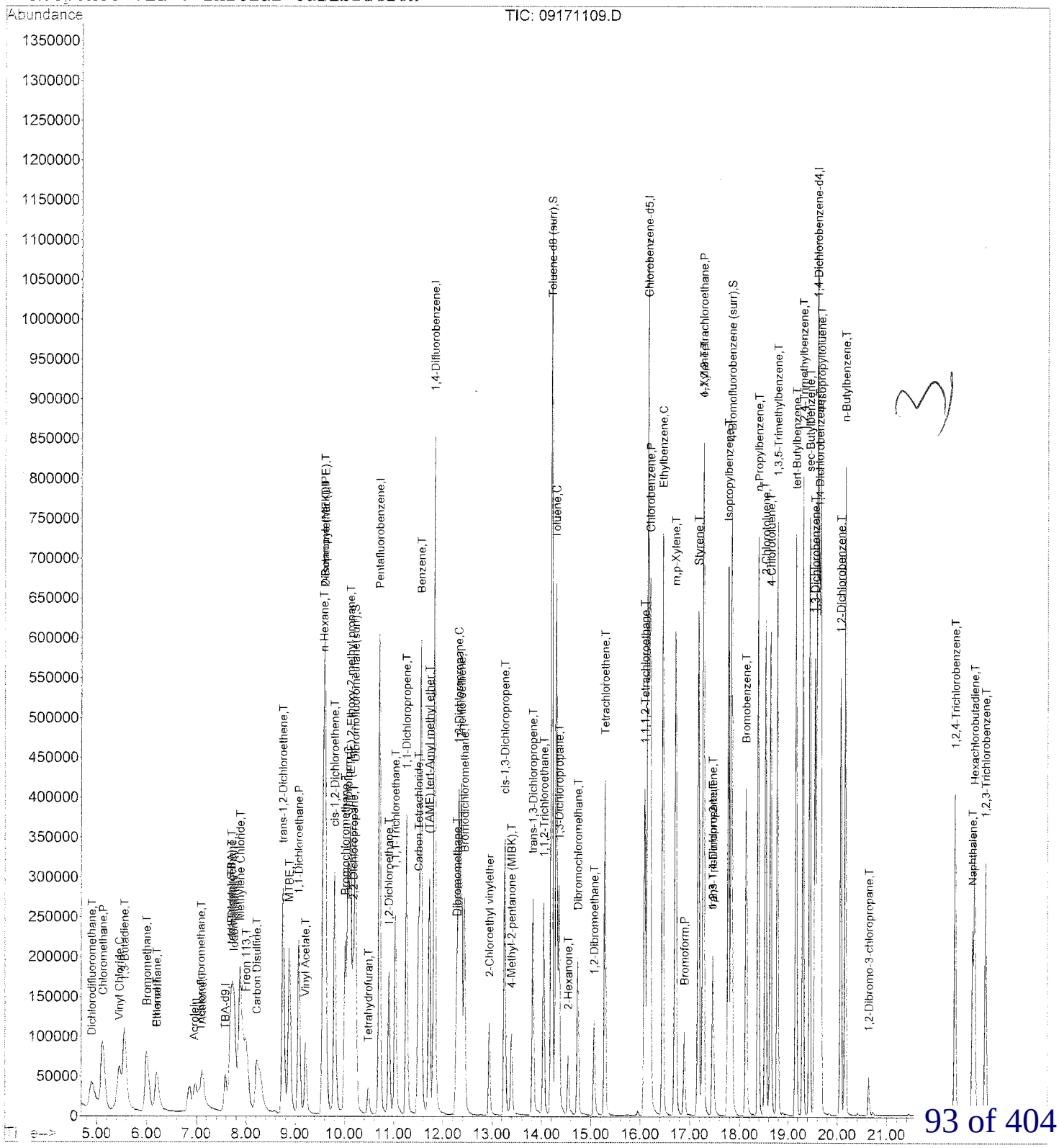
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	96042	10.87 ug/L		93
42)	1,2-Dichloropropane	12.32	63	188518	10.86 ug/L	#	87
43)	Trichloroethene	12.37	95	177529	10.15 ug/L		96
44)	Bromodichloromethane	12.43	83	227916	11.10 ug/L		99
45)	2-Chloroethyl vinylether	12.95	63	64166	10.48 ug/L		96
46)	cis-1,3-Dichloropropene	13.26	75	250097	10.90 ug/L	#	77
47)	4-Methyl-2-pentanone (MIBK	13.39	43	110470	15.23 ug/L	#	86
48)	trans-1,3-Dichloropropene	13.82	75	194092	11.14 ug/L	#	79
49)	1,1,2-Trichloroethane	14.04	97	112394	10.33 ug/L	#	90
51)	Toluene	14.30	92	375299	10.43 ug/L		98
53)	1,3-Dichloropropane	14.35	76	190639	10.08 ug/L		98
54)	2-Hexanone	14.54	43	81093	14.63 ug/L	#	81
55)	Dibromochloromethane	14.73	129	135057	10.07 ug/L		98
56)	1,2-Dibromoethane	15.07	107	113124	10.10 ug/L		100
57)	Tetrachloroethene	15.29	164	128230	9.21 ug/L		97
58)	1,1,1,2-Tetrachloroethane	16.09	131	147905	9.76 ug/L		96
59)	Chlorobenzene	16.20	112	447030	10.47 ug/L		98
60)	Ethylbenzene	16.45	91	711163	10.72 ug/L		99
61)	m,p-Xylene	16.71	106	277979	10.50 ug/L		99
62)	Styrene	17.18	104	417160	11.25 ug/L	#	97
63)	o-Xylene	17.27	106	265103	10.99 ug/L		97
66)	Bromoform	16.90	173	67759	8.38 ug/L		99
67)	1,1,2,2-Tetrachloroethane	17.26	83	111015	11.14 ug/L		99
68)	1,2,3-Trichloropropane	17.46	110	29913	11.16 ug/L		99
69)	trans-1,4-Dichloro-2-buten	17.47	53	27266	12.84 ug/L		79
70)	Isopropylbenzene	17.77	105	607802	11.36 ug/L		98
71)	Bromobenzene	18.14	156	156663	10.09 ug/L		89
72)	n-Propylbenzene	18.38	91	774527	11.18 ug/L		100
73)	2-Chlorotoluene	18.53	91	472219	11.20 ug/L		96
74)	4-Chlorotoluene	18.64	91	478895	11.35 ug/L		95
75)	1,3,5-Trimethylbenzene	18.78	105	525542	11.43 ug/L		99
76)	tert-Butylbenzene	19.16	119	438721	11.44 ug/L		99
77)	1,2,4-Trimethylbenzene	19.30	105	543180	11.59 ug/L		99
78)	sec-Butylbenzene	19.44	105	670596	11.21 ug/L		97
79)	1,3-Dichlorobenzene	19.55	146	291107	10.28 ug/L		97
80)	1,4-Dichlorobenzene	19.63	146	288637	10.43 ug/L		97
81)	4-Isopropyltoluene	19.66	119	551992	11.50 ug/L		97
82)	1,2-Dichlorobenzene	20.07	146	259465	10.56 ug/L		98
83)	n-Butylbenzene	20.16	91	528017	11.09 ug/L		99
84)	1,2-Dibromo-3-chloropropan	20.63	75	13754	12.99 ug/L	#	72
85)	1,2,4-Trichlorobenzene	22.38	180	170097	10.76 ug/L		98
86)	Naphthalene	22.73	128	234553	11.62 ug/L		99
87)	Hexachlorobutadiene	22.77	225	98068	9.29 ug/L		98
88)	1,2,3-Trichlorobenzene	23.00	180	137462	10.95 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:19 2011 Quant Results File: 091611.RES

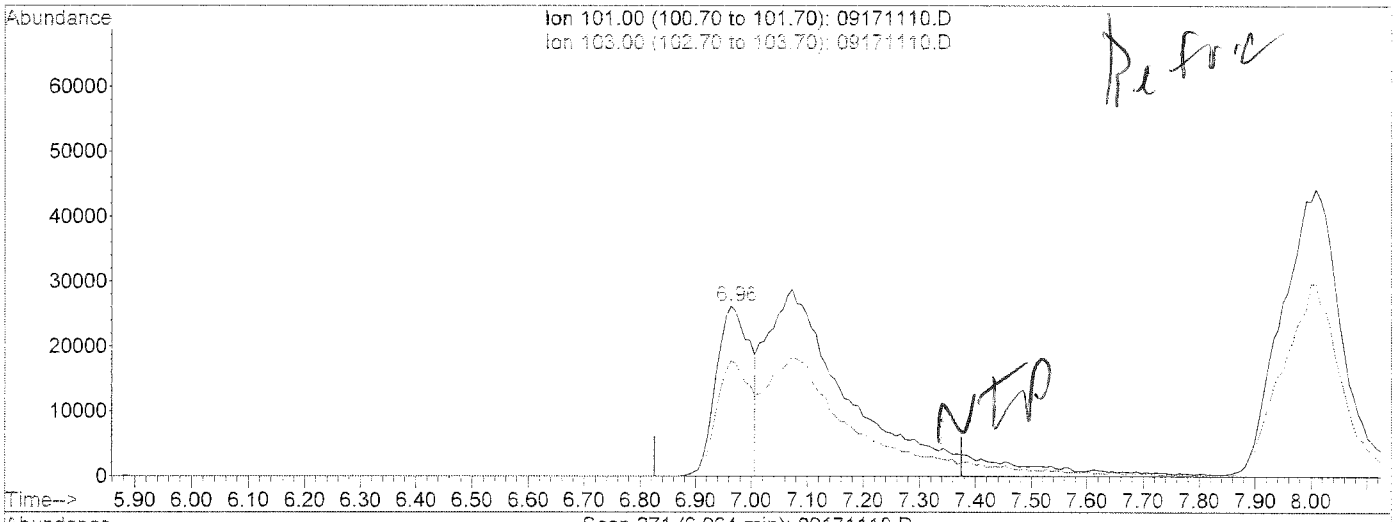
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

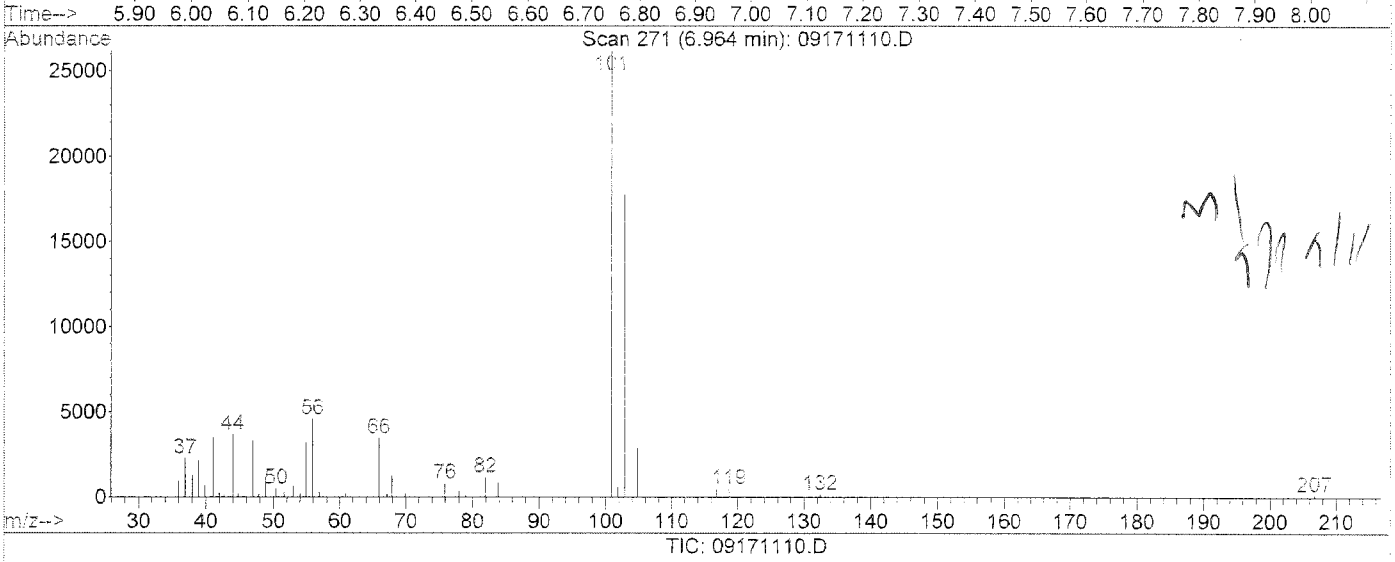


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:18 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

6.96min 7.00ug/L

response 110857

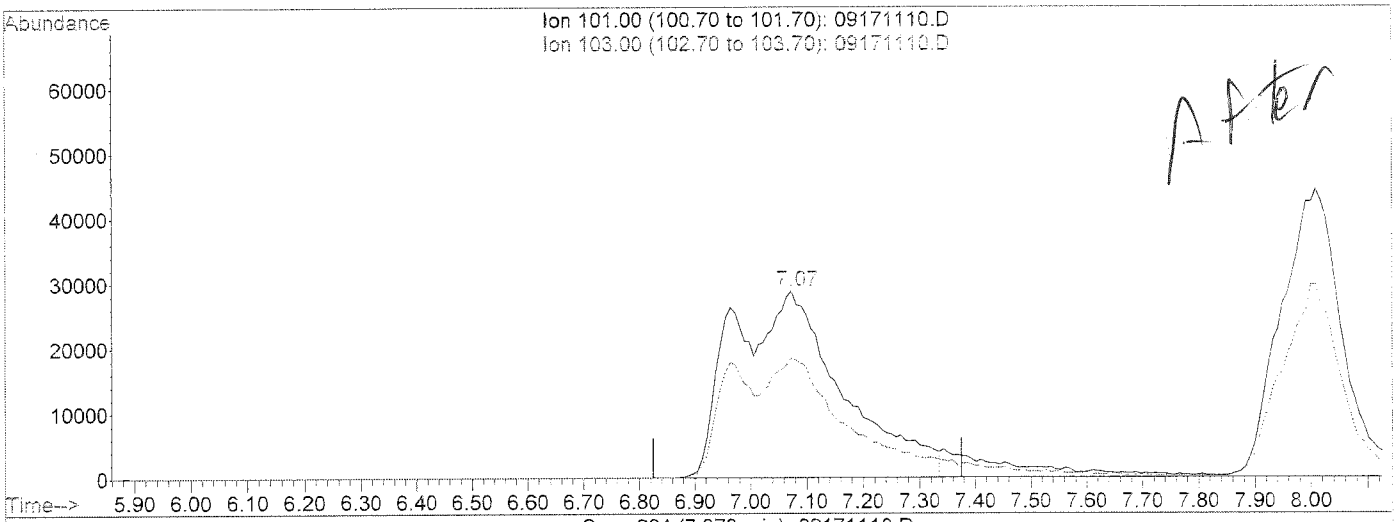
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	67.68
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

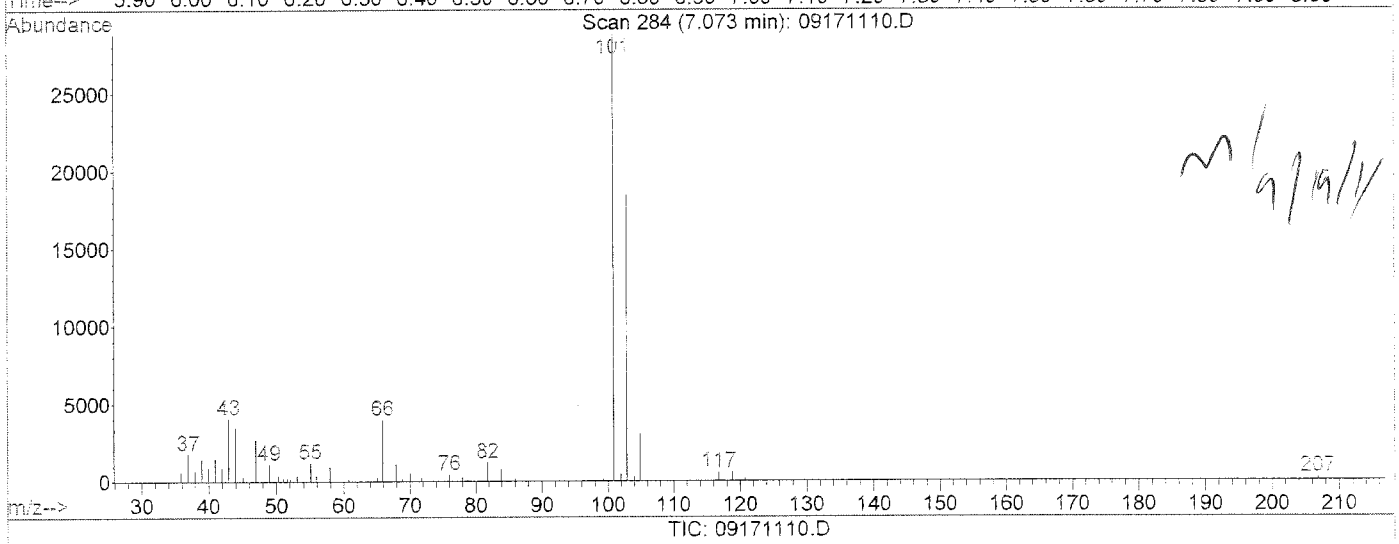
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:20 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration



After



TIC: 09171110.D

9/19/11

(12) Trichlorofluoromethane (T)

7.07min 24.54ug/L m

response 388679

Ion	Exp%	Act%
101.00	100	100
103.00	61.20	63.96
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

09171110.D 091611.M Mon Sep 19 07:20:53 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:20 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	110195	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	543057	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	902453	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	810477	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	344283	25.00 ug/L	-0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	310179	29.19 ug/L	0.00
Spiked Amount 25.000			Recovery =	116.76%	
50) Toluene-d8 (surr)	14.20	98	964765	28.29 ug/L	0.00
Spiked Amount 25.000			Recovery =	113.16%	
64) 4-Bromofluorobenzene (surr	17.84	95	371038	29.45 ug/L	0.00
Spiked Amount 25.000			Recovery =	117.80%	

MJ 9/19/11

Target Compounds					Qvalue
2) Ethanol	6.18	45	42920	434.40 ug/L #	69
3) tert-Butanol (TBA)	7.69	59	120303	117.17 ug/L	99
5) Dichlorodifluoromethane	4.88	85	463910	23.18 ug/L	99
6) Chloromethane	5.13	50	664170	26.68 ug/L	99
7) Vinyl Chloride	5.47	62	414183	27.19 ug/L	100
8) 1,3-Butadiene	5.56	54	280571	28.95 ug/L	90
9) Bromomethane	6.00	94	349455	26.09 ug/L	100
10) Chloroethane	6.19	64	282471	25.92 ug/L	95
11) Acrolein	6.95	56	27443	27.67 ug/L	99
12) Trichlorofluoromethane	7.07	101	388679m	24.54 ug/L	
13) Acetone	7.12	43	102188	22.24 ug/L	89
14) Acrylonitrile	7.75	53	80476	31.37 ug/L	97
15) Iodomethane	7.76	142	550581	25.36 ug/L	96
16) 1,1-Dichloroethene	7.71	96	333585	25.90 ug/L	99
17) Methylene Chloride	7.87	84	408905	24.90 ug/L	90
18) Freon 113	8.01	101	336093	26.18 ug/L	95
19) Carbon Disulfide	8.21	76	921091	23.90 ug/L #	94
20) trans-1,2-Dichloroethene	8.75	96	453417	25.79 ug/L	89
21) MTBE	8.88	73	755681	30.18 ug/L	95
22) 1,1-Dichloroethane	9.07	63	843752	29.09 ug/L	98
23) Vinyl Acetate	9.21	43	666770	42.36 ug/L #	92
24) n-Hexane	9.57	86	88875	25.13 ug/L #	70
25) 2-Butanone (MEK)	9.59	72	26051	24.26 ug/L #	1
26) Diisopropylether (DIPE)	9.60	45	1716639	35.74 ug/L #	96
27) cis-1,2-Dichloroethene	9.80	96	479860	26.19 ug/L	86
28) Bromochloromethane	10.01	128	208492	26.83 ug/L #	74
29) Chloroform	10.06	83	782029	27.45 ug/L #	94
30) 2,2-Dichloropropane	10.17	77	352408	28.45 ug/L #	75
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	1050610	33.60 ug/L	93
33) Tetrahydrofuran	10.48	72	26182	25.03 ug/L #	64
34) 1,2-Dichloroethane	10.90	62	484076	33.91 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	556651	28.70 ug/L	95
36) (TAME) tert-Amyl methyl et	11.73	73	737359	31.09 ug/L	89
38) 1,1-Dichloropropene	11.26	75	564784	25.31 ug/L	99
39) Carbon Tetrachloride	11.51	117	500248	25.96 ug/L	99
0) Benzene	11.56	78	1561465	24.74 ug/L #	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:20 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

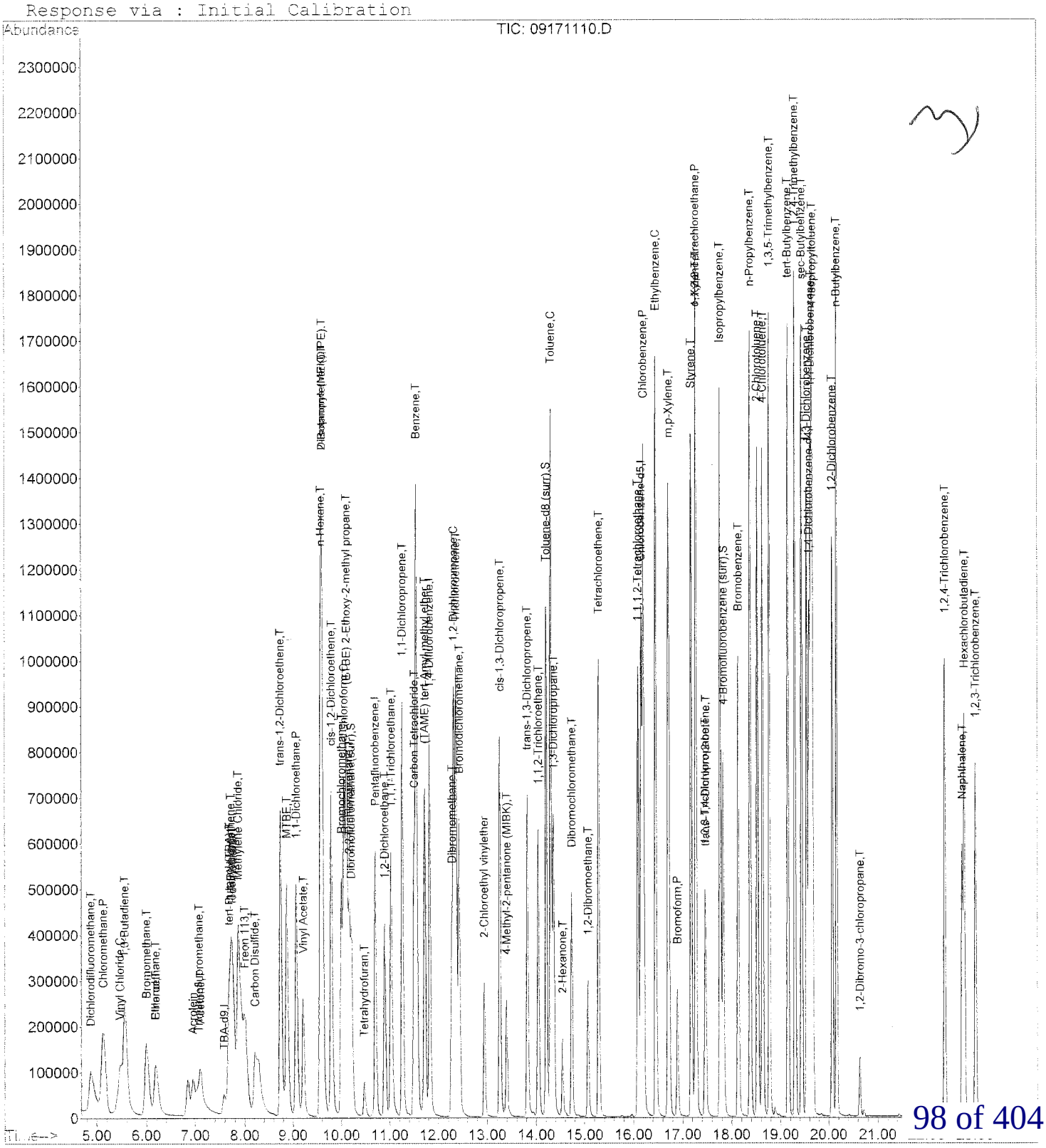
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	225070	26.32 ug/L	95
42)	1,2-Dichloropropane	12.32	63	435031	25.87 ug/L #	86
43)	Trichloroethene	12.37	95	423880	25.03 ug/L	95
44)	Bromodichloromethane	12.43	83	541329	27.23 ug/L	99
45)	2-Chloroethyl vinylether	12.94	63	159606	26.92 ug/L	94
46)	cis-1,3-Dichloropropene	13.26	75	604494	27.21 ug/L #	77
47)	4-Methyl-2-pentanone (MIBK	13.39	43	270061	38.46 ug/L	88
48)	trans-1,3-Dichloropropene	13.82	75	479331	28.42 ug/L #	79
49)	1,1,2-Trichloroethane	14.04	97	267947	25.44 ug/L #	91
51)	Toluene	14.30	92	881260	25.29 ug/L	99
53)	1,3-Dichloropropane	14.35	76	454165	24.31 ug/L	99
54)	2-Hexanone	14.54	43	171969	31.40 ug/L #	83
55)	Dibromochloromethane	14.73	129	341378	25.75 ug/L	99
56)	1,2-Dibromoethane	15.07	107	279268	25.23 ug/L	99
57)	Tetrachloroethene	15.29	164	307091	22.33 ug/L	96
58)	1,1,1,2-Tetrachloroethane	16.09	131	365562	24.42 ug/L	97
59)	Chlorobenzene	16.21	112	1057067	25.05 ug/L	100
60)	Ethylbenzene	16.46	91	1648716	25.14 ug/L	99
61)	m,p-Xylene	16.72	106	648203	24.77 ug/L	99
62)	Styrene	17.18	104	1000800	27.31 ug/L #	97
63)	o-Xylene	17.28	106	614056	25.75 ug/L	97
66)	Bromoform	16.90	173	171926	20.81 ug/L	97
67)	1,1,2,2-Tetrachloroethane	17.26	83	259874	26.63 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	72010	27.44 ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.48	53	71246	34.27 ug/L	83
70)	Isopropylbenzene	17.77	105	1422816	27.16 ug/L	99
71)	Bromobenzene	18.14	156	378551	24.91 ug/L	90
72)	n-Propylbenzene	18.38	91	1821080	26.86 ug/L	100
73)	2-Chlorotoluene	18.53	91	1120482	27.14 ug/L	97
74)	4-Chlorotoluene	18.64	91	1132077	27.42 ug/L	95
75)	1,3,5-Trimethylbenzene	18.78	105	1249127	27.75 ug/L	99
76)	tert-Butylbenzene	19.16	119	1043093	27.78 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	1268827	27.66 ug/L	99
78)	sec-Butylbenzene	19.44	105	1584746	27.05 ug/L	98
79)	1,3-Dichlorobenzene	19.55	146	700930	25.30 ug/L	98
80)	1,4-Dichlorobenzene	19.63	146	678253	25.04 ug/L	98
81)	4-Isopropyltoluene	19.66	119	1309540	27.87 ug/L	98
82)	1,2-Dichlorobenzene	20.07	146	622915	25.89 ug/L	98
83)	n-Butylbenzene	20.16	91	1258746	27.00 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.64	75	35255	34.01 ug/L #	77
85)	1,2,4-Trichlorobenzene	22.38	180	428290	27.68 ug/L	99
86)	Naphthalene	22.73	128	598335	30.28 ug/L	99
87)	Hexachlorobutadiene	22.77	225	245264	23.73 ug/L	99
88)	1,2,3-Trichlorobenzene	23.00	180	341638	27.79 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:20 2011 Quant Results File: 091611.RES

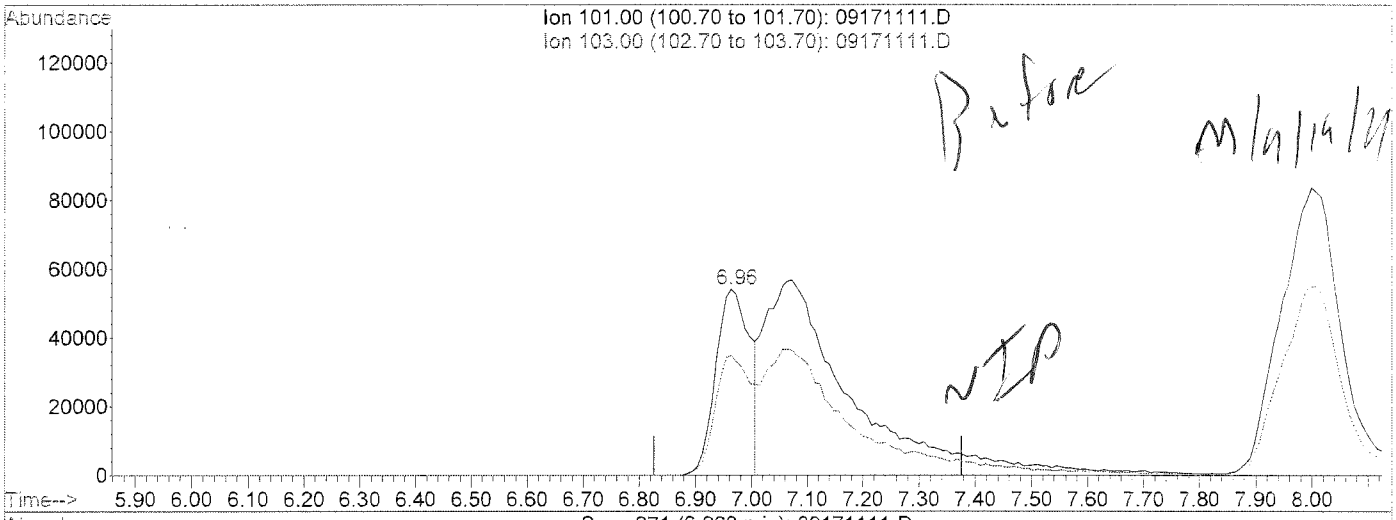
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

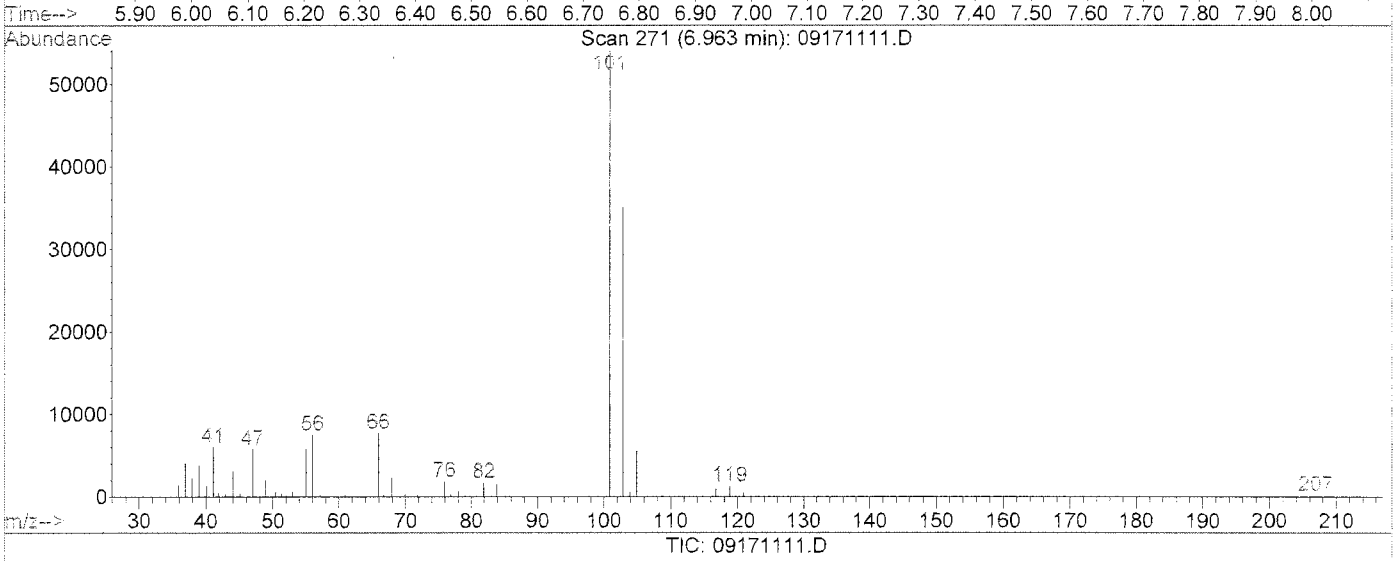


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:18 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

(12) Trichlorofluoromethane (T)

9/20/11 J

6.96min 14.63ug/L

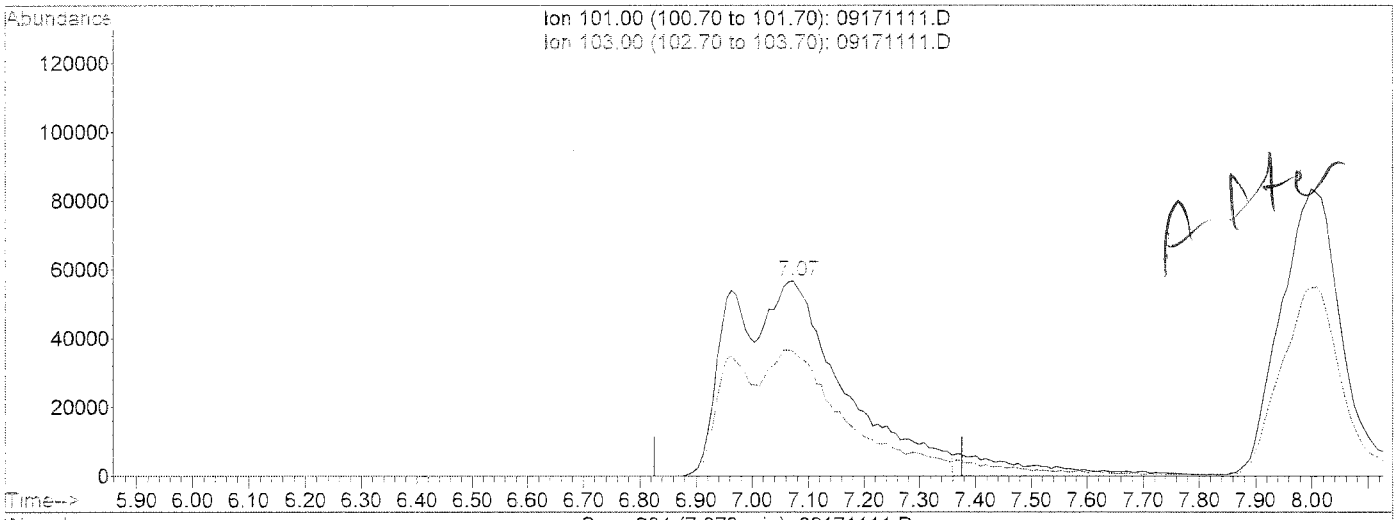
response 228085

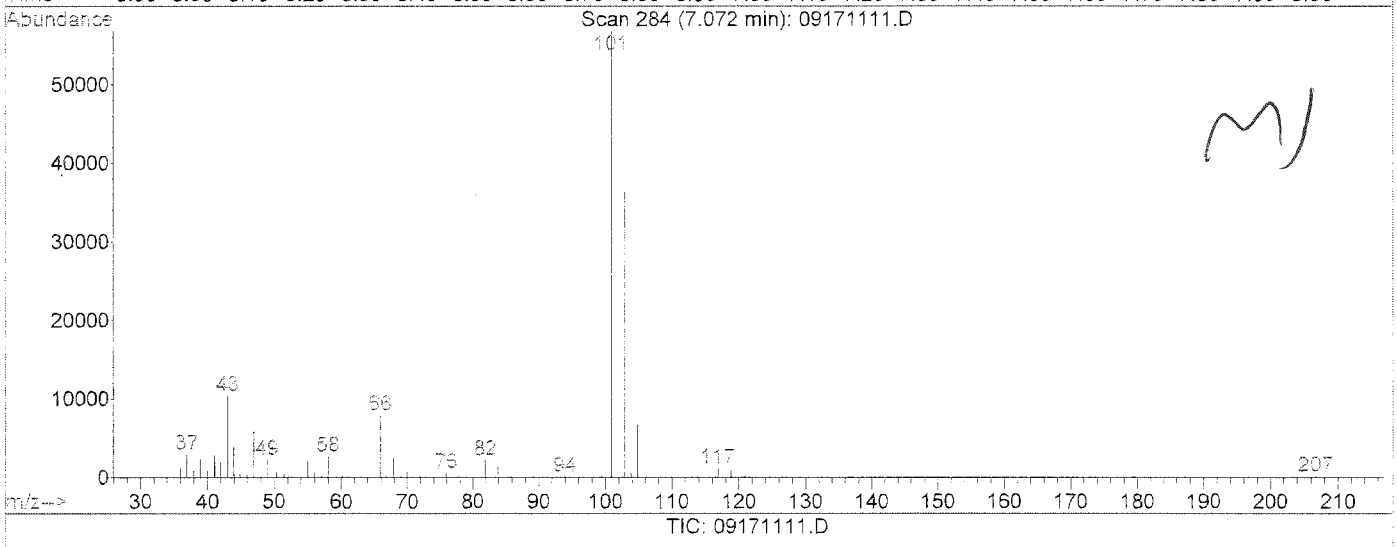
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	64.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:21 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

(12) Trichlorofluoromethane (T)

7.07min 50.79ug/L m

response 791788

Ion	Exp%	Act%
101.00	100	100
103.00	61.20	63.98
0.00	0.00	0.00
0.00	0.00	0.00

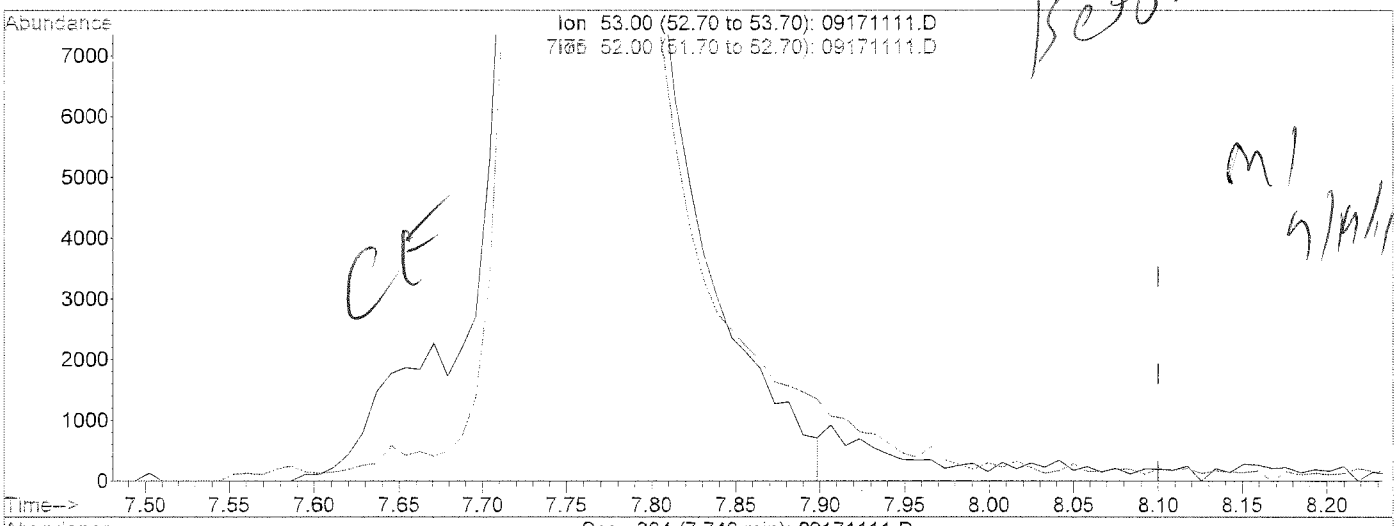
09171111.D 091611.M Mon Sep 19 07:21:42 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:21 2011 Quant Results File: temp.res

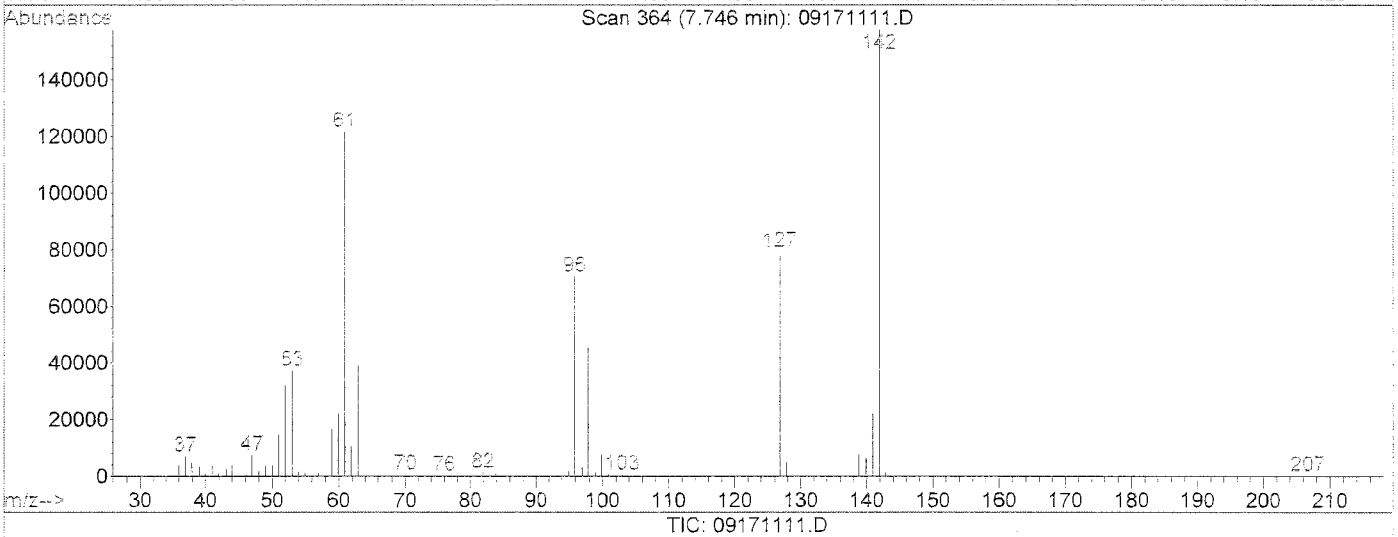
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration

Before



CF

M 9/20/11



TIC: 09171111.D

(14) Acrylonitrile

7.75min 65.02ug/L

response 164219

Ion	Exp%	Act%
53.00	100	100
52.00	92.90	81.69
0.00	0.00	0.00
0.00	0.00	0.00

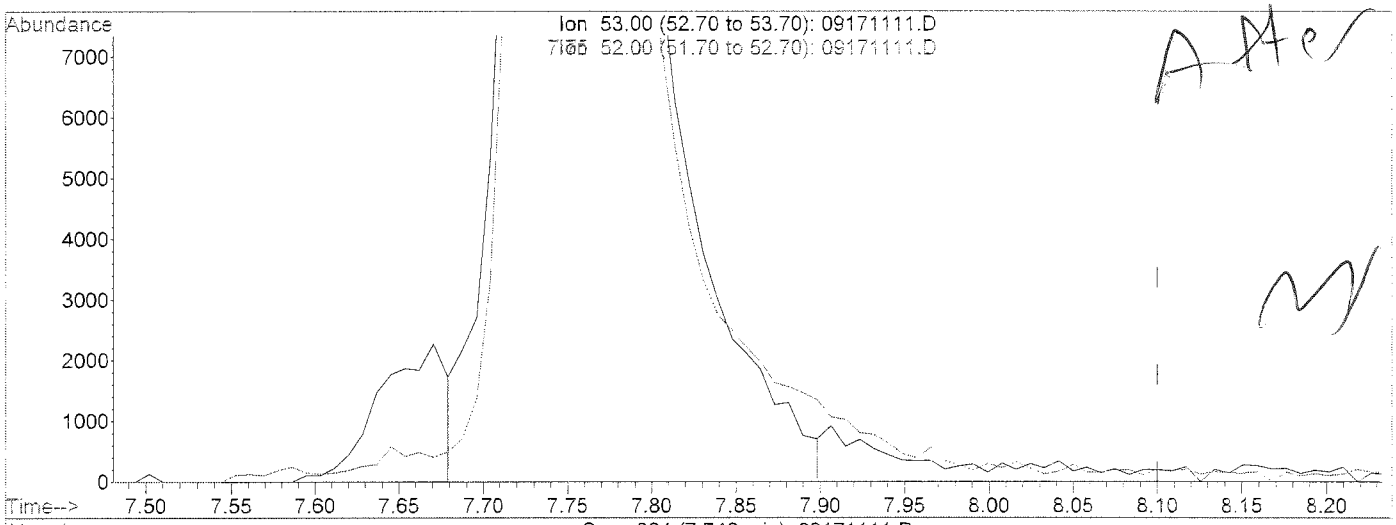
9/20/11

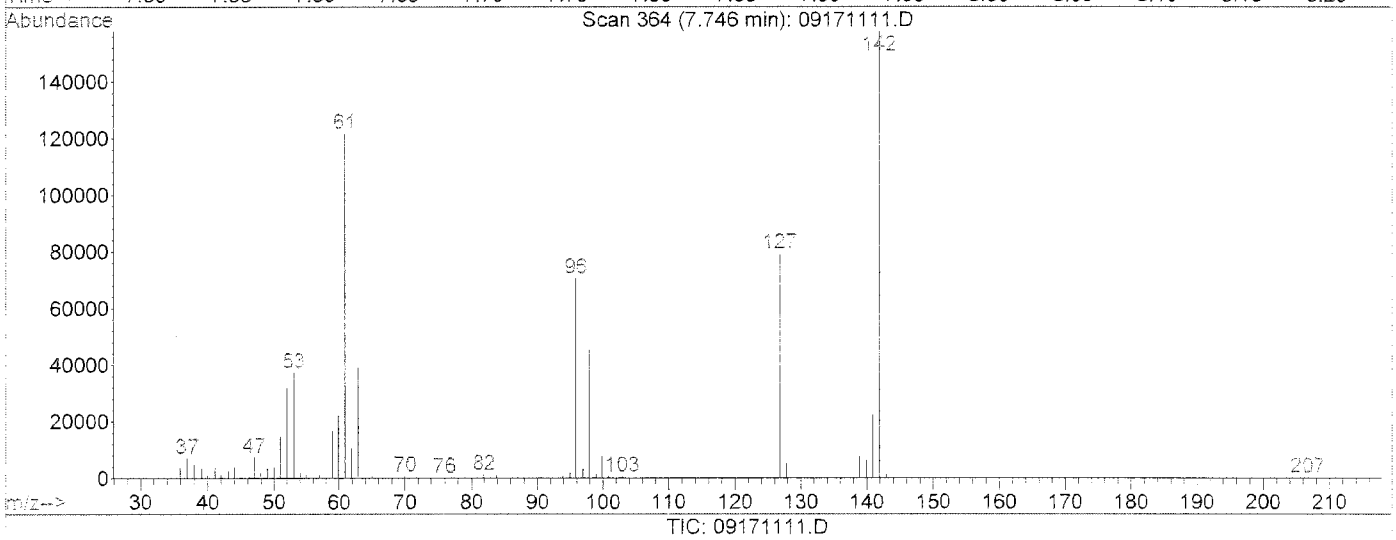
09171111.D 091611.M Mon Sep 19 07:22:55 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:23 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

(14) Acrylonitrile

7.75min 62.49ug/L m

response 157838

Ion	Exp%	Act%
53.00	100	100
52.00	92.90	84.99
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

09171111.D 091611.M Mon Sep 19 07:23:04 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:23 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	104385	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	534577	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	898739	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	810521	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	342057	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	305912	29.25 ug/L	0.00
Spiked Amount 25.000			Recovery	= 117.00%	
50) Toluene-d8 (surr)	14.20	98	942106	27.74 ug/L	0.00
Spiked Amount 25.000			Recovery	= 110.96%	
64) 4-Bromofluorobenzene (surr	17.83	95	362557	28.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 115.08%	

M/ 9/19/11

Target Compounds					Qvalue
2) Ethanol	6.18	45	67202	729.79 ug/L	100
3) tert-Butanol (TBA)	7.70	59	222133	228.39 ug/L	100
5) Dichlorodifluoromethane	4.88	85	915328	46.46 ug/L	98
6) Chloromethane	5.15	50	1232240	50.29 ug/L	100
7) Vinyl Chloride	5.48	62	717887	47.87 ug/L	99
8) 1,3-Butadiene	5.56	54	505122	52.94 ug/L	91
9) Bromomethane	6.01	94	681153	51.66 ug/L	100
10) Chloroethane	6.20	64	553684	51.62 ug/L	96
11) Acrolein	6.94	56	50174	51.40 ug/L	96
12) Trichlorofluoromethane	7.07	101	791788m	50.79 ug/L	
13) Acetone	7.11	43	242153	62.16 ug/L	89
14) Acrylonitrile	7.75	53	157838m	62.49 ug/L	
15) Iodomethane	7.77	142	1108463	51.88 ug/L	96
16) 1,1-Dichloroethene	7.71	96	647272	51.06 ug/L	100
17) Methylene Chloride	7.87	84	777904	48.12 ug/L	90
18) Freon 113	8.00	101	632338	50.04 ug/L	97
19) Carbon Disulfide	8.21	76	1959114	51.64 ug/L #	81
20) trans-1,2-Dichloroethene	8.74	96	889287	51.39 ug/L	88
21) MTBE	8.88	73	1482868	60.16 ug/L	95
22) 1,1-Dichloroethane	9.07	63	1637647	57.36 ug/L	99
23) Vinyl Acetate	9.21	43	1271036	82.03 ug/L #	93
24) n-Hexane	9.57	86	160006	45.96 ug/L #	69
25) 2-Butanone (MEK)	9.60	72	55463	52.46 ug/L #	32
26) Diisopropylether (DIPE)	9.61	45	3185068	67.37 ug/L #	97
27) cis-1,2-Dichloroethene	9.79	96	929335	51.53 ug/L	86
28) Bromochloromethane	10.01	128	407677	53.30 ug/L #	76
29) Chloroform	10.06	83	1481928	52.85 ug/L #	94
30) 2,2-Dichloropropane	10.17	77	729222	59.81 ug/L #	75
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	2078048	67.52 ug/L	94
33) Tetrahydrofuran	10.48	72	48142	46.76 ug/L #	63
34) 1,2-Dichloroethane	10.90	62	942504	67.07 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	1093500	57.27 ug/L	95
36) (TAME) tert-Amyl methyl et	11.72	73	1507020	64.58 ug/L	89
38) 1,1-Dichloropropene	11.26	75	1086208	48.87 ug/L	99
39) Carbon Tetrachloride	11.51	117	992306	51.71 ug/L	99
0) Benzene	11.56	78	2969142	47.24 ug/L #	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:23 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

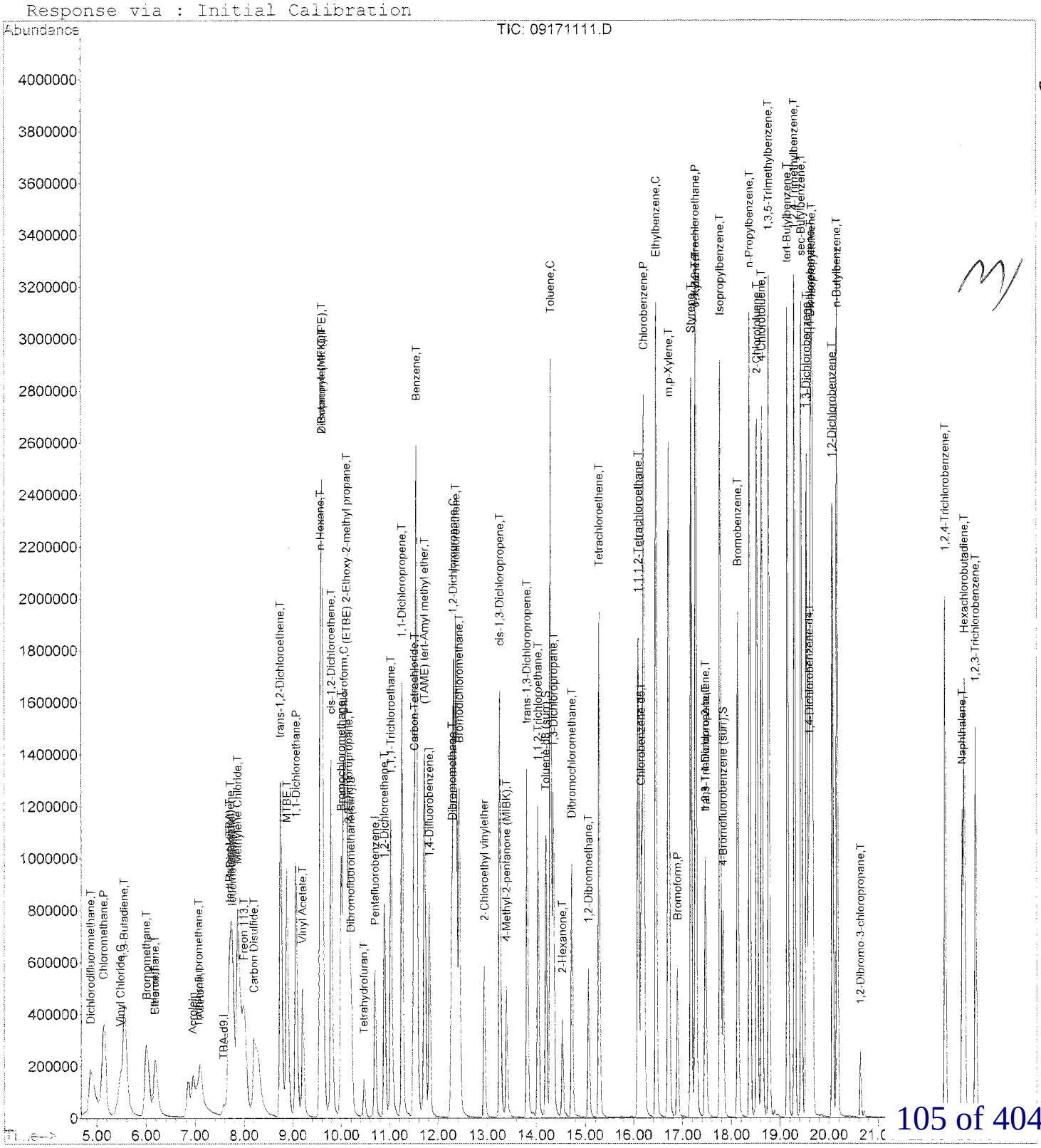
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.28	93	436745	51.29 ug/L		97
42)	1,2-Dichloropropane	12.31	63	830877	49.62 ug/L	#	87
43)	Trichloroethene	12.36	95	818494	48.54 ug/L		97
44)	Bromodichloromethane	12.43	83	1077643	54.44 ug/L		99
45)	2-Chloroethyl vinylether	12.95	63	318650	53.96 ug/L		97
46)	cis-1,3-Dichloropropene	13.26	75	1187874	53.68 ug/L	#	79
47)	4-Methyl-2-pentanone (MIBK	13.39	43	527939	75.50 ug/L		88
48)	trans-1,3-Dichloropropene	13.82	75	952429	56.69 ug/L	#	80
49)	1,1,2-Trichloroethane	14.04	97	520389	49.62 ug/L	#	91
51)	Toluene	14.30	92	1676692	48.32 ug/L		98
53)	1,3-Dichloropropane	14.36	76	884225	47.32 ug/L		100
54)	2-Hexanone	14.54	43	380328	69.43 ug/L	#	83
55)	Dibromochloromethane	14.73	129	692445	52.22 ug/L		100
56)	1,2-Dibromoethane	15.07	107	555178	50.16 ug/L		98
57)	Tetrachloroethene	15.29	164	600148	43.63 ug/L		96
58)	1,1,1,2-Tetrachloroethane	16.10	131	717689	47.94 ug/L		97
59)	Chlorobenzene	16.21	112	2058568	48.78 ug/L		99
60)	Ethylbenzene	16.46	91	3075129	46.88 ug/L		98
61)	m,p-Xylene	16.72	106	1251765	47.82 ug/L		98
62)	Styrene	17.18	104	1925679	52.54 ug/L		97
63)	o-Xylene	17.28	106	1169626	49.04 ug/L		94
66)	Bromoform	16.90	173	360620	43.30 ug/L		97
67)	1,1,2,2-Tetrachloroethane	17.26	83	477027	49.20 ug/L		100
68)	1,2,3-Trichloropropane	17.46	110	143658	55.10 ug/L		99
69)	trans-1,4-Dichloro-2-buten	17.48	53	146614	70.99 ug/L		86
70)	Isopropylbenzene	17.78	105	2692193	51.73 ug/L		100
71)	Bromobenzene	18.14	156	734183	48.63 ug/L		91
72)	n-Propylbenzene	18.38	91	3337916	49.56 ug/L		97
73)	2-Chlorotoluene	18.53	91	2094941	51.08 ug/L		99
74)	4-Chlorotoluene	18.63	91	2100260	51.20 ug/L		97
75)	1,3,5-Trimethylbenzene	18.78	105	2339436	52.32 ug/L		97
76)	tert-Butylbenzene	19.16	119	1973465	52.90 ug/L		99
77)	1,2,4-Trimethylbenzene	19.30	105	2337034	51.29 ug/L		98
78)	sec-Butylbenzene	19.44	105	2861335	49.17 ug/L		99
79)	1,3-Dichlorobenzene	19.55	146	1334102	48.46 ug/L		99
80)	1,4-Dichlorobenzene	19.64	146	1299858	48.31 ug/L		98
81)	4-Isopropyltoluene	19.66	119	2399979	51.41 ug/L		98
82)	1,2-Dichlorobenzene	20.08	146	1198983	50.17 ug/L		98
83)	n-Butylbenzene	20.17	91	2313406	49.95 ug/L		99
84)	1,2-Dibromo-3-chloropropan	20.64	75	71674	69.59 ug/L	#	79
85)	1,2,4-Trichlorobenzene	22.38	180	868760	56.51 ug/L		99
86)	Naphthalene	22.73	128	1213601	61.82 ug/L		100
87)	Hexachlorobutadiene	22.77	225	497857	48.48 ug/L		98
88)	1,2,3-Trichlorobenzene	23.01	180	692741	56.72 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:23 2011 Quant Results File: 091611.RES

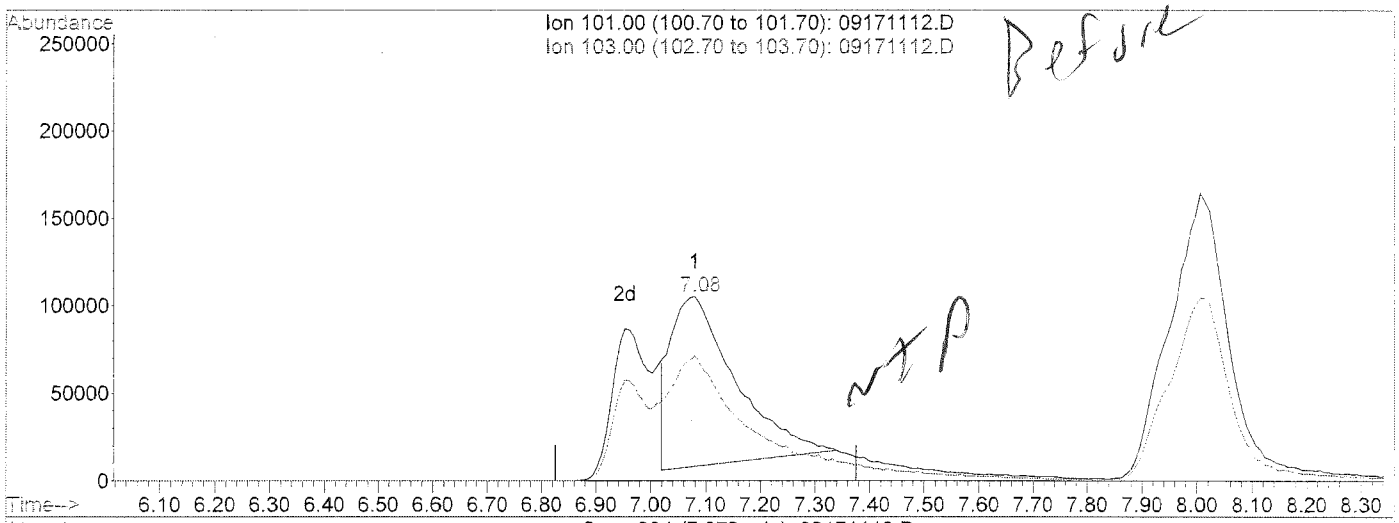
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration

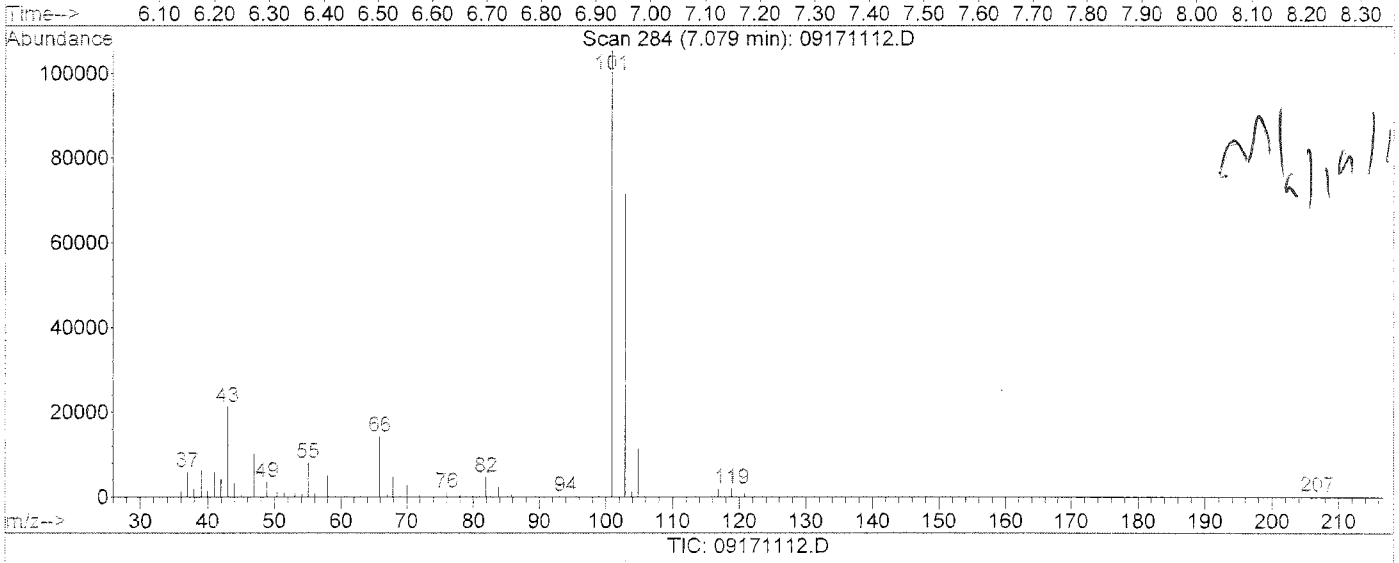


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:22 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171112.D

(12) Trichlorofluoromethane (T)

7.08min 50.69ug/L

response 799407

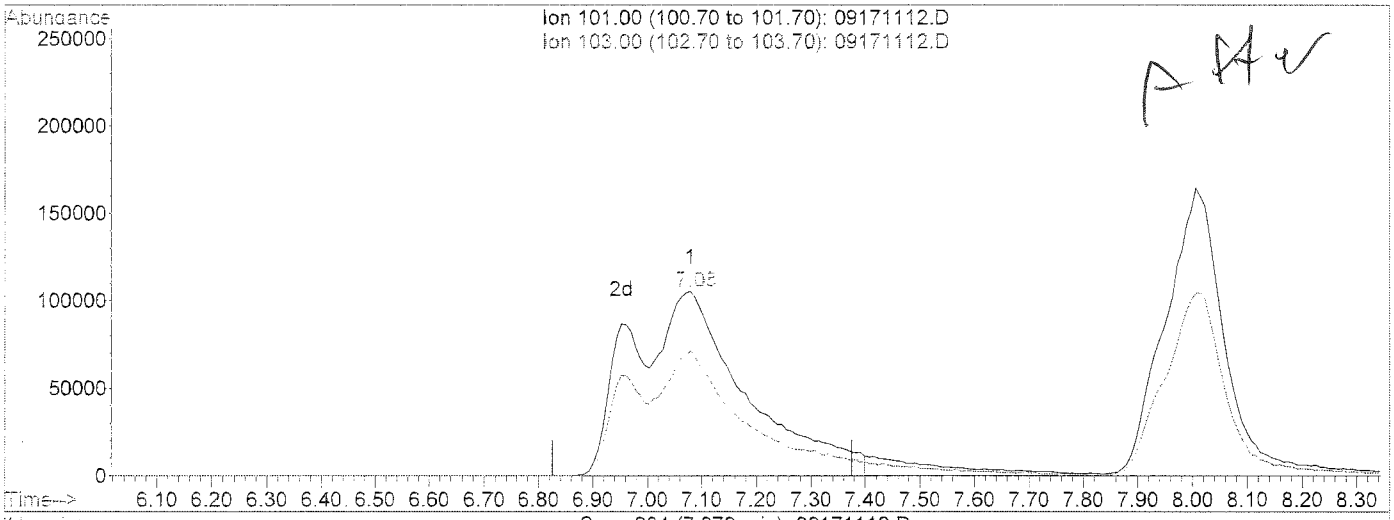
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	68.50
0.00	0.00	0.00
0.00	0.00	0.00

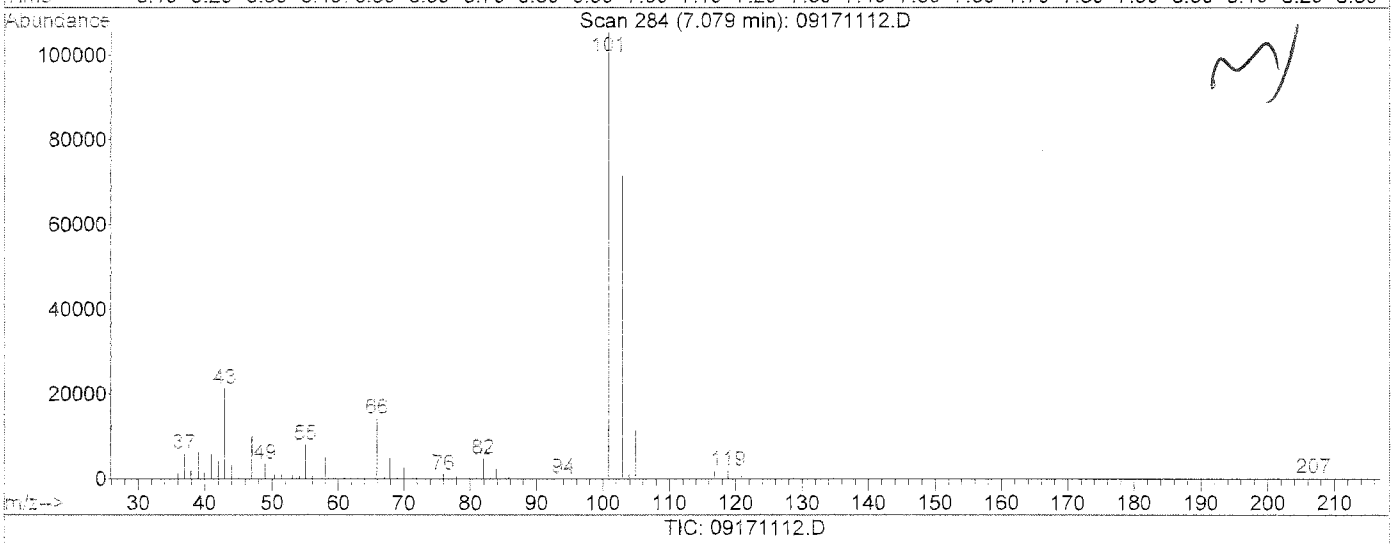
09171112.D 091611.M Mon Sep 19 07:23:52 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:23 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171112.D

(12) Trichlorofluoromethane (T)

7.08min 96.89ug/L m

response 1527892

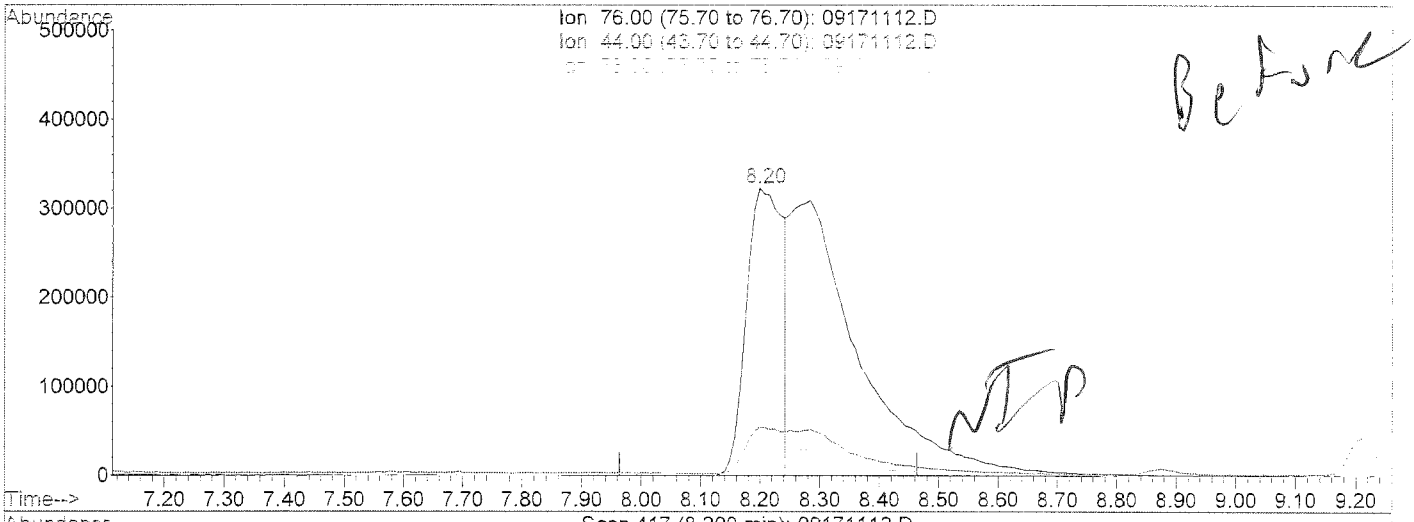
Ion	Exp%	Act%
101.00	100	100
103.00	61.20	67.76
0.00	0.00	0.00
0.00	0.00	0.00

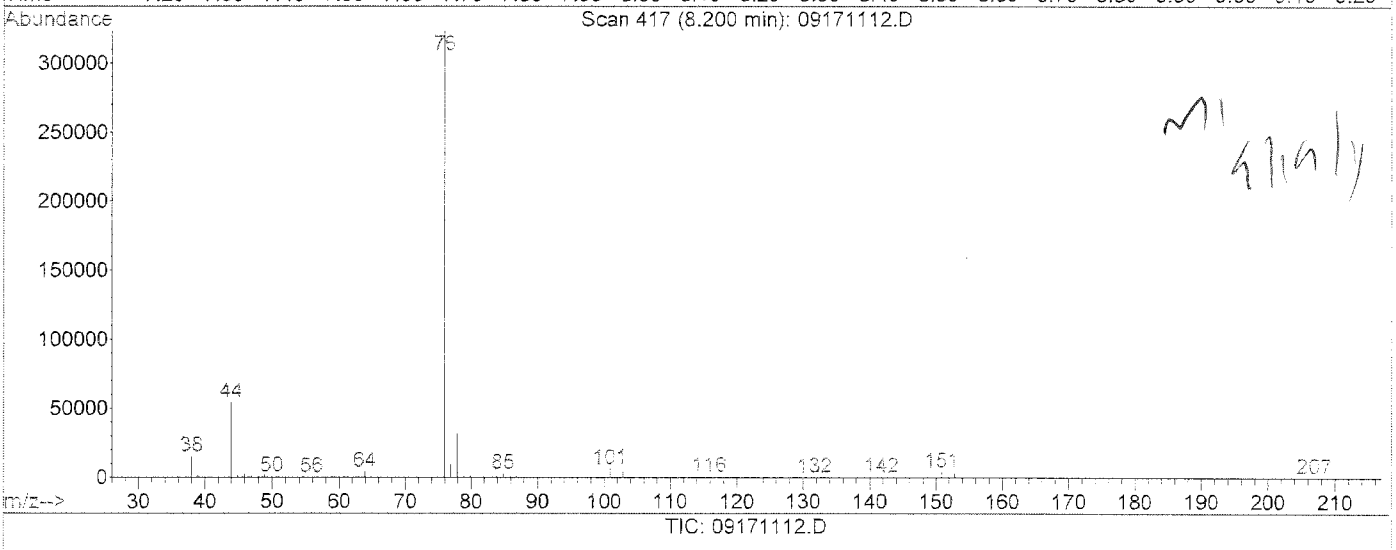
09171112.D 091611.M Mon Sep 19 07:24:01 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:23 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





TIC: 09171112.D

(19) Carbon Disulfide (T)

8.20min 35.85ug/L

response 1375951

Ion	Exp%	Act%
76.00	100	100
44.00	4.30	16.49#
78.00	5.10	9.20#
0.00	0.00	0.00

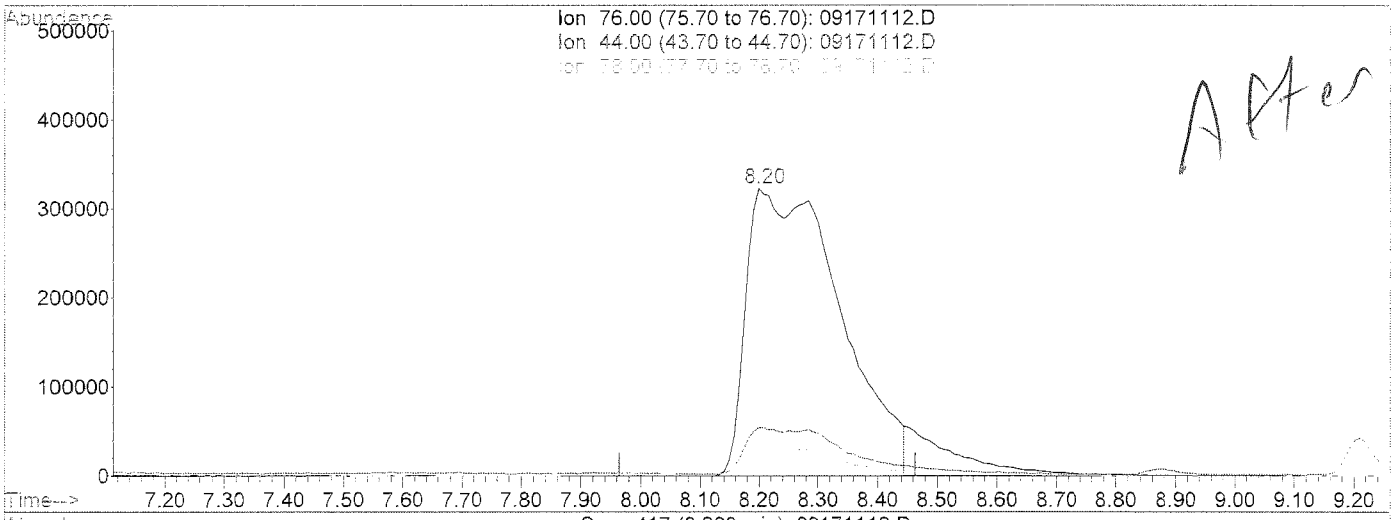
9/20/11

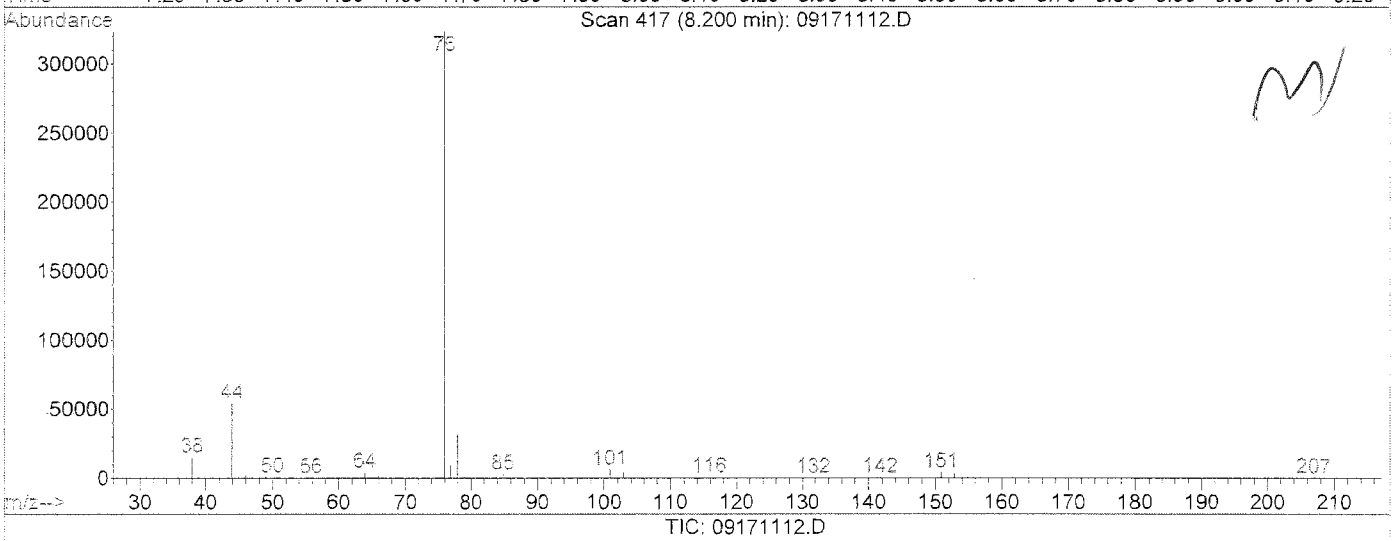
09171112.D 091611.M Mon Sep 19 07:24:09 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:24 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.20min 92.95ug/L m

response 3566887

Ion	Exp%	Act%
76.00	100	100
44.00	4.30	6.36#
78.00	5.10	3.55#
0.00	0.00	0.00

✓ 9/20/11

09171112.D 091611.M Mon Sep 19 07:24:58 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:24 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	109410	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	540728	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	907065	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	820256	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	331928	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	310756	29.37 ug/L	0.00
Spiked Amount 25.000			Recovery	= 117.48%	
50) Toluene-d8 (surr)	14.21	98	955046	27.86 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.44%	
64) 4-Bromofluorobenzene (surr	17.84	95	362098	28.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.56%	

MI 9/19/11

Target Compounds					Qvalue
2) Ethanol	6.19	45	132167	1385.17 ug/L	99
3) tert-Butanol (TBA)	7.69	59	440547	432.15 ug/L	99
5) Dichlorodifluoromethane	4.88	85	1704535	85.53 ug/L	98
6) Chloromethane	5.16	50	2018075	81.42 ug/L	100
7) Vinyl Chloride	5.50	62	1025519	67.60 ug/L	100
8) 1,3-Butadiene	5.57	54	747806	77.49 ug/L	90
9) Bromomethane	6.03	94	1189371	89.18 ug/L	99
10) Chloroethane	6.19	64	980208	90.34 ug/L	96
11) Acrolein	6.94	56	106788	108.15 ug/L	98
12) Trichlorofluoromethane	7.08	101	1527892m	96.89 ug/L	
13) Acetone	7.11	43	306954	81.76 ug/L	90
14) Acrylonitrile	7.74	53	298557	116.86 ug/L	93
15) Iodomethane	7.78	142	2100778	97.20 ug/L	96
16) 1,1-Dichloroethene	7.71	96	1234301	96.25 ug/L	99
17) Methylene Chloride	7.87	84	1460411	89.32 ug/L	90
18) Freon 113	8.01	101	1219684	95.43 ug/L	99
19) Carbon Disulfide	8.20	76	3566887m	92.95 ug/L	
20) trans-1,2-Dichloroethene	8.75	96	1657135	94.67 ug/L	90
21) MTBE	8.88	73	2840599	113.93 ug/L	95
22) 1,1-Dichloroethane	9.07	63	3001923	103.96 ug/L	100
23) Vinyl Acetate	9.21	43	2621077	167.23 ug/L #	93
24) n-Hexane	9.56	86	297066	84.36 ug/L #	70
25) 2-Butanone (MEK)	9.61	72	92049	86.08 ug/L #	9
26) Diisopropylether (DIPE)	9.61	45	5693734	119.06 ug/L #	97
27) cis-1,2-Dichloroethene	9.79	96	1747064	95.77 ug/L	88
28) Bromochloromethane	10.00	128	777573	100.50 ug/L #	80
29) Chloroform	10.06	83	2712035	95.61 ug/L #	95
30) 2,2-Dichloropropane	10.17	77	1320693	107.09 ug/L #	75
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	3831835	123.09 ug/L	95
33) Tetrahydrofuran	10.48	72	94290	90.54 ug/L #	68
34) 1,2-Dichloroethane	10.90	62	1769971	124.53 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	2043651	105.81 ug/L	95
36) (TAME) tert-Amyl methyl et	11.72	73	2790435	118.25 ug/L	90
38) 1,1-Dichloropropene	11.26	75	2015017	89.83 ug/L	99
39) Carbon Tetrachloride	11.50	117	1889593	97.56 ug/L	99
0) Benzene	11.55	78	5301504	83.58 ug/L #	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:24 2011 Quant Results File: 091611.RES

Quant Method : C:\HPCHEM\1...\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

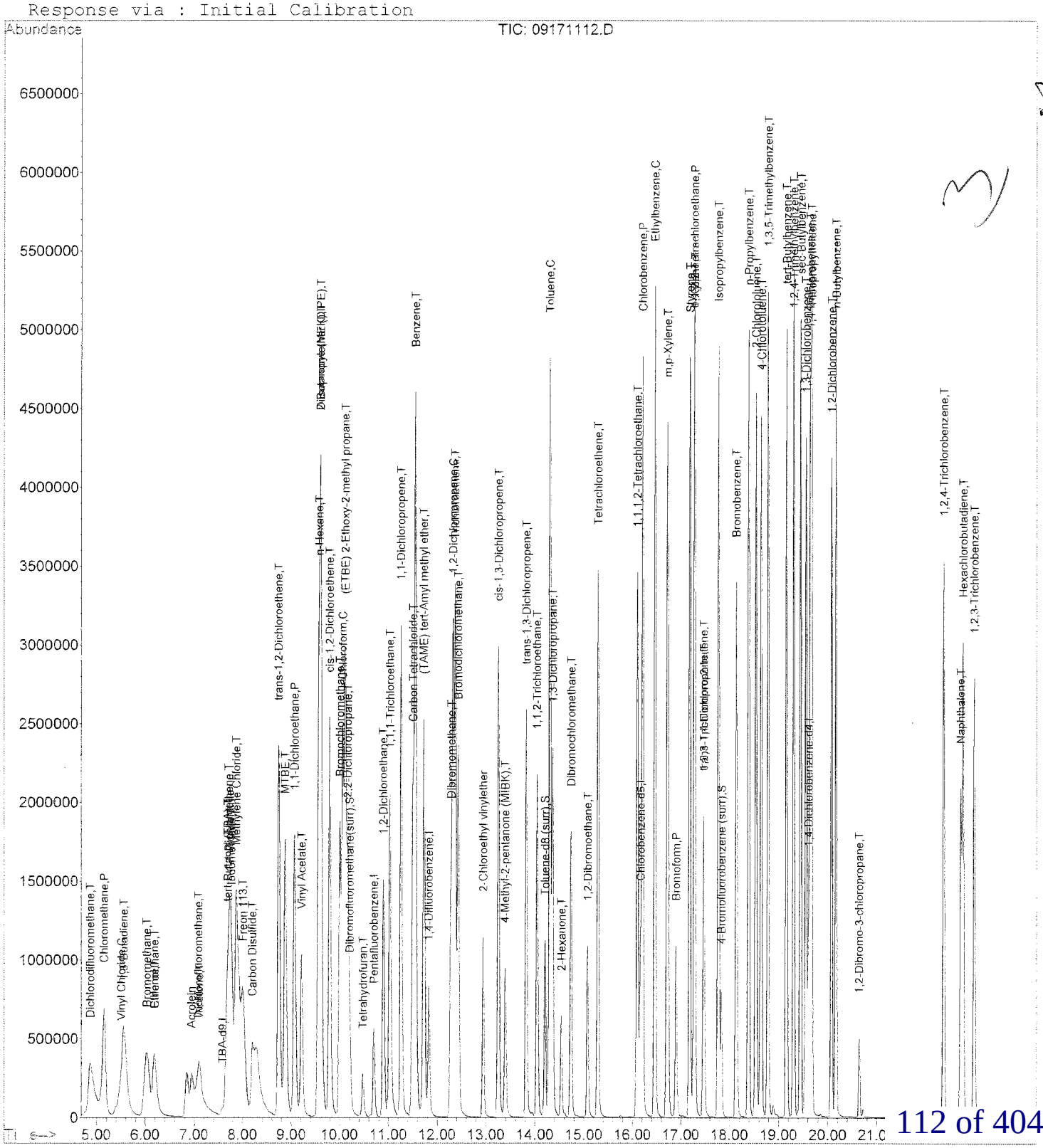
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.28	93	820026	95.41 ug/L		99
42)	1,2-Dichloropropane	12.32	63	1495672	88.50 ug/L	#	88
43)	Trichloroethene	12.36	95	1490797	87.60 ug/L		98
44)	Bromodichloromethane	12.43	83	1995572	99.89 ug/L		99
45)	2-Chloroethyl vinylether	12.94	63	619809	104.00 ug/L		98
46)	cis-1,3-Dichloropropene	13.26	75	2211503	99.02 ug/L	#	80
47)	4-Methyl-2-pentanone (MIBK	13.39	43	1016547	144.05 ug/L		89
48)	trans-1,3-Dichloropropene	13.82	75	1799818	106.15 ug/L	#	80
49)	1,1,2-Trichloroethane	14.04	97	988125	93.35 ug/L		93
51)	Toluene	14.30	92	2962840	84.61 ug/L		97
53)	1,3-Dichloropropane	14.36	76	1622477	85.80 ug/L		99
54)	2-Hexanone	14.54	43	664156	119.80 ug/L	#	84
55)	Dibromochloromethane	14.74	129	1347867	100.45 ug/L		100
56)	1,2-Dibromoethane	15.07	107	1062901	94.89 ug/L		100
57)	Tetrachloroethene	15.29	164	1115525	80.13 ug/L		97
58)	1,1,1,2-Tetrachloroethane	16.10	131	1369662	90.40 ug/L		98
59)	Chlorobenzene	16.21	112	3699477	86.62 ug/L		98
60)	Ethylbenzene	16.46	91	5291863	79.71 ug/L		96
61)	m,p-Xylene	16.72	106	2224325	83.97 ug/L		95
62)	Styrene	17.17	104	3412253	91.99 ug/L		98
63)	o-Xylene	17.28	106	1976634	81.89 ug/L		92
66)	Bromoform	16.91	173	725068	89.10 ug/L		98
67)	1,1,2,2-Tetrachloroethane	17.27	83	802202	85.27 ug/L		99
68)	1,2,3-Trichloropropane	17.47	110	274106	108.34 ug/L		99
69)	trans-1,4-Dichloro-2-buten	17.48	53	276804	138.12 ug/L		90
70)	Isopropylbenzene	17.77	105	4646534	92.01 ug/L		98
71)	Bromobenzene	18.14	156	1367413	93.33 ug/L		95
72)	n-Propylbenzene	18.39	91	5615508	85.91 ug/L		94
73)	2-Chlorotoluene	18.53	91	3584093	90.06 ug/L		98
74)	4-Chlorotoluene	18.64	91	3570312	89.69 ug/L		99
75)	1,3,5-Trimethylbenzene	18.78	105	3974748	91.60 ug/L		95
76)	tert-Butylbenzene	19.16	119	3388884	93.61 ug/L		98
77)	1,2,4-Trimethylbenzene	19.31	105	3998609	90.43 ug/L		96
78)	sec-Butylbenzene	19.45	105	4840359	85.71 ug/L		98
79)	1,3-Dichlorobenzene	19.55	146	2354278	88.13 ug/L		98
80)	1,4-Dichlorobenzene	19.64	146	2215104	84.83 ug/L		99
81)	4-Isopropyltoluene	19.67	119	4017609	88.68 ug/L		99
82)	1,2-Dichlorobenzene	20.07	146	2112928	91.10 ug/L		98
83)	n-Butylbenzene	20.17	91	3767643	83.83 ug/L		96
84)	1,2-Dibromo-3-chloropropan	20.64	75	137157	137.24 ug/L		81
85)	1,2,4-Trichlorobenzene	22.37	180	1603463	107.48 ug/L		98
86)	Naphthalene	22.73	128	2282786	119.83 ug/L		100
87)	Hexachlorobutadiene	22.78	225	934733	93.80 ug/L		100
88)	1,2,3-Trichlorobenzene	23.01	180	1316543	111.09 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 7:24 2011 Quant Results File: 091611.RES

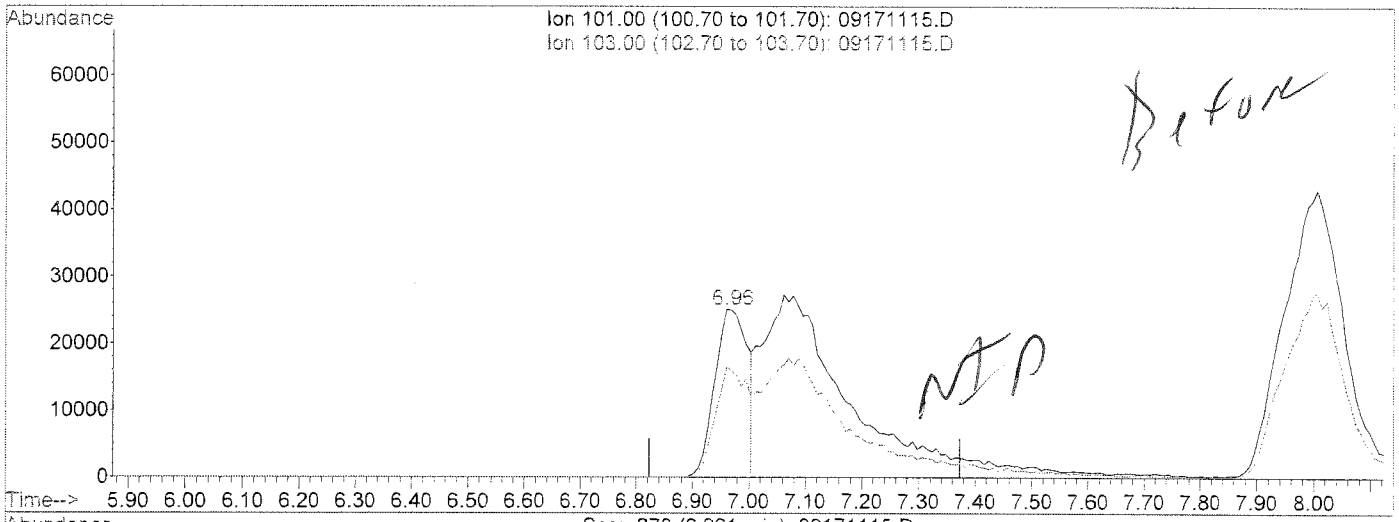
Method : C:\HPCHEM\1\GCMS9\METHODS\091611.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Fri Sep 16 15:54:54 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

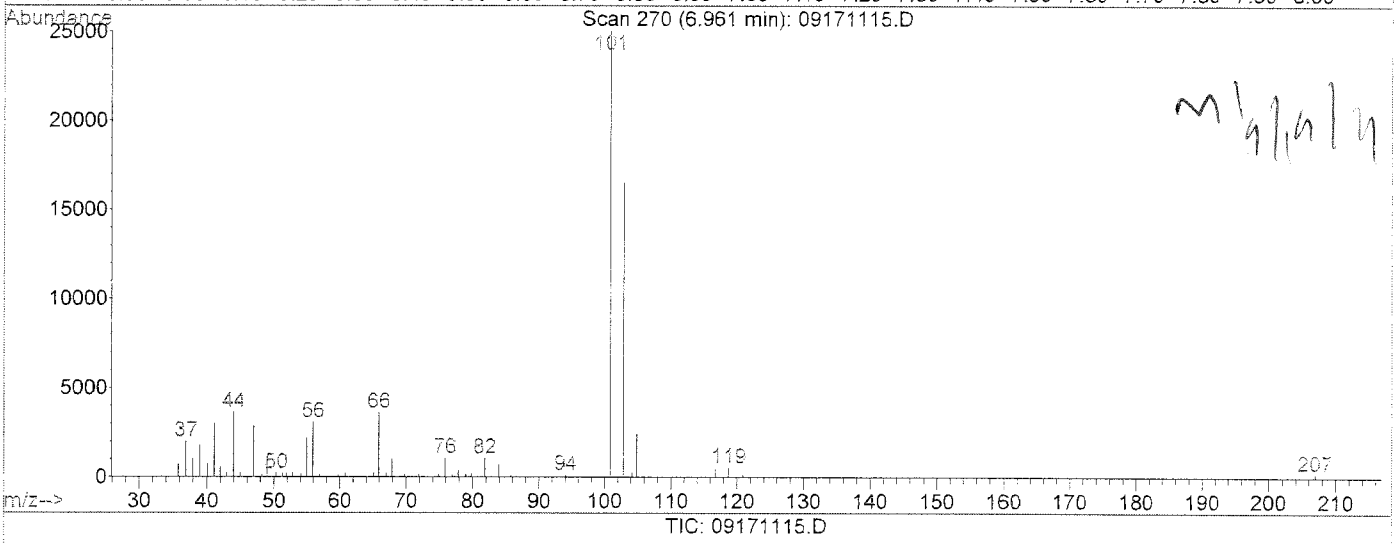
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:35 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



Before

NTP



M 9/19/11

(12) Trichlorofluoromethane (T)

6.96min 6.50ug/L

response 100373

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	65.86
0.00	0.00	0.00
0.00	0.00	0.00

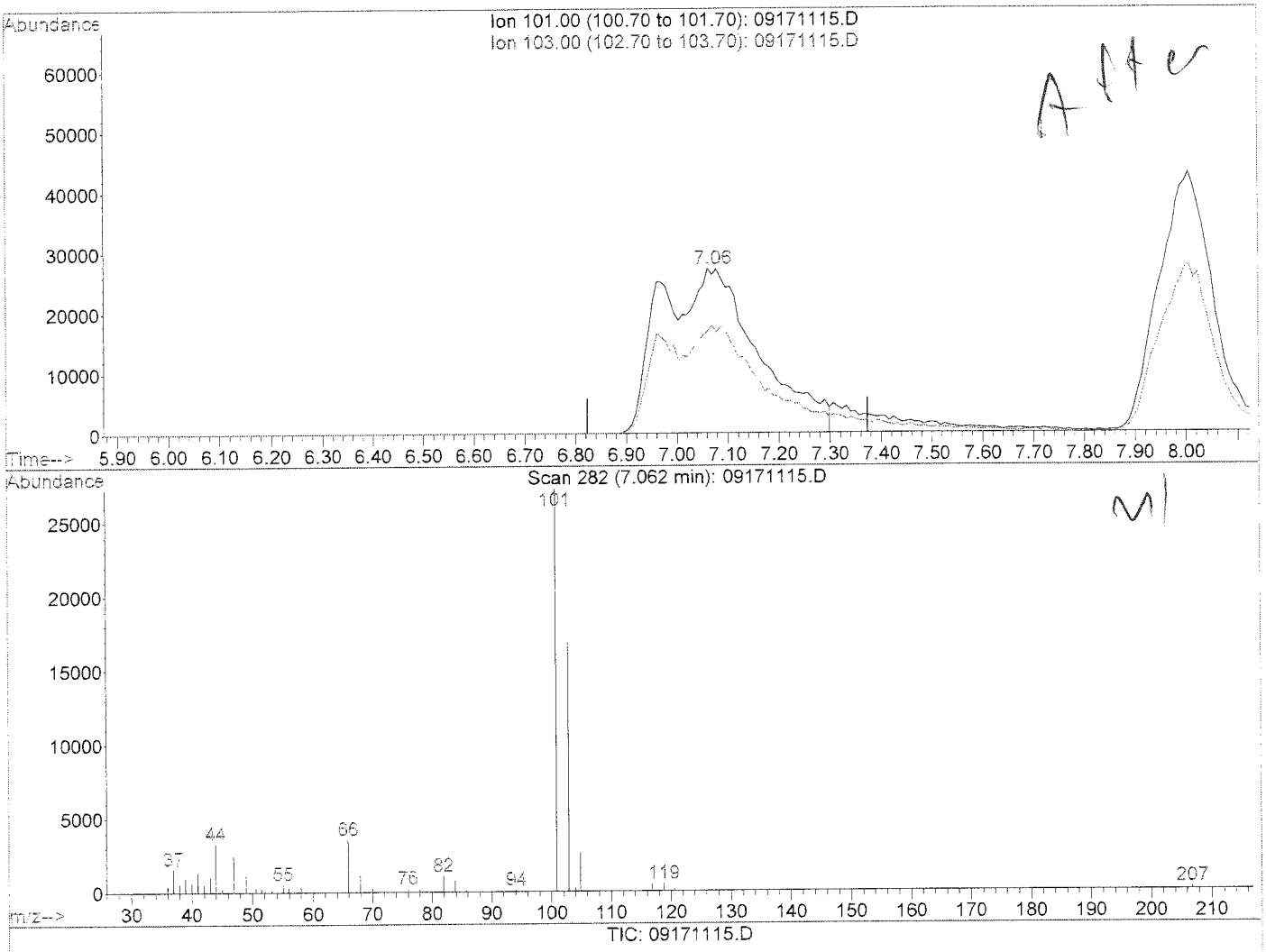
✓ 9/20/11

09171115.D 091711.M Mon Sep 19 13:39:09 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:39 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



TIC: 09171115.D

(12) Trichlorofluoromethane (T)

7.06min 23.35ug/L m

response 360338

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	61.81
0.00	0.00	0.00
0.00	0.00	0.00

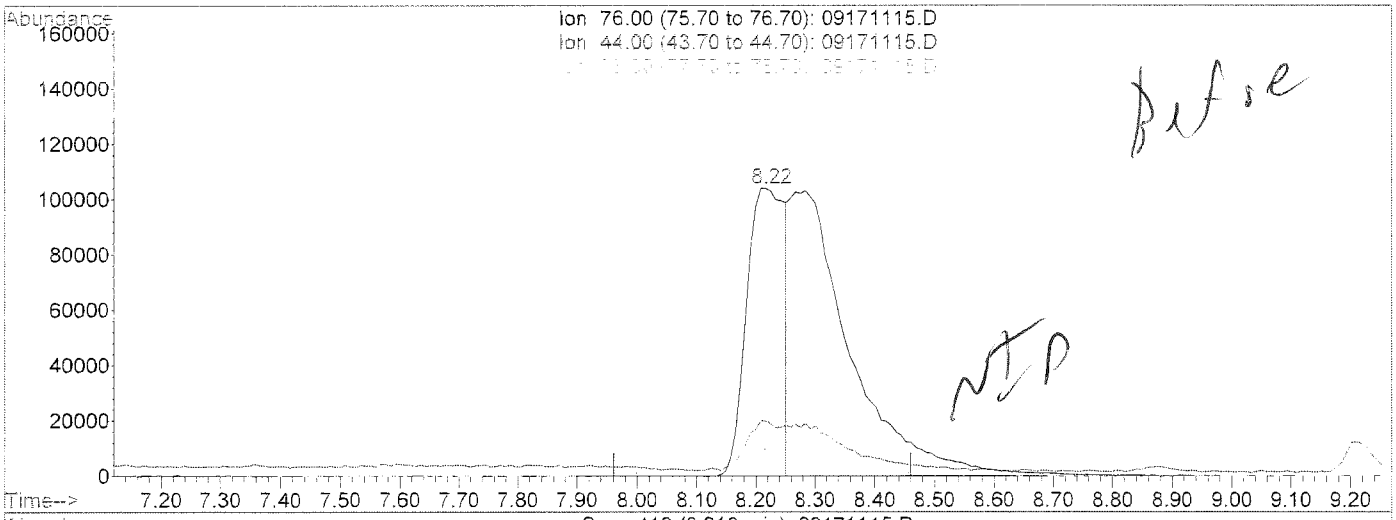
9/20/11

09171115.D 091711.M Mon Sep 19 13:39:20 2011

Quantitation Report (Qedit)

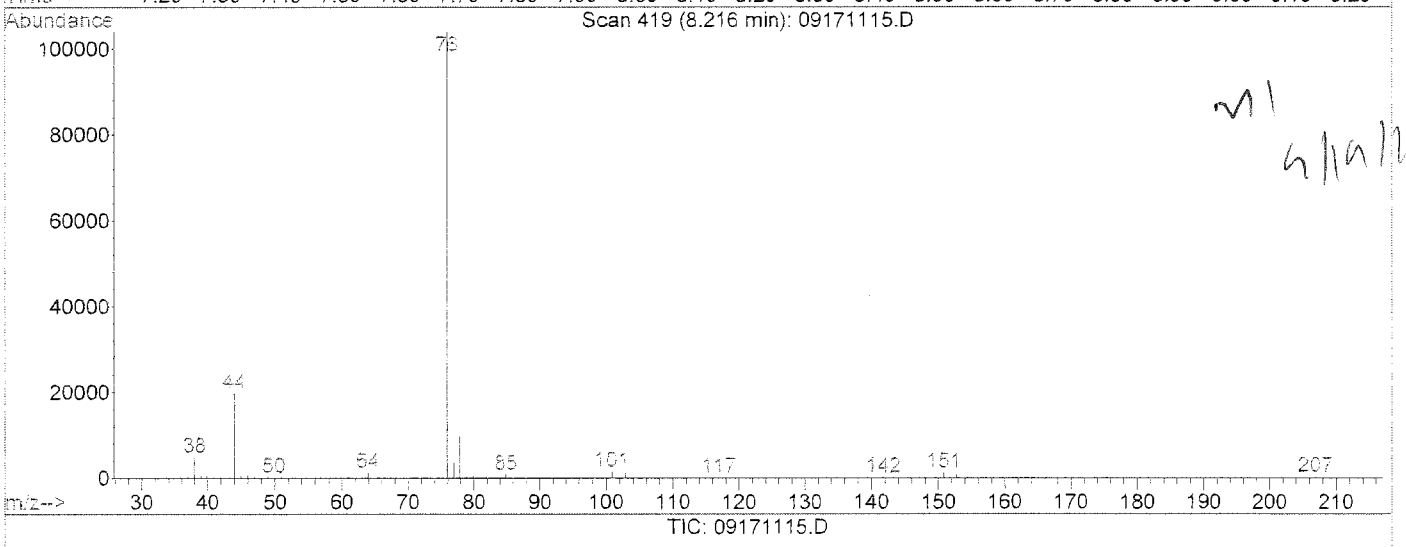
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:39 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



Before

NTP



TIC: 09171115.D

NI 9/19/11

(19) Carbon Disulfide (T)

8.22min 12.57ug/L

response 458467

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	14.88#
78.00	4.00	7.82#
0.00	0.00	0.00

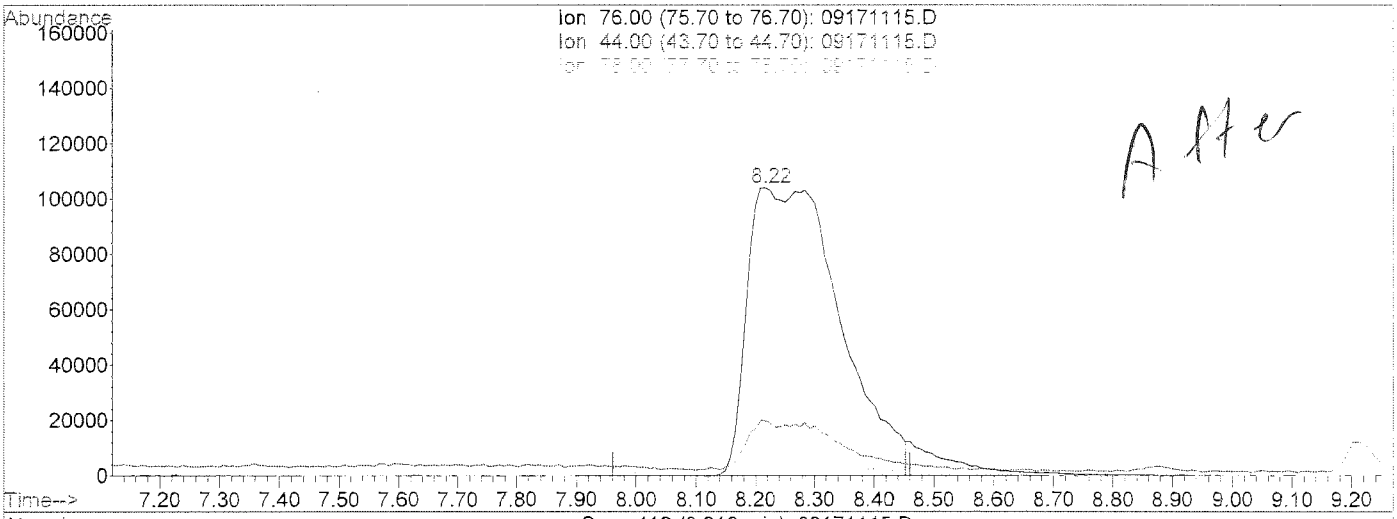
9/20/11 ✗

09171115.D 091711.M Mon Sep 19 13:39:24 2011

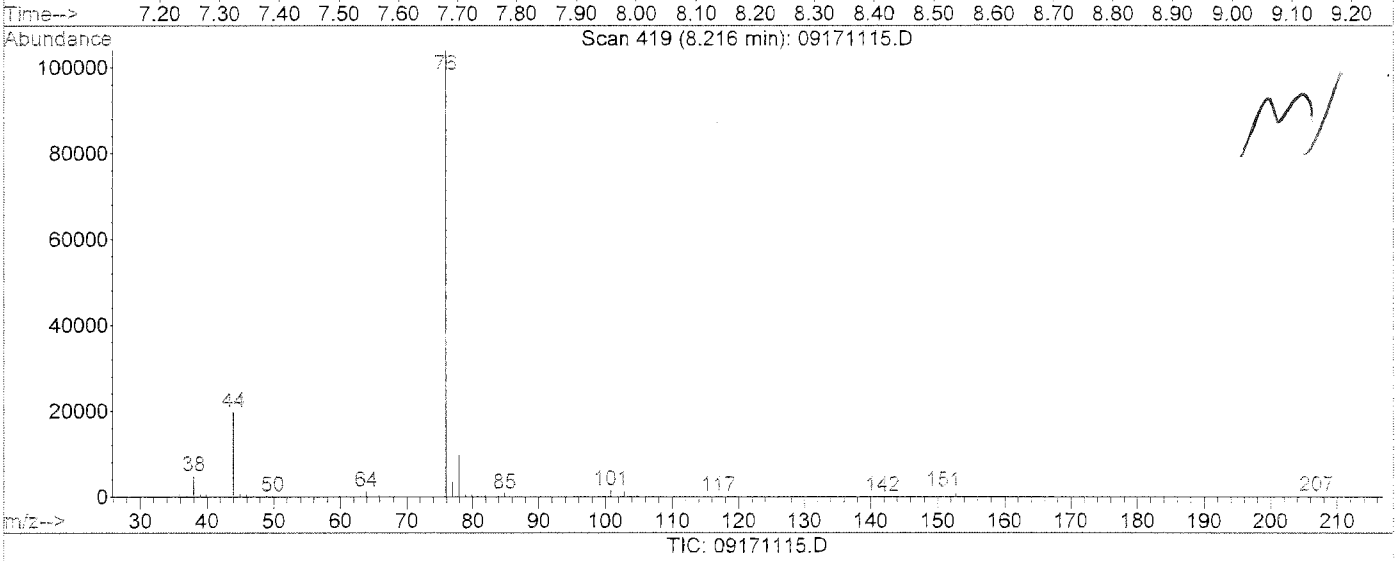
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:39 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171115.D

M

(19) Carbon Disulfide (T)

8.22min 30.87ug/L m

response 1125821

ion	Exp%	Act%
76.00	100	100
44.00	7.50	6.06
78.00	4.00	3.19#
0.00	0.00	0.00

✓ 9/20/11

09171115.D 091711.M Mon Sep 19 13:39:34 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration

9/20/11

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	99	0.00
2	T	Ethanol	0.297	0.309	-4.0	98	0.02
3	T	tert-Butanol (TBA)	1.818	1.779	2.1	101	0.00
4	I	Pentafluorobenzene	1.000	1.000	0.0	100	0.00
5	T	Dichlorodifluoromethane	0.817	0.727	11.0	85	0.00
6	P	Chloromethane	1.230	1.076	12.5	88	0.00
7	C	Vinyl Chloride	0.859	0.729	15.1	96	0.00
8	T	1,3-Butadiene	0.540	0.613	-13.5	119	0.00
9	T	Bromomethane	0.676	0.571	15.5	89	0.00
10	T	Chloroethane	0.532	0.505	5.1	97	0.00
11		Acrolein	0.051	0.031	39.2#	62	-0.01
12	T	Trichlorofluoromethane	0.710	0.663	6.6	93	-0.01
13	T	Acetone	0.458	0.185	59.6#	98	0.00
14		Acrylonitrile	0.151	0.145	4.0	98	0.00
15	T	Iodomethane	1.037	1.264	-21.9	125	0.01
16	T	1,1-Dichloroethene	0.632	0.558	11.7	91	0.00
17	T	Methylene Chloride	0.805	0.697	13.4	93	0.00
18	T	Freon 113	0.606	0.586	3.3	95	0.00
19	T	Carbon Disulfide	1.677	2.071	-23.5	122	0.00
20	T	trans-1,2-Dichloroethene	0.834	0.772	7.4	93	0.00
21	T	MTBE	1.387	1.379	0.6	99	0.00
22	P	1,1-Dichloroethane	1.536	1.496	2.6	96	0.00
23	T	Vinyl Acetate	1.065	1.266	-18.9	103	0.00
24	T	n-Hexane	0.160	0.146	8.8	89	0.00
25	T	2-Butanone (MEK)	0.052	0.047	9.6	98	0.00
26	T	Diisopropylether (DIPE)	3.193	3.117	2.4	99	0.00
27	T	cis-1,2-Dichloroethene	0.899	0.804	10.6	91	0.00
28	T	Bromochloromethane	0.378	0.368	2.6	96	0.00
29	C	Chloroform	1.442	1.365	5.3	95	0.00
30	T	2,2-Dichloropropane	0.623	0.555	10.9	86	0.00
31	T	(ETBE) 2-Ethoxy-2-methyl pr	1.894	1.822	3.8	94	0.00
32	S	Dibromofluoromethane(surr)	0.576	0.577	-0.2	101	0.00
33	T	Tetrahydrofuran	0.061	0.045	26.2	93	0.00
34	T	1,2-Dichloroethane	0.880	0.881	-0.1	99	0.00
35	T	1,1,1-Trichloroethane	0.989	0.965	2.4	94	0.00
36	T	(TAME) tert-Amyl methyl eth	1.321	1.362	-3.1	100	0.00
37	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
38	T	1,1-Dichloropropene	0.611	0.558	8.7	90	0.00
39	T	Carbon Tetrachloride	0.525	0.513	2.3	93	0.00
40	T	Benzene	1.735	1.649	5.0	96	0.00
41	T	Dibromomethane	0.242	0.233	3.7	94	0.00
42	C	1,2-Dichloropropane	0.484	0.464	4.1	97	0.00
43	T	Trichloroethene	0.476	0.449	5.7	96	0.00
44	T	Bromodichloromethane	0.575	0.575	0.0	97	0.00
45		2-Chloroethyl vinylether	0.157	0.178	-13.4	101	0.00
46	T	cis-1,3-Dichloropropene	0.622	0.642	-3.2	97	0.00
47	T	4-Methyl-2-pentanone (MIBK)	0.281	0.308	-9.6	104	0.00
48	T	trans-1,3-Dichloropropene	0.481	0.512	-6.4	97	0.00

(#) = Out of Range

MI 9/19/11

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,1,2-Trichloroethane	0.293	0.289	1.4	98	0.00
50	S	Toluene-d8 (surr)	1.059	1.057	0.2	100	0.00
51	C	Toluene	0.996	0.944	5.2	97	0.00
52	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
53	T	1,3-Dichloropropane	0.570	0.550	3.5	98	0.00
54	T	2-Hexanone	0.224	0.227	-1.3	107	0.00
55	T	Dibromochloromethane	0.389	0.427	-9.8	102	0.00
56	T	1,2-Dibromoethane	0.335	0.339	-1.2	99	0.00
57	T	Tetrachloroethene	0.389	0.361	7.2	96	0.00
58	T	1,1,1,2-Tetrachloroethane	0.436	0.452	-3.7	101	0.00
59	P	Chlorobenzene	1.325	1.311	1.1	101	0.00
60	C	Ethylbenzene	2.089	2.018	3.4	99	0.00
61	T	m,p-Xylene	0.853	0.766	10.2	96	0.00
62	T	Styrene	1.188	1.150	3.2	93	0.00
63	T	o-Xylene	0.793	0.736	7.2	97	0.00
64	S	4-Bromofluorobenzene (surr)	0.462	0.453	1.9	99	0.00
65	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
66	P	Bromoform	0.435	0.536	-23.2	109	0.00
67	P	1,1,2,2-Tetrachloroethane	0.760	0.796	-4.7	107	0.00
68	T	1,2,3-Trichloropropane	0.209	0.221	-5.7	107	0.00
69	T	trans-1,4-Dichloro-2-butene	0.190	0.202	-6.3	99	0.00
70	T	Isopropylbenzene	4.174	4.267	-2.2	105	0.00
71	T	Bromobenzene	1.107	1.100	0.6	101	0.00
72	T	n-Propylbenzene	5.332	5.306	0.5	102	0.00
73	T	2-Chlorotoluene	3.331	3.166	5.0	99	0.00
74	T	4-Chlorotoluene	3.290	3.293	-0.1	101	0.00
75	T	1,3,5-Trimethylbenzene	3.635	3.627	0.2	101	0.00
76	T	tert-Butylbenzene	3.023	3.033	-0.3	101	0.00
77	T	1,2,4-Trimethylbenzene	3.715	3.670	1.2	101	0.00
78	T	sec-Butylbenzene	4.704	4.598	2.3	101	0.00
79	T	1,3-Dichlorobenzene	2.052	2.065	-0.6	103	0.00
80	T	1,4-Dichlorobenzene	2.031	2.070	-1.9	106	0.00
81	T	4-Isopropyltoluene	3.815	3.850	-0.9	103	0.00
82	T	1,2-Dichlorobenzene	1.782	1.867	-4.8	105	0.00
83	T	n-Butylbenzene	3.683	3.595	2.4	100	0.00
84	T	1,2-Dibromo-3-chloropropane	0.095	0.103	-8.4	102	0.00
85	T	1,2,4-Trichlorobenzene	1.187	1.306	-10.0	106	0.00
86	T	Naphthalene	1.548	1.824	-17.8	106	0.00
87	T	Hexachlorobutadiene	0.727	0.692	4.8	98	0.00
88	T	1,2,3-Trichlorobenzene	0.936	1.049	-12.1	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
09171115.D 091711.M Mon Sep 19 13:40:08 2011

8260 CCV/ICV Custom Report

Data File Name	09171115.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\091711\
Operator	KH
Date Acquired	9/17/2011 5:22
Acq. Method File	8260C
Sample Name	25 PPB ICV/SS
Instrument Name	GCMS9

1 9/20/11

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	108956	110195	55097.5	220390	TRUE
Pentafluorobenzene	543582	543057	271528.5	1086114	TRUE
1,4-Difluorobenzene	908524	902453	451226.5	1804906	TRUE
Chlorobenzene-d5	812386	810477	405238.5	1620954	TRUE
1,4-Dichlorobenzene-d4	348699	344283	172141.5	688566	TRUE

M 9/19/11

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	288.45	250	115%	36%	150%	TRUE
tert-Butanol (TBA)	122.32	125	98%	70%	134%	TRUE
Dichlorodifluoromethane	22.25	25	89%	60%	140%	TRUE
Chloromethane	21.86	25	87%	48%	144%	TRUE
Vinyl Chloride	21.20	25	85%	80%	120%	TRUE
1,3-Butadiene	28.36	25	113%	50%	141%	TRUE
Bromomethane	21.14	25	85%	40%	144%	TRUE
Chloroethane	23.72	25	95%	60%	132%	TRUE
Acrolein	15.46	25	62%	80%	120%	* FALSE NT
Trichlorofluoromethane	23.35	25	93%	68%	136%	TRUE
Acetone	22.61	25	90%	80%	120%	TRUE
Acrylonitrile	24.03	25	96%	12%	150%	TRUE
Iodomethane	30.48	25	122%	40%	150%	TRUE
1,1-Dichloroethene	22.09	25	88%	80%	120%	TRUE
Methylene Chloride	21.65	25	87%	68%	128%	TRUE
Freon 113	24.18	25	97%	76%	124%	TRUE
Carbon Disulfide	30.87	25	123%	64%	136%	TRUE
trans-1,2-Dichloroethene	23.14	25	93%	76%	120%	TRUE
MTBE	24.86	25	99%	64%	140%	TRUE
1,1-Dichloroethane	24.34	25	97%	72%	124%	TRUE
Vinyl Acetate	29.73	25	119%	48%	150%	TRUE
n-Hexane	22.86	25	91%	56%	150%	TRUE
2-Butanone (MEK)	22.71	25	91%	44%	150%	TRUE
Diisopropylether (DIPE)	24.41	25	98%	72%	132%	TRUE
cis-1,2-Dichloroethene	22.36	25	89%	72%	128%	TRUE
Bromochloromethane	24.30	25	97%	72%	132%	TRUE
Chloroform	23.67	25	95%	80%	120%	TRUE
2,2-Dichloropropane	22.27	25	89%	64%	140%	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	24.05	25	96%	72%	140%	TRUE
Dibromofluoromethane(surr)	25.06	25	100%	80%	120%	TRUE
Tetrahydrofuran	24.36	25	97%	64%	139%	TRUE
1,2-Dichloroethane	25.01	25	100%	68%	136%	TRUE

* No AC/AC Sample will be run w/ passing. New SS stock std. will be used to Re-run. mmlaly

1,1,1-Trichloroethane	24.38	25	98%	72%	132%	TRUE
(TAME) tert-Amyl methyl ether	25.78	25	103%	68%	140%	TRUE
1,1-Dichloropropene	22.85	25	91%	76%	128%	TRUE
Carbon Tetrachloride	24.44	25	98%	72%	136%	TRUE
Benzene	23.75	25	95%	76%	120%	TRUE
Dibromomethane	24.13	25	97%	72%	132%	TRUE
1,2-Dichloropropane	23.99	25	96%	80%	120%	TRUE
Trichloroethene	23.55	25	94%	80%	120%	TRUE
Bromodichloromethane	25.01	25	100%	76%	128%	TRUE
2-Chloroethyl vinylether	28.31	25	113%	10%	150%	TRUE
cis-1,3-Dichloropropene	25.81	25	103%	76%	136%	TRUE
4-Methyl-2-pentanone (MIBK)	27.41	25	110%	60%	144%	TRUE
trans-1,3-Dichloropropene	26.64	25	107%	68%	140%	TRUE
1,1,2-Trichloroethane	24.69	25	99%	72%	132%	TRUE
Toluene-d8 (surr)	24.97	25	100%	80%	120%	TRUE
Toluene	23.71	25	95%	80%	120%	TRUE
1,3-Dichloropropane	24.10	25	96%	80%	124%	TRUE
2-Hexanone	25.32	25	101%	52%	150%	TRUE
Dibromochloromethane	27.48	25	110%	80%	128%	TRUE
1,2-Dibromoethane	25.24	25	101%	80%	128%	TRUE
Tetrachloroethene	23.23	25	93%	76%	128%	TRUE
1,1,1,2-Tetrachloroethane	25.94	25	104%	76%	124%	TRUE
Chlorobenzene	24.74	25	99%	80%	120%	TRUE
Ethylbenzene	24.14	25	97%	80%	120%	TRUE
m,p-Xylene	22.46	25	90%	80%	120%	TRUE
Styrene	24.21	25	97%	84%	124%	TRUE
o-Xylene	23.21	25	93%	72%	128%	TRUE
4-Bromofluorobenzene (surr)	24.49	25	98%	80%	120%	TRUE
Bromoform	25.46	25	102%	68%	132%	TRUE
1,1,2,2-Tetrachloroethane	26.17	25	105%	68%	132%	TRUE
1,2,3-Trichloropropane	26.35	25	105%	76%	128%	TRUE
trans-1,4-Dichloro-2-butene	26.61	25	106%	48%	138%	TRUE
Isopropylbenzene	25.55	25	102%	76%	132%	TRUE
Bromobenzene	24.84	25	99%	76%	128%	TRUE
n-Propylbenzene	24.88	25	100%	76%	132%	TRUE
2-Chlorotoluene	23.76	25	95%	80%	124%	TRUE
4-Chlorotoluene	25.03	25	100%	80%	124%	TRUE
1,3,5-Trimethylbenzene	24.95	25	100%	80%	128%	TRUE
tert-Butylbenzene	25.09	25	100%	76%	132%	TRUE
1,2,4-Trimethylbenzene	24.69	25	99%	80%	128%	TRUE
sec-Butylbenzene	24.44	25	98%	80%	128%	TRUE
1,3-Dichlorobenzene	25.15	25	101%	80%	124%	TRUE
1,4-Dichlorobenzene	25.48	25	102%	76%	120%	TRUE
4-Isopropyltoluene	25.23	25	101%	80%	128%	TRUE
1,2-Dichlorobenzene	26.19	25	105%	80%	124%	TRUE
n-Butylbenzene	24.40	25	98%	76%	132%	TRUE
1,2-Dibromo-3-chloropropane	27.14	25	109%	64%	128%	TRUE
1,2,4-Trichlorobenzene	27.52	25	110%	76%	128%	TRUE
Naphthalene	29.46	25	118%	68%	136%	TRUE
Hexachlorobutadiene	23.81	25	95%	76%	132%	TRUE
1,2,3-Trichlorobenzene	28.01	25	112%	72%	128%	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:39 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/112

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	108956	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	543582	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	908524	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	812386	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	348699	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	313572	25.06 ug/L	0.00
Spiked Amount 25.000			Recovery = 100.24%		
50) Toluene-d8 (surr)	14.21	98	960750	24.97 ug/L	0.00
Spiked Amount 25.000			Recovery = 99.88%		
64) 4-Bromofluorobenzene (surr	17.83	95	367726	24.49 ug/L	0.00
Spiked Amount 25.000			Recovery = 97.96%		

Target Compounds					Qvalue
2) Ethanol	6.20	45	42109	288.45 ug/L #	52
3) tert-Butanol (TBA)	7.69	59	121145	122.32 ug/L	99
5) Dichlorodifluoromethane	4.88	85	395436	22.25 ug/L	100
6) Chloromethane	5.13	50	584862	21.86 ug/L	100
7) Vinyl Chloride	5.48	62	396120	21.20 ug/L	100
8) 1,3-Butadiene	5.56	54	333128	28.36 ug/L	99
9) Bromomethane	6.00	94	310611	21.14 ug/L	100
10) Chloroethane	6.19	64	274252	23.72 ug/L	98
11) Acrolein	6.94	56	17013	15.46 ug/L	98
12) Trichlorofluoromethane	7.06	101	360338m	23.35 ug/L	
13) Acetone	7.11	43	100542	22.61 ug/L	100
14) Acrylonitrile	7.75	53	78726	24.03 ug/L	92
15) Iodomethane	7.78	142	687351	30.48 ug/L	99
16) 1,1-Dichloroethene	7.71	96	303354	22.09 ug/L	99
17) Methylene Chloride	7.88	84	379083	21.65 ug/L	99
18) Freon 113	8.01	101	318534	24.18 ug/L	98
19) Carbon Disulfide	8.22	76	1125821m	30.87 ug/L	
20) trans-1,2-Dichloroethene	8.75	96	419835	23.14 ug/L	99
21) MTBE	8.88	73	749753	24.86 ug/L	99
22) 1,1-Dichloroethane	9.07	63	813143	24.34 ug/L	100
23) Vinyl Acetate	9.21	43	688188	29.73 ug/L	99
24) n-Hexane	9.56	86	79401	22.86 ug/L	98
25) 2-Butanone (MEK)	9.60	72	25565	22.71 ug/L #	93
26) Diisopropylether (DIPE)	9.61	45	1694555	24.41 ug/L	98
27) cis-1,2-Dichloroethene	9.79	96	437198	22.36 ug/L	100
28) Bromochloromethane	10.00	128	199979	24.30 ug/L	98
29) Chloroform	10.06	83	742190	23.67 ug/L	99
30) 2,2-Dichloropropane	10.17	77	301542	22.27 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	990533	24.05 ug/L	99
33) Tetrahydrofuran	10.48	72	24400	24.36 ug/L	92
34) 1,2-Dichloroethane	10.90	62	478843	25.01 ug/L	100
35) 1,1,1-Trichloroethane	11.03	97	524328	24.38 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	740353	25.78 ug/L	100
38) 1,1-Dichloropropene	11.27	75	507082	22.85 ug/L	100
39) Carbon Tetrachloride	11.50	117	466455	24.44 ug/L	99
0) Benzene	11.55	78	1498059	23.75 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:39 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

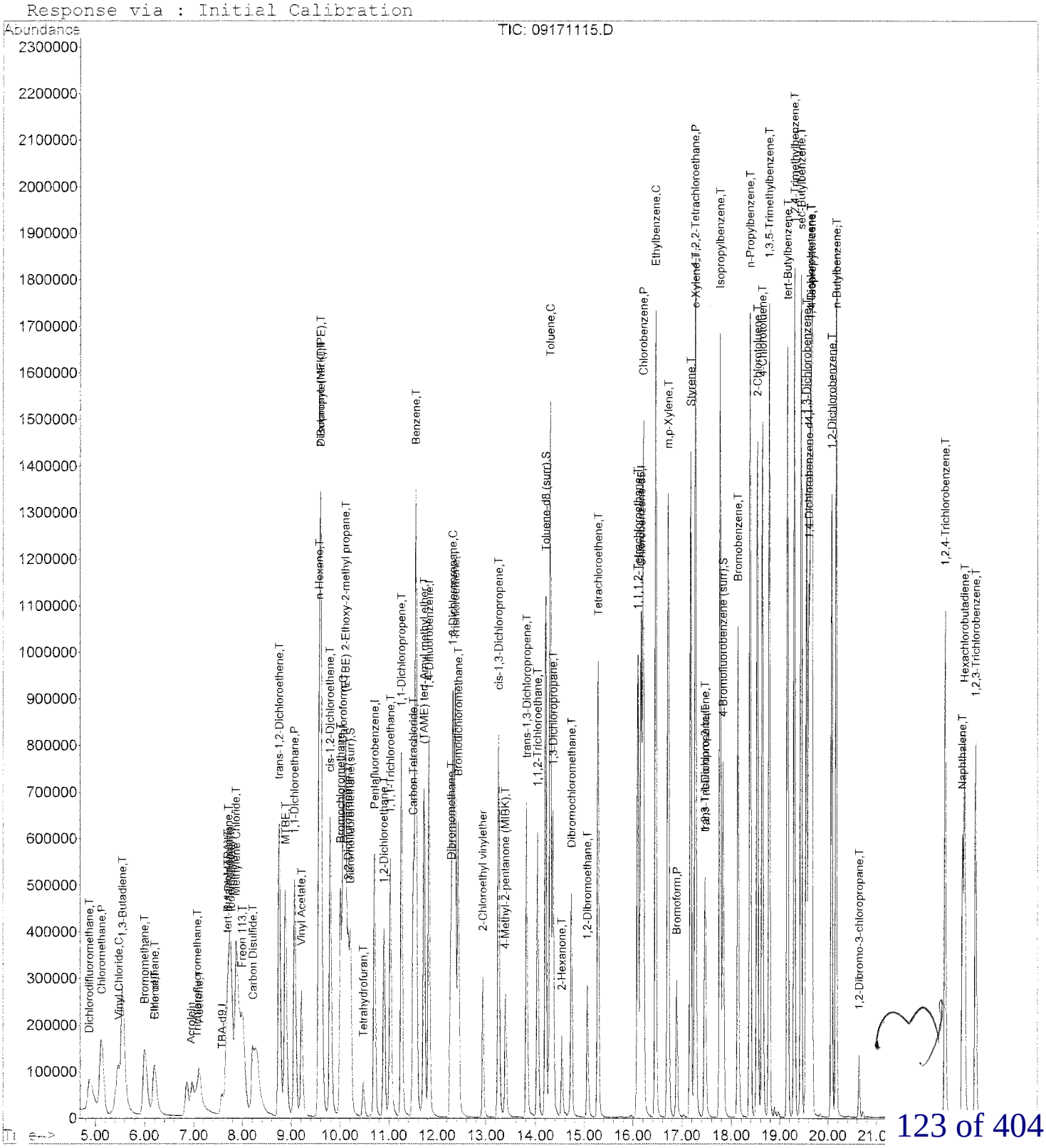
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.28	93	211932	24.13 ug/L	99
42)	1,2-Dichloropropane	12.32	63	421737	23.99 ug/L	99
43)	Trichloroethene	12.37	95	407537	23.55 ug/L	99
44)	Bromodichloromethane	12.43	83	522397	25.01 ug/L	99
45)	2-Chloroethyl vinylether	12.94	63	161439	28.31 ug/L	96
46)	cis-1,3-Dichloropropene	13.26	75	583343	25.81 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	280075	27.41 ug/L	100
48)	trans-1,3-Dichloropropene	13.82	75	465597	26.64 ug/L	99
49)	1,1,2-Trichloroethane	14.04	97	262581	24.69 ug/L	99
51)	Toluene	14.30	92	858050	23.71 ug/L	99
53)	1,3-Dichloropropane	14.36	76	446432	24.10 ug/L	100
54)	2-Hexanone	14.54	43	184443	25.32 ug/L	100
55)	Dibromochloromethane	14.74	129	347215	27.48 ug/L	100
56)	1,2-Dibromoethane	15.07	107	275134	25.24 ug/L	99
57)	Tetrachloroethene	15.29	164	293484	23.23 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.10	131	367541	25.94 ug/L	98
59)	Chlorobenzene	16.21	112	1065346	24.74 ug/L	99
60)	Ethylbenzene	16.46	91	1639086	24.14 ug/L	99
61)	m,p-Xylene	16.72	106	622440	22.46 ug/L	99
62)	Styrene	17.17	104	934591	24.21 ug/L	99
63)	o-Xylene	17.28	106	598239	23.21 ug/L	99
66)	Bromoform	16.90	173	186800	25.46 ug/L	98
67)	1,1,2,2-Tetrachloroethane	17.26	83	277428	26.17 ug/L	100
68)	1,2,3-Trichloropropane	17.46	110	76956	26.35 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.48	53	70602	26.61 ug/L	98
70)	Isopropylbenzene	17.77	105	1487781	25.55 ug/L	100
71)	Bromobenzene	18.14	156	383441	24.84 ug/L	100
72)	n-Propylbenzene	18.38	91	1850301	24.88 ug/L	99
73)	2-Chlorotoluene	18.53	91	1103964	23.76 ug/L	99
74)	4-Chlorotoluene	18.63	91	1148413	25.03 ug/L	99
75)	1,3,5-Trimethylbenzene	18.78	105	1264837	24.95 ug/L	100
76)	tert-Butylbenzene	19.16	119	1057649	25.09 ug/L	99
77)	1,2,4-Trimethylbenzene	19.31	105	1279553	24.69 ug/L	99
78)	sec-Butylbenzene	19.44	105	1603312	24.44 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	720014	25.15 ug/L	99
80)	1,4-Dichlorobenzene	19.64	146	721679	25.48 ug/L	99
81)	4-Isopropyltoluene	19.67	119	1342482	25.23 ug/L	100
82)	1,2-Dichlorobenzene	20.07	146	651040	26.19 ug/L	100
83)	n-Butylbenzene	20.17	91	1253606	24.40 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.64	75	36019	27.14 ug/L	97
85)	1,2,4-Trichlorobenzene	22.37	180	455376	27.52 ug/L	99
86)	Naphthalene	22.73	128	636017	29.46 ug/L	99
87)	Hexachlorobutadiene	22.78	225	241371	23.81 ug/L	100
88)	1,2,3-Trichlorobenzene	23.01	180	365776	28.01 ug/L	99

(#) = qualifier out of range (m) = manual integration
09171115.D 091711.M Mon Sep 19 13:40:35 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171115.D Vial: 15
Acq On : 17 Sep 2011 5:22 pm Operator: KH
Sample : 25 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:39 2011 Quant Results File: 091711.RES

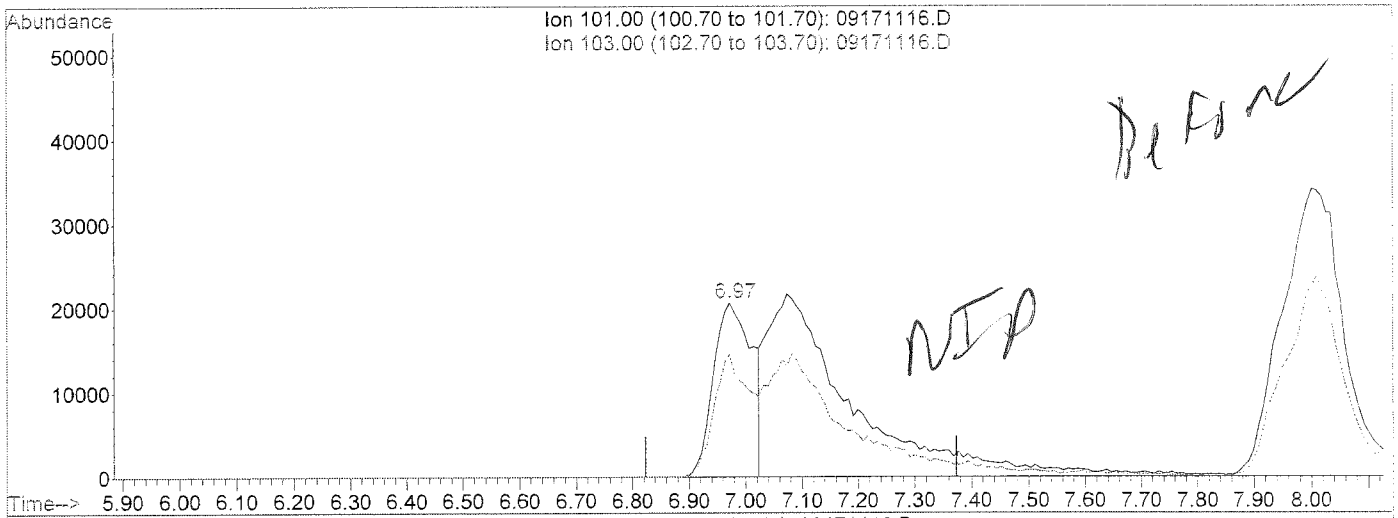
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

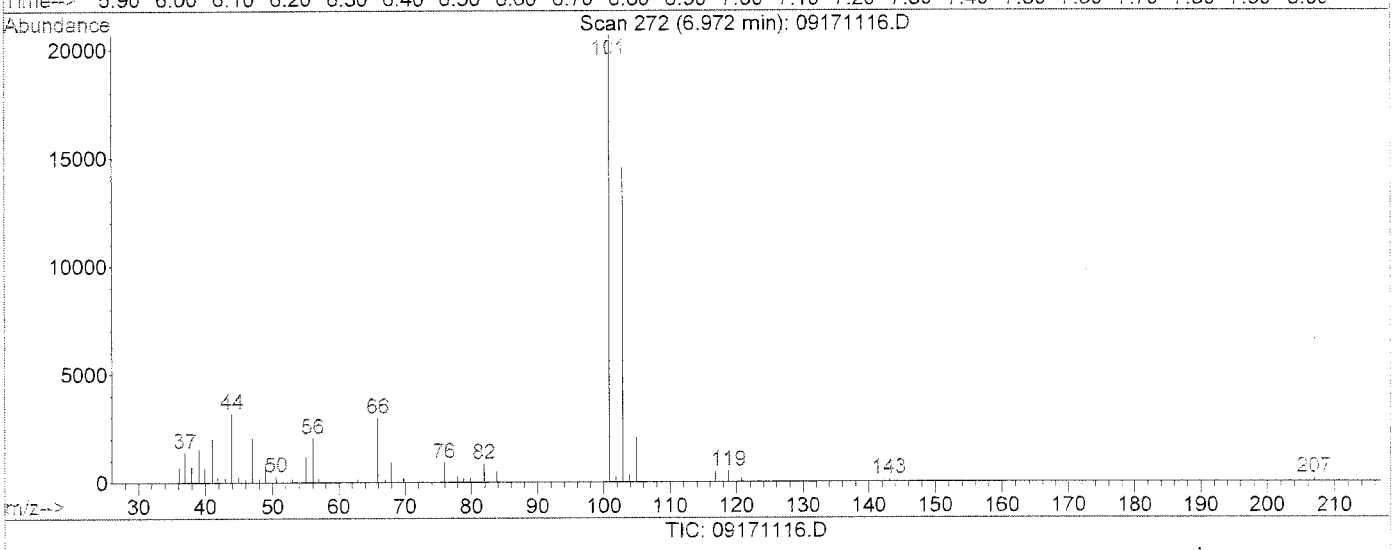
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:40 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



Before

NTP



TIC: 09171116.D

9/20/11

(12) Trichlorofluoromethane (T)

6.97min 6.35ug/L

response 98010

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	70.37
0.00	0.00	0.00
0.00	0.00	0.00

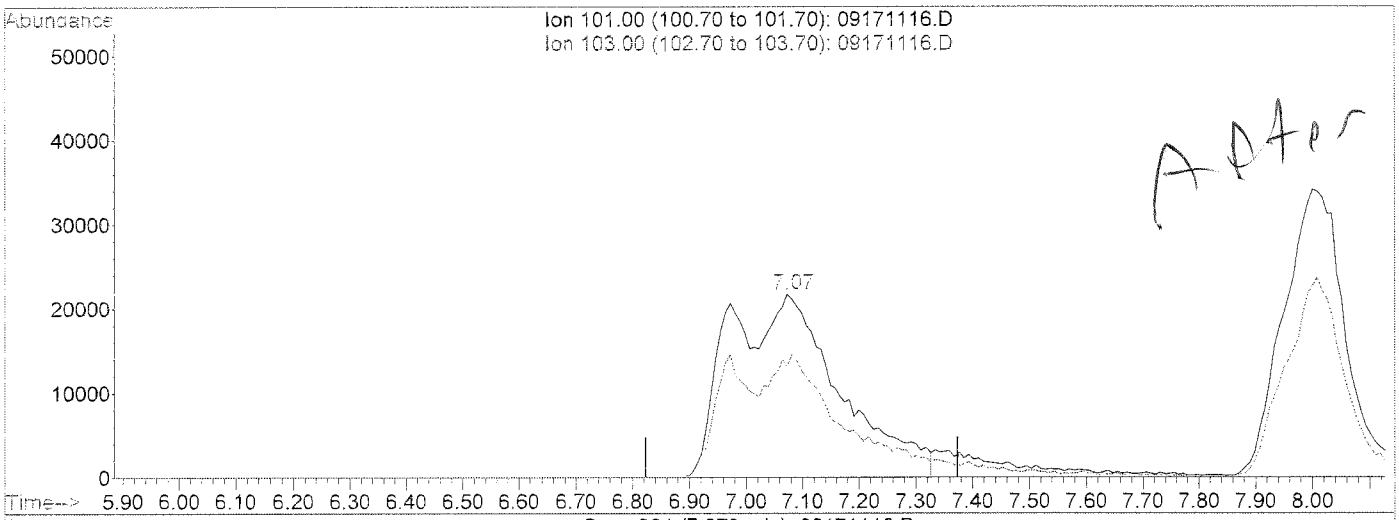
Mhighly

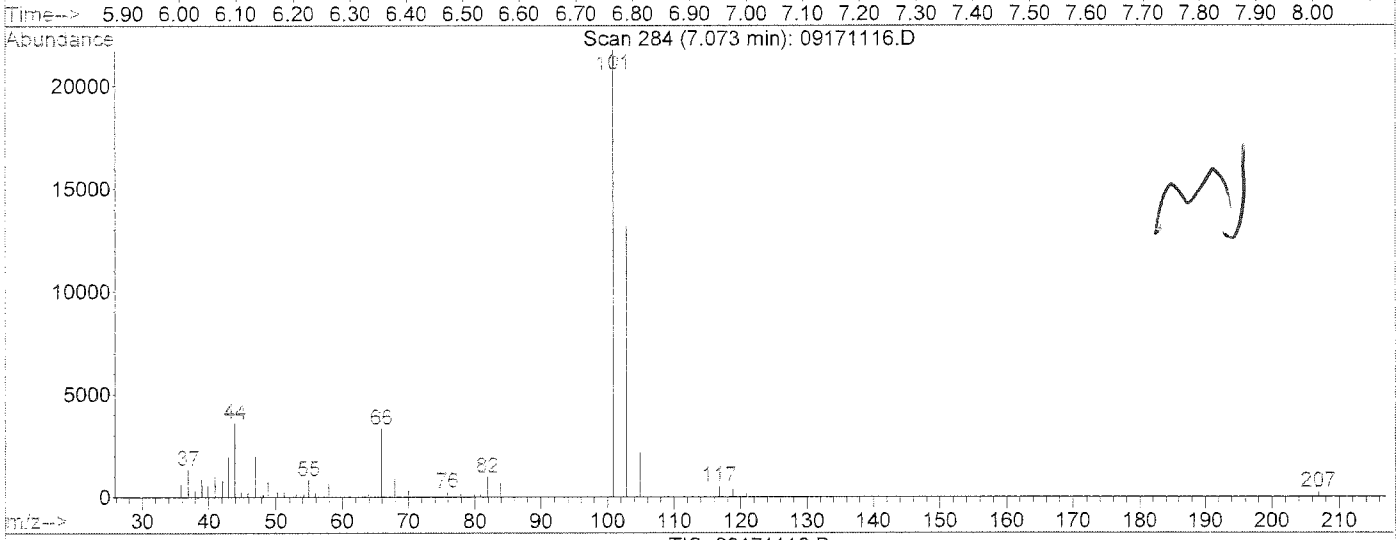
09171116.D 091711.M Mon Sep 19 13:40:50 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:41 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171116.D

(12) Trichlorofluoromethane (T)

7.07min 19.08ug/L m

response 294588

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	60.69
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

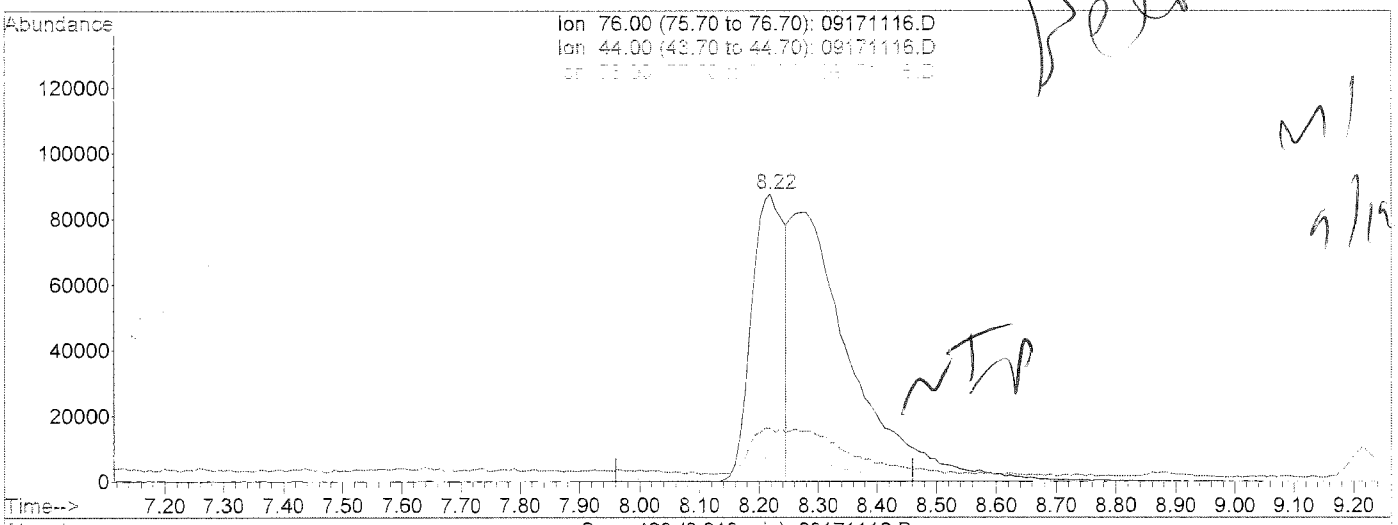
09171116.D 091711.M Mon Sep 19 13:41:03 2011

Quantitation Report (Qedit)

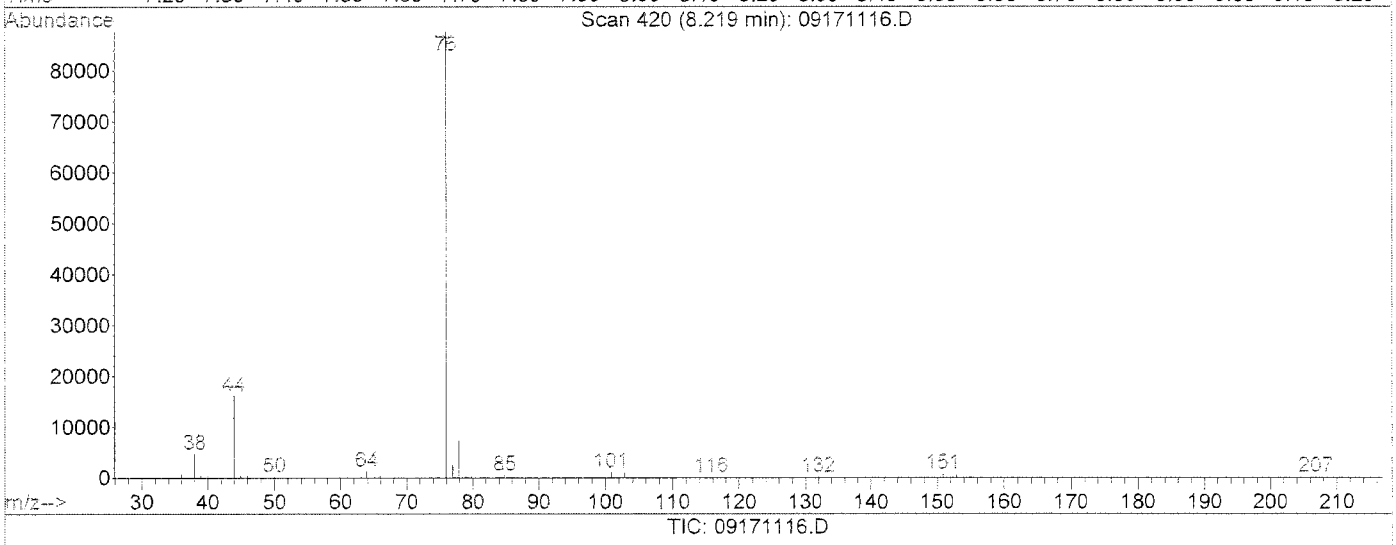
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:41 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration

Before
MI
9/19/11



NTP



9/20/11

(19) Carbon Disulfide (T)

8.22min 9.16ug/L

response 334212

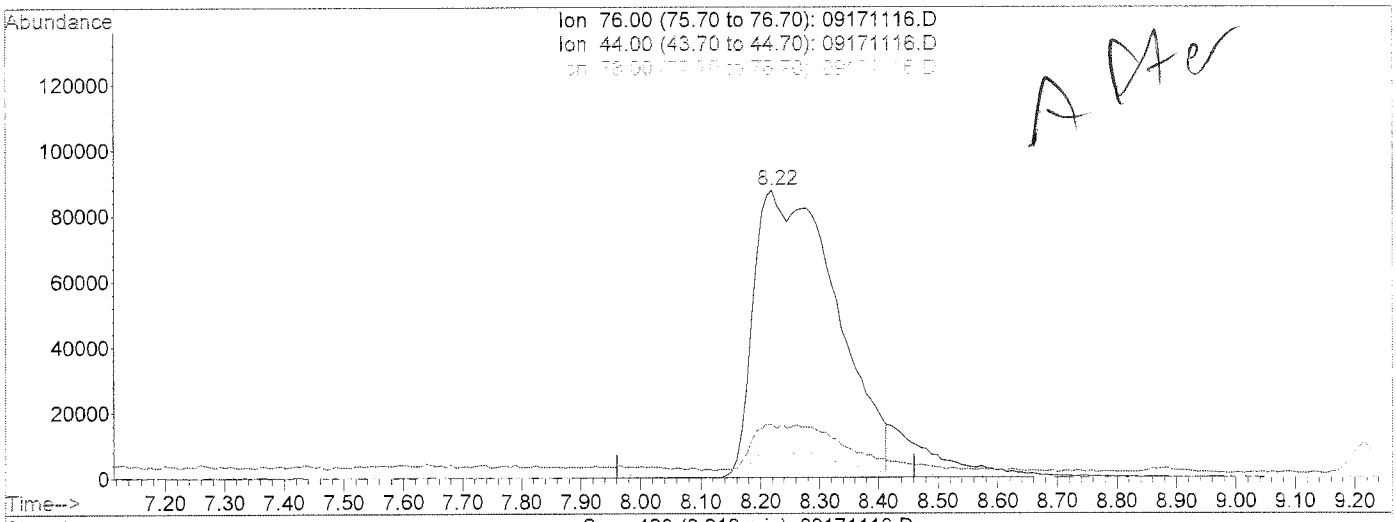
Ion	Exp%	Act%
76.00	100	100
44.00	7.50	12.62#
78.00	4.00	8.86#
0.00	0.00	0.00

09171116.D 091711.M Mon Sep 19 13:41:15 2011

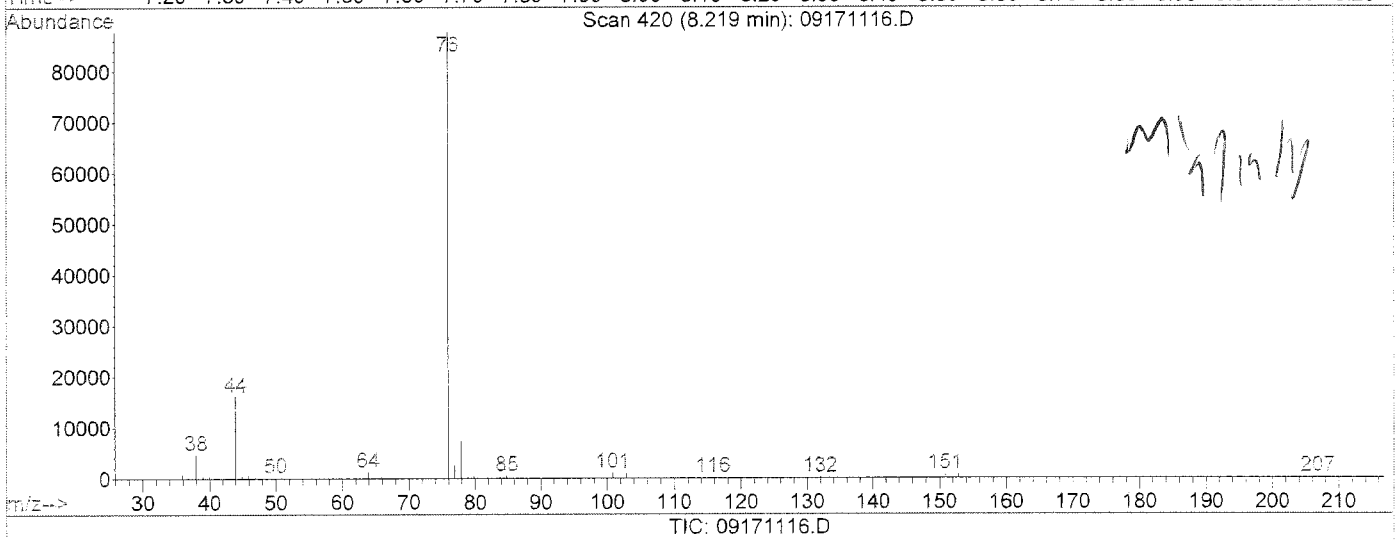
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:41 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171116.D

MI 9/19/11

9/20/11

(19) Carbon Disulfide (T)

8.22min 23.36ug/L m

response 852207

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	4.95#
78.00	4.00	3.48
0.00	0.00	0.00

09171116.D 091711.M Mon Sep 19 13:41:25 2011

624 CCV/ICV Custom Report

Data File Name	09171116.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\091711\
Operator	KH
Date Acquired	9/17/2011 5:54
Acq. Method File	8260C
Sample Name	20 PPB ICV/SS
Instrument Name	GCMS9

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	108956	110195	55097.5	220390	TRUE
Pentafluorobenzene	543582	543057	271528.5	1086114	TRUE
1,4-Difluorobenzene	908524	902453	451226.5	1804906	TRUE
Chlorobenzene-d5	812386	810477	405238.5	1620954	TRUE
1,4-Dichlorobenzene-d4	346345	344283	172141.5	688566	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	241.55	200	121	36	150	TRUE
tert-Butanol (TBA)	103.17	100	103	70	134	TRUE
Dichlorodifluoromethane	18.13	20	91	60	140	TRUE
Chloromethane	17.72	20	89	0	204	TRUE
Vinyl Chloride	17.35	20	87	4	196	TRUE
1,3-Butadiene	22.93	20	115	50	141	TRUE
Bromomethane	17.25	20	86	14	186	TRUE
Chloroethane	18.88	20	94	38	162	TRUE
Acrolein	10.67	20	53	80	120	*FALSE
Trichlorofluoromethane	19.08	20	95	48	152	TRUE
Acetone	19.64	20	98	80	120	TRUE
Acrylonitrile	17.72	20	89	12	150	TRUE
Iodomethane	24.85	20	124	40	150	TRUE
1,1-Dichloroethene	18.00	20	90	50	150	TRUE
Methylene Chloride	17.15	20	86	60	140	TRUE
Freon 113	19.56	20	98	76	124	TRUE
Carbon Disulfide	23.36	20	117	64	136	TRUE
trans-1,2-Dichloroethene	19.21	20	96	70	130	TRUE
MTBE	19.58	20	98	64	140	TRUE
1,1-Dichloroethane	19.74	20	99	72	128	TRUE
Vinyl Acetate	22.88	20	114	48	150	TRUE
n-Hexane	18.97	20	95	56	150	TRUE
2-Butanone (MEK)	17.96	20	90	44	150	TRUE
Diisopropylether (DIPE)	19.78	20	99	72	132	TRUE
cis-1,2-Dichloroethene	18.28	20	91	72	128	TRUE
Bromochloromethane	19.37	20	97	72	132	TRUE
Chloroform	19.38	20	97	68	132	TRUE
2,2-Dichloropropane	18.19	20	91	64	140	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	18.92	20	95	72	140	TRUE
Dibromofluoromethane(surr)	24.73	25	99	80	120	TRUE
Tetrahydrofuran	20.52	20	103	64	139	TRUE
1,2-Dichloroethane	19.86	20	99	68	132	TRUE
1,1,1-Trichloroethane	20.21	20	101	75	125	TRUE

* RR with no

(TAME) tert-Amyl methyl ether	19.72	20	99	68	140	TRUE
1,1-Dichloropropene	19.20	20	96	76	128	TRUE
Carbon Tetrachloride	20.30	20	101	73	127	TRUE
Benzene	19.86	20	99	64	136	TRUE
Dibromomethane	19.38	20	97	72	132	TRUE
1,2-Dichloropropane	19.72	20	99	34	166	TRUE
Trichloroethene	19.59	20	98	66	133	TRUE
Bromodichloromethane	20.57	20	103	66	134	TRUE
2-Chloroethyl vinylether	22.39	20	112	0	224	TRUE
cis-1,3-Dichloropropene	20.92	20	105	24	176	TRUE
4-Methyl-2-pentanone (MIBK)	21.63	20	108	60	144	TRUE
trans-1,3-Dichloropropene	21.38	20	107	50	150	TRUE
1,1,2-Trichloroethane	19.87	20	99	71	129	TRUE
Toluene-d8 (surr)	24.97	25	100	80	120	TRUE
Toluene	19.85	20	99	74	126	TRUE
1,3-Dichloropropane	19.42	20	97	80	124	TRUE
2-Hexanone	20.32	20	102	52	150	TRUE
Dibromochloromethane	22.01	20	110	68	132	TRUE
1,2-Dibromoethane	20.42	20	102	80	128	TRUE
Tetrachloroethene	19.96	20	100	74	126	TRUE
1,1,1,2-Tetrachloroethane	21.19	20	106	76	124	TRUE
Chlorobenzene	20.23	20	101	66	134	TRUE
Ethylbenzene	20.26	20	101	59	141	TRUE
m,p-Xylene	18.92	20	95	80	120	TRUE
Styrene	19.97	20	100	84	124	TRUE
o-Xylene	19.15	20	96	72	128	TRUE
4-Bromofluorobenzene (surr)	24.76	25	99	80	120	TRUE
Bromoform	19.98	20	100	71	129	TRUE
1,1,2,2-Tetrachloroethane	21.27	20	106	61	140	TRUE
1,2,3-Trichloropropane	20.86	20	104	76	128	TRUE
trans-1,4-Dichloro-2-butene	21.23	20	106	48	138	TRUE
Isopropylbenzene	21.53	20	108	76	132	TRUE
Bromobenzene	20.38	20	102	76	128	TRUE
n-Propylbenzene	21.03	20	105	76	132	TRUE
2-Chlorotoluene	20.09	20	100	80	124	TRUE
4-Chlorotoluene	20.84	20	104	80	124	TRUE
1,3,5-Trimethylbenzene	20.93	20	105	80	128	TRUE
tert-Butylbenzene	21.08	20	105	76	132	TRUE
1,2,4-Trimethylbenzene	20.40	20	102	80	128	TRUE
sec-Butylbenzene	20.52	20	103	80	128	TRUE
1,3-Dichlorobenzene	21.04	20	105	73	127	TRUE
1,4-Dichlorobenzene	21.09	20	105	63	137	TRUE
4-Isopropyltoluene	21.19	20	106	80	128	TRUE
1,2-Dichlorobenzene	21.54	20	108	63	137	TRUE
n-Butylbenzene	20.89	20	104	76	132	TRUE
1,2-Dibromo-3-chloropropane	22.44	20	112	64	128	TRUE
1,2,4-Trichlorobenzene	23.07	20	115	76	128	TRUE
Naphthalene	24.98	20	125	68	136	TRUE
Hexachlorobutadiene	20.73	20	104	76	132	TRUE
1,2,3-Trichlorobenzene	23.99	20	120	72	128	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:41 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.60	65	102278	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	543720	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	901204	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	803723	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	346345	25.00 ug/L	0.00

9/14/11

System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	309538	24.73 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.92%	
50) Toluene-d8 (surr)	14.20	98	953247	24.97 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.88%	
64) 4-Bromofluorobenzene (surr	17.84	95	367832	24.76 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.04%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	33717	241.55 ug/L #	46
3) tert-Butanol (TBA)	7.71	59	95912	103.17 ug/L	99
5) Dichlorodifluoromethane	4.90	85	322302	18.13 ug/L	99
6) Chloromethane	5.13	50	474171	17.72 ug/L	99
7) Vinyl Chloride	5.49	62	324288	17.35 ug/L	100
8) 1,3-Butadiene	5.56	54	269384	22.93 ug/L	99
9) Bromomethane	6.00	94	253562	17.25 ug/L	98
10) Chloroethane	6.21	64	218315	18.88 ug/L	98
11) Acrolein	6.95	56	11751	10.67 ug/L	97
12) Trichlorofluoromethane	7.07	101	294588m	19.08 ug/L	
13) Acetone	7.12	43	88408	19.64 ug/L	100
14) Acrylonitrile	7.76	53	58063	17.72 ug/L	93
15) Iodomethane	7.77	142	560525	24.85 ug/L	98
16) 1,1-Dichloroethene	7.73	96	247294	18.00 ug/L	98
17) Methylene Chloride	7.87	84	300351	17.15 ug/L	100
18) Freon 113	8.00	101	257811	19.56 ug/L	96
19) Carbon Disulfide	8.22	76	852207m	23.36 ug/L	
20) trans-1,2-Dichloroethene	8.75	96	348692	19.21 ug/L	99
21) MTBE	8.89	73	590679	19.58 ug/L	100
22) 1,1-Dichloroethane	9.07	63	659633	19.74 ug/L	99
23) Vinyl Acetate	9.21	43	529873	22.88 ug/L	100
24) n-Hexane	9.57	86	65886	18.97 ug/L	98
25) 2-Butanone (MEK)	9.61	72	20216	17.96 ug/L #	100
26) Diisopropylether (DIPE)	9.61	45	1373712	19.78 ug/L	99
27) cis-1,2-Dichloroethene	9.80	96	357574	18.28 ug/L	99
28) Bromochloromethane	10.01	128	159426	19.37 ug/L	99
29) Chloroform	10.06	83	607908	19.38 ug/L	100
30) 2,2-Dichloropropane	10.17	77	246248	18.19 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	779566	18.92 ug/L	99
33) Tetrahydrofuran	10.49	72	20789	20.52 ug/L	98
34) 1,2-Dichloroethane	10.90	62	380331	19.86 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	434666	20.21 ug/L	99
36) (TAME) tert-Amyl methyl et	11.73	73	566559	19.72 ug/L	99
38) 1,1-Dichloropropene	11.26	75	422650	19.20 ug/L	100
39) Carbon Tetrachloride	11.51	117	384260	20.30 ug/L	99
40) Benzene	11.56	78	1242343	19.86 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:41 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

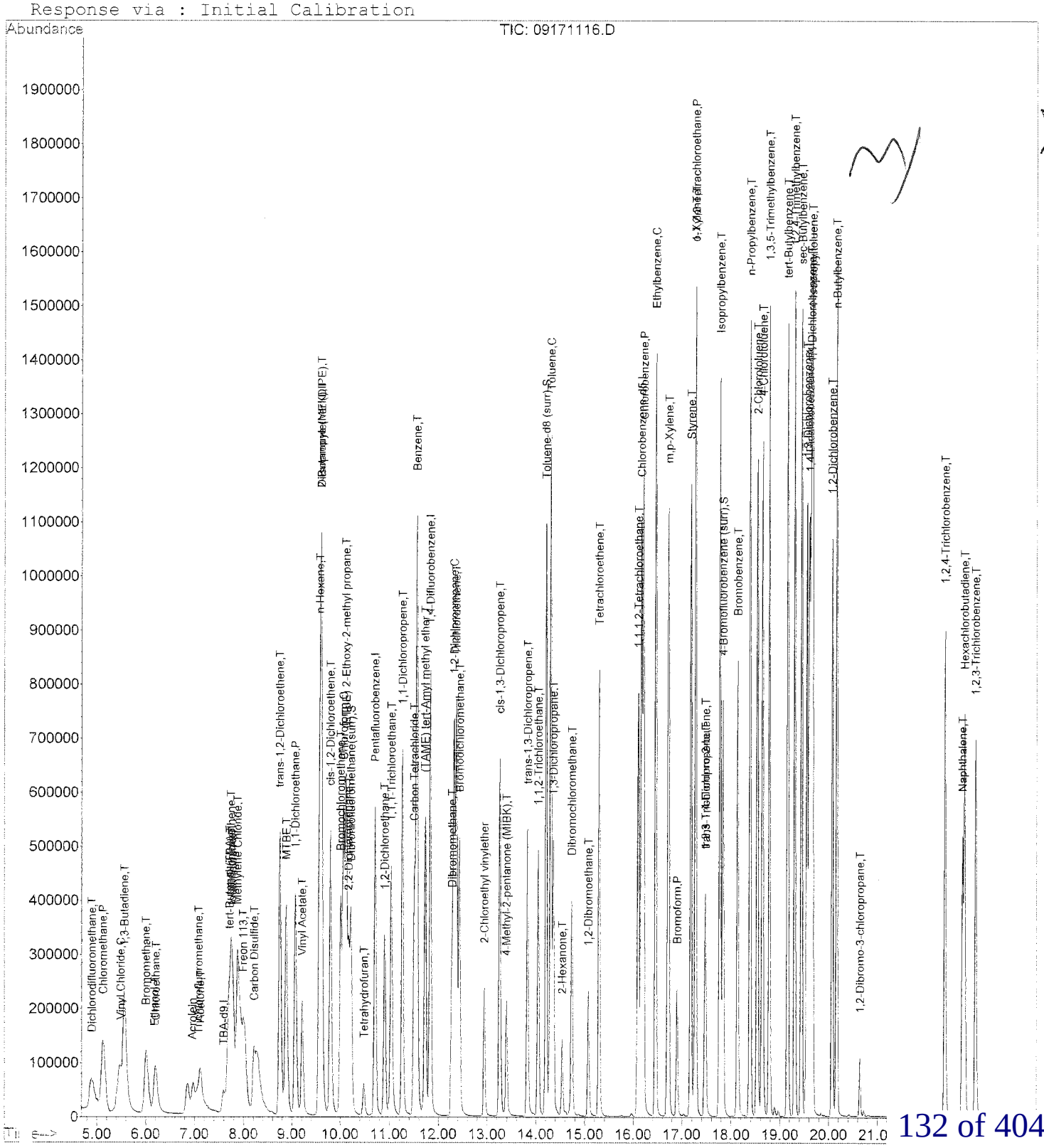
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	168840	19.38 ug/L	98
42)	1,2-Dichloropropane	12.32	63	343915	19.72 ug/L	99
43)	Trichloroethene	12.37	95	336345	19.59 ug/L	99
44)	Bromodichloromethane	12.43	83	426175	20.57 ug/L	99
45)	2-Chloroethyl vinylether	12.95	63	126681	22.39 ug/L	98
46)	cis-1,3-Dichloropropene	13.26	75	468978	20.92 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	219285	21.63 ug/L	100
48)	trans-1,3-Dichloropropene	13.82	75	370764	21.38 ug/L	99
49)	1,1,2-Trichloroethane	14.04	97	209667	19.87 ug/L	99
51)	Toluene	14.30	92	712426	19.85 ug/L	100
53)	1,3-Dichloropropane	14.36	76	355800	19.42 ug/L	100
54)	2-Hexanone	14.54	43	146451	20.32 ug/L	99
55)	Dibromochloromethane	14.73	129	275180	22.01 ug/L	99
56)	1,2-Dibromoethane	15.07	107	220183	20.42 ug/L	100
57)	Tetrachloroethene	15.29	164	249511	19.96 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.10	131	297010	21.19 ug/L	99
59)	Chlorobenzene	16.21	112	861715	20.23 ug/L	99
60)	Ethylbenzene	16.46	91	1360777	20.26 ug/L	99
61)	m,p-Xylene	16.72	106	518709	18.92 ug/L	100
62)	Styrene	17.18	104	762507	19.97 ug/L	100
63)	o-Xylene	17.28	106	488459	19.15 ug/L	99
66)	Bromoform	16.90	173	145016	19.98 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.26	83	223991	21.27 ug/L	98
68)	1,2,3-Trichloropropane	17.46	110	60508	20.86 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.48	53	55939	21.23 ug/L	98
70)	Isopropylbenzene	17.78	105	1245035	21.53 ug/L	99
71)	Bromobenzene	18.14	156	312488	20.38 ug/L	100
72)	n-Propylbenzene	18.38	91	1553346	21.03 ug/L	100
73)	2-Chlorotoluene	18.53	91	927254	20.09 ug/L	100
74)	4-Chlorotoluene	18.64	91	949605	20.84 ug/L	99
75)	1,3,5-Trimethylbenzene	18.78	105	1053877	20.93 ug/L	100
76)	tert-Butylbenzene	19.16	119	882872	21.08 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	1050064	20.40 ug/L	99
78)	sec-Butylbenzene	19.44	105	1337059	20.52 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	598243	21.04 ug/L	99
80)	1,4-Dichlorobenzene	19.64	146	593334	21.09 ug/L	99
81)	4-Isopropyltoluene	19.66	119	1120141	21.19 ug/L	100
82)	1,2-Dichlorobenzene	20.08	146	531769	21.54 ug/L	100
83)	n-Butylbenzene	20.16	91	1065931	20.89 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.64	75	29578	22.44 ug/L	97
85)	1,2,4-Trichlorobenzene	22.38	180	379294	23.07 ug/L	100
86)	Naphthalene	22.73	128	535699	24.98 ug/L	100
87)	Hexachlorobutadiene	22.77	225	208665	20.73 ug/L	99
88)	1,2,3-Trichlorobenzene	23.00	180	311179	23.99 ug/L	98

(#) = qualifier out of range (m) = manual integration
09171116.D 091711.M Mon Sep 19 13:41:48 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171116.D Vial: 16
Acq On : 17 Sep 2011 5:54 pm Operator: KH
Sample : 20 PPB ICV/SS Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:41 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171104.D Vial: 4
Acq On : 17 Sep 2011 11:36 am Operator: KH
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:42 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	105633	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	601620	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	991429	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	858523	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	372188	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	328589	23.73 ug/L	0.00
Spiked Amount 25.000			Recovery =	94.92%	
50) Toluene-d8 (surr)	14.21	98	1029381	24.51 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.04%	
64) 4-Bromofluorobenzene (surr	17.83	95	393243	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.12%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	232	Below Cal #LPV	62
13) Acetone	7.13	43	17561	Below Cal	98
36) (TAME) tert-Amyl methyl et	11.82	73	10246	0.32 ug/L #NJM	90
61) m,p-Xylene	16.72	106	3834	0.13 ug/L	89
83) n-Butylbenzene	20.16	91	5442	0.10 ug/L LPV	96
85) 1,2,4-Trichlorobenzene	22.37	180	2256	0.13 ug/L	93
87) Hexachlorobutadiene	22.77	225	1401	0.13 ug/L	90
88) 1,2,3-Trichlorobenzene	23.00	180	1791	0.13 ug/L	97

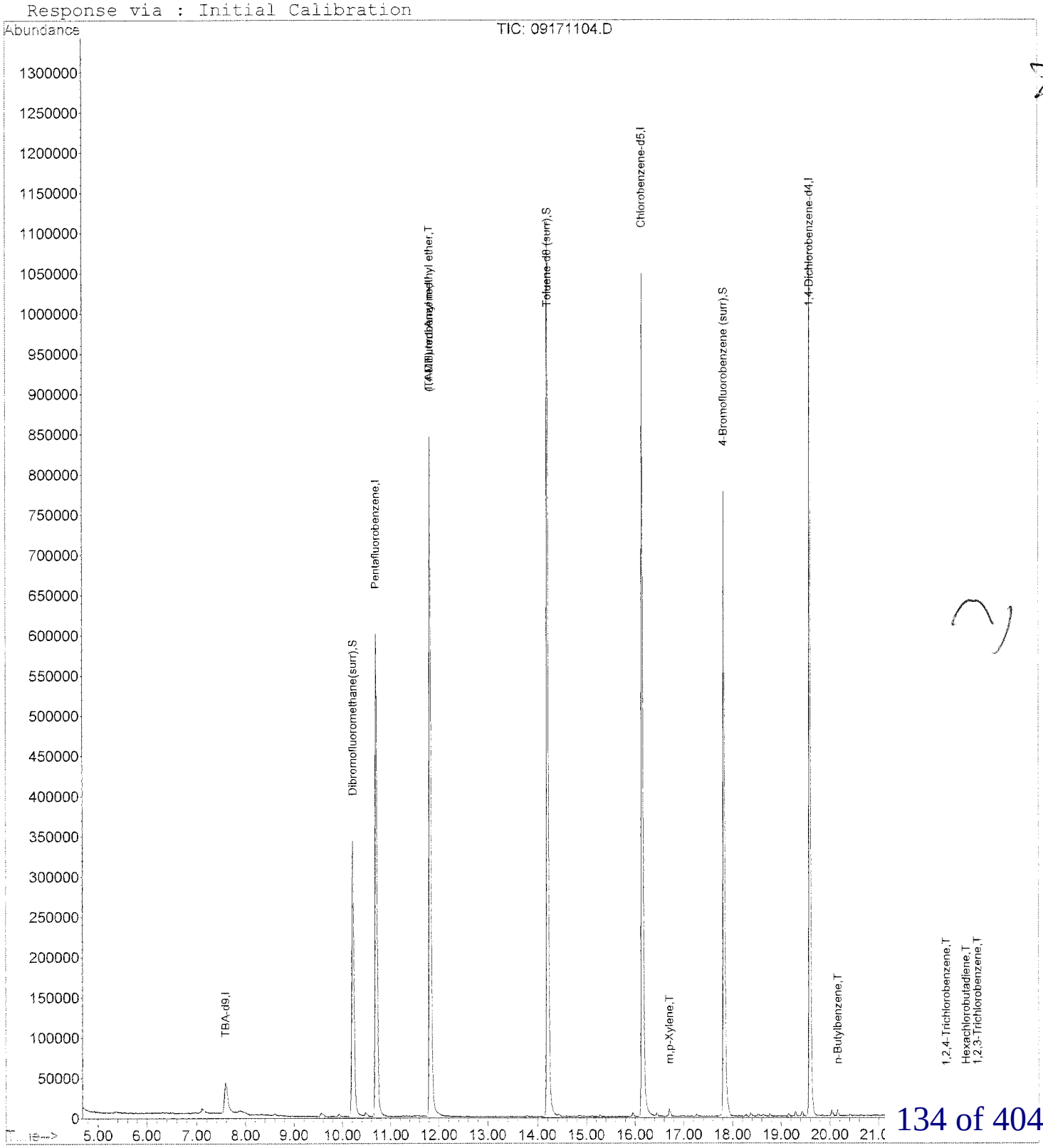
M 9/19/11

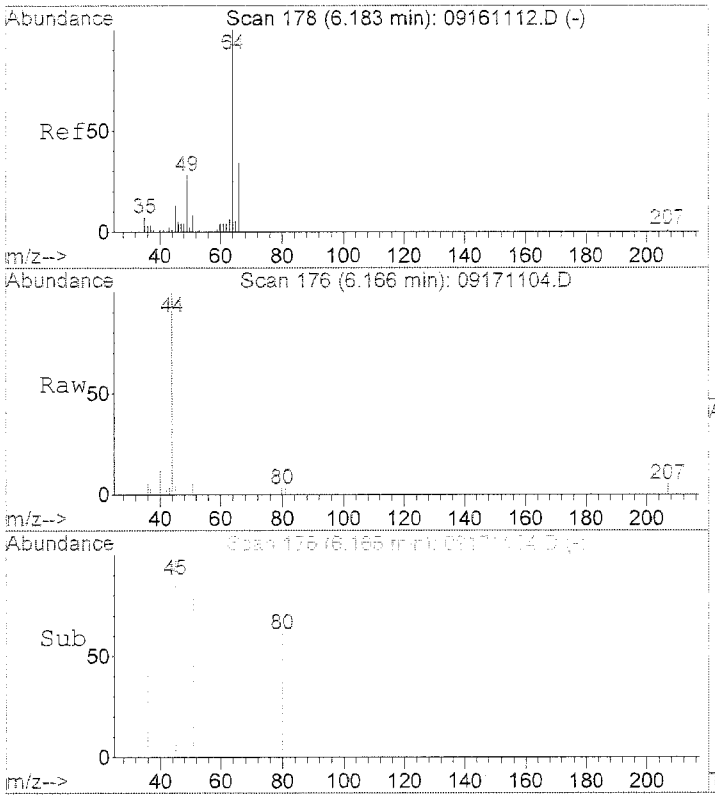
(#) = qualifier out of range (m) = manual integration
09171104.D 091711.M Mon Sep 19 13:42:39 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171104.D Vial: 4
Acq On : 17 Sep 2011 11:36 am Operator: KH
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:42 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

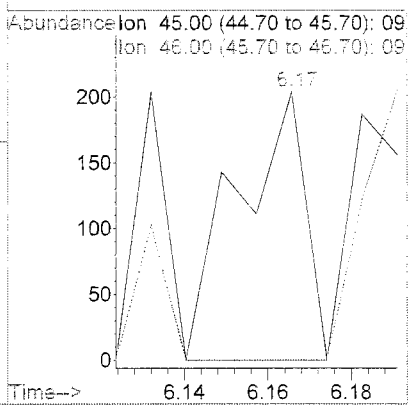


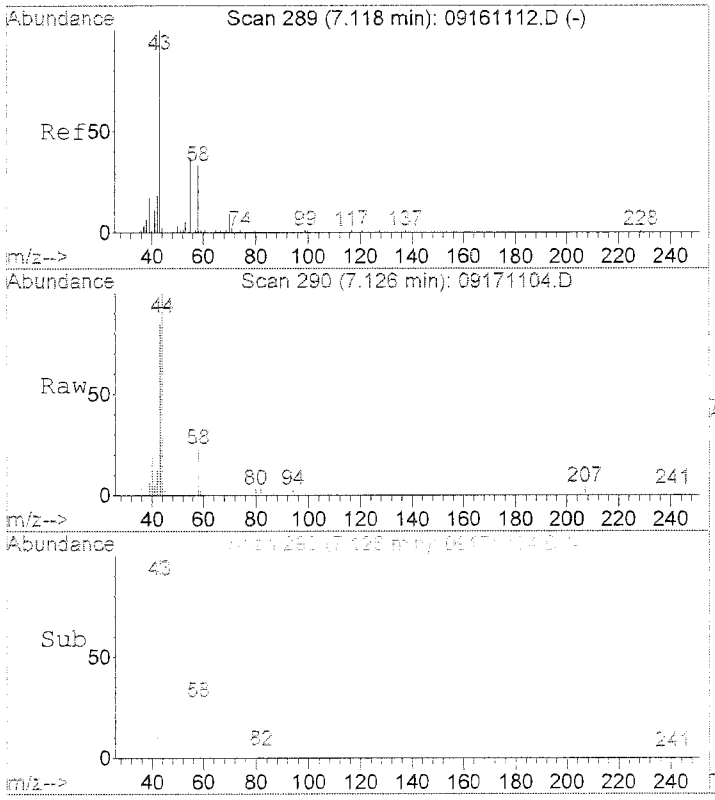


#2
Ethanol
Concen: Below Cal
RT: 6.17 min Scan# 176
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 45 Resp: 232

Ion	Ratio	Lower	Upper
45	100		
46	0.0	12.7	19.1#

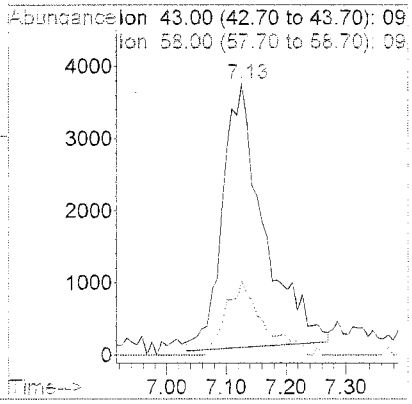


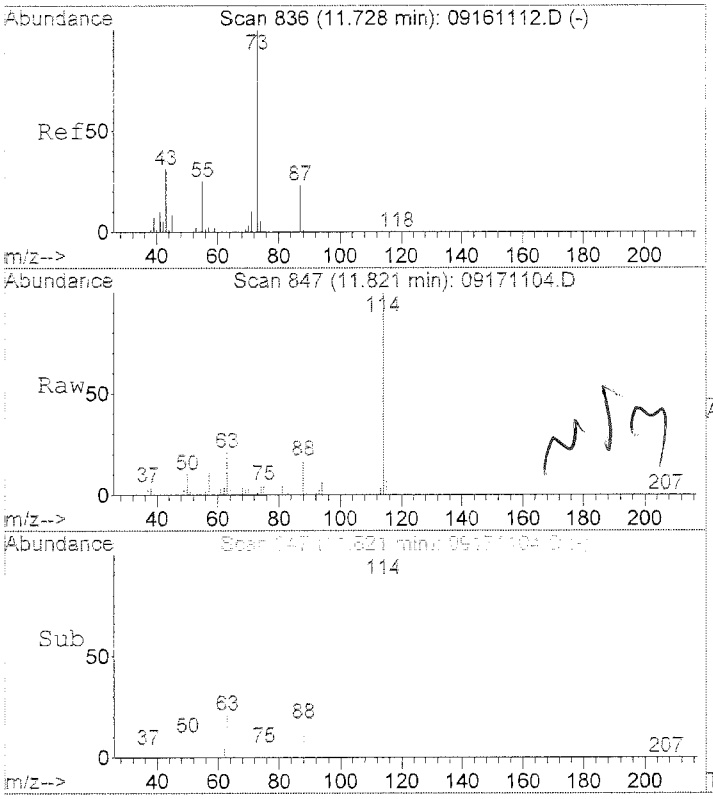


#13
Acetone
Concen: Below Cal
RT: 7.13 min Scan# 290
Delta R.T. 0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 43 Resp: 17561

Ion	Ratio	Lower	Upper
43	100		
58	25.0	19.3	28.9

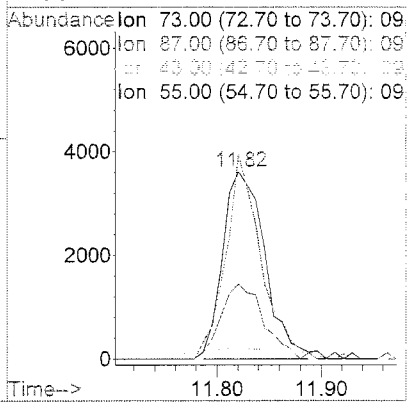


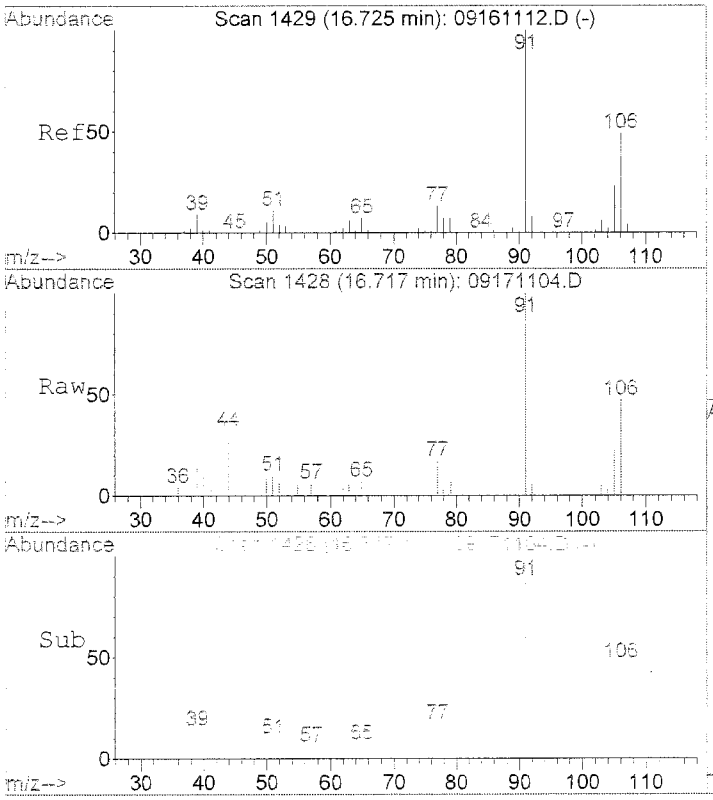


#36
(TAME) tert-Amyl methyl ether
Concen: 0.32 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.10 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 73 Resp: 10246

Ion	Ratio	Lower	Upper
73	100		
87	90.4	1.5	41.5#
43	4.8	24.0	64.0#
55	40.6	7.5	47.5

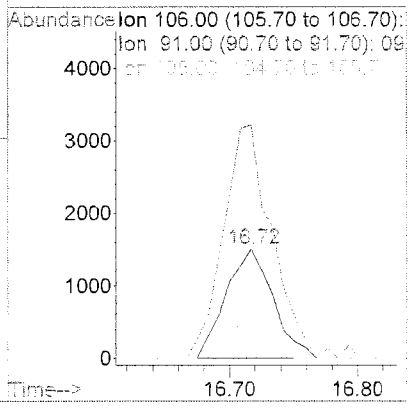


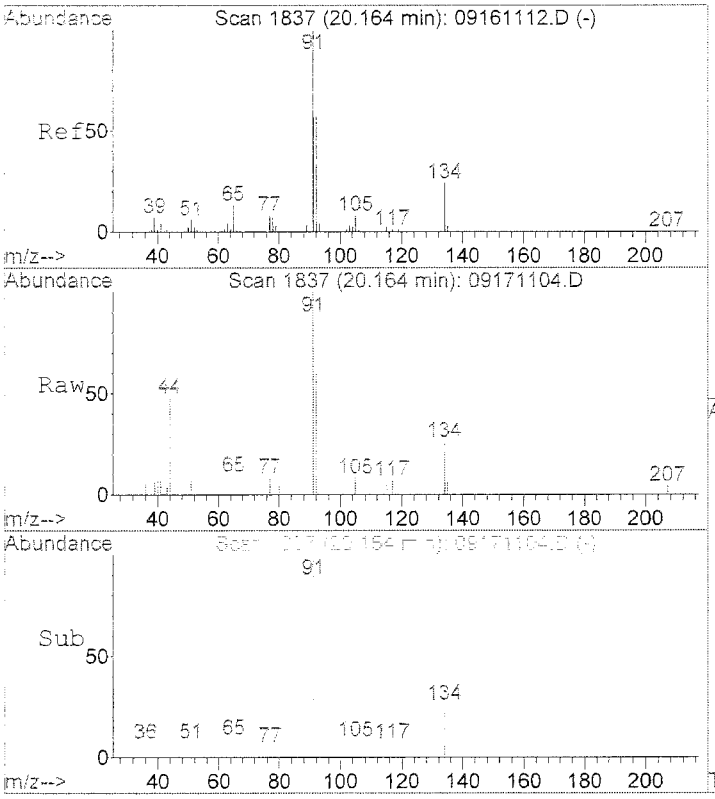


#61
m,p-Xylene
Concen: 0.13 ug/L
RT: 16.72 min Scan# 1428
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:106 Resp: 3834

Ion	Ratio	Lower	Upper
106	100		
91	220.2	160.9	241.3
105	41.6	36.2	54.4

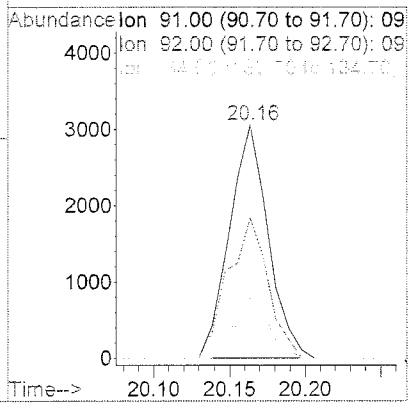


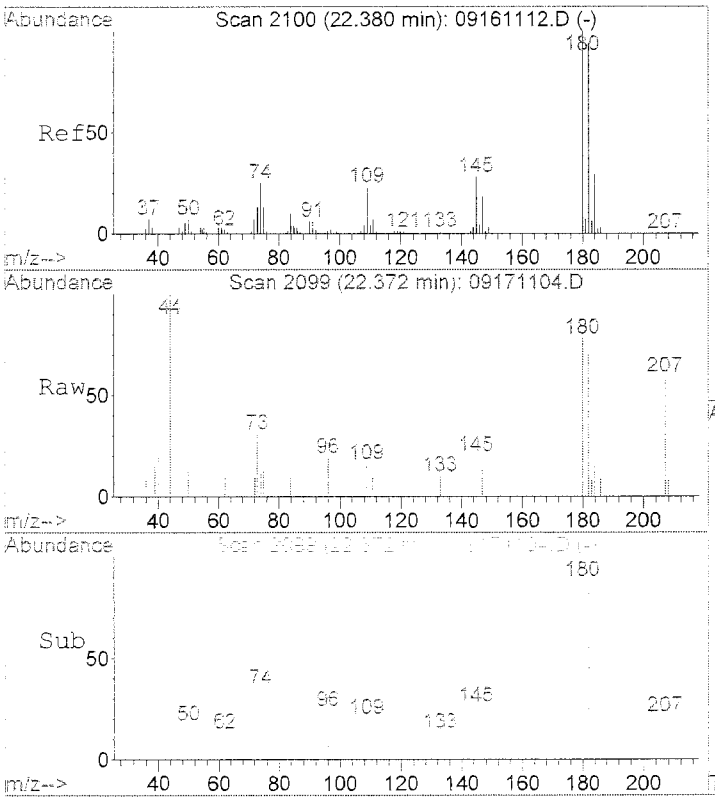


#83
n-Butylbenzene
Concen: 0.10 ug/L
RT: 20.16 min Scan# 1837
Delta R.T. 0.00 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion: 91 Resp: 5442

Ion	Ratio	Lower	Upper
91	100		
92	62.0	46.6	70.0
134	24.0	18.9	28.3

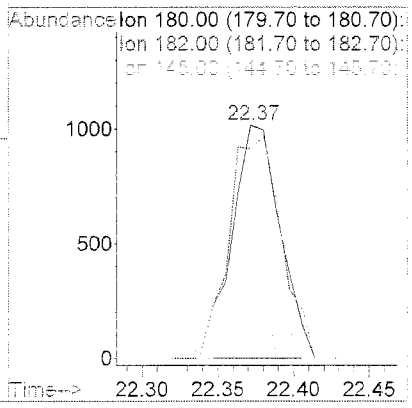


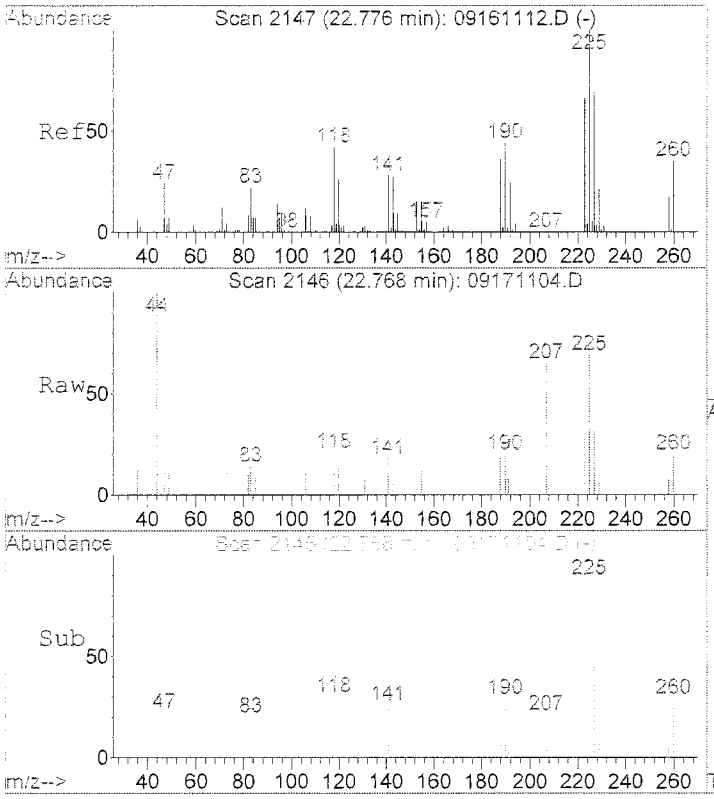


#85
1,2,4-Trichlorobenzene
Concen: 0.13 ug/L
RT: 22.37 min Scan# 2099
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:180 Resp: 2256

Ion	Ratio	Lower	Upper
180	100		
182	103.5	76.7	115.1
145	26.0	23.5	35.3

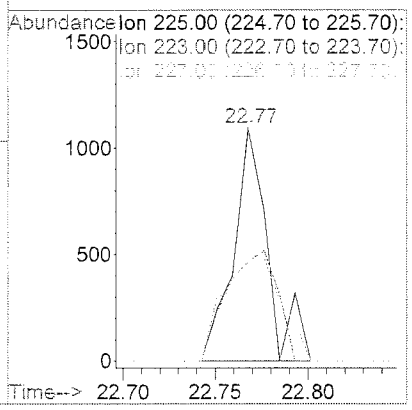


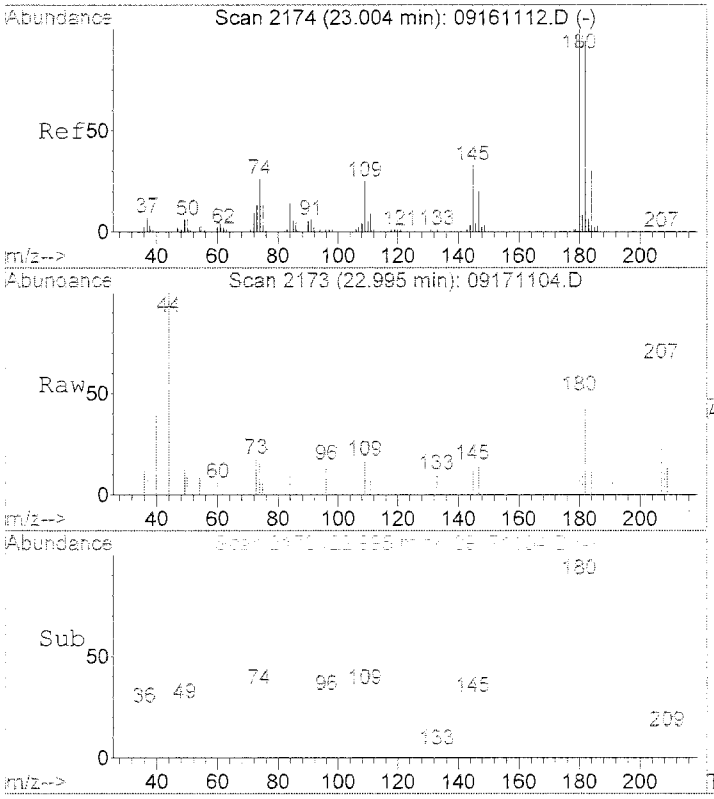


#87
Hexachlorobutadiene
Concen: 0.13 ug/L
RT: 22.77 min Scan# 2146
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:225 Resp: 1401

Ion	Ratio	Lower	Upper
225	100		
223	69.1	50.3	75.5
227	74.1	51.2	76.8

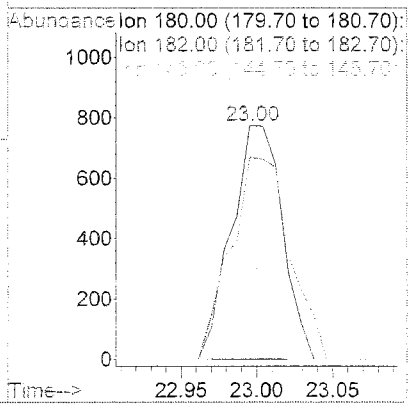




#88
1,2,3-Trichlorobenzene
Concen: 0.13 ug/L
RT: 23.00 min Scan# 2173
Delta R.T. -0.01 min
Lab File: 09171104.D
Acq: 17 Sep 2011 11:36 am

Tgt Ion:180 Resp: 1791

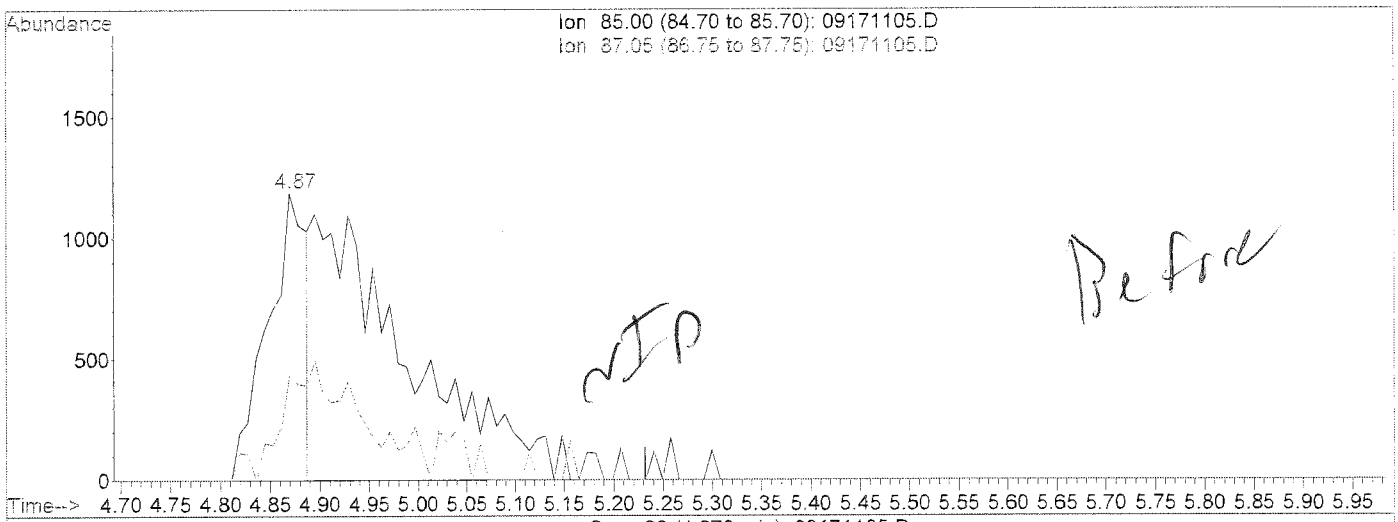
Ion	Ratio	Lower	Upper
180	100		
182	100.6	77.5	116.3
145	32.7	25.1	37.7



Quantitation Report (Qedit)

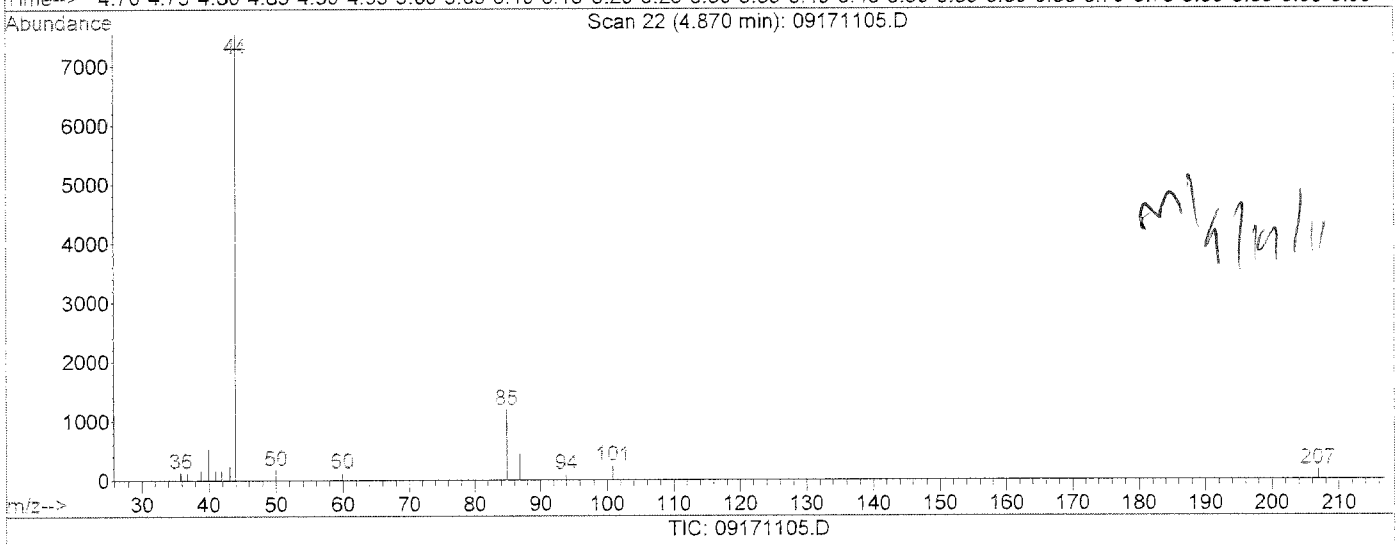
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:43 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



Before

MP



TIC: 09171105.D

MP 9/19/11

(5) Dichlorodifluoromethane (T)

9/20/11

4.87min 0.17ug/L

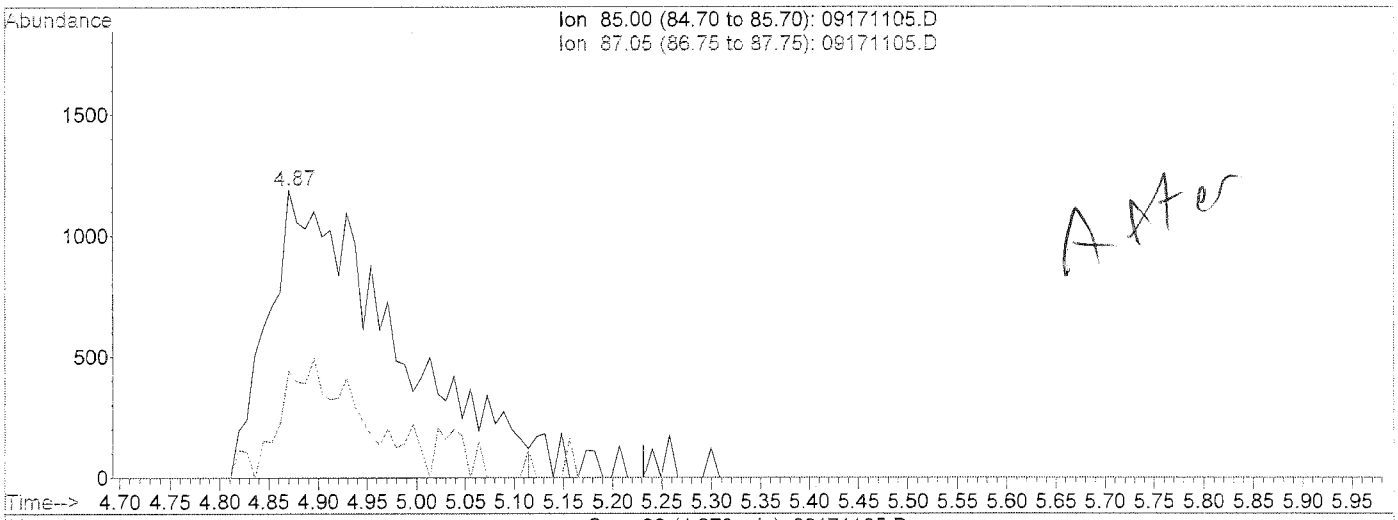
response 3188

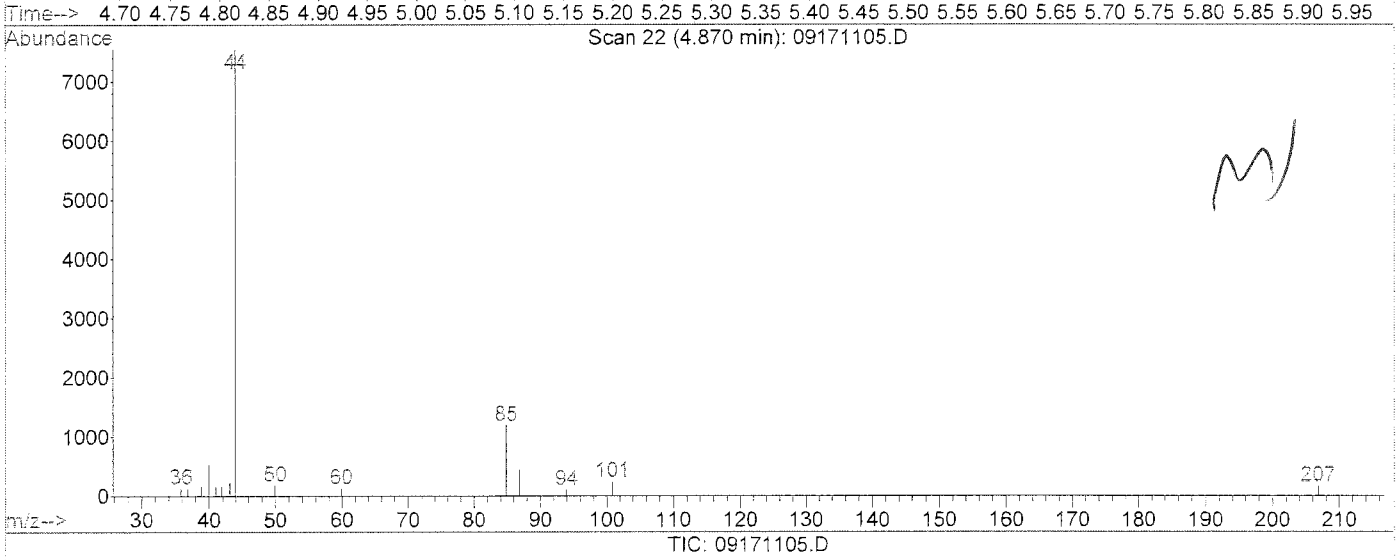
Ion	Exp%	Act%
85.00	100	100
87.05	32.10	46.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:44 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





(5) Dichlorodifluoromethane (T)

4.87min 0.54ug/L m

response 10405

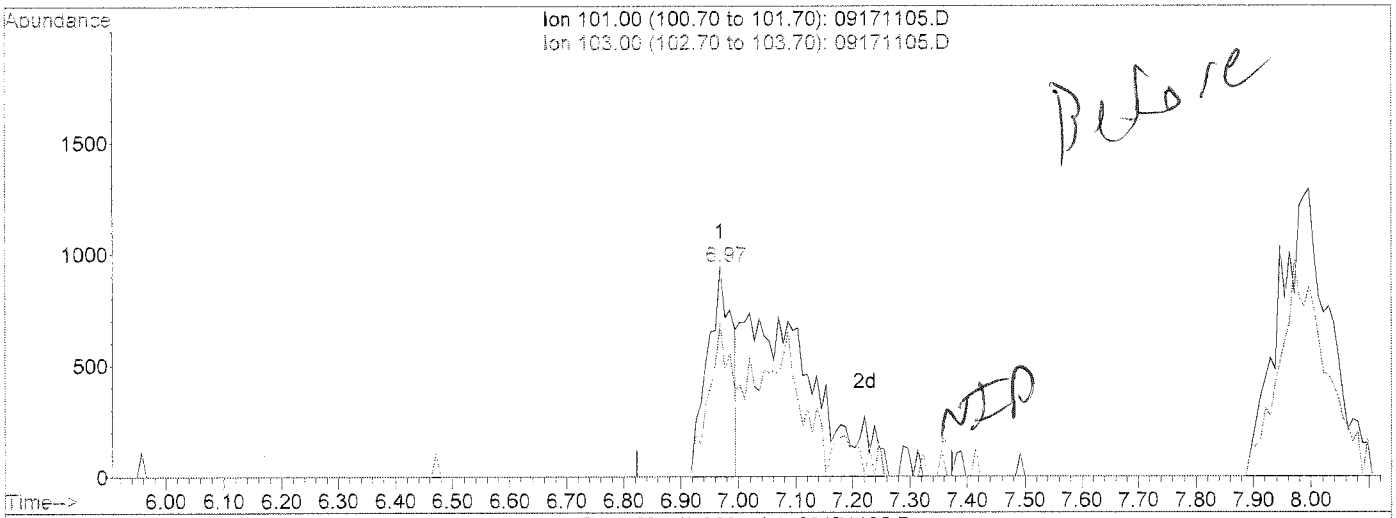
Ion	Exp%	Act%
85.00	100	100
87.05	32.10	14.16
0.00	0.00	0.00
0.00	0.00	0.00

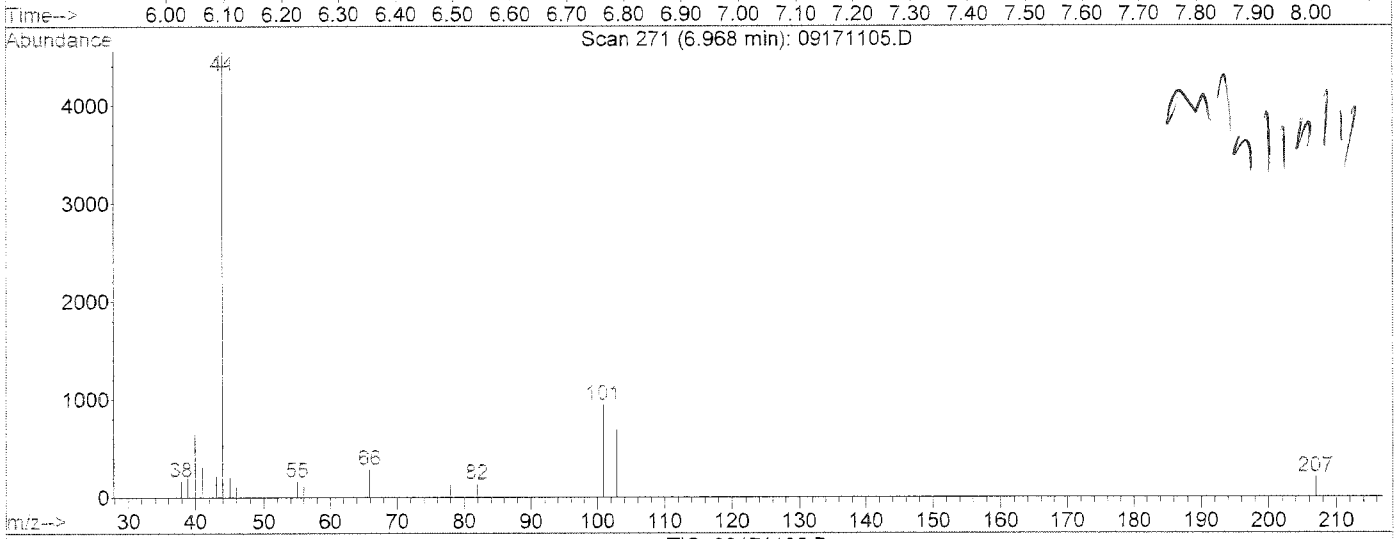
✓ 9/20/11

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:44 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171105.D

(12) Trichlorofluoromethane (T)

6.97min 0.17ug/L

response 2759

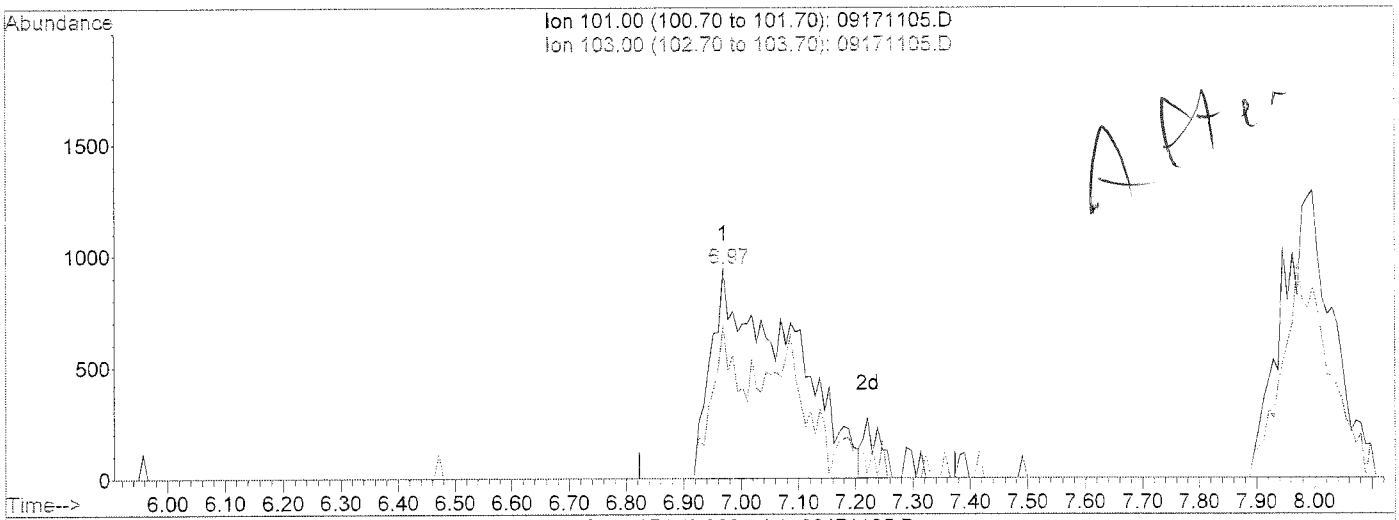
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	72.93
0.00	0.00	0.00
0.00	0.00	0.00

09171105.D 091711.M Mon Sep 19 13:44:24 2011

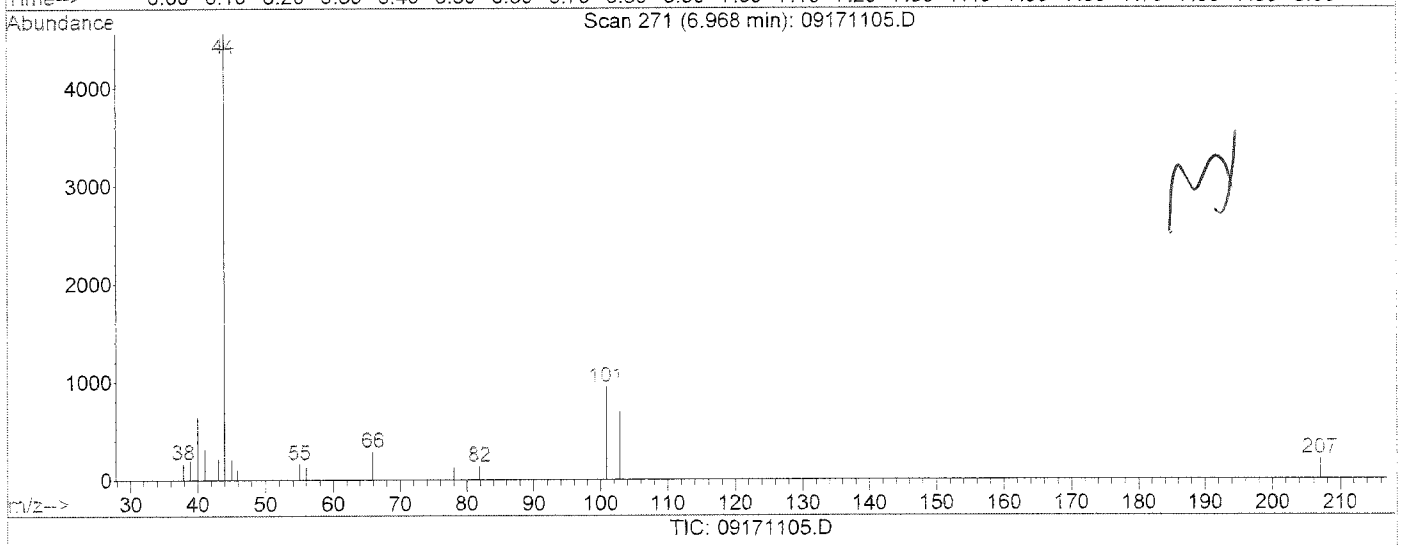
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:44 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



M

(12) Trichlorofluoromethane (T)

6.97min 0.53ug/L m

response 8856

ion	Exp%	Act%
101.00	100	100
103.00	64.00	72.93
0.00	0.00	0.00
0.00	0.00	0.00

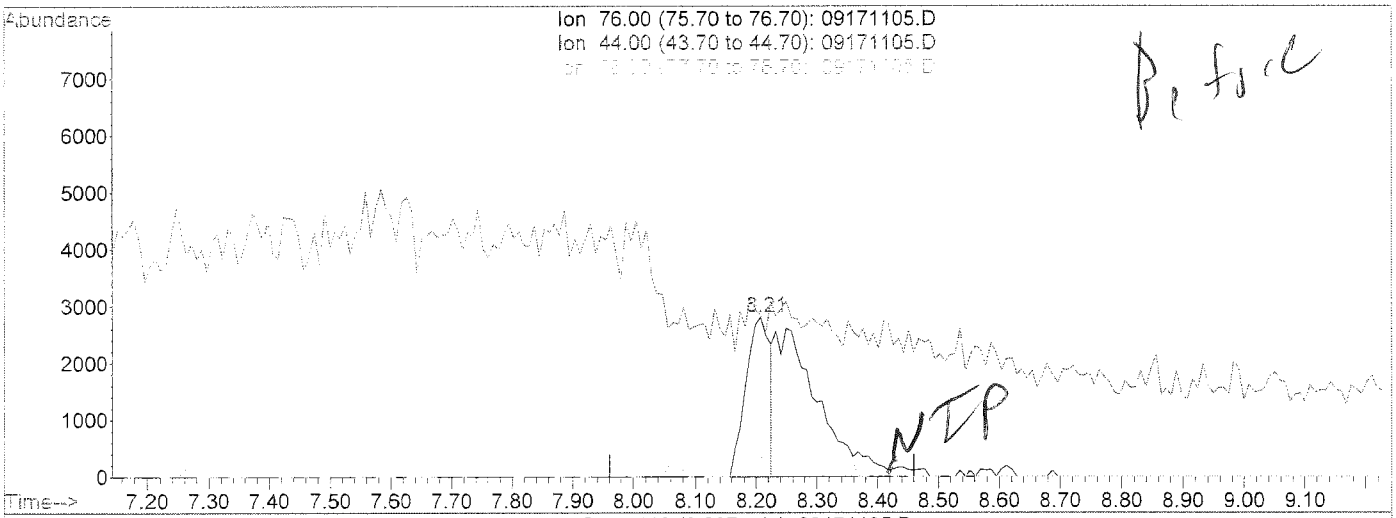
✓ 9/20/11

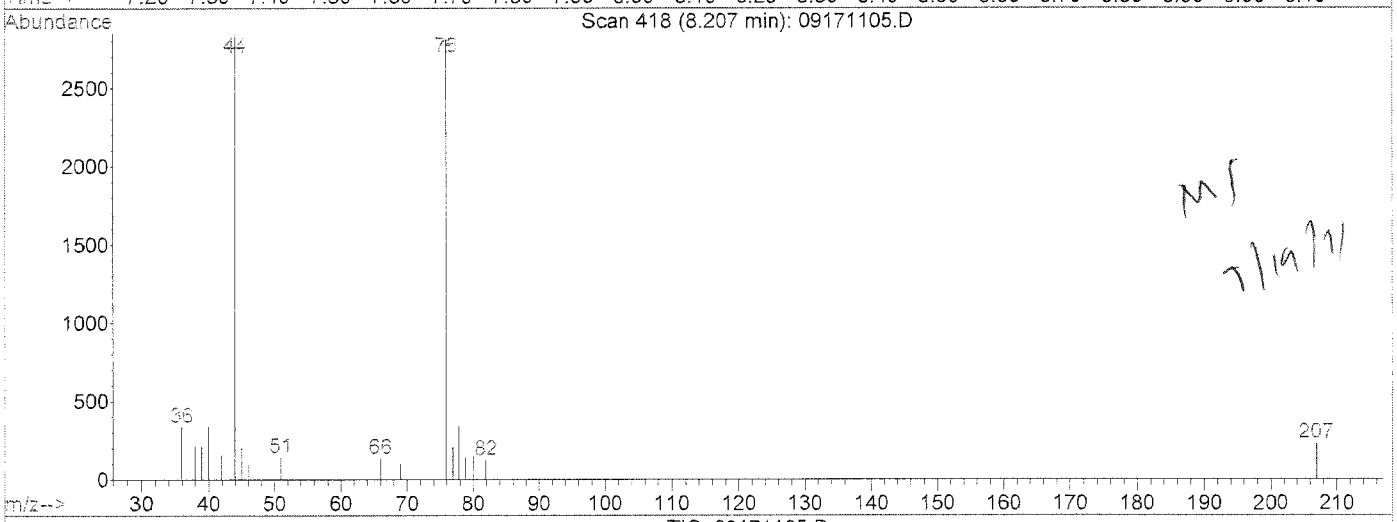
09171105.D 091711.M Mon Sep 19 13:44:38 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:44 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





9/20/11

(19) Carbon Disulfide (T)

8.21min 0.20ug/L

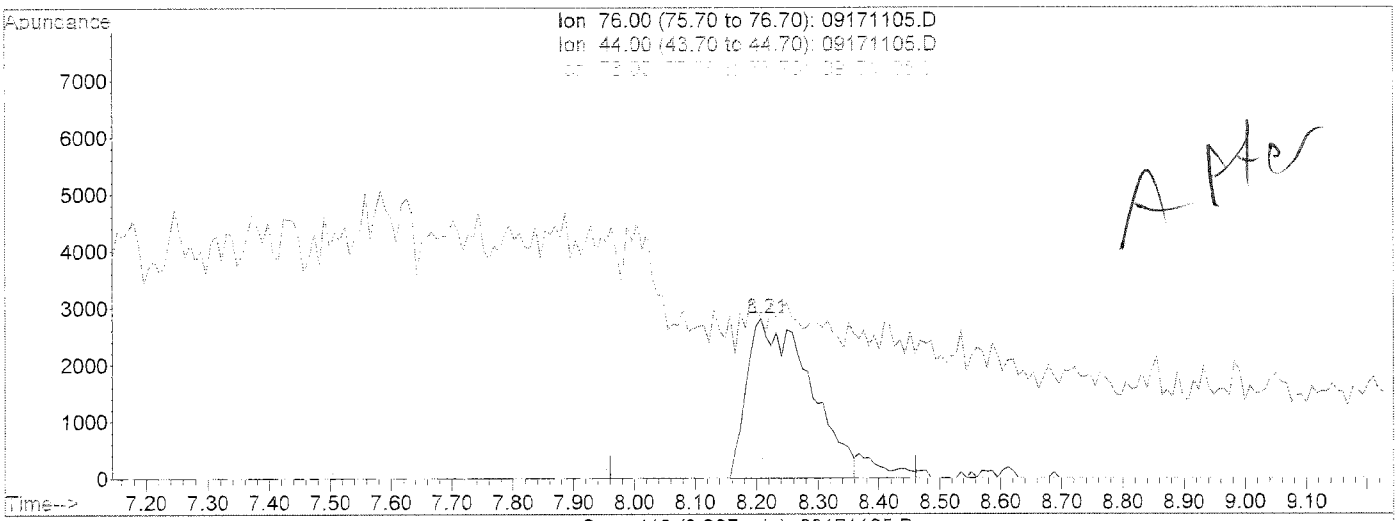
response 7790

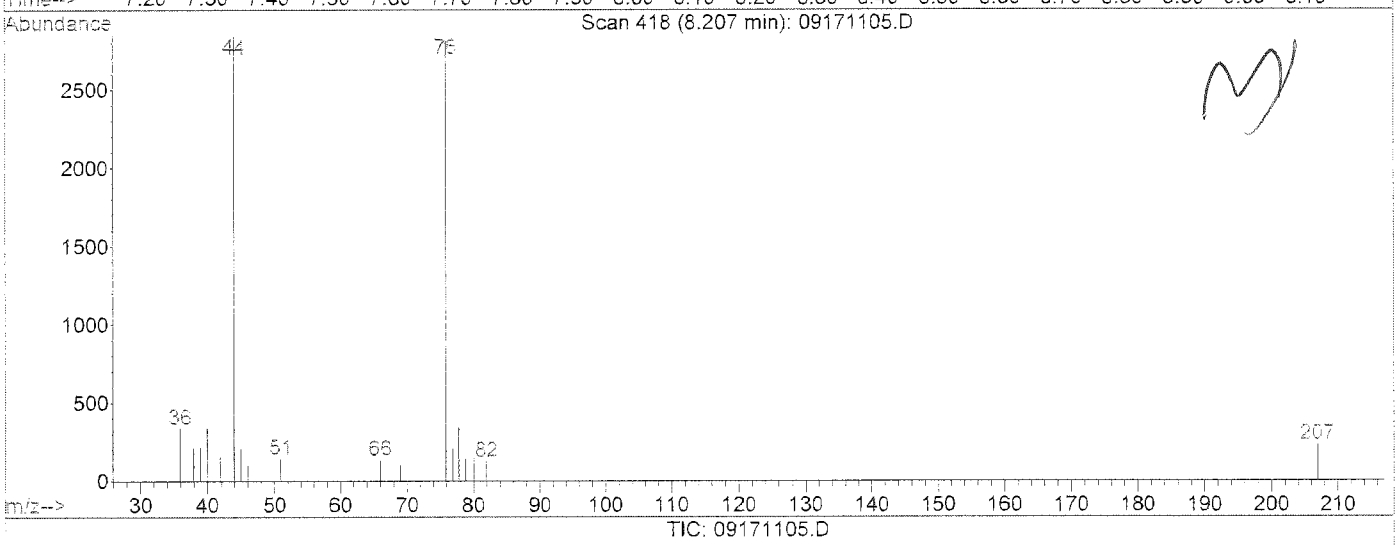
Ion	Exp%	Act%
76.00	100	100
44.00	7.50	24.76#
78.00	4.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:45 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.21min 0.50ug/L m

response 19807

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	9.74#
78.00	4.00	0.00#
0.00	0.00	0.00

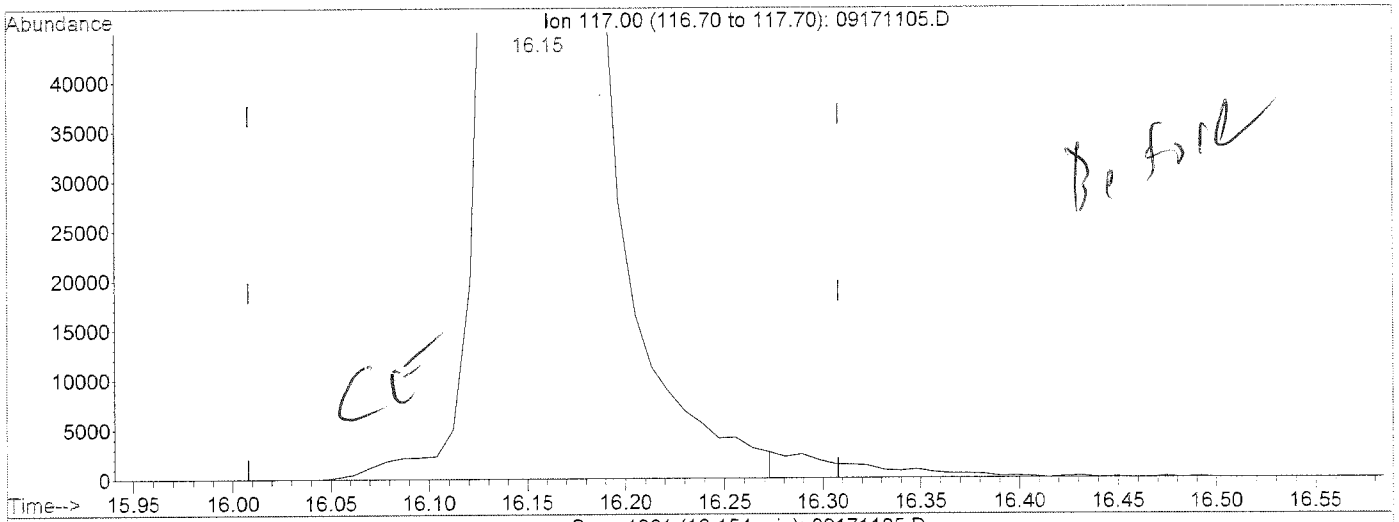
9/20/11

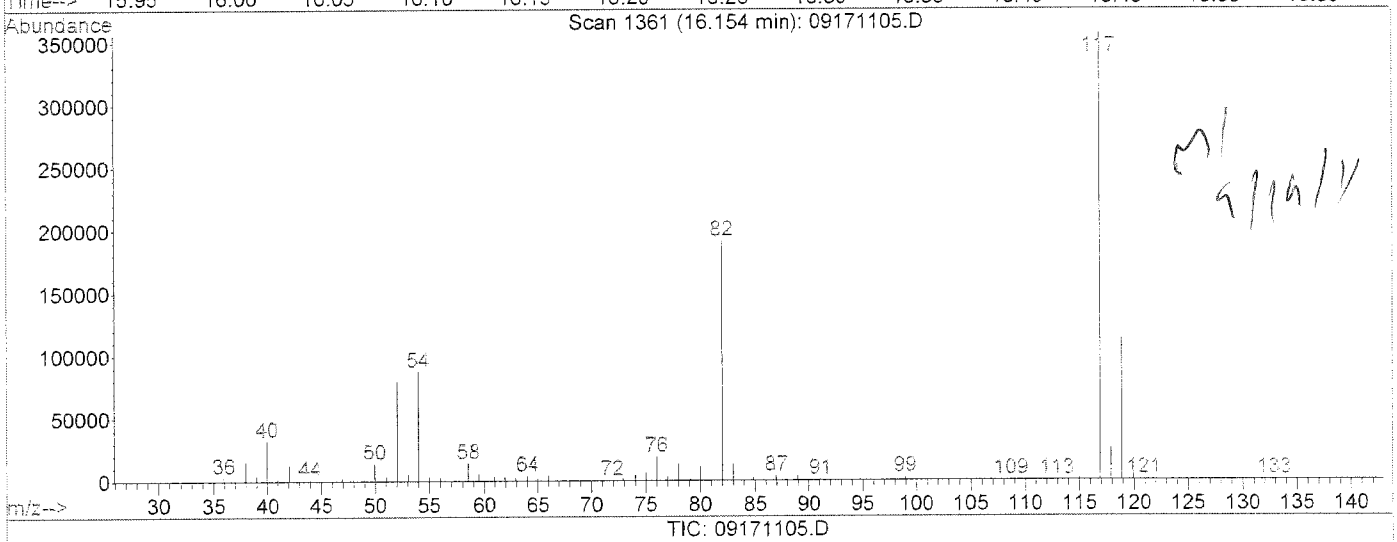
09171105.D 091711.M Mon Sep 19 13:45:19 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:45 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





9/20/11

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L

response 860907

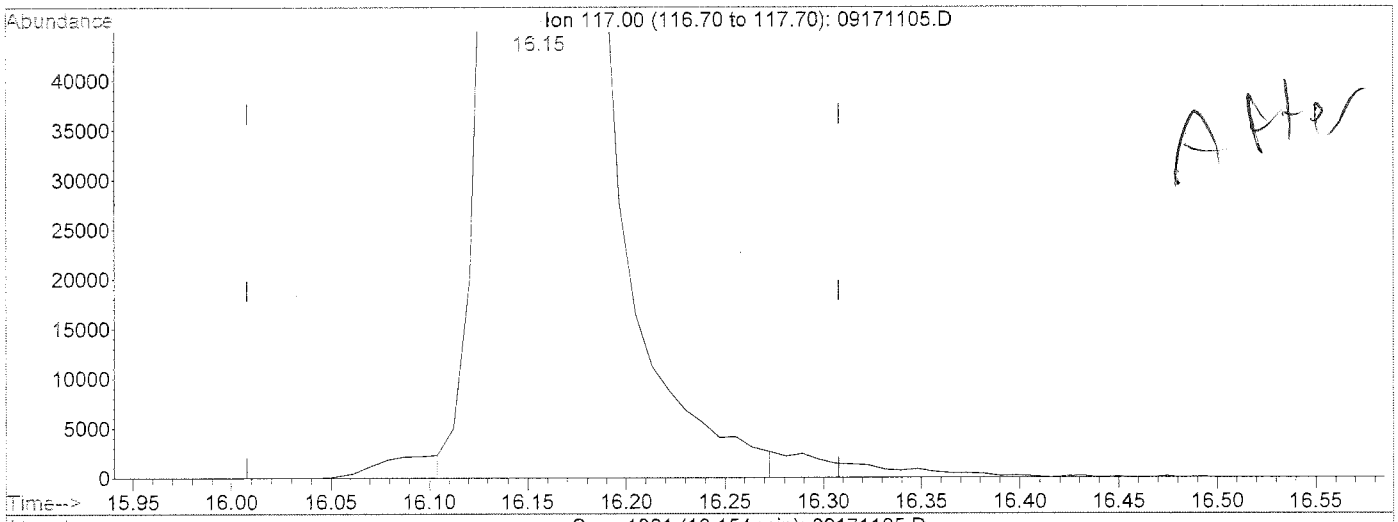
Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

09171105.D 091711.M Mon Sep 19 13:45:38 2011

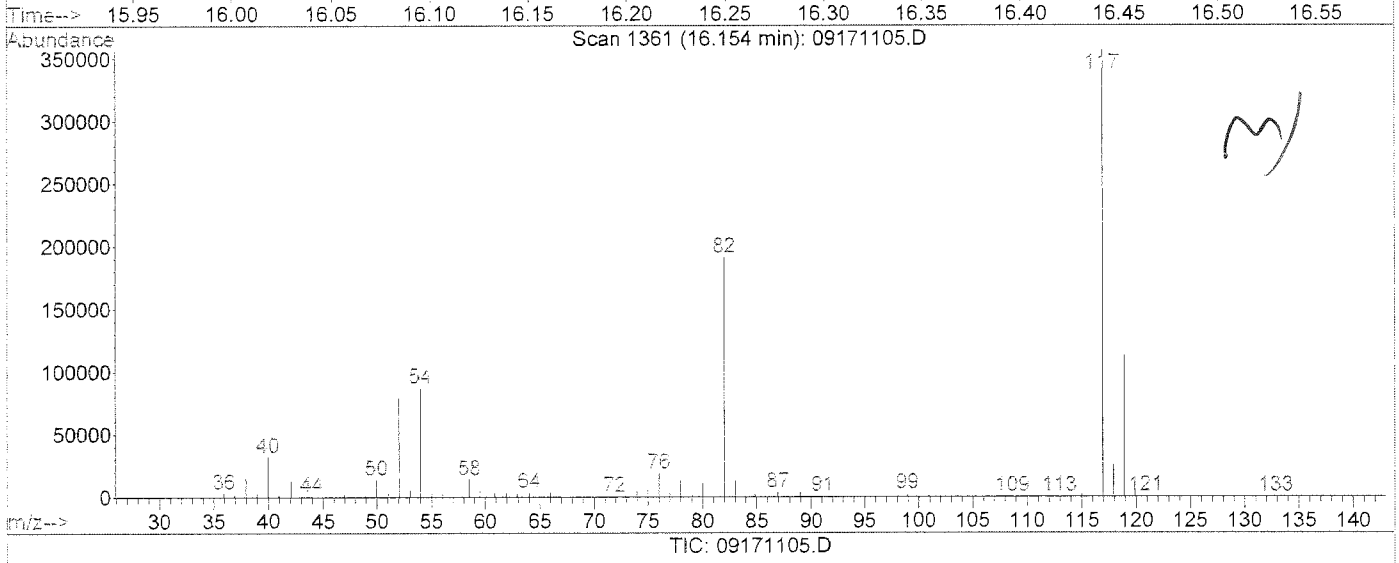
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:45 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171105.D

M

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L m

response 855727

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

09171105.D 091711.M Mon Sep 19 13:45:47 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:46 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11 re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	108918	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	587744	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	988848	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	855727m	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	373306	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	332999	24.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.44%	
50) Toluene-d8 (surr)	14.20	98	1039610	24.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.28%	
64) 4-Bromofluorobenzene (surr	17.83	95	396967	25.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.40%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	907	Below Cal #	86
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.87	85	10405m	0.54 ug/L	
6) Chloromethane	0.00	50	0	N.D. d	
7) Vinyl Chloride	5.44	62	11786	0.58 ug/L #	79
8) 1,3-Butadiene	5.56	54	6996	0.55 ug/L	87
9) Bromomethane	5.98	94	9060	0.57 ug/L	99
10) Chloroethane	6.18	64	6813	0.55 ug/L #	77
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	6.97	101	8856m	0.53 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.76	142	13036	0.53 ug/L #	95
16) 1,1-Dichloroethene	7.70	96	8399	0.57 ug/L	93
17) Methylene Chloride	7.87	84	11902	0.63 ug/L	99
18) Freon 113	8.00	101	7826	0.55 ug/L #	83
19) Carbon Disulfide	8.21	76	19807m	0.50 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	10132	0.52 ug/L	98
21) MTBE	8.88	73	16671	0.51 ug/L	96
22) 1,1-Dichloroethane	9.07	63	18005	0.50 ug/L	98
23) Vinyl Acetate	9.21	43	11343	0.45 ug/L #	94
24) n-Hexane	9.56	86	2426	0.65 ug/L	100
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.61	45	39413	0.53 ug/L	90
27) cis-1,2-Dichloroethene	9.80	96	11125	0.53 ug/L	97
28) Bromochloromethane	10.00	128	4219	0.47 ug/L	92
29) Chloroform	10.06	83	17088	0.50 ug/L	97
30) 2,2-Dichloropropane	10.17	77	7381	0.50 ug/L	87
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	22360	0.50 ug/L	97
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.90	62	9890	0.48 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	11537	0.50 ug/L	97
36) (TAME) tert-Amyl methyl et	11.72	73	15241	0.49 ug/L	96
38) 1,1-Dichloropropene	11.26	75	12494	0.52 ug/L #	91
39) Carbon Tetrachloride	11.50	117	10231	0.49 ug/L	95
0) Benzene	11.55	78	36473	0.53 ug/L	99

(#) = qualifier out of range (m) = manual integration

MI 9/14/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:46 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

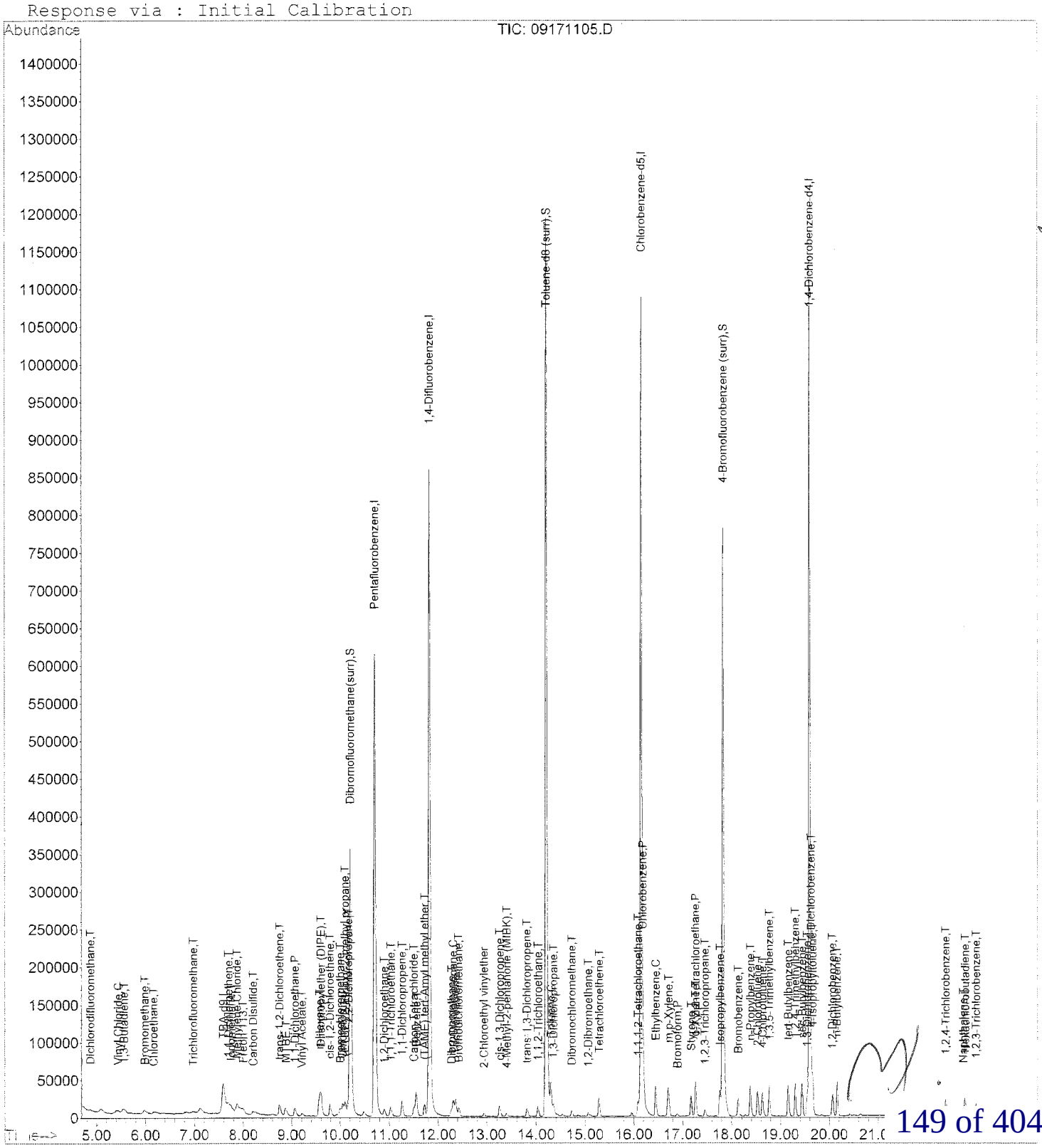
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.27	93	4530	0.47 ug/L	98
42) 1,2-Dichloropropane	12.31	63	9999	0.52 ug/L	99
43) Trichloroethene	12.36	95	10149	0.54 ug/L	93
44) Bromodichloromethane	12.43	83	10346	0.46 ug/L #	97
45) 2-Chloroethyl vinylether	12.94	63	2509	0.40 ug/L	89
46) cis-1,3-Dichloropropene	13.26	75	10637	0.43 ug/L	93
47) 4-Methyl-2-pentanone (MIBK	13.40	43	4945	0.44 ug/L	93
48) trans-1,3-Dichloropropene	13.81	75	7841	0.41 ug/L	91
49) 1,1,2-Trichloroethane	14.04	97	5473	0.47 ug/L	97
51) Toluene	14.30	92	21905	0.56 ug/L	95
53) 1,3-Dichloropropane	14.36	76	10140	0.52 ug/L	94
54) 2-Hexanone	0.00	43	0	N.D. d	
55) Dibromochloromethane	14.74	129	5644	0.42 ug/L	98
56) 1,2-Dibromoethane	15.06	107	5000	0.44 ug/L	87
57) Tetrachloroethene	15.29	164	7511	0.56 ug/L	98
58) 1,1,1,2-Tetrachloroethane	16.09	131	7329	0.49 ug/L #	61
59) Chlorobenzene	16.20	112	23822	0.53 ug/L #	72
60) Ethylbenzene	16.46	91	39913	0.56 ug/L	99
61) m,p-Xylene	16.72	106	17446	0.60 ug/L	99
62) Styrene	17.17	104	18499	0.46 ug/L	97
63) o-Xylene	17.28	106	15331	0.56 ug/L	95
66) Bromoform	16.90	173	2018	0.64 ug/L #	74
67) 1,1,2,2-Tetrachloroethane	17.26	83	5335	0.47 ug/L #	96
68) 1,2,3-Trichloropropane	17.46	110	1552	0.50 ug/L #	86
69) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
70) Isopropylbenzene	17.77	105	32706	0.52 ug/L	96
71) Bromobenzene	18.13	156	8539	0.52 ug/L	98
72) n-Propylbenzene	18.38	91	43506	0.55 ug/L	97
73) 2-Chlorotoluene	18.53	91	27940	0.56 ug/L	96
74) 4-Chlorotoluene	18.63	91	25701	0.52 ug/L	98
75) 1,3,5-Trimethylbenzene	18.78	105	28592	0.53 ug/L	100
76) tert-Butylbenzene	19.15	119	23084	0.51 ug/L	97
77) 1,2,4-Trimethylbenzene	19.30	105	29388	0.53 ug/L	99
78) sec-Butylbenzene	19.44	105	40251	0.57 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	16093	0.53 ug/L	96
80) 1,4-Dichlorobenzene	19.63	146	16951	0.56 ug/L #	88
81) 4-Isopropyltoluene	19.66	119	30543	0.54 ug/L	97
82) 1,2-Dichlorobenzene	20.07	146	13220	0.50 ug/L	96
83) n-Butylbenzene	20.16	91	31649	0.58 ug/L	94
84) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
85) 1,2,4-Trichlorobenzene	22.37	180	8797	0.50 ug/L	97
86) Naphthalene	22.73	128	9541	0.41 ug/L	98
87) Hexachlorobutadiene	22.77	225	6341	0.58 ug/L	90
88) 1,2,3-Trichlorobenzene	23.01	180	6469	0.46 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171105.D Vial: 5
Acq On : 17 Sep 2011 12:07 pm Operator: KH
Sample : 0.5 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:46 2011 Quant Results File: 091711.RES

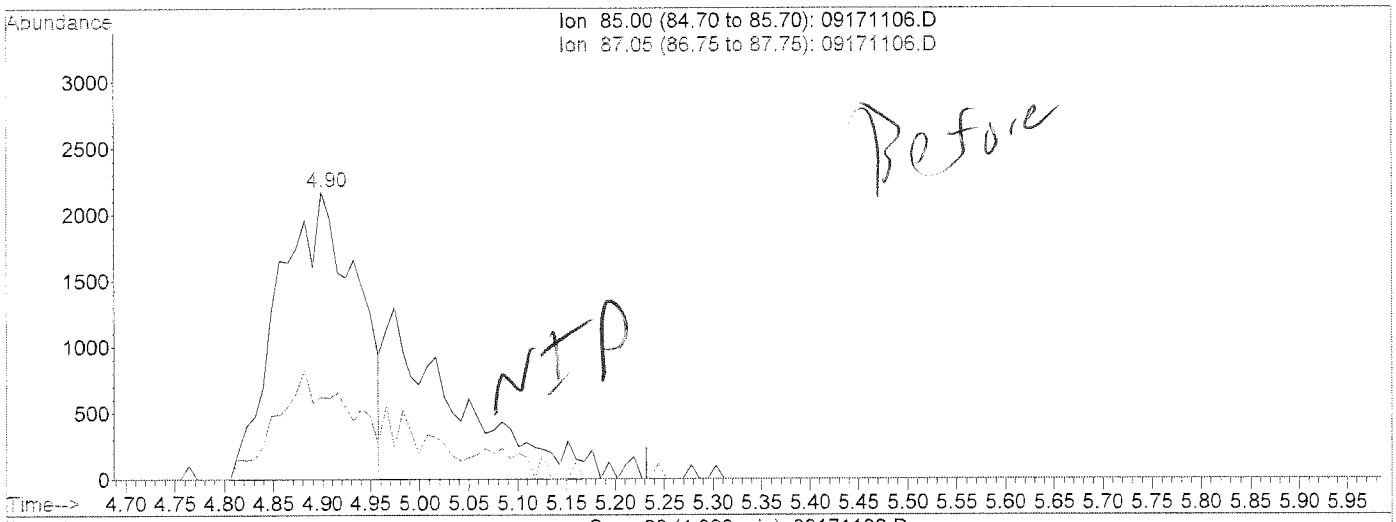
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

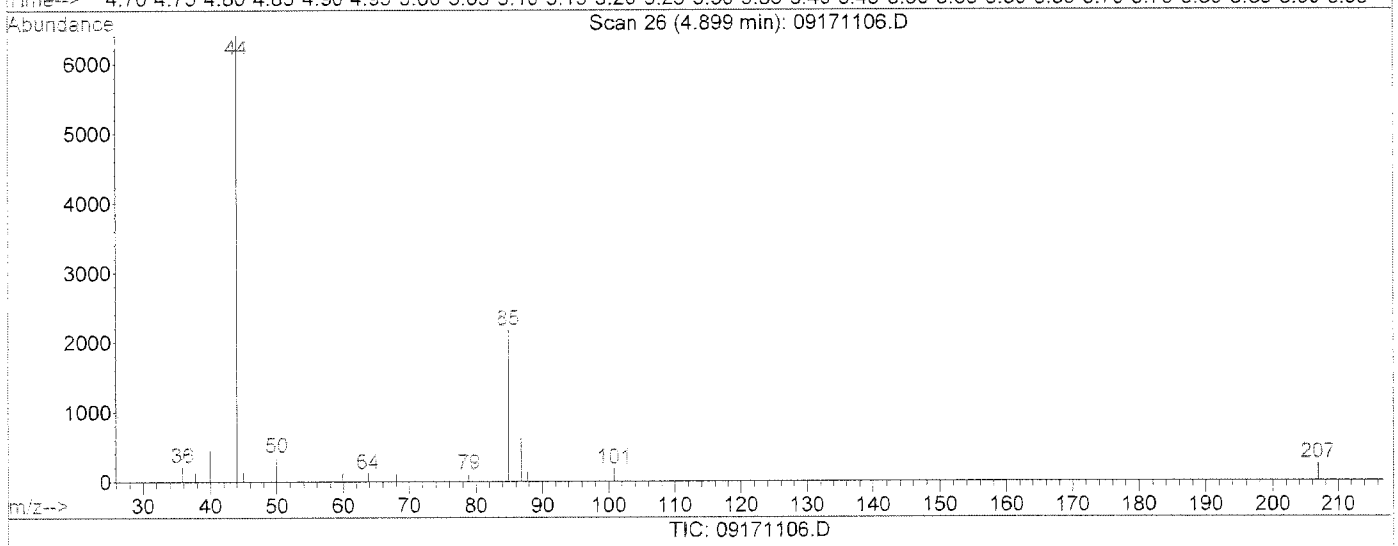


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:48 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

(5) Dichlorodifluoromethane (T)

4.90min 0.66ug/L

response 12240

Ion	Exp%	Act%
85.00	100	100
87.05	32.10	22.74
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

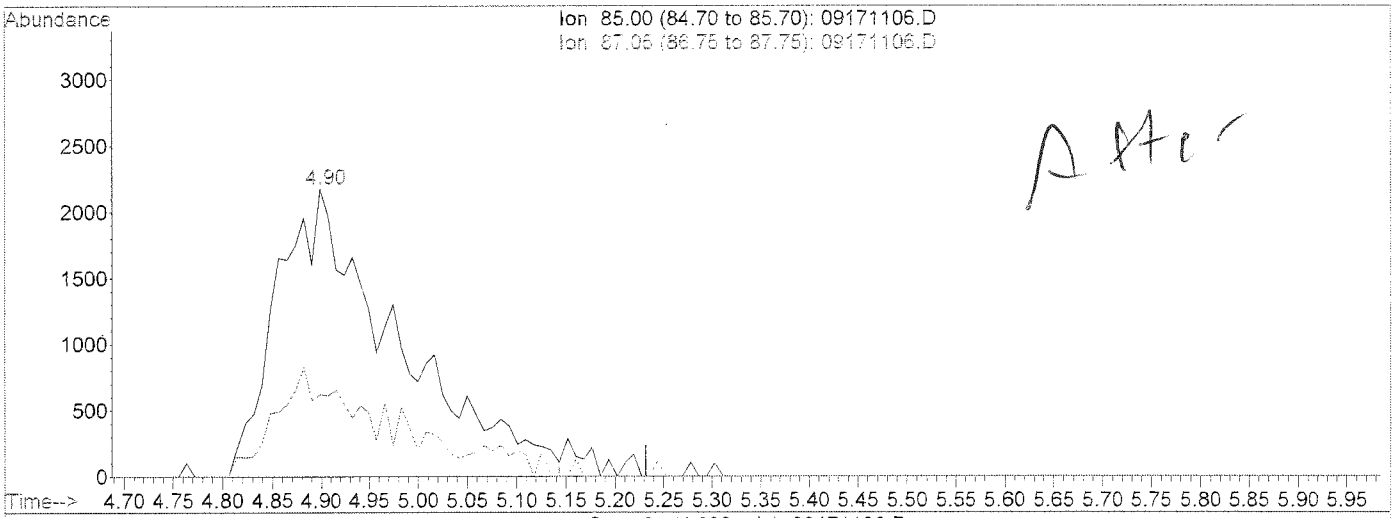
MSa 9/14/11

09171106.D 091711.M Mon Sep 19 13:48:24 2011

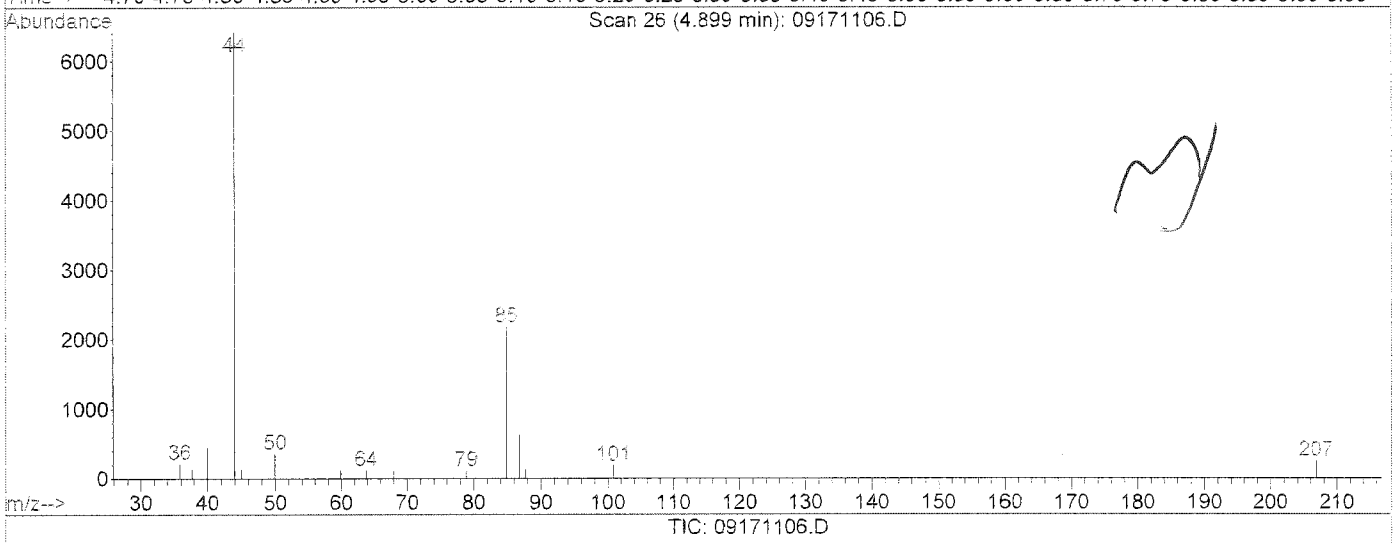
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:48 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171106.D

(5) Dichlorodifluoromethane (T)

4.90min 0.99ug/L m

response 18379

Ion	Exp%	Act%
85.00	100	100
87.05	32.10	15.14
0.00	0.00	0.00
0.00	0.00	0.00

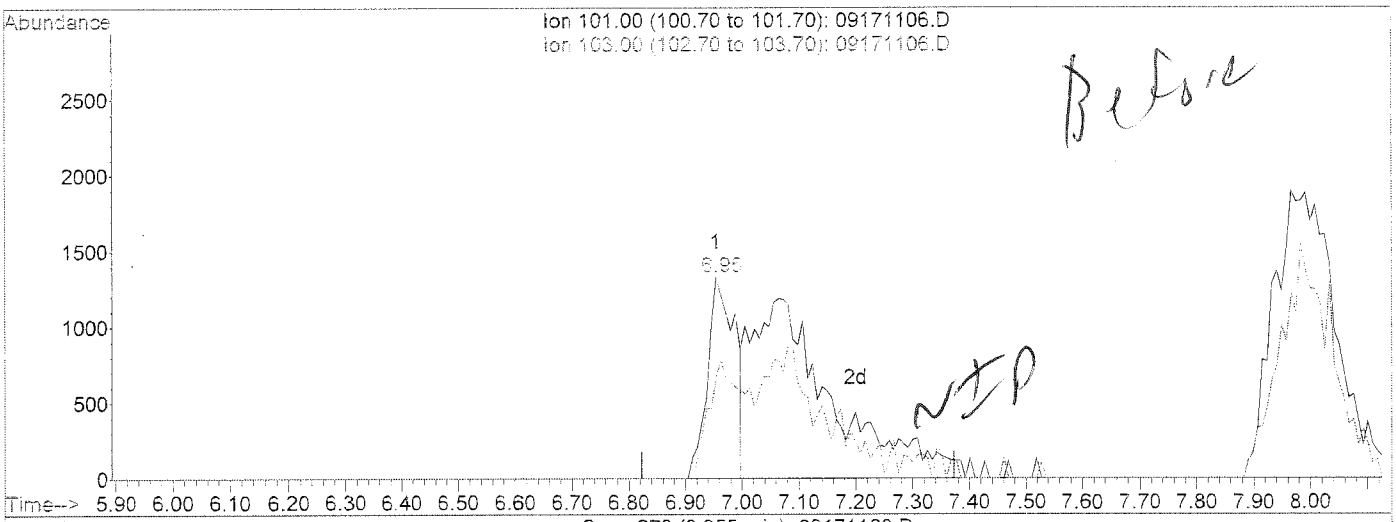
✓ 9/20/11

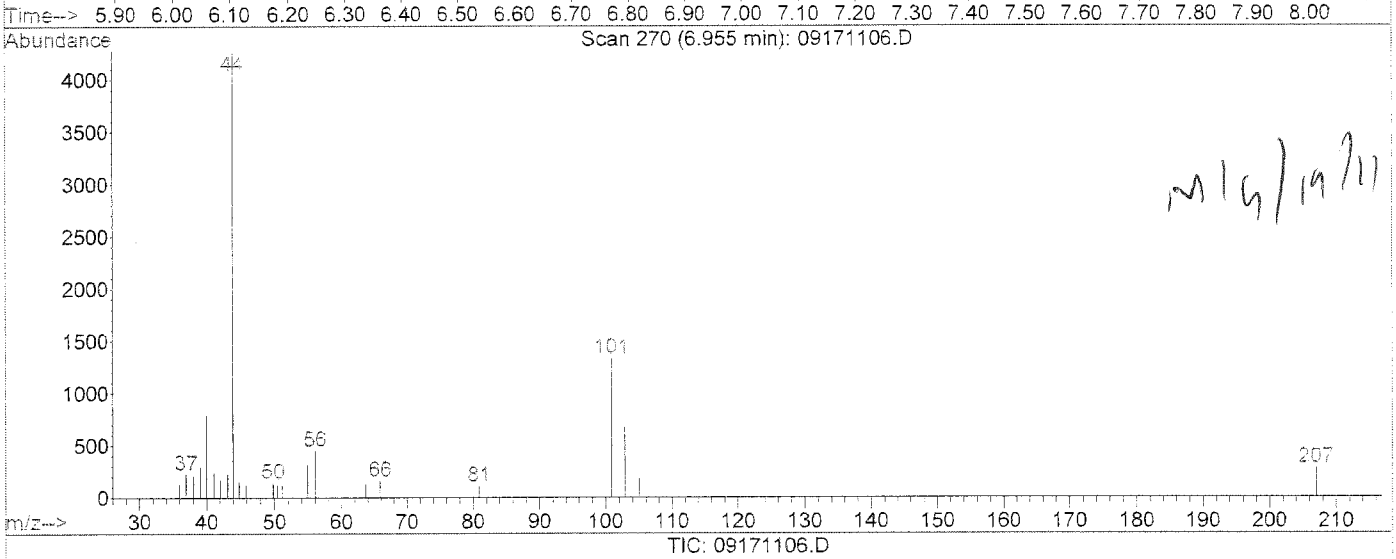
09171106.D 091711.M Mon Sep 19 13:48:35 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:48 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

MLG/19/11

(12) Trichlorofluoromethane (T)

6.95min 0.28ug/L

response 4449

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	50.45#
0.00	0.00	0.00
0.00	0.00	0.00

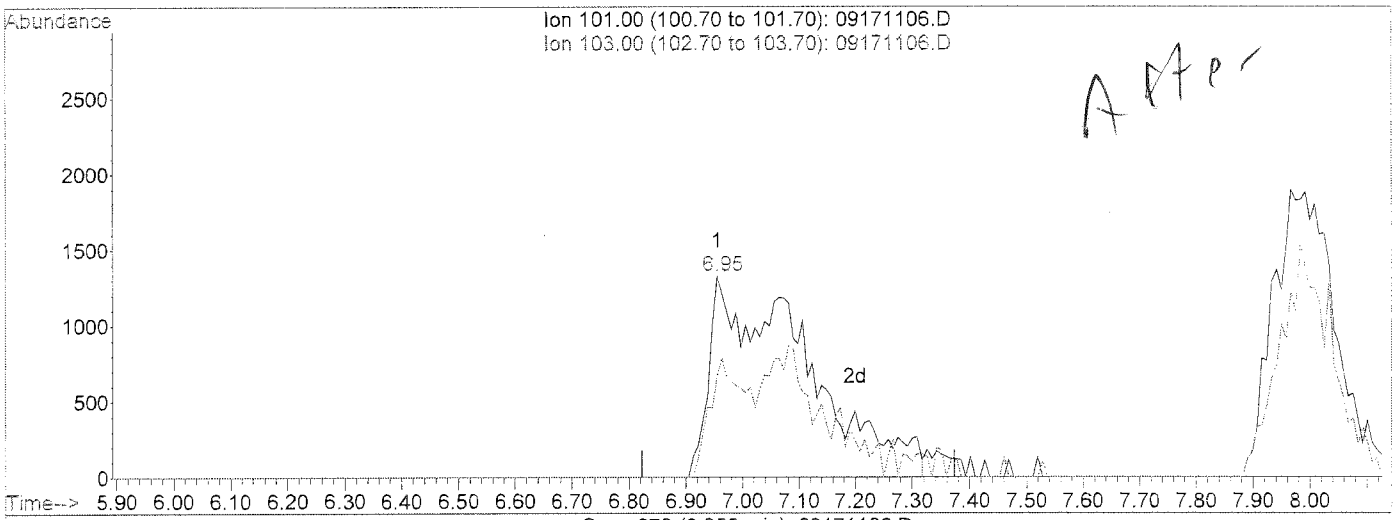
✓ 9/20/11

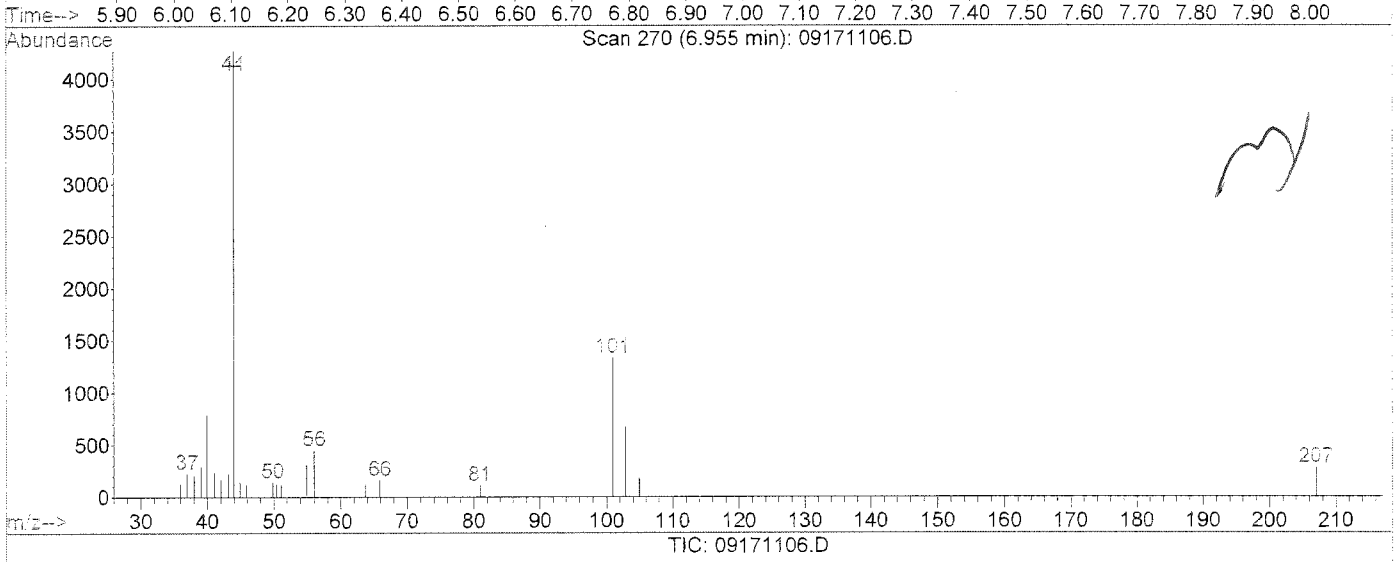
09171106.D 091711.M Mon Sep 19 13:48:39 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:48 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171106.D

(12) Trichlorofluoromethane (T)

6.95min 0.97ug/L m

response 15695

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	50.45#
0.00	0.00	0.00
0.00	0.00	0.00

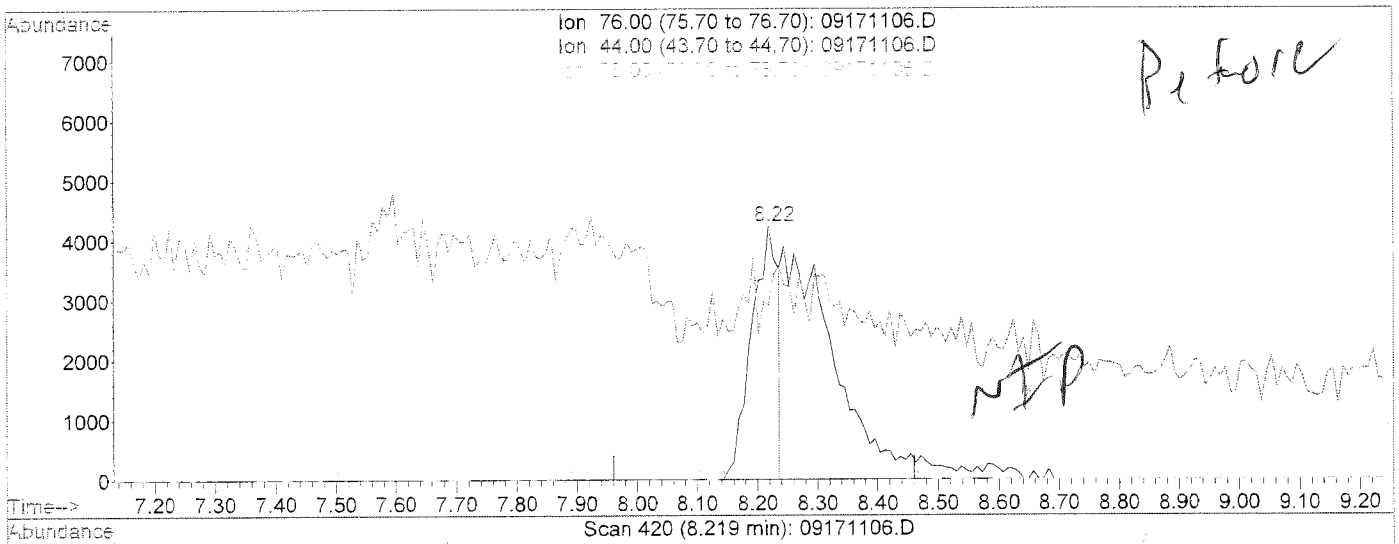
✓ 9/20/11

09171106.D 091711.M Mon Sep 19 13:49:02 2011

Quantitation Report (Qedit)

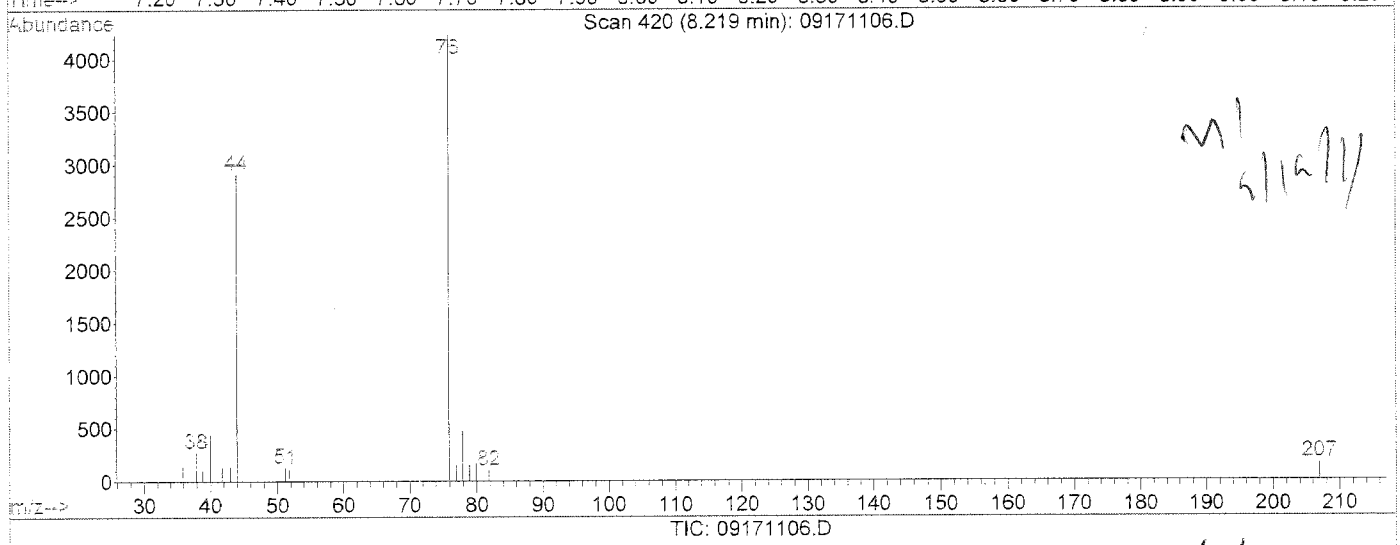
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:48 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



Before

NP



TIC: 09171106.D

M 9/19/11

9/20/11

(19) Carbon Disulfide (T)

8.22min 0.34ug/L

response 13030

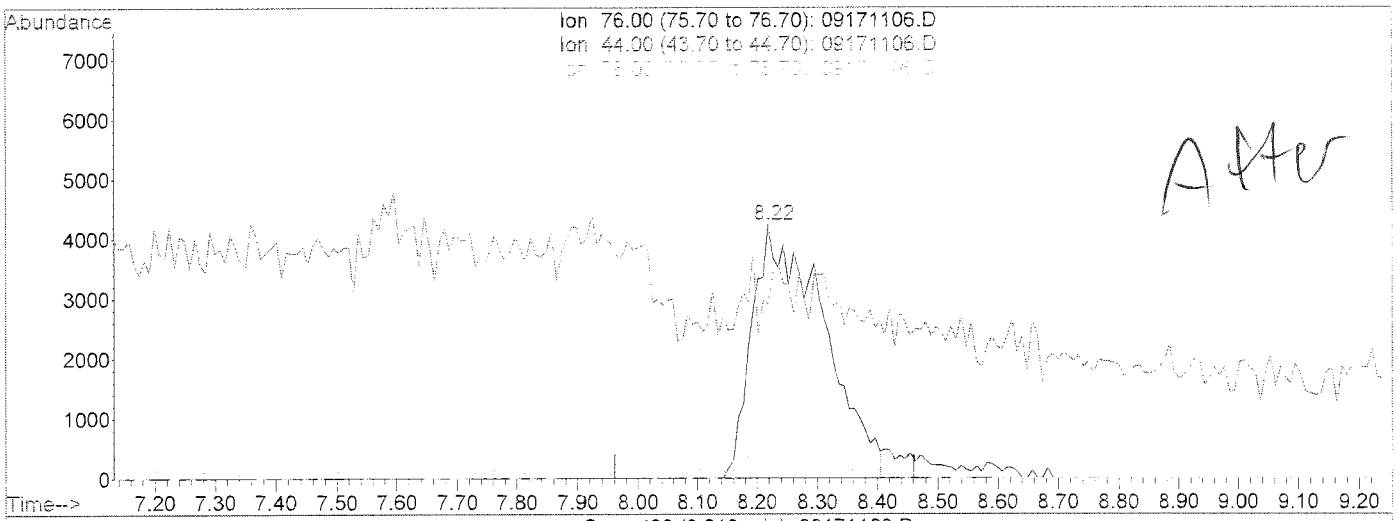
Ion	Exp%	Act%
76.00	100	100
44.00	7.50	11.83#
78.00	4.00	13.47#
0.00	0.00	0.00

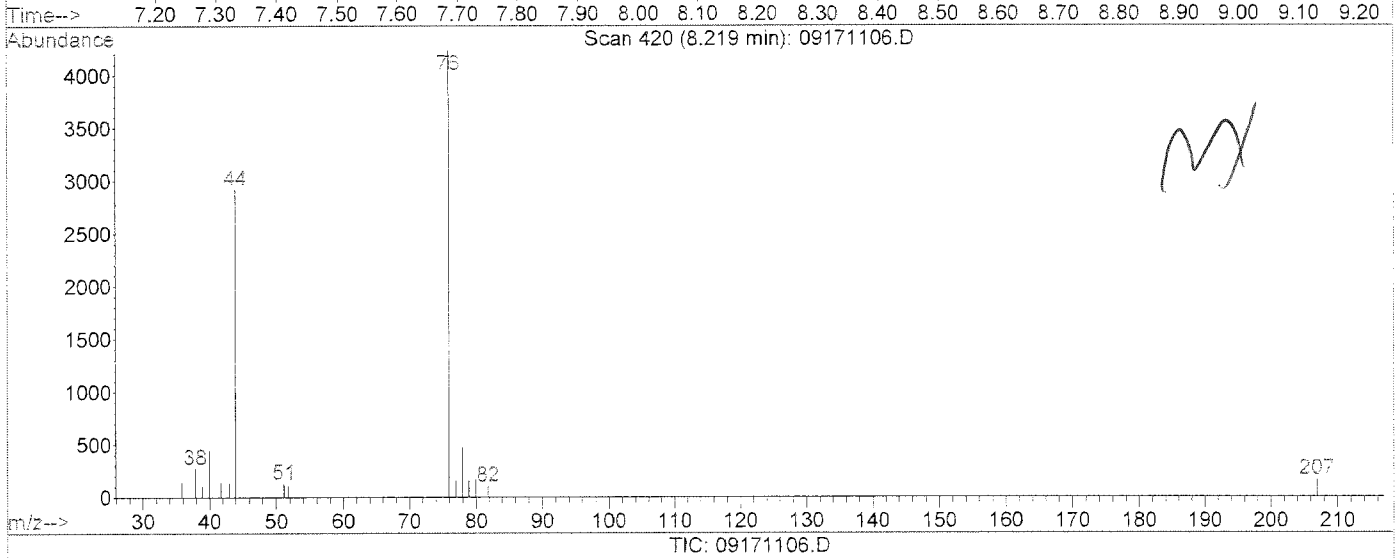
09171106.D 091711.M Mon Sep 19 13:49:09 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:49 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.22min 0.91ug/L m

response 34853

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	4.42#
78.00	4.00	5.04#
0.00	0.00	0.00

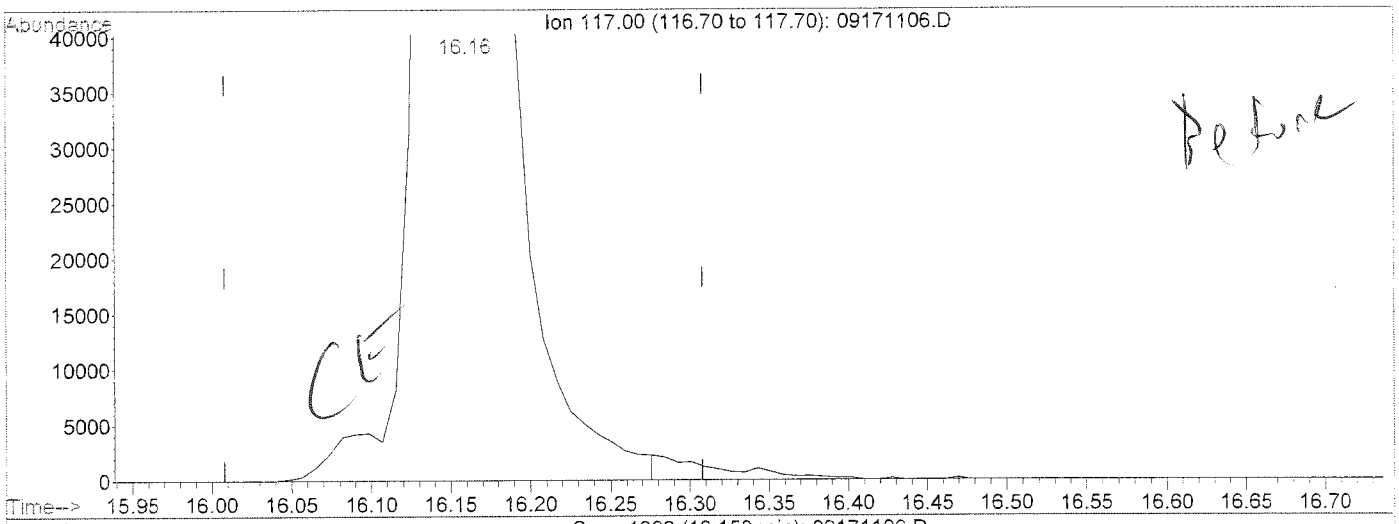
✓ 9/20/11

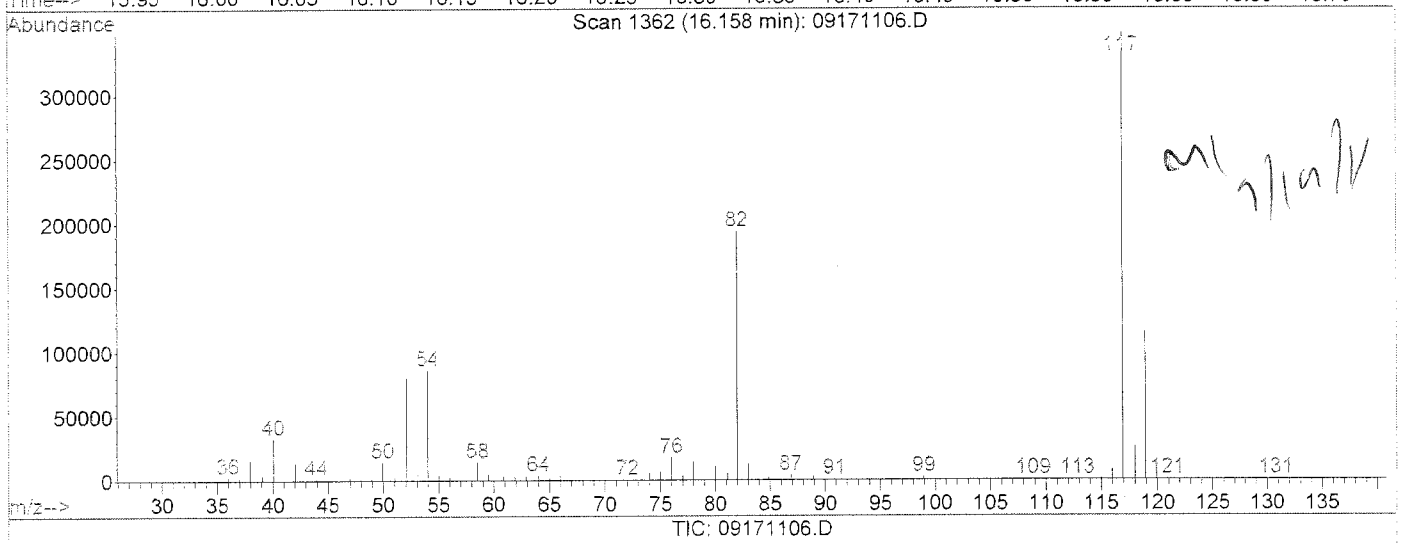
09171106.D 091711.M Mon Sep 19 13:49:22 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:49 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





(52) Chlorobenzene-d5 (I)

16.16min 25.00ug/L

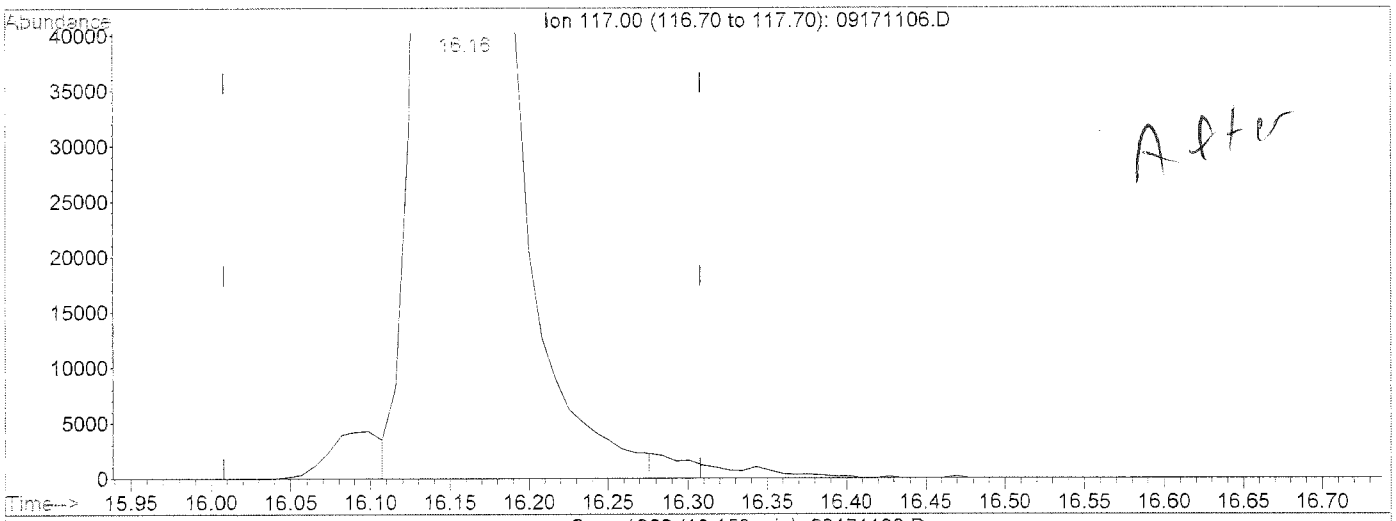
response 846474

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

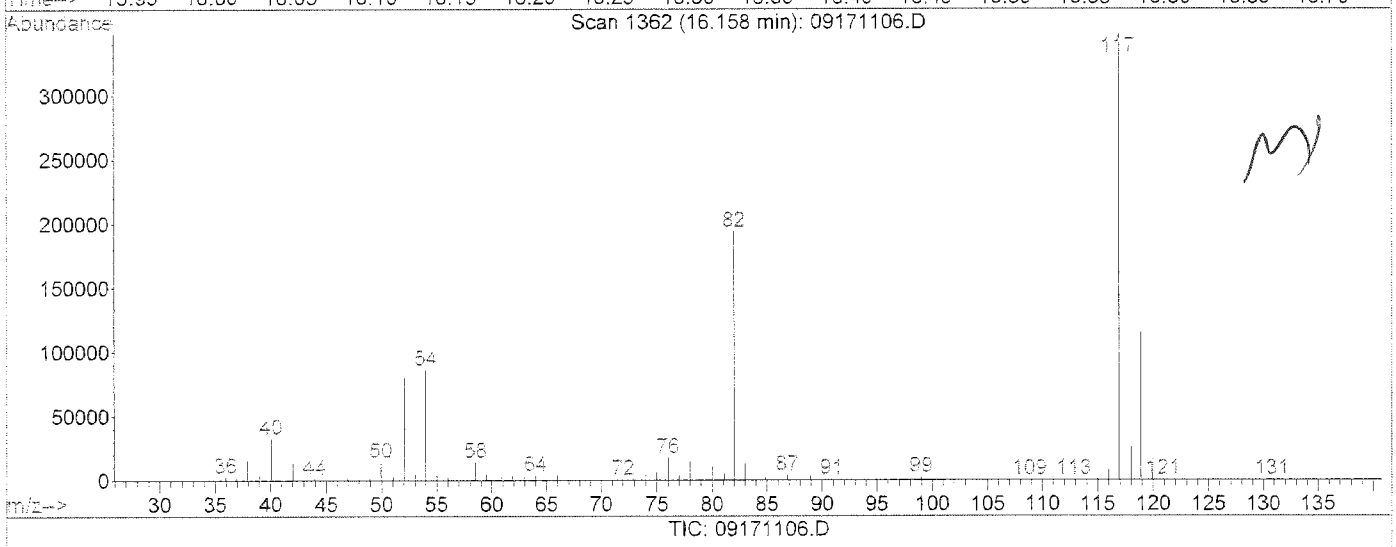
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:49 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171106.D

(52) Chlorobenzene-d5 (I)

16.16min 25.00ug/L m

response 836500

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:49 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11
Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.60	65	103709	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	567732	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	958836	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	836500m	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	357818	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	325414	24.90 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.60%	
50) Toluene-d8 (surr)	14.20	98	1018877	25.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.36%	
64) 4-Bromofluorobenzene (surr	17.83	95	389352	25.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.72%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.90	85	18379m	0.99 ug/L	
6) Chloromethane	5.11	50	31645	1.13 ug/L	95
7) Vinyl Chloride	5.45	62	21226	1.09 ug/L	96
8) 1,3-Butadiene	5.56	54	12571	1.02 ug/L	91
9) Bromomethane	5.99	94	16356	1.07 ug/L	98
10) Chloroethane	6.20	64	13144	1.09 ug/L #	74
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	6.95	101	15695m	0.97 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	7.76	53	3466	1.01 ug/L	85
15) Iodomethane	7.77	142	23948	1.02 ug/L	96
16) 1,1-Dichloroethene	7.71	96	15624	1.09 ug/L	91
17) Methylene Chloride	7.87	84	19781	1.08 ug/L	97
18) Freon 113	7.97	101	14311	1.04 ug/L #	67
19) Carbon Disulfide	8.22	76	34853m	0.91 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	19091	1.01 ug/L	97
21) MTBE	8.88	73	30985	0.98 ug/L	98
22) 1,1-Dichloroethane	9.07	63	35157	1.01 ug/L	99
23) Vinyl Acetate	9.21	43	19484	0.81 ug/L #	95
24) n-Hexane	9.57	86	3738	1.03 ug/L #	81
25) 2-Butanone (MEK)	9.59	72	1239	1.05 ug/L #	89
26) Diisopropylether (DIPE)	9.61	45	75988	1.05 ug/L	92
27) cis-1,2-Dichloroethene	9.79	96	21368	1.05 ug/L	93
28) Bromochloromethane	10.01	128	8623	1.00 ug/L	98
29) Chloroform	10.06	83	34197	1.04 ug/L	98
30) 2,2-Dichloropropane	10.17	77	12717	0.90 ug/L #	32
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	40025	0.93 ug/L	98
33) Tetrahydrofuran	10.48	72	2523	1.03 ug/L	95
34) 1,2-Dichloroethane	10.90	62	20392	1.02 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	21027	0.94 ug/L	91
36) (TAME) tert-Amyl methyl et	11.72	73	27979	0.93 ug/L	94
38) 1,1-Dichloropropene	11.26	75	24028	1.03 ug/L	97
39) Carbon Tetrachloride	11.50	117	18797	0.93 ug/L	96
40) Benzene	11.55	78	70113	1.05 ug/L	99

M
9/14/11

(#) = qualifier out of range (m) = manual integration
09171106.D 091711.M Mon Sep 19 13:49:45 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:49 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

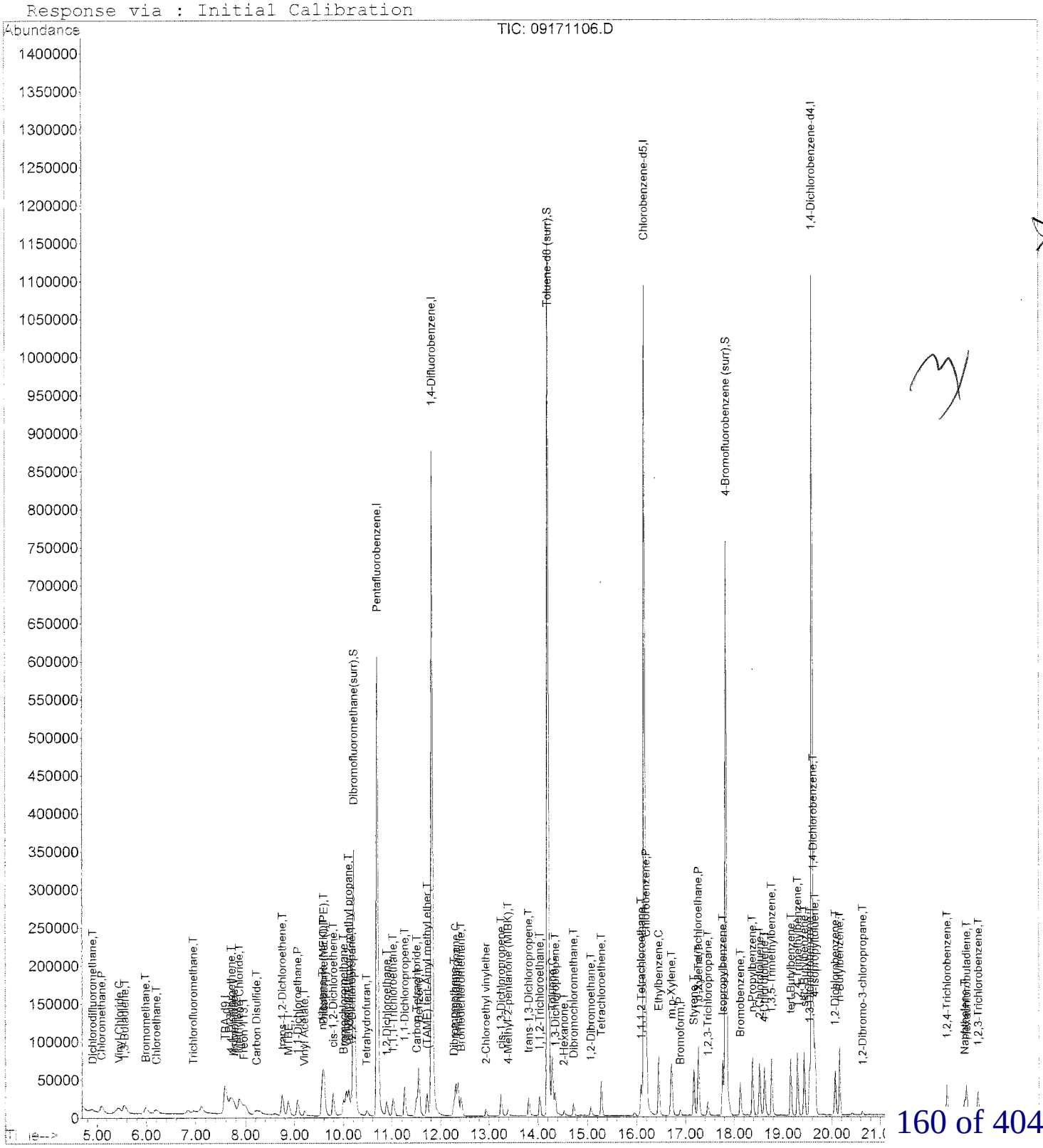
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	8728	0.94 ug/L	96
42)	1,2-Dichloropropane	12.31	63	19039	1.03 ug/L	96
43)	Trichloroethene	12.37	95	19316	1.06 ug/L	92
44)	Bromodichloromethane	12.42	83	21147	0.96 ug/L	94
45)	2-Chloroethyl vinylether	12.95	63	4973	0.83 ug/L	96
46)	cis-1,3-Dichloropropene	13.25	75	22355	0.94 ug/L	98
47)	4-Methyl-2-pentanone (MIBK	13.39	43	10242	0.95 ug/L	91
48)	trans-1,3-Dichloropropene	13.81	75	15817	0.86 ug/L	95
49)	1,1,2-Trichloroethane	14.04	97	11397	1.02 ug/L	99
51)	Toluene	14.30	92	39782	1.04 ug/L	99
53)	1,3-Dichloropropane	14.35	76	19593	1.03 ug/L	100
54)	2-Hexanone	14.53	43	7941	1.06 ug/L #	83
55)	Dibromochloromethane	14.73	129	11237	0.86 ug/L	99
56)	1,2-Dibromoethane	15.07	107	10706	0.95 ug/L	96
57)	Tetrachloroethene	15.29	164	13016	1.00 ug/L	94
58)	1,1,1,2-Tetrachloroethane	16.09	131	13097	0.90 ug/L	92
59)	Chlorobenzene	16.20	112	45526	1.03 ug/L #	85
60)	Ethylbenzene	16.45	91	72657	1.04 ug/L	100
61)	m,p-Xylene	16.71	106	30973	1.09 ug/L	97
62)	Styrene	17.17	104	38764	0.98 ug/L	97
63)	o-Xylene	17.27	106	28303	1.07 ug/L	96
66)	Bromoform	16.90	173	4808	1.01 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	11715	1.08 ug/L	97
68)	1,2,3-Trichloropropane	17.46	110	2961	0.99 ug/L	96
69)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
70)	Isopropylbenzene	17.77	105	62460	1.05 ug/L	97
71)	Bromobenzene	18.13	156	16140	1.02 ug/L	98
72)	n-Propylbenzene	18.37	91	80568	1.06 ug/L	97
73)	2-Chlorotoluene	18.53	91	50903	1.07 ug/L	98
74)	4-Chlorotoluene	18.63	91	49685	1.06 ug/L	98
75)	1,3,5-Trimethylbenzene	18.77	105	54711	1.05 ug/L	99
76)	tert-Butylbenzene	19.16	119	45119	1.04 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	56348	1.06 ug/L	100
78)	sec-Butylbenzene	19.44	105	73544	1.09 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	30926	1.05 ug/L	97
80)	1,4-Dichlorobenzene	19.63	146	31006	1.07 ug/L #	93
81)	4-Isopropyltoluene	19.66	119	59421	1.09 ug/L	99
82)	1,2-Dichlorobenzene	20.07	146	25091	0.98 ug/L	96
83)	n-Butylbenzene	20.16	91	56576	1.07 ug/L	97
84)	1,2-Dibromo-3-chloropropan	20.63	75	1171	0.86 ug/L	89
85)	1,2,4-Trichlorobenzene	22.37	180	15989	0.94 ug/L	94
86)	Naphthalene	22.73	128	18319	0.83 ug/L	98
87)	Hexachlorobutadiene	22.77	225	11005	1.06 ug/L	94
88)	1,2,3-Trichlorobenzene	23.00	180	12857	0.96 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171106.D Vial: 6
Acq On : 17 Sep 2011 12:40 pm Operator: KH
Sample : 1.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:49 2011 Quant Results File: 091711.RES

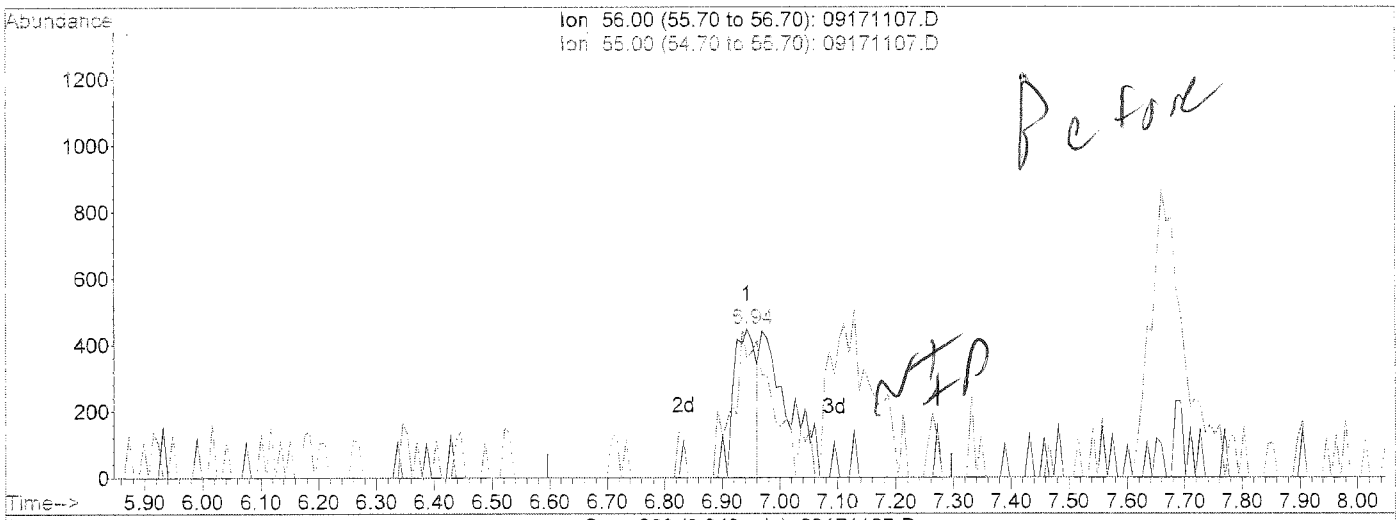
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

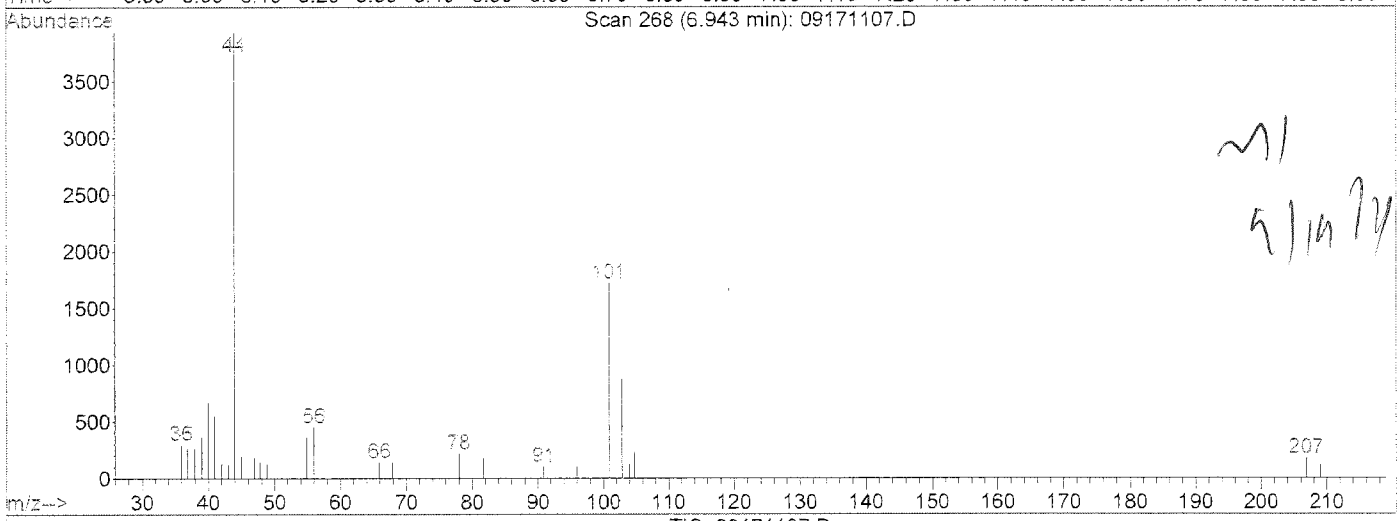


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

(11) Acrolein

6.94min 1.07ug/L

response 1217

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	166.89#
0.00	0.00	0.00
0.00	0.00	0.00

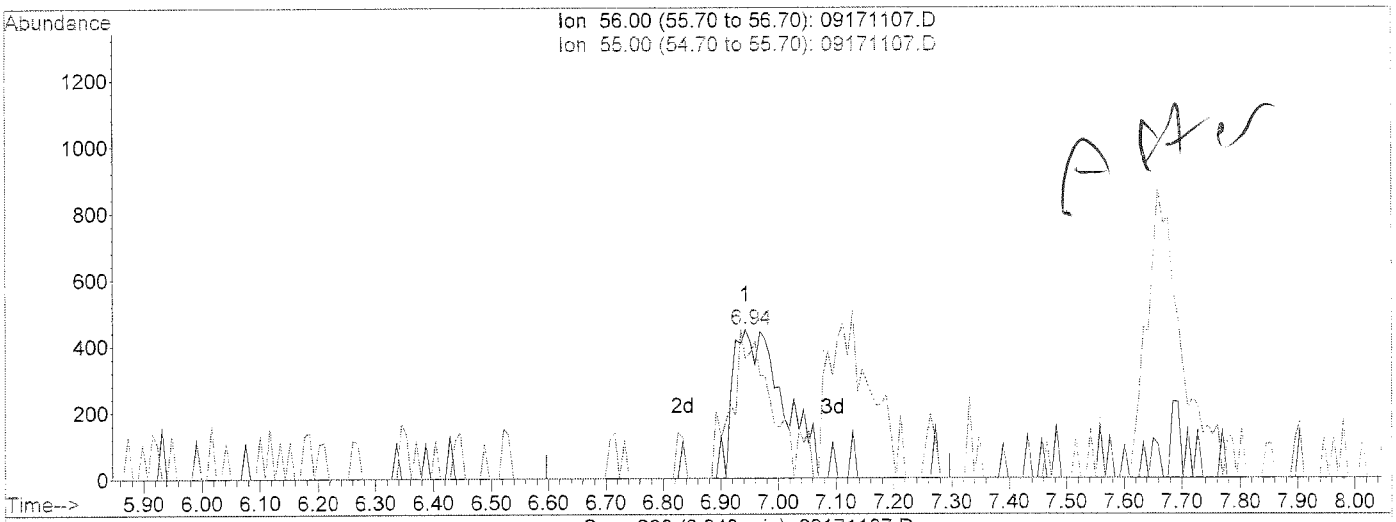
9/20/11

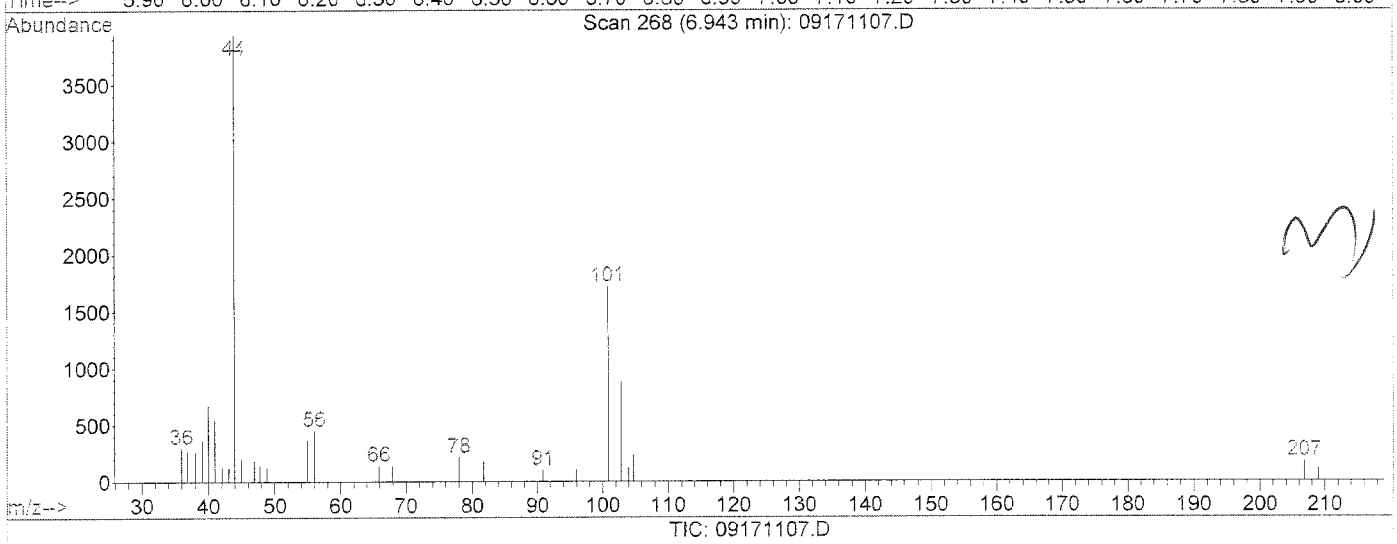
09171107.D 091711.M Mon Sep 19 13:50:17 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

(11) Acrolein

6.94min 2.32ug/L m

response 2651

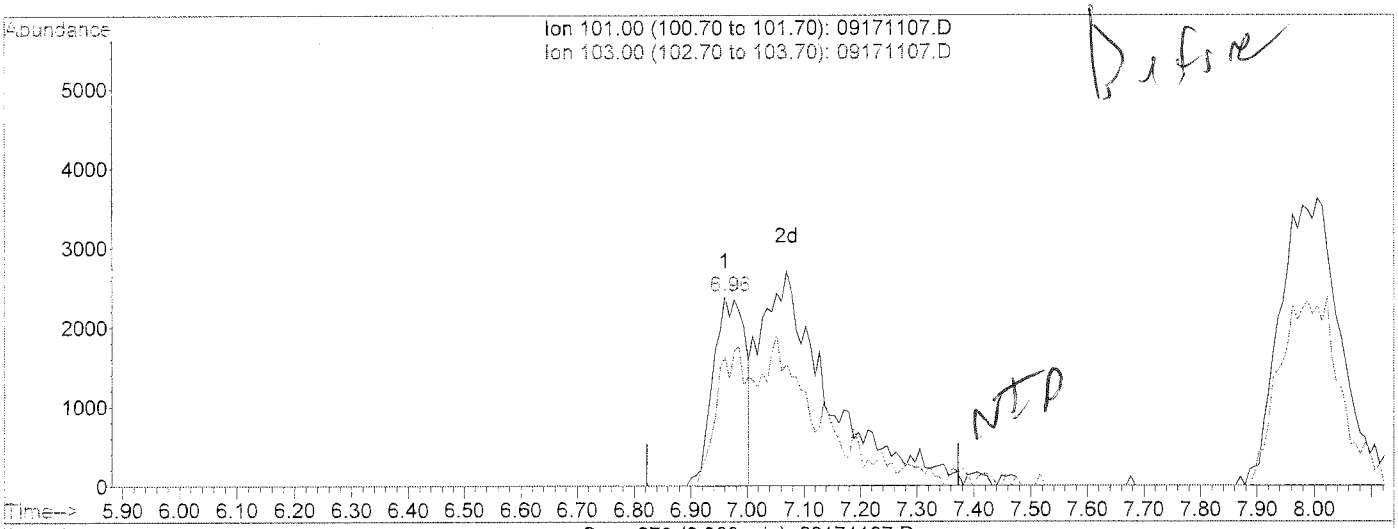
Ion	Exp%	Act%
56.00	100	100
55.00	68.10	76.61
0.00	0.00	0.00
0.00	0.00	0.00

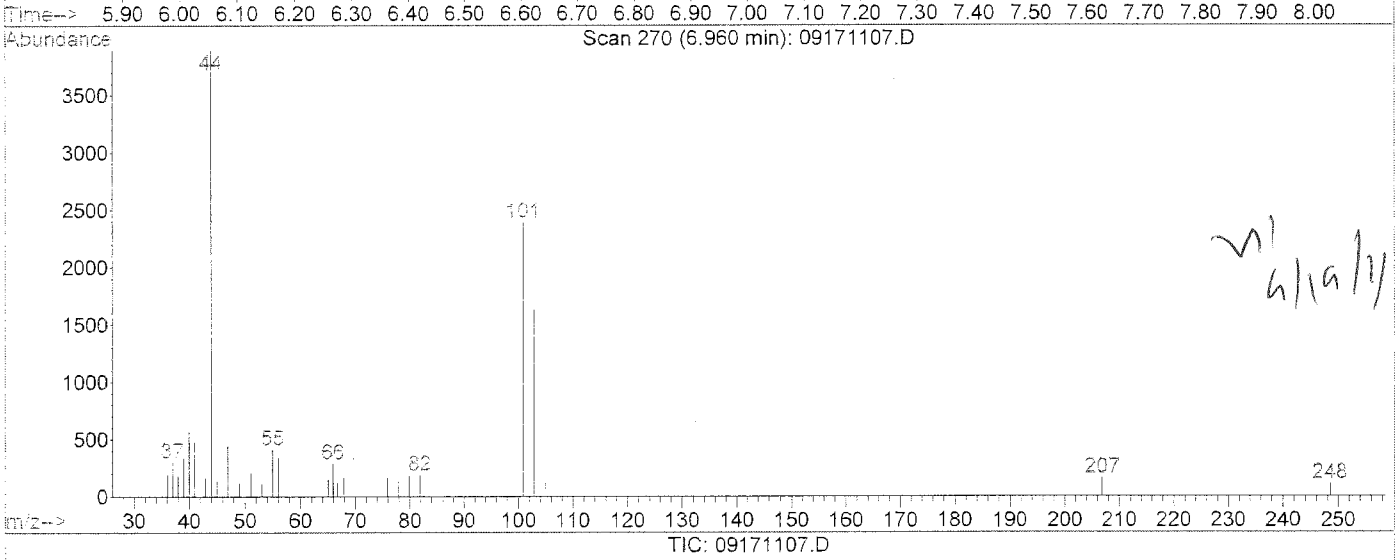
09171107.D 091711.M Mon Sep 19 13:50:32 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

(12) Trichlorofluoromethane (T)

6.96min 0.59ug/L

response 9410

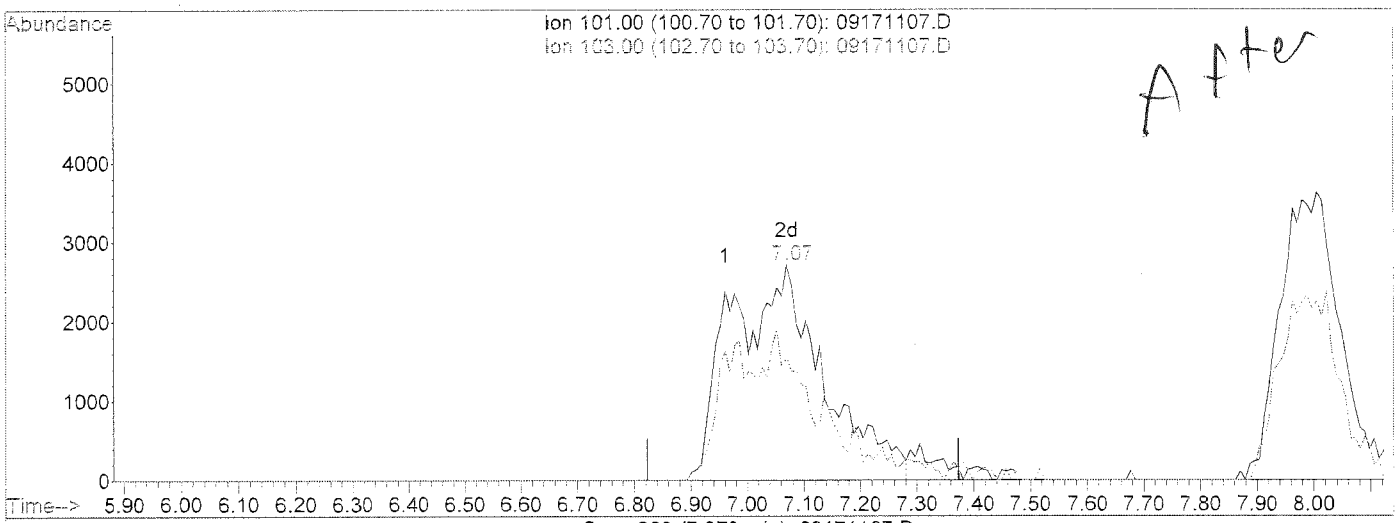
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	68.17
0.00	0.00	0.00
0.00	0.00	0.00

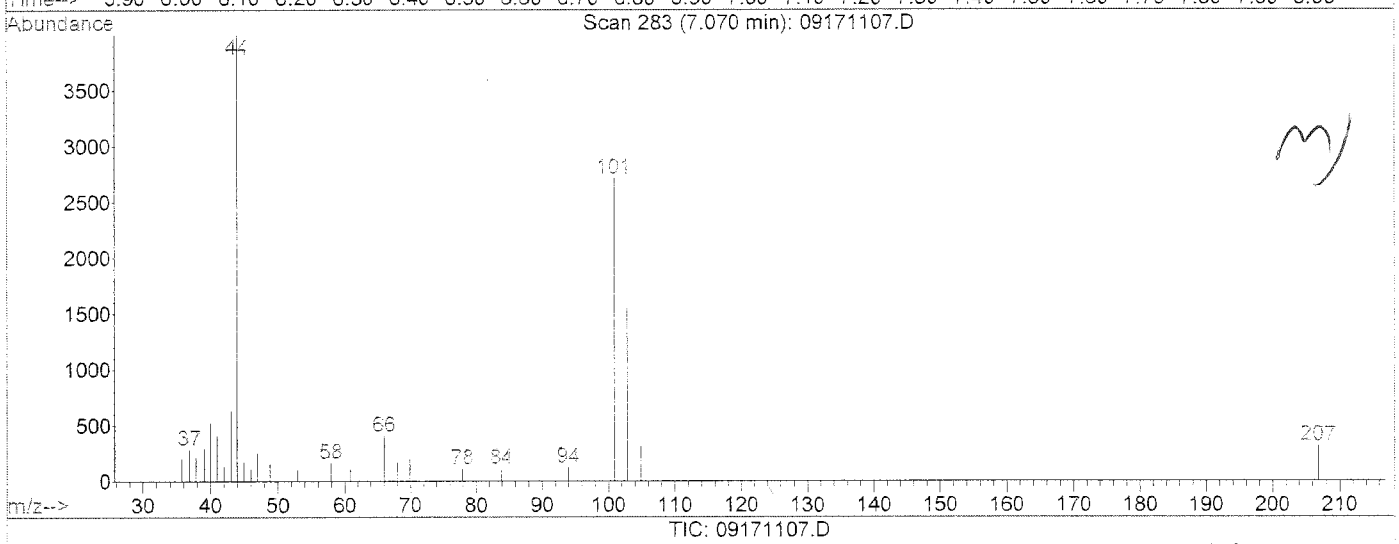
09171107.D 091711.M Mon Sep 19 13:50:35 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171107.D

9/20/11

(12) Trichlorofluoromethane (T)

7.07min 1.91ug/L m

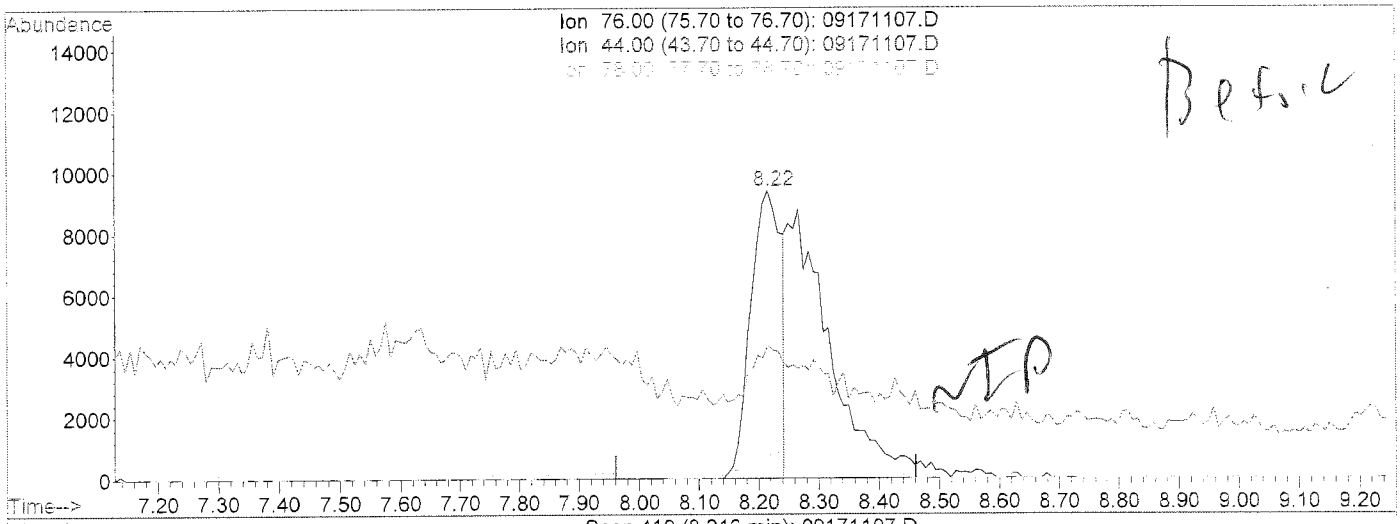
response 30635

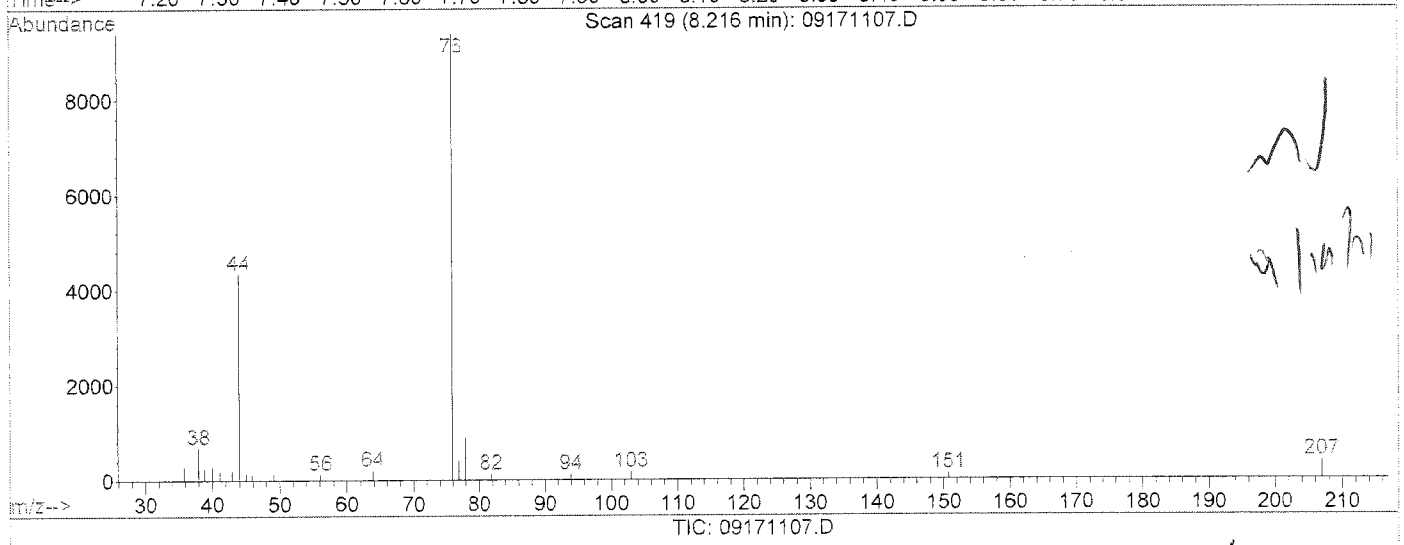
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	56.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.22min 0.88ug/L

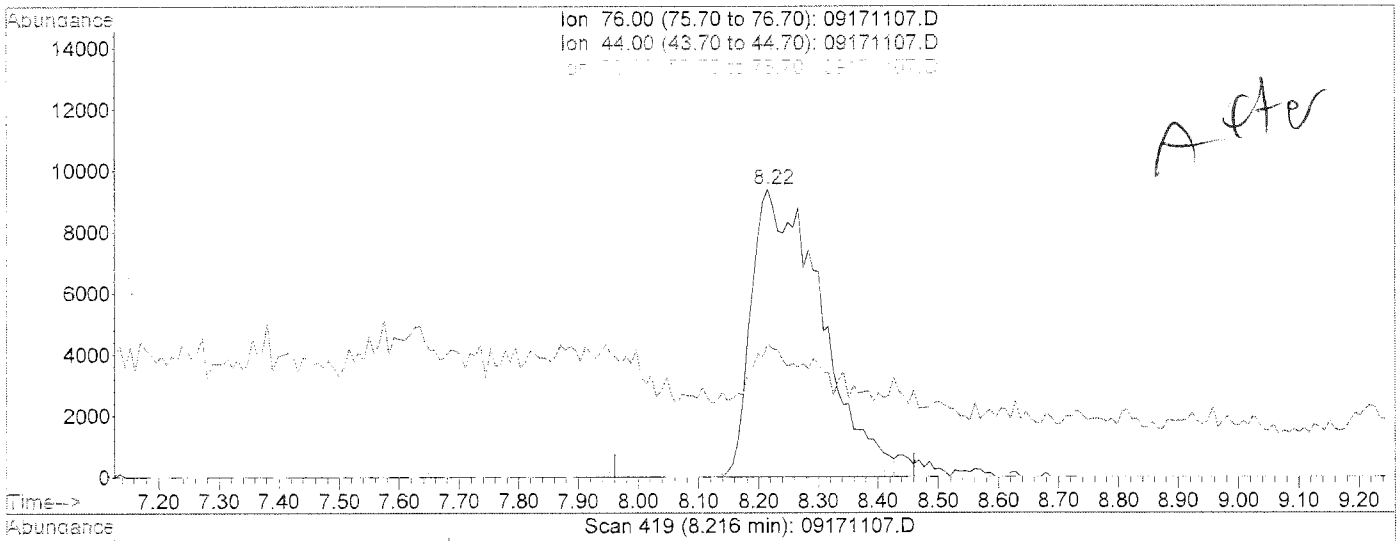
response 33430

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	23.28#
78.00	4.00	8.12#
0.00	0.00	0.00

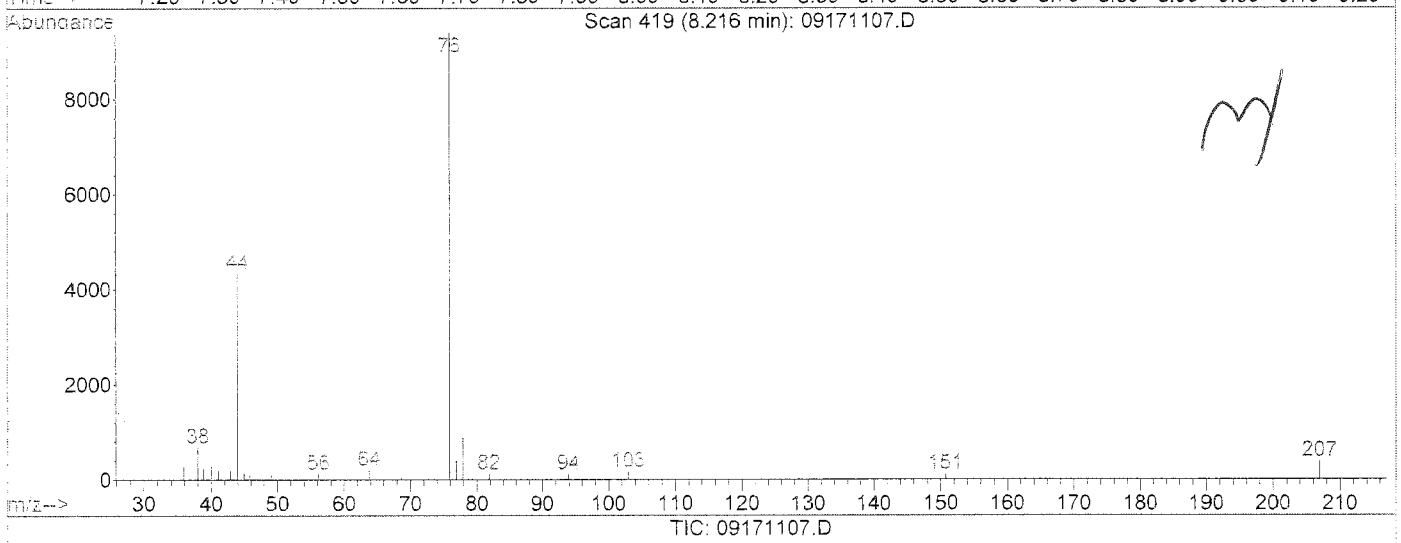
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171107.D

M

✓ 9/20/11

(19) Carbon Disulfide (T)

8.22min 2.00ug/L m

response 75719

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	10.28#
78.00	4.00	3.58
0.00	0.00	0.00

09171107.D 091711.M Mon Sep 19 13:51:07 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11 Re-Calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	109544	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	563985	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	955797	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	808613	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	358117	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	328422	25.30 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.20%	
50) Toluene-d8 (surr)	14.20	98	1006028	24.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.40%	
64) 4-Bromofluorobenzene (surr	17.83	95	386956	25.89 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.56%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.70	59	11513	11.56 ug/L #	89
5) Dichlorodifluoromethane	4.90	85	33947	1.84 ug/L	92
6) Chloromethane	5.11	50	58934	2.12 ug/L	96
7) Vinyl Chloride	5.47	62	40515	2.09 ug/L	96
8) 1,3-Butadiene	5.56	54	24531	2.01 ug/L	95
9) Bromomethane	5.99	94	32348	2.12 ug/L	98
10) Chloroethane	6.19	64	24466	2.04 ug/L	98
11) Acrolein	6.94	56	2651m	2.32 ug/L	
12) Trichlorofluoromethane	7.07	101	30635m	1.91 ug/L	
13) Acetone	7.12	43	30767	1.77 ug/L	94
14) Acrylonitrile	7.75	53	7350	2.16 ug/L	87
15) Iodomethane	7.76	142	47746	2.04 ug/L #	98
16) 1,1-Dichloroethene	7.70	96	28805	2.02 ug/L	100
17) Methylene Chloride	7.89	84	37747	2.08 ug/L	96
18) Freon 113	8.00	101	26853	1.96 ug/L	97
19) Carbon Disulfide	8.22	76	75719m	2.00 ug/L	
20) trans-1,2-Dichloroethene	8.76	96	39069	2.08 ug/L	98
21) MTBE	8.88	73	64439	2.06 ug/L	100
22) 1,1-Dichloroethane	9.07	63	72264	2.09 ug/L	99
23) Vinyl Acetate	9.22	43	44919	1.87 ug/L	99
24) n-Hexane	9.57	86	6866	1.91 ug/L #	85
25) 2-Butanone (MEK)	9.60	72	2562	2.19 ug/L #	78
26) Diisopropylether (DIPE)	9.61	45	154506	2.14 ug/L	98
27) cis-1,2-Dichloroethene	9.79	96	42529	2.10 ug/L	99
28) Bromochloromethane	10.01	128	17537	2.05 ug/L	98
29) Chloroform	10.06	83	67925	2.09 ug/L	100
30) 2,2-Dichloropropane	10.17	77	28166	2.01 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	90933	2.13 ug/L	99
33) Tetrahydrofuran	10.47	72	3541	2.09 ug/L	95
34) 1,2-Dichloroethane	10.90	62	40782	2.05 ug/L	98
35) 1,1,1-Trichloroethane	11.03	97	44217	1.98 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	62070	2.08 ug/L	97
38) 1,1-Dichloropropene	11.26	75	45960	1.97 ug/L	98
39) Carbon Tetrachloride	11.50	117	38849	1.93 ug/L	99
0) Benzene	11.55	78	138568	2.09 ug/L	99

M 9/20/11

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

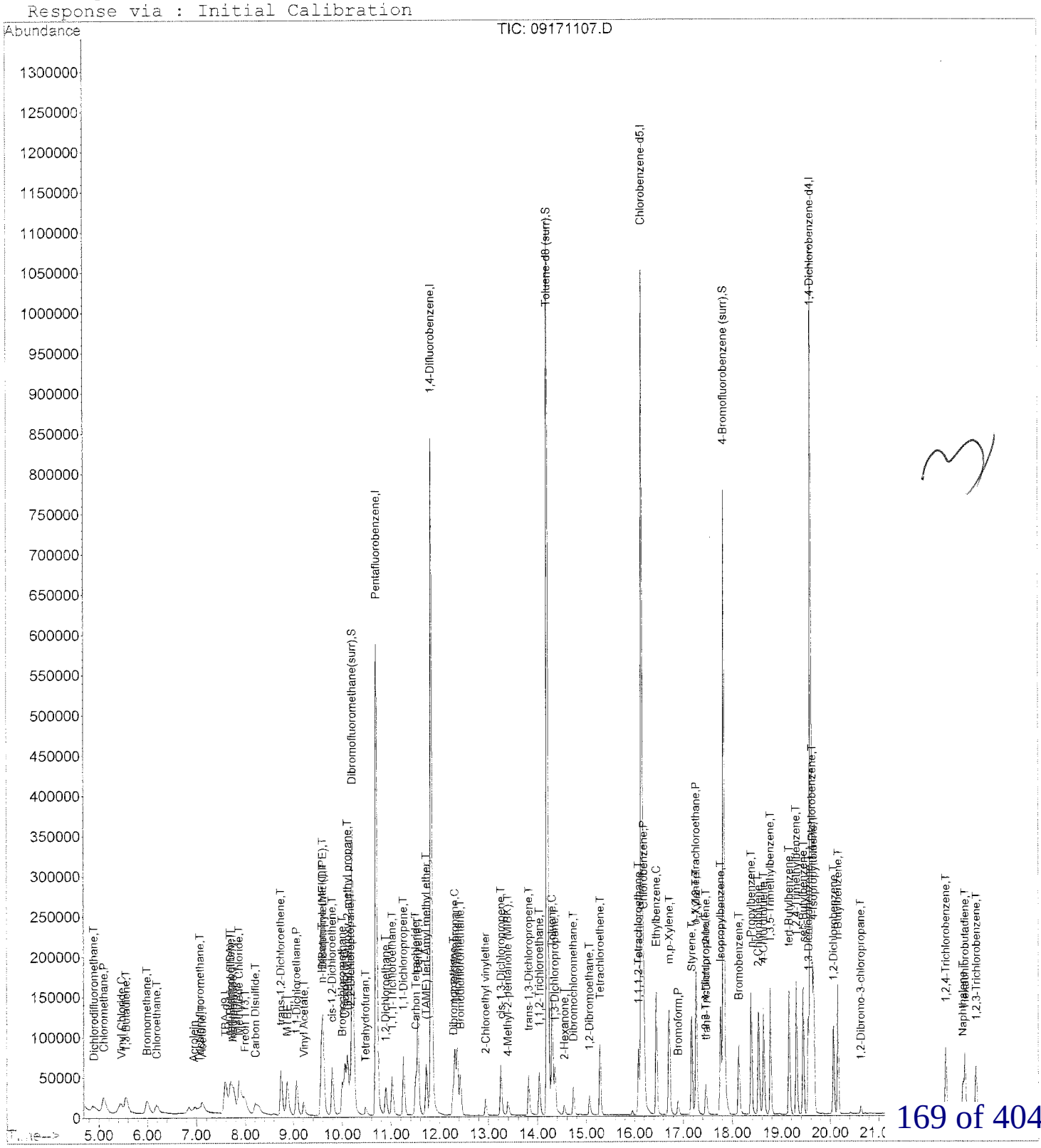
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.28	93	18981	2.05 ug/L	98
42)	1,2-Dichloropropane	12.32	63	38591	2.09 ug/L	97
43)	Trichloroethene	12.36	95	37797	2.08 ug/L	98
44)	Bromodichloromethane	12.43	83	44311	2.02 ug/L	98
45)	2-Chloroethyl vinylether	12.94	63	10843	1.81 ug/L	96
46)	cis-1,3-Dichloropropene	13.26	75	46010	1.94 ug/L	98
47)	4-Methyl-2-pentanone (MIBK	13.39	43	20983	1.95 ug/L	99
48)	trans-1,3-Dichloropropene	13.82	75	35438	1.93 ug/L	99
49)	1,1,2-Trichloroethane	14.04	97	23367	2.09 ug/L	100
51)	Toluene	14.30	92	80519	2.11 ug/L	100
53)	1,3-Dichloropropane	14.35	76	38916	2.11 ug/L	99
54)	2-Hexanone	14.54	43	14891	2.05 ug/L #	92
55)	Dibromochloromethane	14.73	129	24423	1.94 ug/L	97
56)	1,2-Dibromoethane	15.07	107	23304	2.15 ug/L	96
57)	Tetrachloroethene	15.29	164	26504	2.11 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	29132	2.07 ug/L	98
59)	Chlorobenzene	16.20	112	91484	2.13 ug/L	94
60)	Ethylbenzene	16.46	91	147871	2.19 ug/L	98
61)	m,p-Xylene	16.72	106	59362	2.15 ug/L	98
62)	Styrene	17.17	104	79532	2.07 ug/L	98
63)	o-Xylene	17.27	106	57165	2.23 ug/L	97
66)	Bromoform	16.90	173	10793	1.80 ug/L	96
67)	1,1,2,2-Tetrachloroethane	17.26	83	24330	2.23 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	5939	1.98 ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.48	53	4162	1.53 ug/L	86
70)	Isopropylbenzene	17.77	105	124127	2.08 ug/L	98
71)	Bromobenzene	18.13	156	32373	2.04 ug/L	95
72)	n-Propylbenzene	18.38	91	160670	2.10 ug/L	99
73)	2-Chlorotoluene	18.53	91	100100	2.10 ug/L	100
74)	4-Chlorotoluene	18.63	91	99872	2.12 ug/L	100
75)	1,3,5-Trimethylbenzene	18.78	105	109721	2.11 ug/L	100
76)	tert-Butylbenzene	19.15	119	88851	2.05 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	113485	2.13 ug/L	100
78)	sec-Butylbenzene	19.44	105	141929	2.11 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	62061	2.11 ug/L	100
80)	1,4-Dichlorobenzene	19.63	146	62267	2.14 ug/L	95
81)	4-Isopropyltoluene	19.66	119	116381	2.13 ug/L	99
82)	1,2-Dichlorobenzene	20.07	146	54019	2.12 ug/L	96
83)	n-Butylbenzene	20.17	91	108640	2.06 ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.64	75	2608	1.91 ug/L	85
85)	1,2,4-Trichlorobenzene	22.37	180	32710	1.92 ug/L	99
86)	Naphthalene	22.73	128	41118	1.85 ug/L	98
87)	Hexachlorobutadiene	22.78	225	20027	1.92 ug/L	98
88)	1,2,3-Trichlorobenzene	23.01	180	25190	1.88 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171107.D Vial: 7
Acq On : 17 Sep 2011 1:11 pm Operator: KH
Sample : 2.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

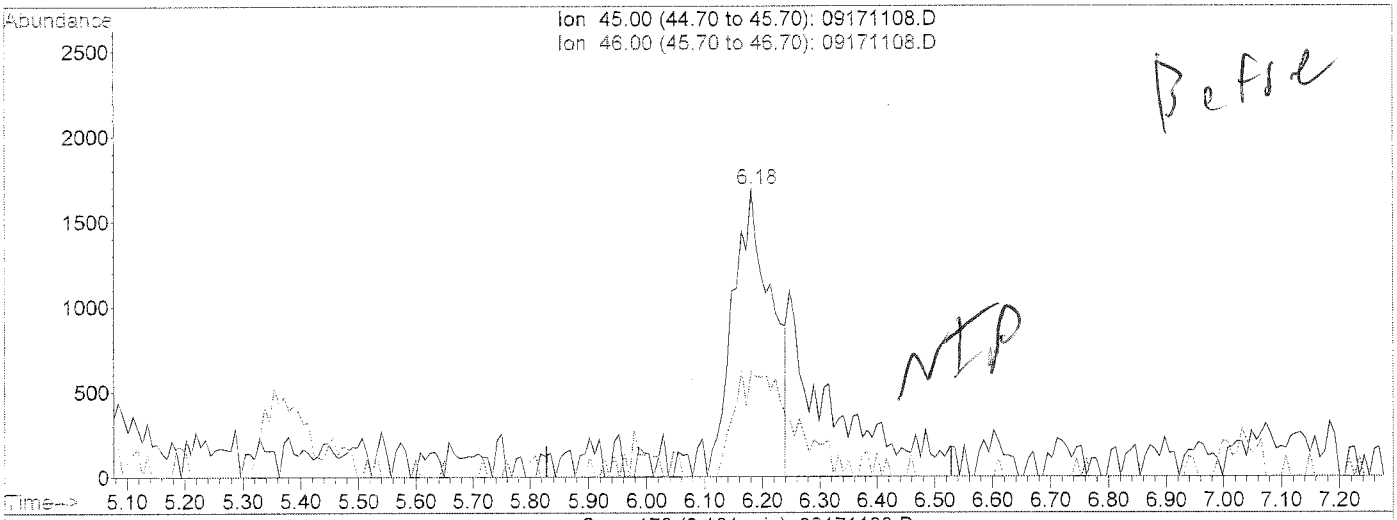


169 of 404

Quantitation Report (Qedit)

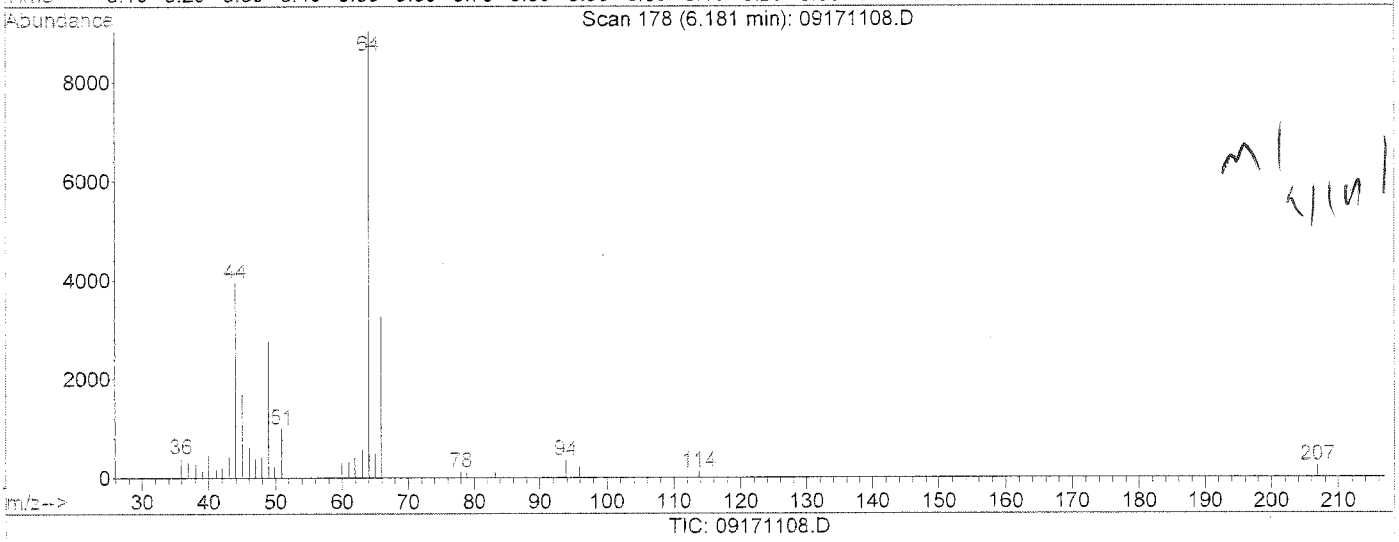
Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



Before

NTP



TIC: 09171108.D

M 9/20/11

(2) Ethanol (T)

6.18min 31.25ug/L

response 7865

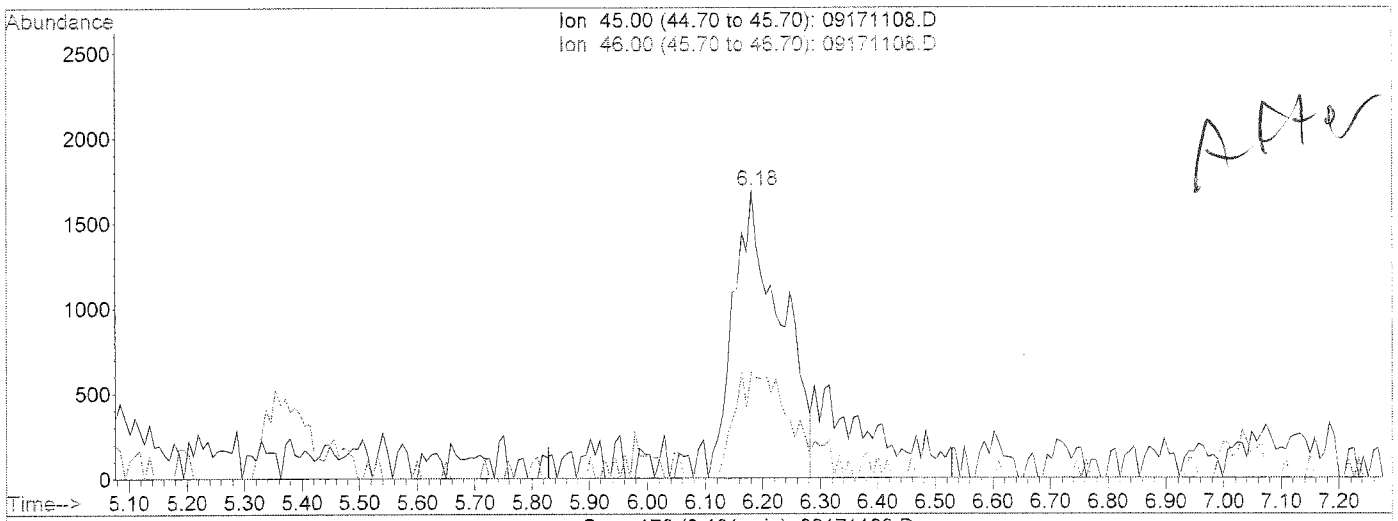
Ion	Exp%	Act%
45.00	100	100
46.00	15.90	13.83
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

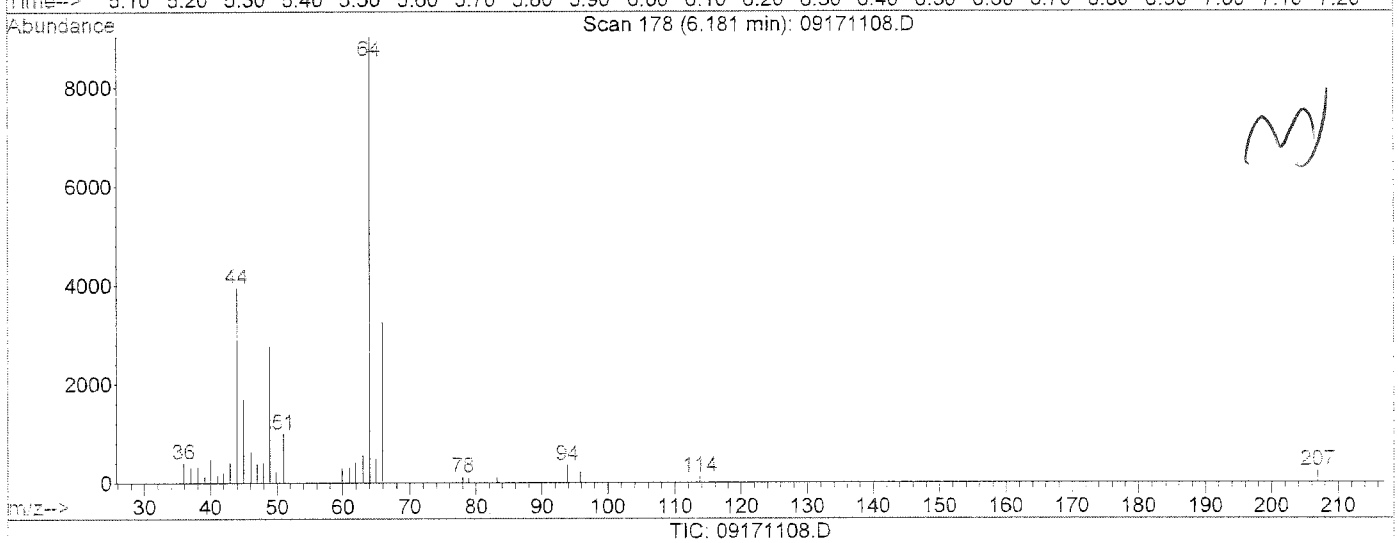
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171108.D

M

9/20/11

(2) Ethanol (T)

6.18min 45.23ug/L m

response 9643

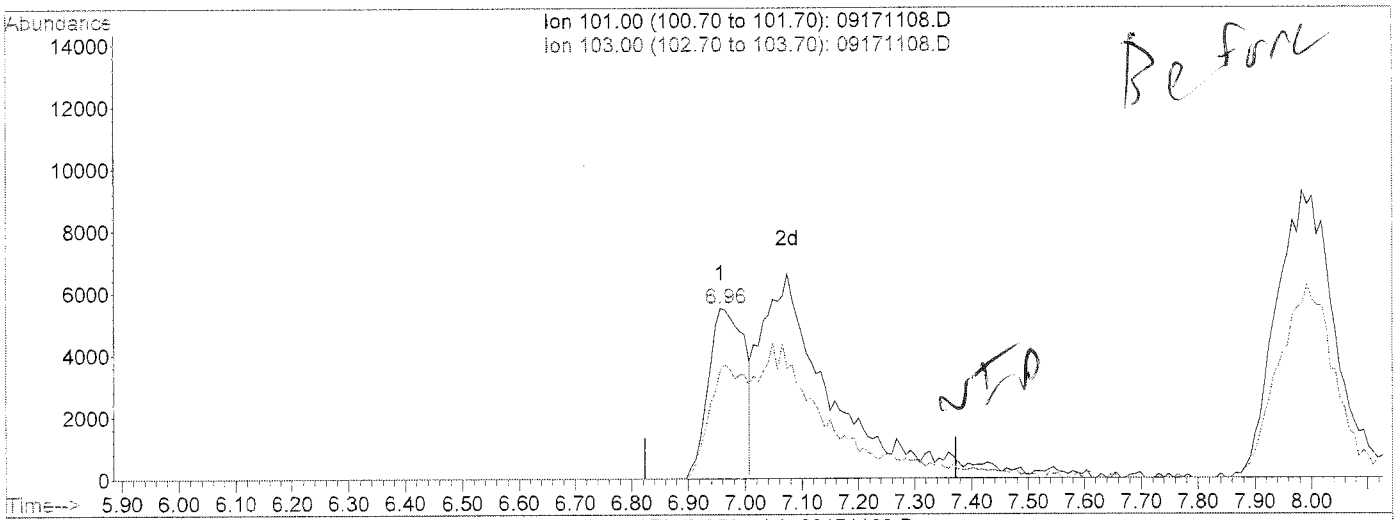
Ion	Exp%	Act%
45.00	100	100
46.00	15.90	11.28#
0.00	0.00	0.00
0.00	0.00	0.00

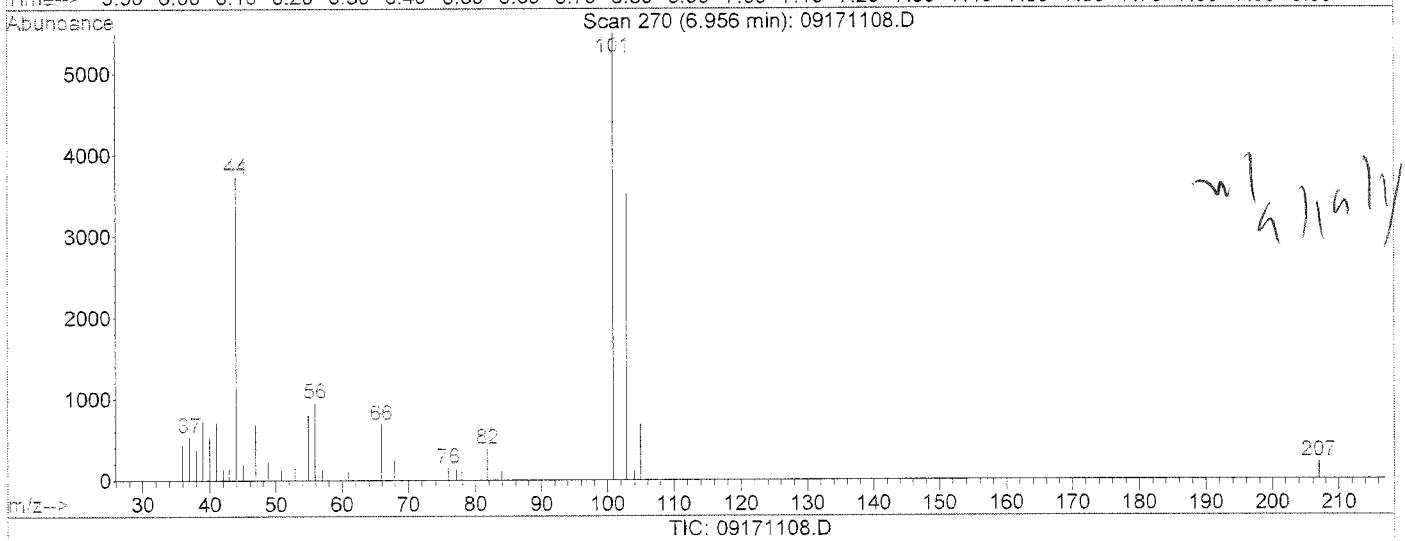
09171108.D 091711.M Mon Sep 19 13:51:36 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171108.D

9/20/11

(12) Trichlorofluoromethane (T)

6.96min 1.53ug/L

response 24119

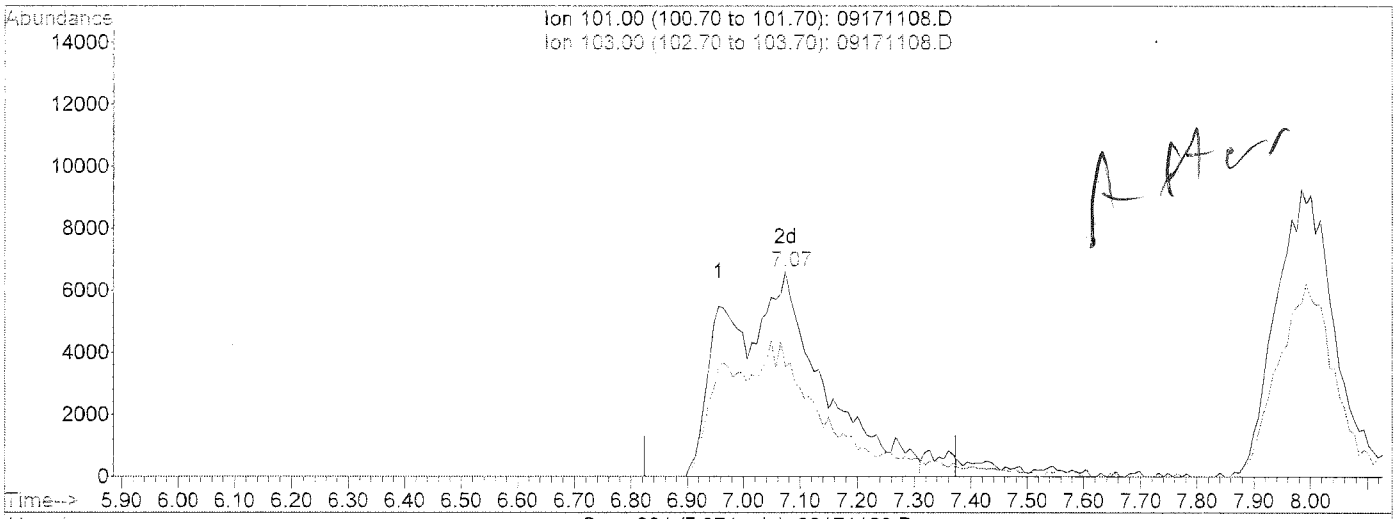
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	64.10
0.00	0.00	0.00
0.00	0.00	0.00

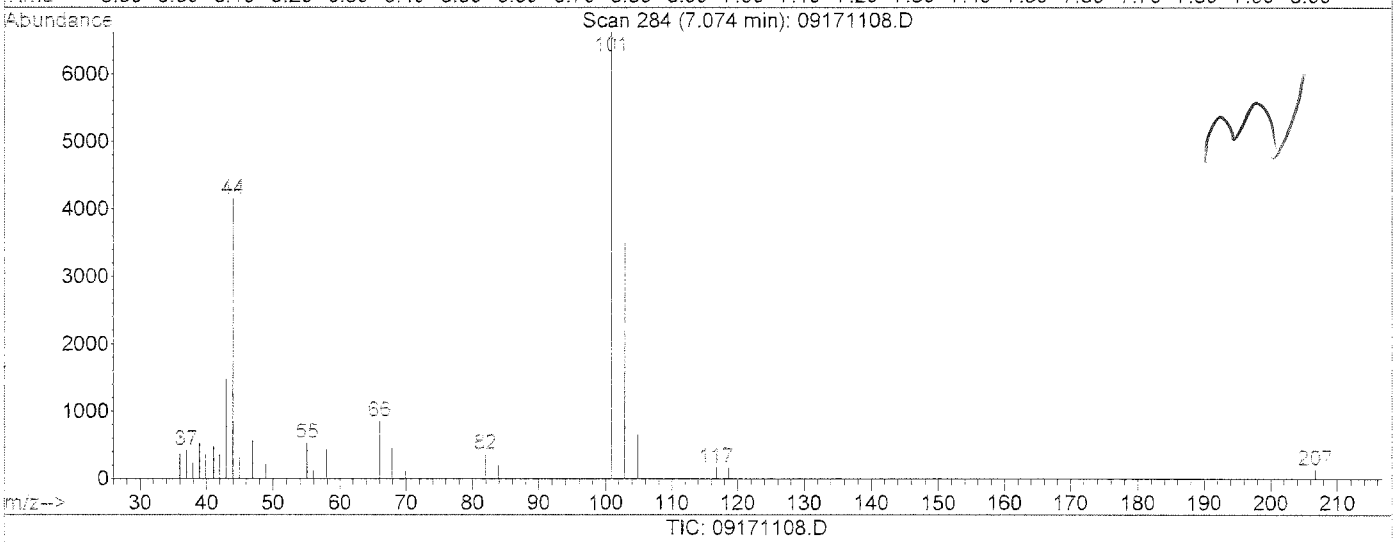
09171108.D 091711.M Mon Sep 19 13:51:40 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171108.D

(12) Trichlorofluoromethane (T)

7.07min 4.88ug/L m

response 76741

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	53.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11 Re-Calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	104990	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	553946	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	931476	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	806915	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	345498	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	325939	25.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.24%	
50) Toluene-d8 (surr)	14.20	98	989988	25.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.36%	
64) 4-Bromofluorobenzene (surr	17.84	95	383998	25.75 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.00%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	9643m	45.23 ug/L	
3) tert-Butanol (TBA)	7.70	59	25703	26.93 ug/L	98
5) Dichlorodifluoromethane	4.89	85	87516	4.83 ug/L #	62
6) Chloromethane	5.10	50	145356	5.33 ug/L	100
7) Vinyl Chloride	5.46	62	100804	5.29 ug/L	99
8) 1,3-Butadiene	5.56	54	62749	5.24 ug/L	95
9) Bromomethane	6.00	94	76920	5.14 ug/L	99
10) Chloroethane	6.20	64	60241	5.11 ug/L	98
11) Acrolein	6.95	56	5302	4.73 ug/L #	63
12) Trichlorofluoromethane	7.07	101	76741m	4.88 ug/L	
13) Acetone	7.12	43	37834	4.54 ug/L	97
14) Acrylonitrile	7.75	53	17476	5.23 ug/L	86
15) Iodomethane	7.77	142	113369	4.93 ug/L	100
16) 1,1-Dichloroethene	7.70	96	68134	4.87 ug/L	97
17) Methylene Chloride	7.88	84	88408	4.95 ug/L	99
18) Freon 113	7.98	101	67939	5.06 ug/L	98
19) Carbon Disulfide	8.21	76	181180	4.87 ug/L #	86
20) trans-1,2-Dichloroethene	8.75	96	93175	5.04 ug/L	97
21) MTBE	8.88	73	154482	5.03 ug/L	100
22) 1,1-Dichloroethane	9.06	63	174726	5.13 ug/L	100
23) Vinyl Acetate	9.21	43	115774	4.91 ug/L	100
24) n-Hexane	9.57	86	17305	4.89 ug/L #	87
25) 2-Butanone (MEK)	9.59	72	5766	5.03 ug/L #	94
26) Diisopropylether (DIPE)	9.60	45	371692	5.25 ug/L	100
27) cis-1,2-Dichloroethene	9.80	96	100728	5.06 ug/L	99
28) Bromochloromethane	10.01	128	43488	5.19 ug/L	97
29) Chloroform	10.06	83	168173	5.26 ug/L	99
30) 2,2-Dichloropropane	10.17	77	65277	4.73 ug/L	89
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	208188	4.96 ug/L	99
33) Tetrahydrofuran	10.48	72	5900	4.61 ug/L #	86
34) 1,2-Dichloroethane	10.90	62	100371	5.15 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	112266	5.12 ug/L	97
36) (TAME) tert-Amyl methyl et	11.72	73	143464	4.90 ug/L	97
38) 1,1-Dichloropropene	11.26	75	114847	5.05 ug/L	99
39) Carbon Tetrachloride	11.51	117	98204	5.02 ug/L	99
0) Benzene	11.55	78	332411	5.14 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

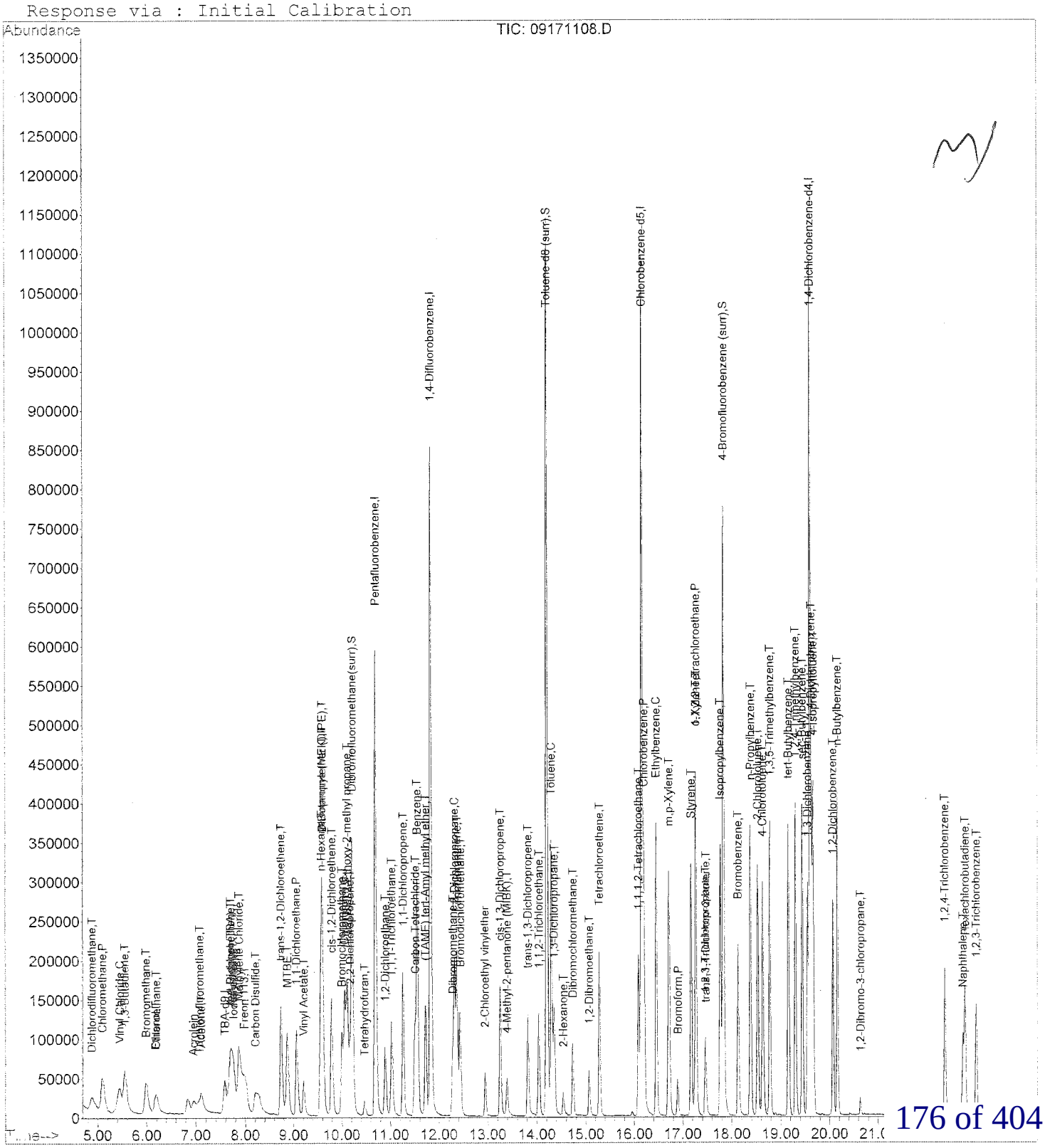
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41)	Dibromomethane	12.27	93	47074	5.23	ug/L	96
42)	1,2-Dichloropropane	12.32	63	93504	5.19	ug/L	98
43)	Trichloroethene	12.37	95	90591	5.11	ug/L	98
44)	Bromodichloromethane	12.43	83	108668	5.07	ug/L	99
45)	2-Chloroethyl vinylether	12.94	63	29831	5.10	ug/L	97
46)	cis-1,3-Dichloropropene	13.25	75	119463	5.16	ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	53796	5.13	ug/L	96
48)	trans-1,3-Dichloropropene	13.82	75	92765	5.18	ug/L	99
49)	1,1,2-Trichloroethane	14.03	97	56221	5.16	ug/L	99
51)	Toluene	14.30	92	193004	5.20	ug/L	99
53)	1,3-Dichloropropane	14.36	76	96624	5.25	ug/L	99
54)	2-Hexanone	14.54	43	33077	4.57	ug/L	97
55)	Dibromochloromethane	14.73	129	63979	5.10	ug/L	100
56)	1,2-Dibromoethane	15.07	107	57375	5.30	ug/L	98
57)	Tetrachloroethene	15.29	164	63421	5.05	ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	73676	5.23	ug/L	99
59)	Chlorobenzene	16.20	112	220791	5.16	ug/L	96
60)	Ethylbenzene	16.45	91	356767	5.29	ug/L	98
61)	m,p-Xylene	16.71	106	138880	5.05	ug/L	96
62)	Styrene	17.17	104	209559	5.47	ug/L	100
63)	o-Xylene	17.27	106	134177	5.24	ug/L	97
66)	Bromoform	16.90	173	30474	4.51	ug/L	97
67)	1,1,2,2-Tetrachloroethane	17.26	83	58939	5.61	ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	14852	5.13	ug/L	100
69)	trans-1,4-Dichloro-2-buten	17.48	53	11912	4.53	ug/L	96
70)	Isopropylbenzene	17.77	105	305903	5.30	ug/L	98
71)	Bromobenzene	18.14	156	78669	5.14	ug/L	98
72)	n-Propylbenzene	18.38	91	393552	5.34	ug/L	98
73)	2-Chlorotoluene	18.53	91	240941	5.23	ug/L	98
74)	4-Chlorotoluene	18.63	91	239702	5.27	ug/L	98
75)	1,3,5-Trimethylbenzene	18.78	105	264323	5.26	ug/L	99
76)	tert-Butylbenzene	19.16	119	224883	5.38	ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	270702	5.27	ug/L	100
78)	sec-Butylbenzene	19.44	105	342318	5.27	ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	145682	5.14	ug/L	99
80)	1,4-Dichlorobenzene	19.63	146	141364	5.04	ug/L	98
81)	4-Isopropyltoluene	19.66	119	273532	5.19	ug/L	98
82)	1,2-Dichlorobenzene	20.07	146	127868	5.19	ug/L	99
83)	n-Butylbenzene	20.16	91	266292	5.23	ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.64	75	5876	4.47	ug/L	98
85)	1,2,4-Trichlorobenzene	22.38	180	77759	4.74	ug/L	99
86)	Naphthalene	22.73	128	103047	4.82	ug/L	99
87)	Hexachlorobutadiene	22.77	225	45306	4.51	ug/L	98
88)	1,2,3-Trichlorobenzene	23.00	180	60327	4.66	ug/L	100

(#) = qualifier out of range (m) = manual integration
09171108.D 091711.M Mon Sep 19 13:52:09 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171108.D Vial: 8
Acq On : 17 Sep 2011 1:43 pm Operator: KH
Sample : 5.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:51 2011 Quant Results File: 091711.RES

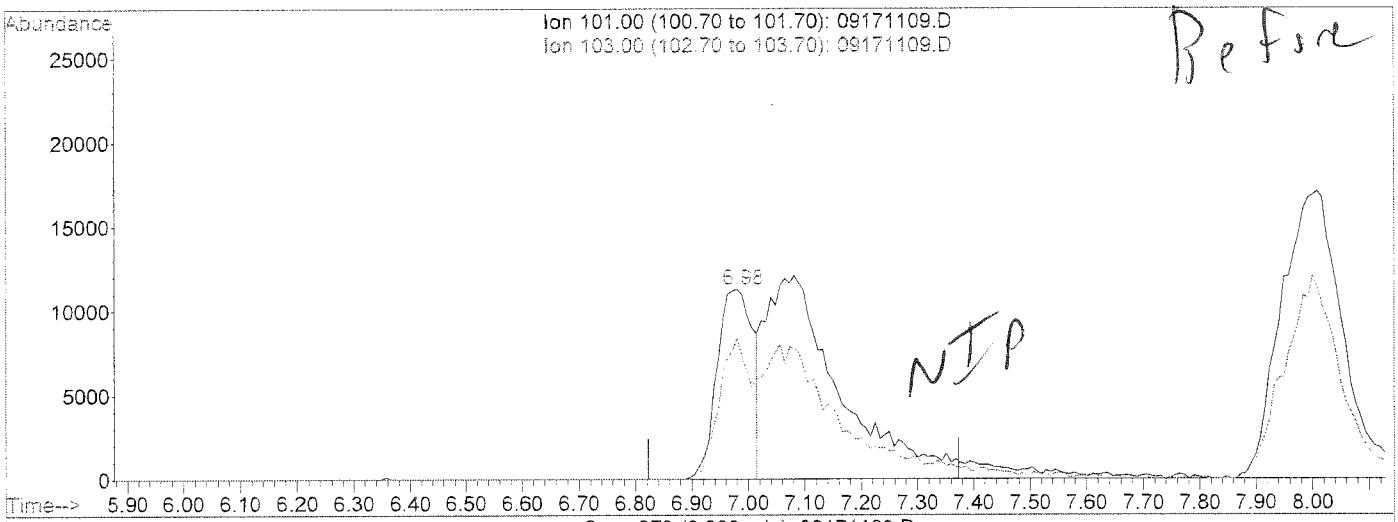
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

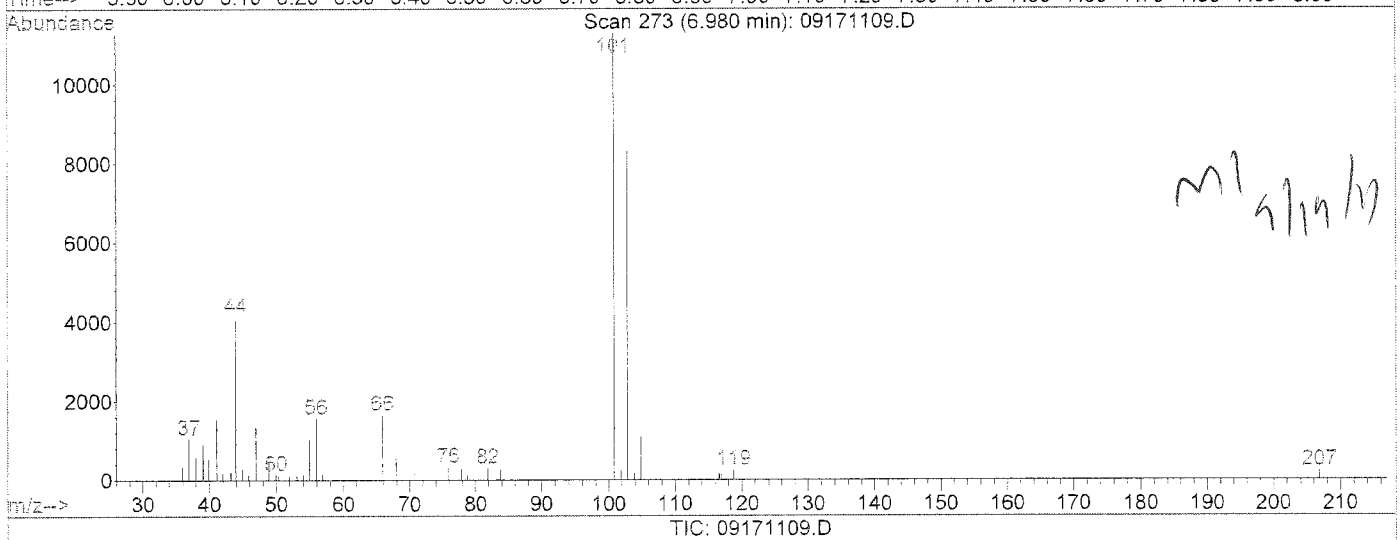


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171109.D

(12) Trichlorofluoromethane (T)

6.98min 3.11ug/L

response 49986

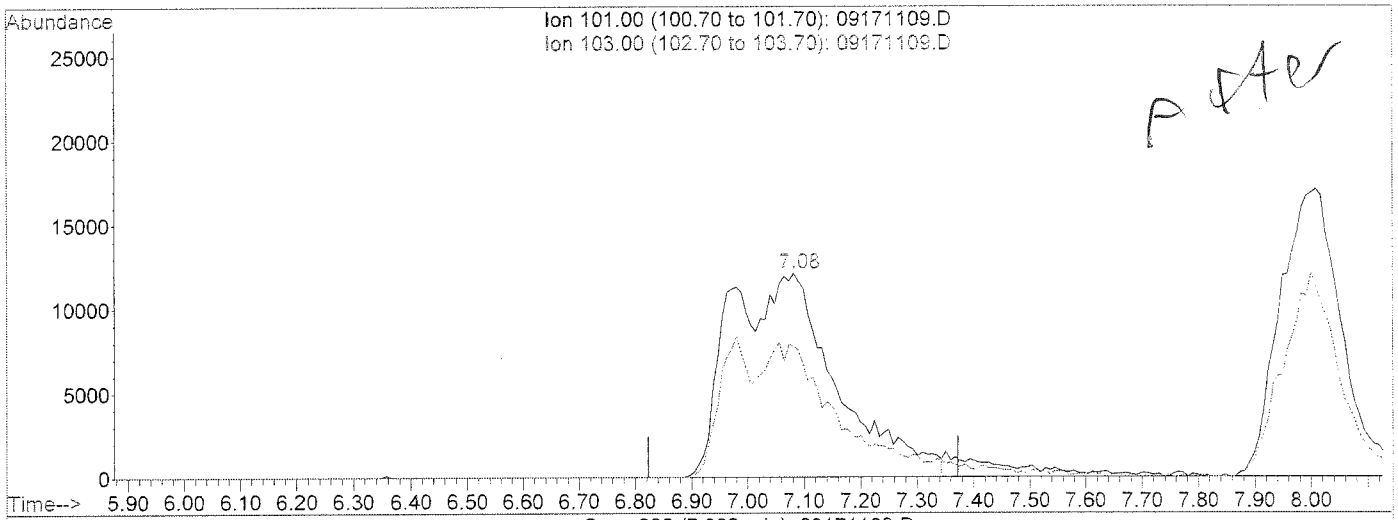
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	73.69
0.00	0.00	0.00
0.00	0.00	0.00

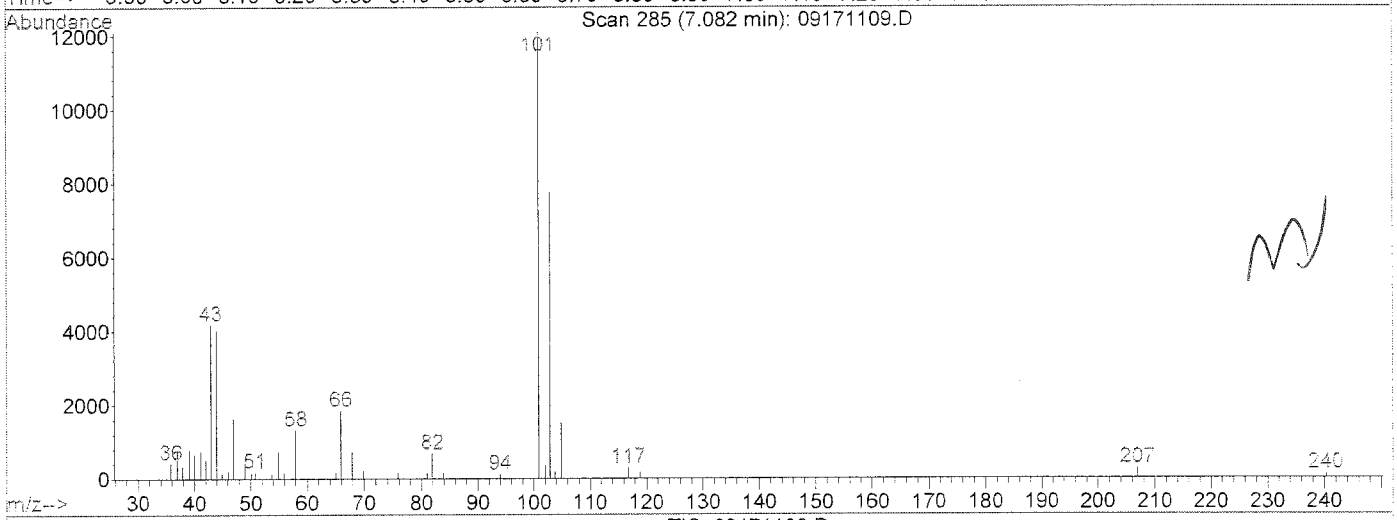
09171109.D 091711.M Mon Sep 19 13:52:23 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171109.D

(12) Trichlorofluoromethane (T)

7.08min 9.85ug/L m

response 158532

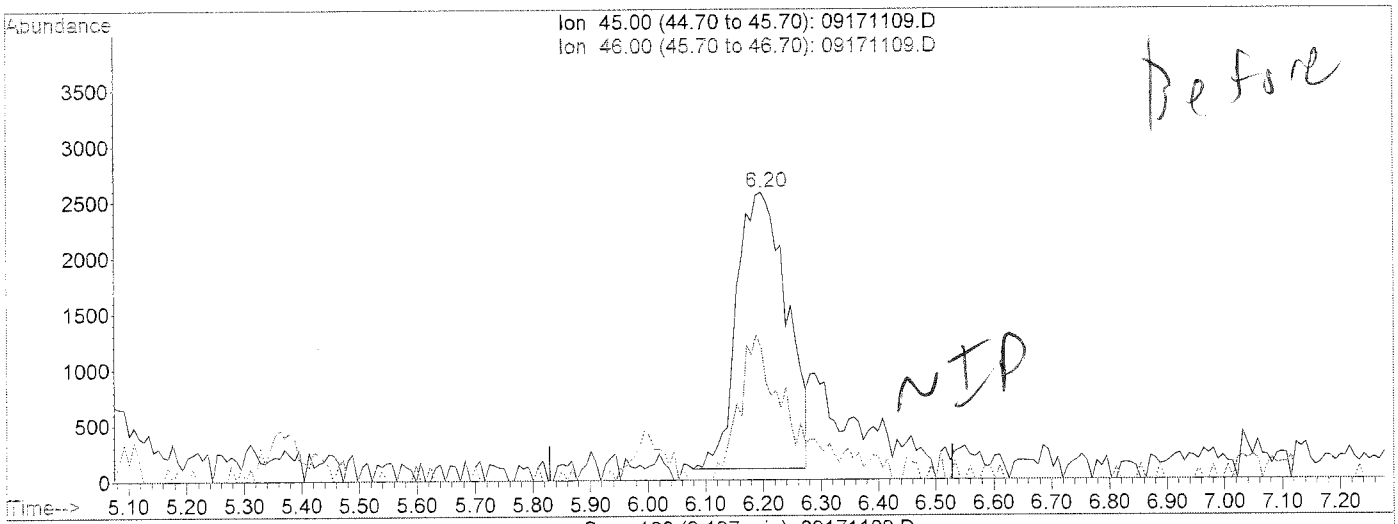
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	64.05
0.00	0.00	0.00
0.00	0.00	0.00

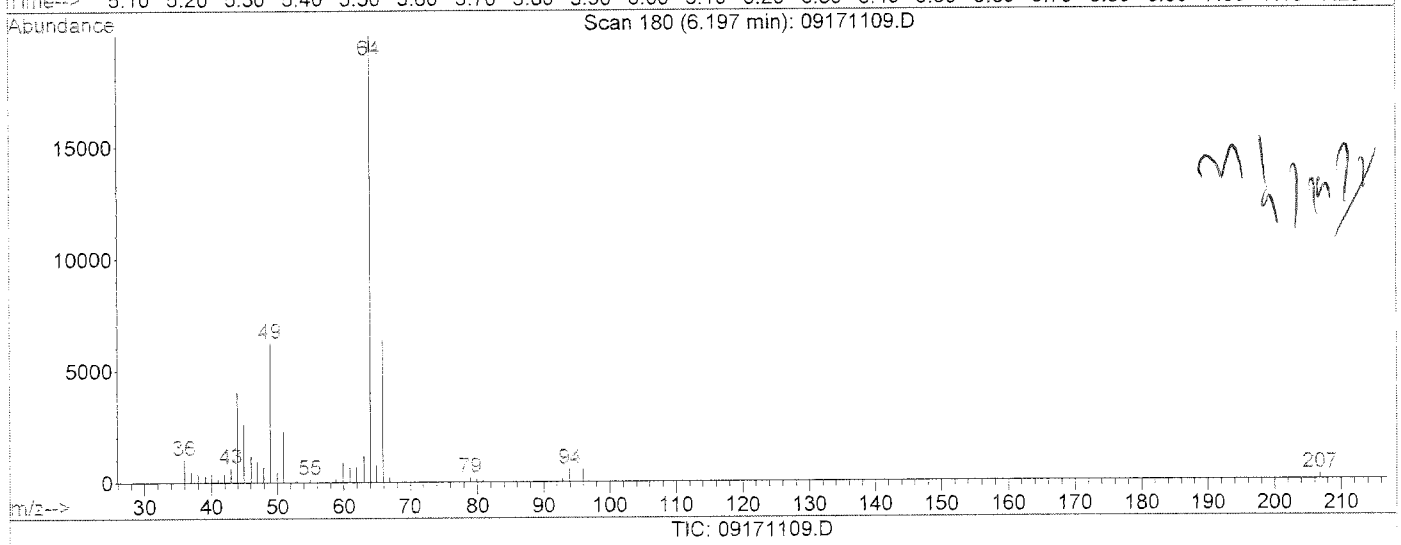
09171109.D 091711.M Mon Sep 19 13:52:35 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171109.D

(2) Ethanol (T)

6.20min 80.19ug/L

response 14778

Ion	Exp%	Act%
45.00	100	100
46.00	15.90	40.52#
0.00	0.00	0.00
0.00	0.00	0.00

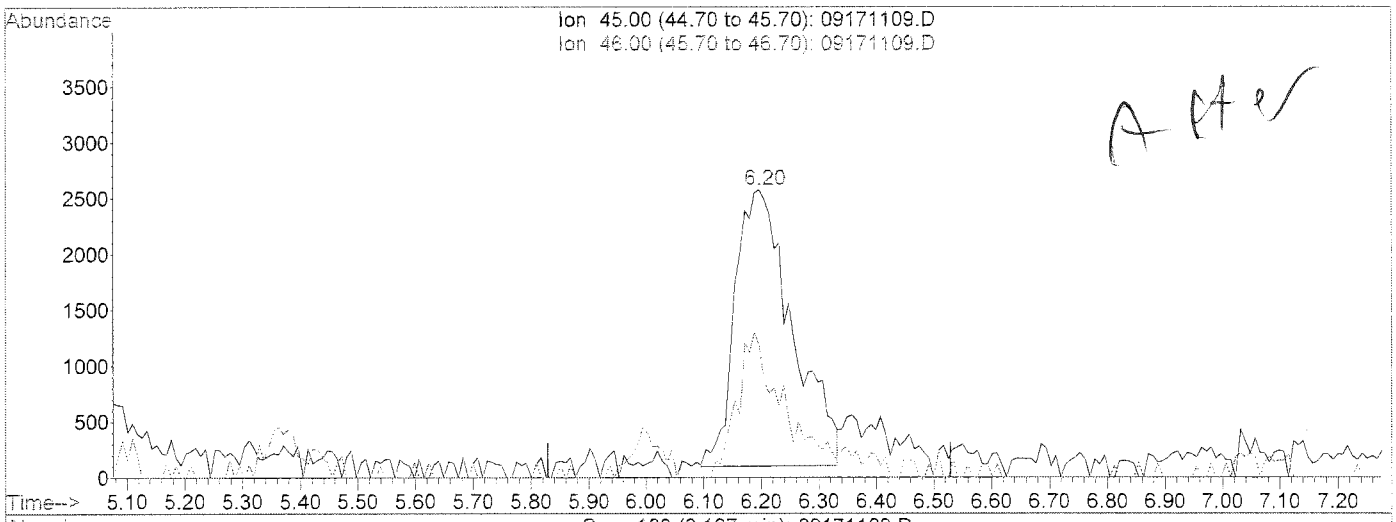
9/20/11

09171109.D 091711.M Mon Sep 19 13:52:42 2011

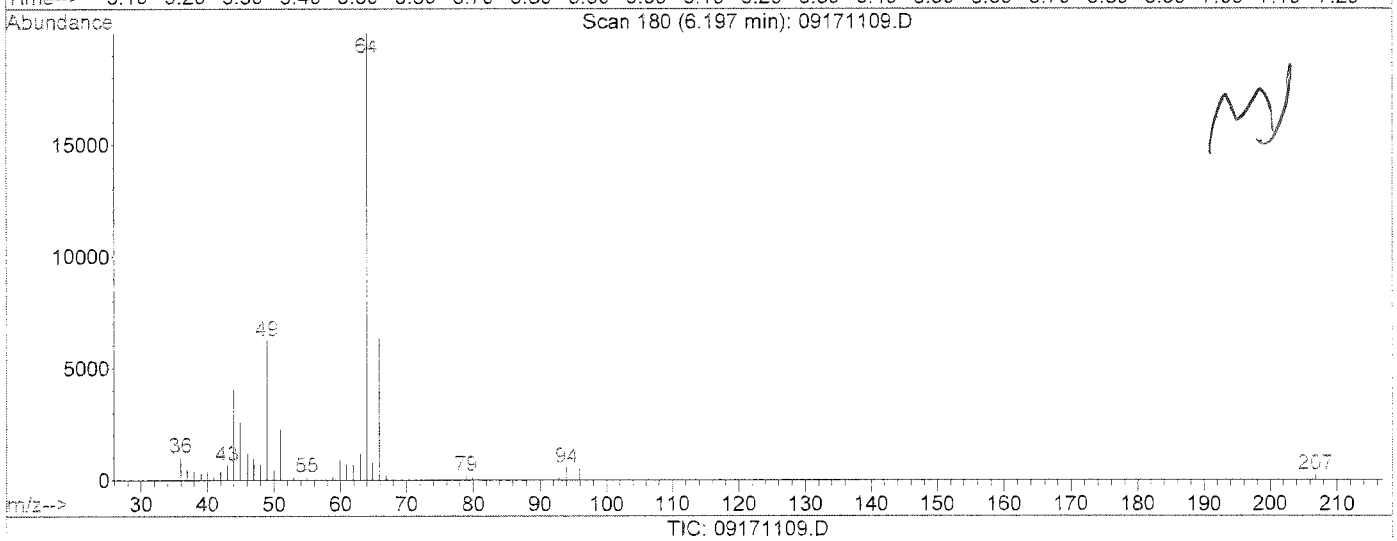
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



After



TIC: 09171109.D

MJ

(2) Ethanol (T)

6.20min 96.53ug/L m

response 16959

ion	Exp%	Act%
45.00	100	100
46.00	15.90	35.31#
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

09171109.D 091711.M Mon Sep 19 13:53:01 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

Re-calc 9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	110127	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	566698	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	932152	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	820055	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	351636	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	326170	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.00%	
50) Toluene-d8 (surr)	14.20	98	998879	25.30 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.20%	
64) 4-Bromofluorobenzene (surr	17.84	95	381444	25.17 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.68%	

MI 9/19/11

Target Compounds					Qvalue
2) Ethanol	6.20	45	16959m	96.53 ug/L	
3) tert-Butanol (TBA)	7.70	59	49210	49.16 ug/L	100
5) Dichlorodifluoromethane	4.89	85	182567	9.86 ug/L	89
6) Chloromethane	5.13	50	292989	10.50 ug/L	100
7) Vinyl Chloride	5.47	62	189318	9.72 ug/L	100
8) 1,3-Butadiene	5.56	54	121062	9.88 ug/L	97
9) Bromomethane	6.00	94	152764	9.97 ug/L	100
10) Chloroethane	6.21	64	117451	9.74 ug/L	99
11) Acrolein	6.95	56	11399	9.93 ug/L	99
12) Trichlorofluoromethane	7.08	101	158532m	9.85 ug/L	
13) Acetone	7.12	43	71504	14.39 ug/L	98
14) Acrylonitrile	7.75	53	33447	9.79 ug/L	91
15) Iodomethane	7.77	142	233288	9.92 ug/L	100
16) 1,1-Dichloroethene	7.71	96	137575	9.61 ug/L	98
17) Methylene Chloride	7.88	84	174382	9.55 ug/L	99
18) Freon 113	8.01	101	128933	9.39 ug/L	98
19) Carbon Disulfide	8.22	76	387207	10.18 ug/L #	77
20) trans-1,2-Dichloroethene	8.75	96	188769	9.98 ug/L	98
21) MTBE	8.89	73	317494	10.10 ug/L	99
22) 1,1-Dichloroethane	9.07	63	356605	10.24 ug/L	100
23) Vinyl Acetate	9.21	43	232348	9.63 ug/L	99
24) n-Hexane	9.58	86	33518	9.26 ug/L #	87
25) 2-Butanone (MEK)	9.60	72	12771	10.88 ug/L #	62
26) Diisopropylether (DIPE)	9.60	45	746445	10.31 ug/L	100
27) cis-1,2-Dichloroethene	9.80	96	202656	9.94 ug/L	98
28) Bromochloromethane	10.01	128	86810	10.12 ug/L	97
29) Chloroform	10.06	83	333044	10.19 ug/L	100
30) 2,2-Dichloropropane	10.17	77	144578	10.24 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	440754	10.27 ug/L	99
33) Tetrahydrofuran	10.49	72	10886	9.55 ug/L	92
34) 1,2-Dichloroethane	10.90	62	204621	10.25 ug/L	100
35) 1,1,1-Trichloroethane	11.03	97	231046	10.31 ug/L	99
36) (TAME) tert-Amyl methyl et	11.73	73	296827	9.91 ug/L	99
38) 1,1-Dichloropropene	11.26	75	233009	10.23 ug/L	100
39) Carbon Tetrachloride	11.51	117	198140	10.12 ug/L	99
0) Benzene	11.56	78	660248	10.20 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

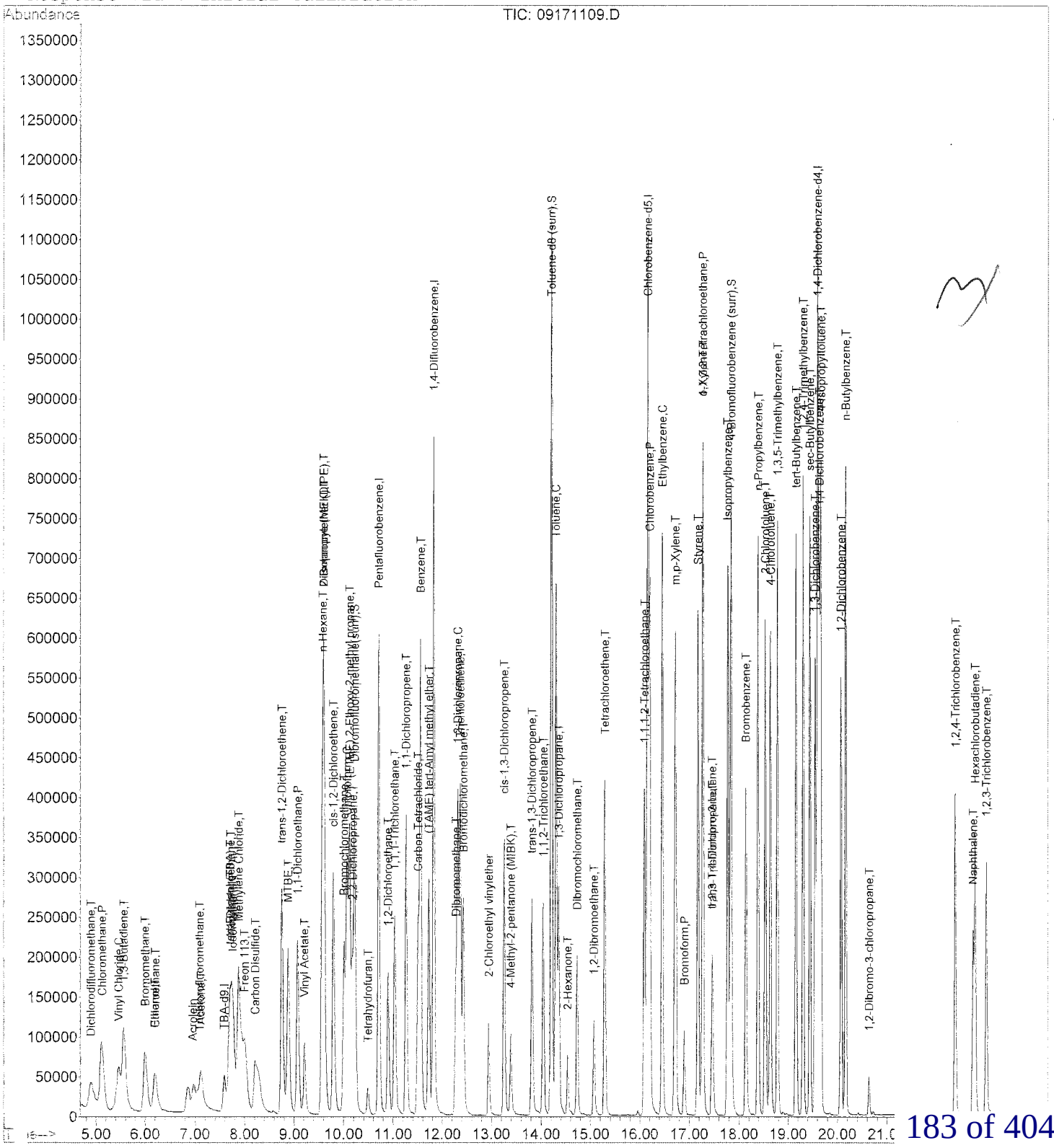
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	96042	10.66 ug/L	96
42)	1,2-Dichloropropane	12.32	63	188518	10.45 ug/L	99
43)	Trichloroethene	12.37	95	177529	10.00 ug/L	99
44)	Bromodichloromethane	12.43	83	227916	10.64 ug/L	99
45)	2-Chloroethyl vinylether	12.95	63	64166	10.97 ug/L	98
46)	cis-1,3-Dichloropropene	13.26	75	250097	10.79 ug/L	100
47)	4-Methyl-2-pentanone (MIBK	13.39	43	110470	10.54 ug/L	98
48)	trans-1,3-Dichloropropene	13.82	75	194092	10.82 ug/L	98
49)	1,1,2-Trichloroethane	14.04	97	112394	10.30 ug/L	98
51)	Toluene	14.30	92	375299	10.11 ug/L	99
53)	1,3-Dichloropropane	14.35	76	190639	10.20 ug/L	99
54)	2-Hexanone	14.54	43	81093	11.03 ug/L	98
55)	Dibromochloromethane	14.73	129	135057	10.59 ug/L	97
56)	1,2-Dibromoethane	15.07	107	113124	10.28 ug/L	99
57)	Tetrachloroethene	15.29	164	128230	10.05 ug/L	100
58)	1,1,1,2-Tetrachloroethane	16.09	131	147905	10.34 ug/L	99
59)	Chlorobenzene	16.20	112	447030	10.29 ug/L	98
60)	Ethylbenzene	16.45	91	711163	10.38 ug/L	99
61)	m,p-Xylene	16.71	106	277979	9.94 ug/L	100
62)	Styrene	17.18	104	417160	10.71 ug/L	100
63)	o-Xylene	17.27	106	265103	10.19 ug/L	100
66)	Bromoform	16.90	173	67759	9.40 ug/L	96
67)	1,1,2,2-Tetrachloroethane	17.26	83	111015	10.39 ug/L	100
68)	1,2,3-Trichloropropane	17.46	110	29913	10.16 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.47	53	27266	10.19 ug/L	95
70)	Isopropylbenzene	17.77	105	607708	10.35 ug/L	99
71)	Bromobenzene	18.14	156	156663	10.06 ug/L	99
72)	n-Propylbenzene	18.38	91	774527	10.33 ug/L	100
73)	2-Chlorotoluene	18.53	91	472219	10.08 ug/L	99
74)	4-Chlorotoluene	18.64	91	478895	10.35 ug/L	100
75)	1,3,5-Trimethylbenzene	18.78	105	525542	10.28 ug/L	100
76)	tert-Butylbenzene	19.16	119	438721	10.32 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	543180	10.39 ug/L	99
78)	sec-Butylbenzene	19.44	105	670596	10.14 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	291107	10.09 ug/L	100
80)	1,4-Dichlorobenzene	19.63	146	289799	10.15 ug/L	99
81)	4-Isopropyltoluene	19.66	119	551992	10.29 ug/L	99
82)	1,2-Dichlorobenzene	20.07	146	259356	10.35 ug/L	99
83)	n-Butylbenzene	20.16	91	528017	10.19 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	13754	10.28 ug/L	95
85)	1,2,4-Trichlorobenzene	22.38	180	170097	10.19 ug/L	99
86)	Naphthalene	22.73	128	234553	10.77 ug/L	100
87)	Hexachlorobutadiene	22.77	225	98068	9.59 ug/L	99
88)	1,2,3-Trichlorobenzene	23.00	180	137462	10.44 ug/L	98

(#) = qualifier out of range (m) = manual integration
09171109.D 091711.M Mon Sep 19 13:53:10 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171109.D Vial: 9
Acq On : 17 Sep 2011 2:14 pm Operator: KH
Sample : 10.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:52 2011 Quant Results File: 091711.RES

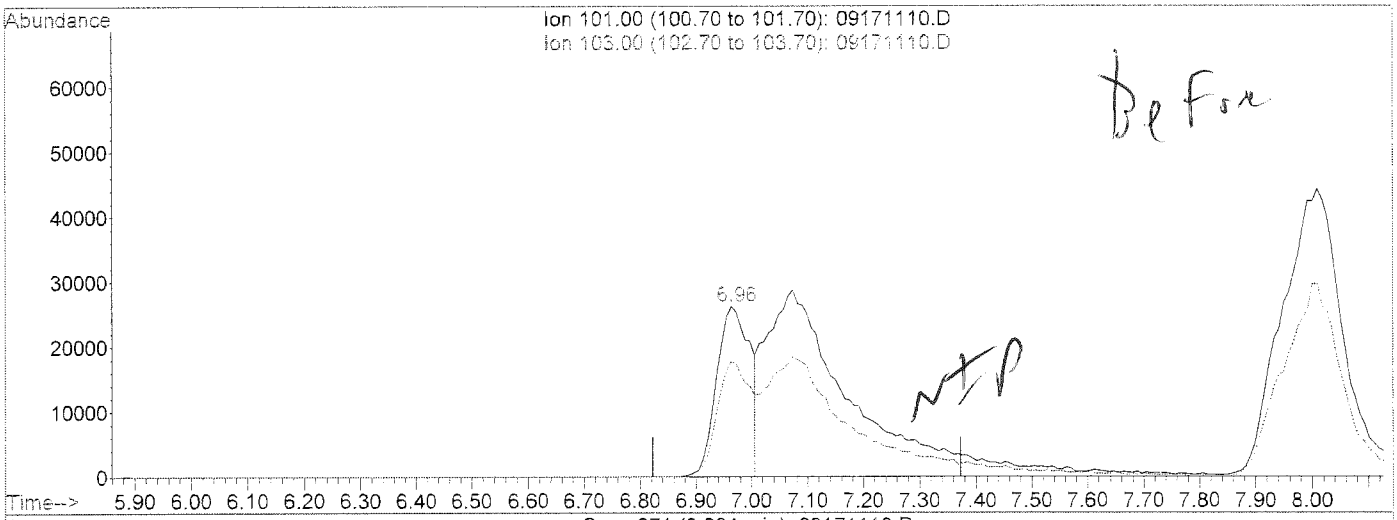
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

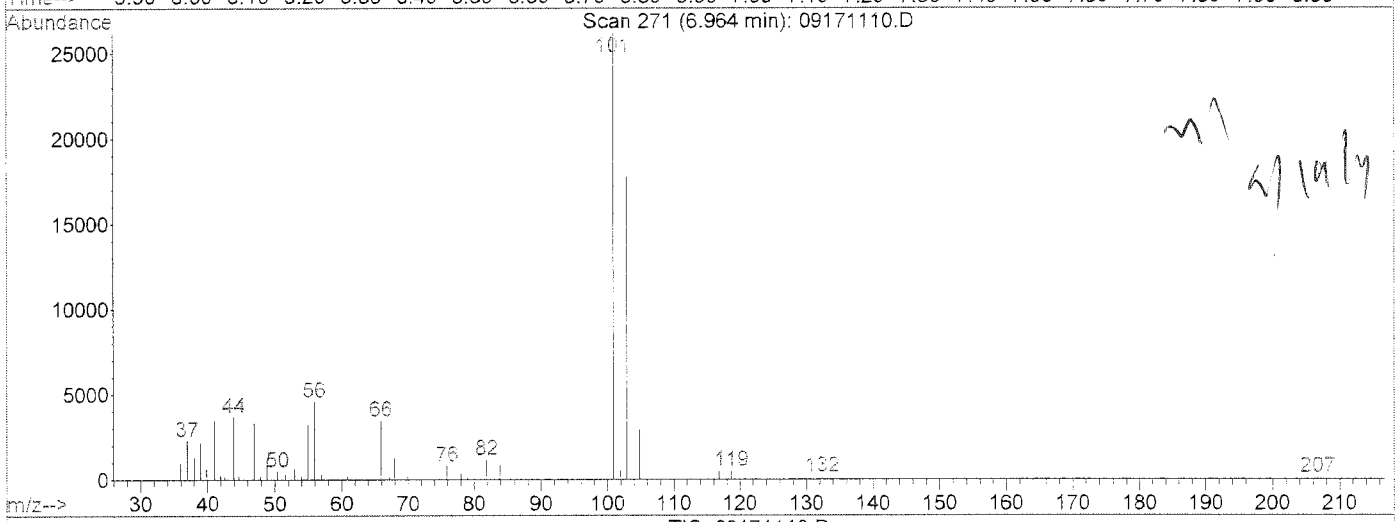


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171110.D

(12) Trichlorofluoromethane (T)

6.96min 7.19ug/L

response 110857

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	67.68
0.00	0.00	0.00
0.00	0.00	0.00

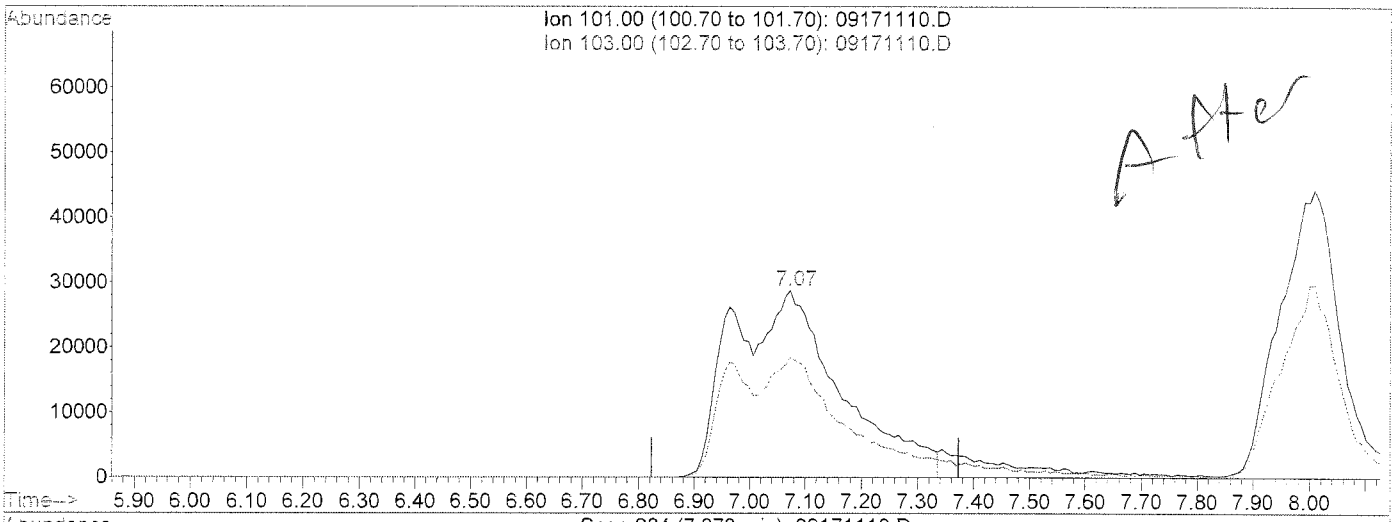
9/20/11

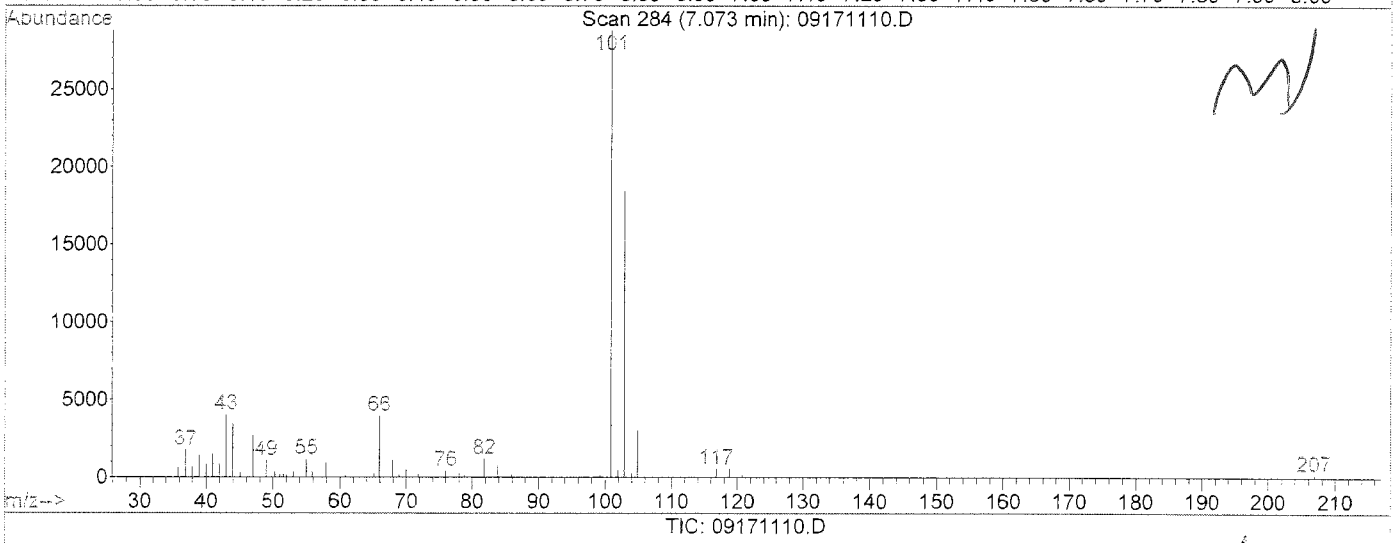
09171110.D 091711.M Mon Sep 19 13:53:23 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





9/20/11

(12) Trichlorofluoromethane (T)

7.07min 25.21ug/L m

response 388674

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	63.96
0.00	0.00	0.00
0.00	0.00	0.00

09171110.D 091711.M Mon Sep 19 13:53:35 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:53 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11
Re-Calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	110195	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	543057	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	902453	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	810477	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	344283	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	310179	24.81 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.24%	
50) Toluene-d8 (surr)	14.20	98	964765	25.24 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.96%	
64) 4-Bromofluorobenzene (surr	17.84	95	371038	24.77 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.08%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	42920	290.94 ug/L	100
3) tert-Butanol (TBA)	7.69	59	120303	120.11 ug/L	100
5) Dichlorodifluoromethane	4.88	85	465099	26.20 ug/L	100
6) Chloromethane	5.13	50	664170	24.85 ug/L	100
7) Vinyl Chloride	5.47	62	414183	22.19 ug/L	100
8) 1,3-Butadiene	5.56	54	280571	23.91 ug/L	100
9) Bromomethane	6.00	94	349455	23.80 ug/L	100
10) Chloroethane	6.19	64	282471	24.46 ug/L	100
11) Acrolein	6.95	56	27443	24.96 ug/L	100
12) Trichlorofluoromethane	7.07	101	388674m	25.21 ug/L	
13) Acetone	7.12	43	102188	23.02 ug/L	100
14) Acrylonitrile	7.75	53	80476	24.59 ug/L	100
15) Iodomethane	7.76	142	550245	24.43 ug/L	100
16) 1,1-Dichloroethene	7.71	96	333585	24.31 ug/L	100
17) Methylene Chloride	7.87	84	408905	23.37 ug/L	100
18) Freon 113	8.01	101	336093	25.54 ug/L	100
19) Carbon Disulfide	8.21	76	921091	25.28 ug/L	100
20) trans-1,2-Dichloroethene	8.75	96	453417	25.02 ug/L	100
21) MTBE	8.88	73	755681	25.08 ug/L	100
22) 1,1-Dichloroethane	9.07	63	845275	25.33 ug/L	100
23) Vinyl Acetate	9.21	43	666770	28.83 ug/L	100
24) n-Hexane	9.57	86	88875	25.61 ug/L	100
25) 2-Butanone (MEK)	9.59	72	25863	23.00 ug/L #	98
26) Diisopropylether (DIPE)	9.60	45	1716639	24.75 ug/L	100
27) cis-1,2-Dichloroethene	9.80	96	479860	24.57 ug/L	100
28) Bromochloromethane	10.01	128	208492	25.36 ug/L	100
29) Chloroform	10.06	83	781173	24.94 ug/L	100
30) 2,2-Dichloropropane	10.17	77	352408	26.06 ug/L	100
31) (ETBE) 2-Ethoxy-2-methyl p	10.12	59	1050610	25.53 ug/L	100
33) Tetrahydrofuran	10.48	72	26182	26.27 ug/L	100
34) 1,2-Dichloroethane	10.90	62	484076	25.31 ug/L	100
35) 1,1,1-Trichloroethane	11.03	97	556651	25.91 ug/L	100
36) (TAME) tert-Amyl methyl et	11.73	73	737359	25.70 ug/L	100
38) 1,1-Dichloropropene	11.26	75	564784	25.62 ug/L	100
39) Carbon Tetrachloride	11.51	117	500248	26.39 ug/L	100
0) Benzene	11.56	78	1561465	24.93 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:53 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

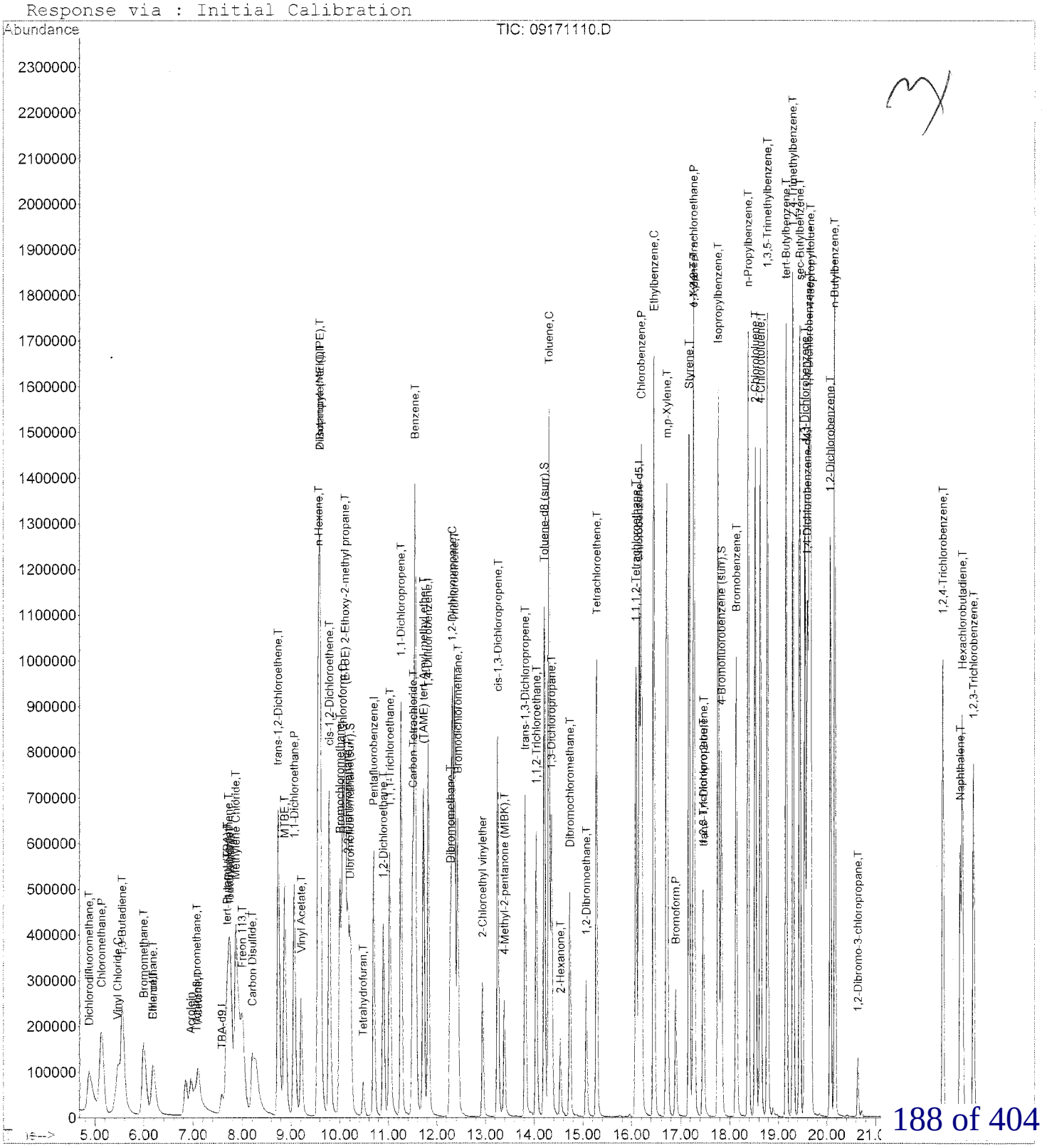
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41)	Dibromomethane	12.27	93	225070	25.80	ug/L	100
42)	1,2-Dichloropropane	12.32	63	435031	24.91	ug/L	100
43)	Trichloroethene	12.37	95	423880	24.66	ug/L	100
44)	Bromodichloromethane	12.43	83	541329	26.09	ug/L	100
45)	2-Chloroethyl vinylether	12.94	63	159606	28.17	ug/L	100
46)	cis-1,3-Dichloropropene	13.26	75	604494	26.93	ug/L	100
47)	4-Methyl-2-pentanone (MIBK	13.39	43	270061	26.60	ug/L	100
48)	trans-1,3-Dichloropropene	13.82	75	479331	27.61	ug/L	100
49)	1,1,2-Trichloroethane	14.04	97	267947	25.36	ug/L	100
51)	Toluene	14.30	92	881260	24.52	ug/L	100
53)	1,3-Dichloropropane	14.35	76	454165	24.58	ug/L	100
54)	2-Hexanone	14.54	43	171969	23.67	ug/L	100
55)	Dibromochloromethane	14.73	129	341378	27.08	ug/L	100
56)	1,2-Dibromoethane	15.07	107	279268	25.68	ug/L	100
57)	Tetrachloroethene	15.29	164	307091	24.36	ug/L	100
58)	1,1,1,2-Tetrachloroethane	16.09	131	365562	25.86	ug/L	100
59)	Chlorobenzene	16.21	112	1057067	24.61	ug/L	100
60)	Ethylbenzene	16.46	91	1648716	24.34	ug/L	100
61)	m,p-Xylene	16.72	106	648203	23.45	ug/L	100
62)	Styrene	17.18	104	1000800	25.99	ug/L	100
63)	o-Xylene	17.28	106	614056	23.88	ug/L	100
66)	Bromoform	16.90	173	171926	23.76	ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.26	83	259874	24.83	ug/L	100
68)	1,2,3-Trichloropropane	17.46	110	72010	24.97	ug/L	100
69)	trans-1,4-Dichloro-2-buten	17.48	53	71246	27.20	ug/L	100
70)	Isopropylbenzene	17.77	105	1422561	24.75	ug/L	100
71)	Bromobenzene	18.14	156	378551	24.83	ug/L	100
72)	n-Propylbenzene	18.38	91	1821080	24.80	ug/L	100
73)	2-Chlorotoluene	18.53	91	1120482	24.43	ug/L	100
74)	4-Chlorotoluene	18.64	91	1132077	24.99	ug/L	100
75)	1,3,5-Trimethylbenzene	18.78	105	1249127	24.95	ug/L	100
76)	tert-Butylbenzene	19.16	119	1043093	25.06	ug/L	100
77)	1,2,4-Trimethylbenzene	19.30	105	1268827	24.80	ug/L	100
78)	sec-Butylbenzene	19.44	105	1584746	24.46	ug/L	100
79)	1,3-Dichlorobenzene	19.55	146	700930	24.80	ug/L	100
80)	1,4-Dichlorobenzene	19.63	146	680065	24.32	ug/L	100
81)	4-Isopropyltoluene	19.66	119	1309540	24.92	ug/L	100
82)	1,2-Dichlorobenzene	20.07	146	622517	25.37	ug/L	100
83)	n-Butylbenzene	20.16	91	1258746	24.82	ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.64	75	35255	26.90	ug/L	100
85)	1,2,4-Trichlorobenzene	22.38	180	428290	26.21	ug/L	100
86)	Naphthalene	22.73	128	598335	28.07	ug/L	100
87)	Hexachlorobutadiene	22.77	225	245264	24.51	ug/L	100
88)	1,2,3-Trichlorobenzene	23.00	180	341638	26.50	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171110.D Vial: 10
Acq On : 17 Sep 2011 2:45 pm Operator: KH
Sample : 25.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:53 2011 Quant Results File: 091711.RES

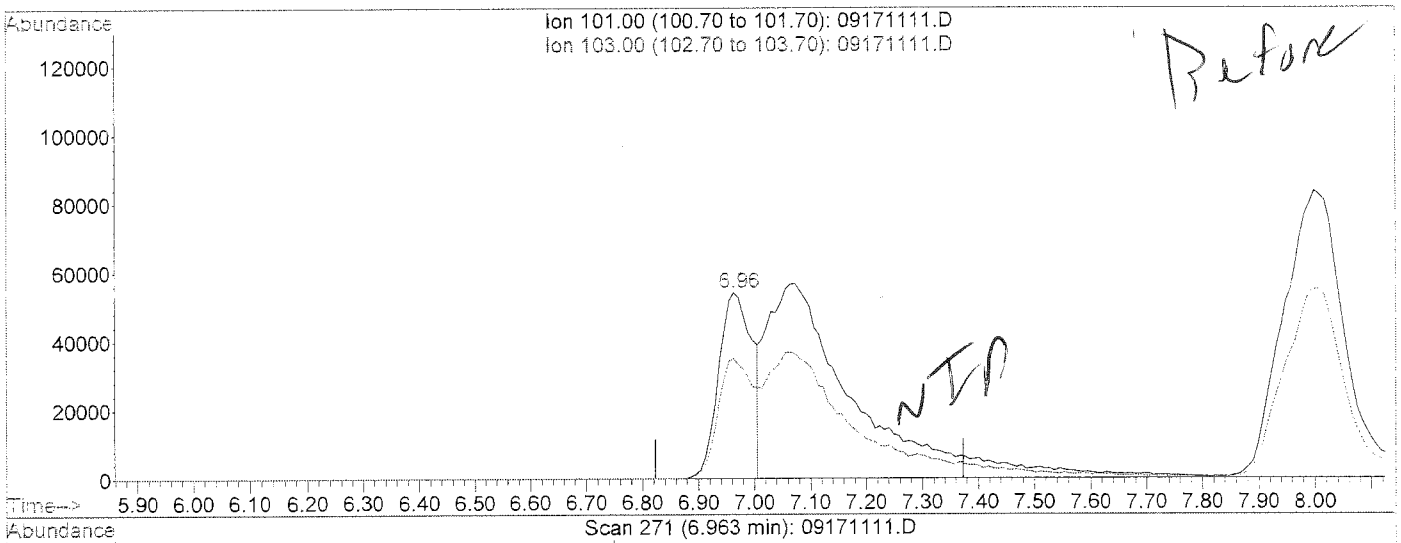
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

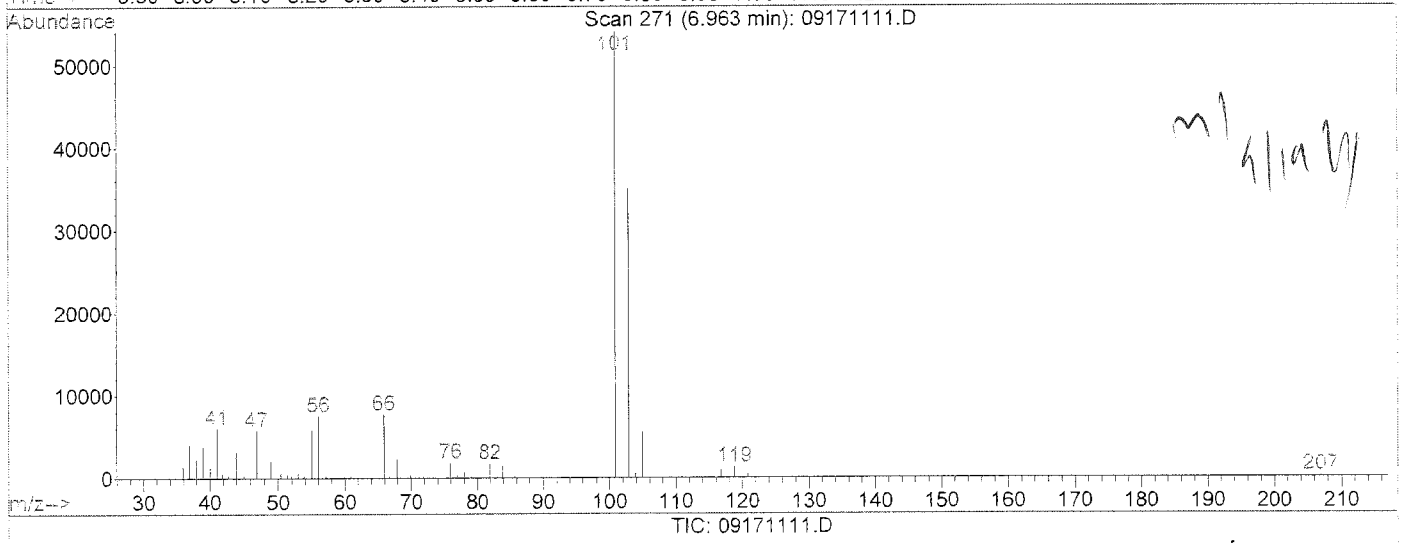


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

(12) Trichlorofluoromethane (T)

6.96min 15.03ug/L

response 228085

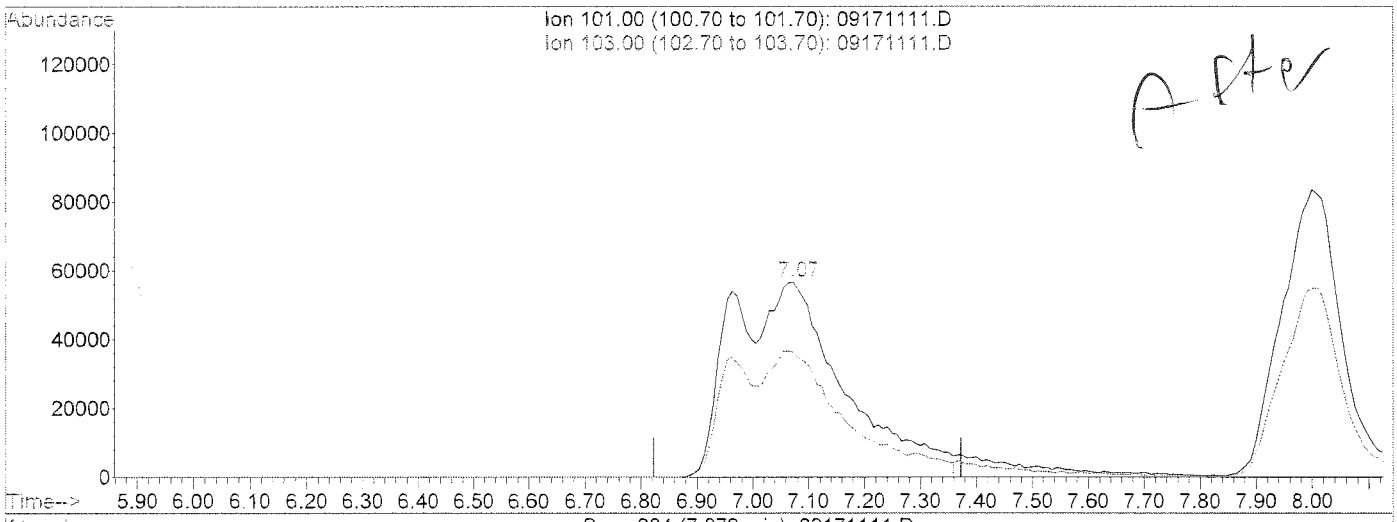
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	64.69
0.00	0.00	0.00
0.00	0.00	0.00

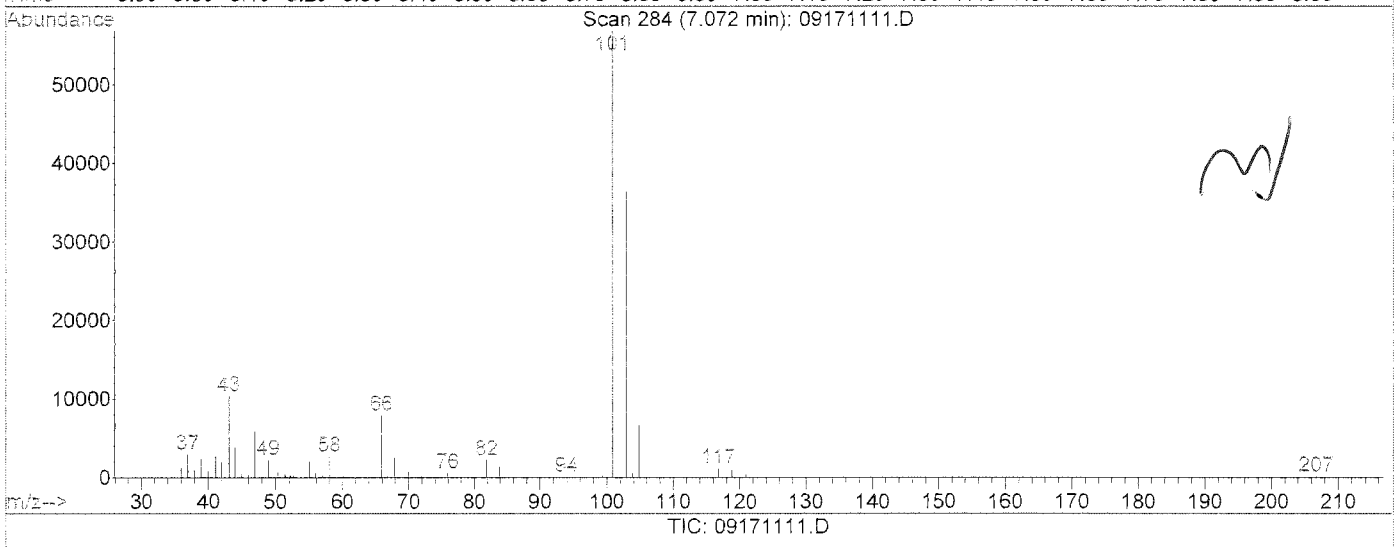
09171111.D 091711.M Mon Sep 19 13:53:56 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

(12) Trichlorofluoromethane (T)

7.07min 52.17ug/L m

response 791805

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	63.98
0.00	0.00	0.00
0.00	0.00	0.00

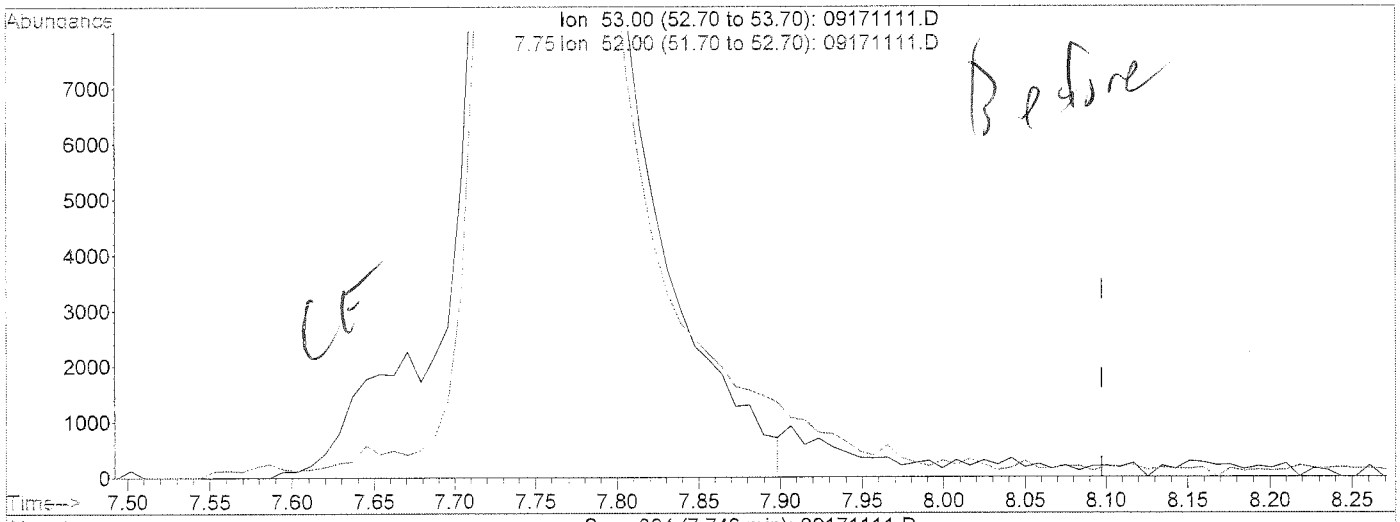
9/20/11

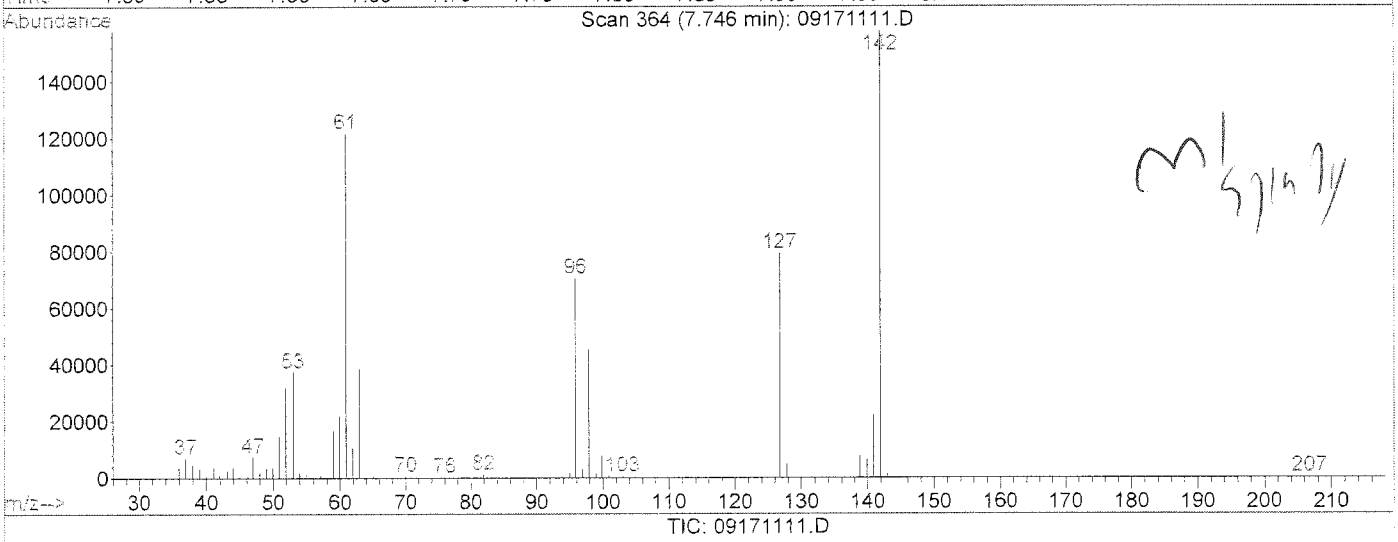
09171111.D 091711.M Mon Sep 19 13:54:10 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

(14) Acrylonitrile

7.75min 50.97ug/L

response 164219

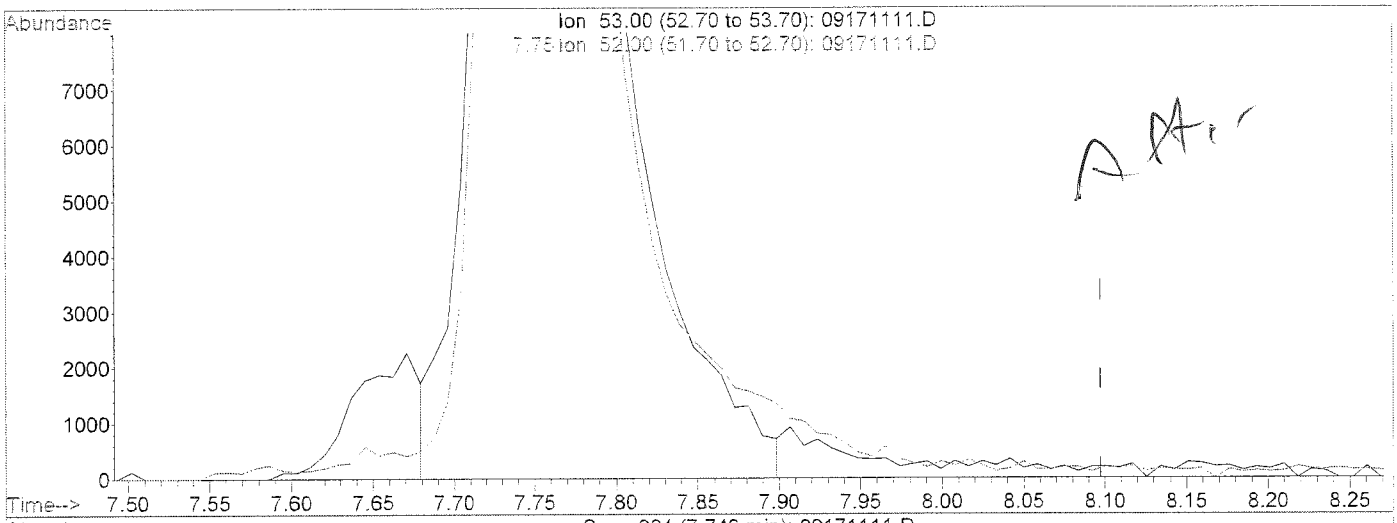
Ion	Exp%	Act%
53.00	100	100
52.00	90.00	81.69
0.00	0.00	0.00
0.00	0.00	0.00

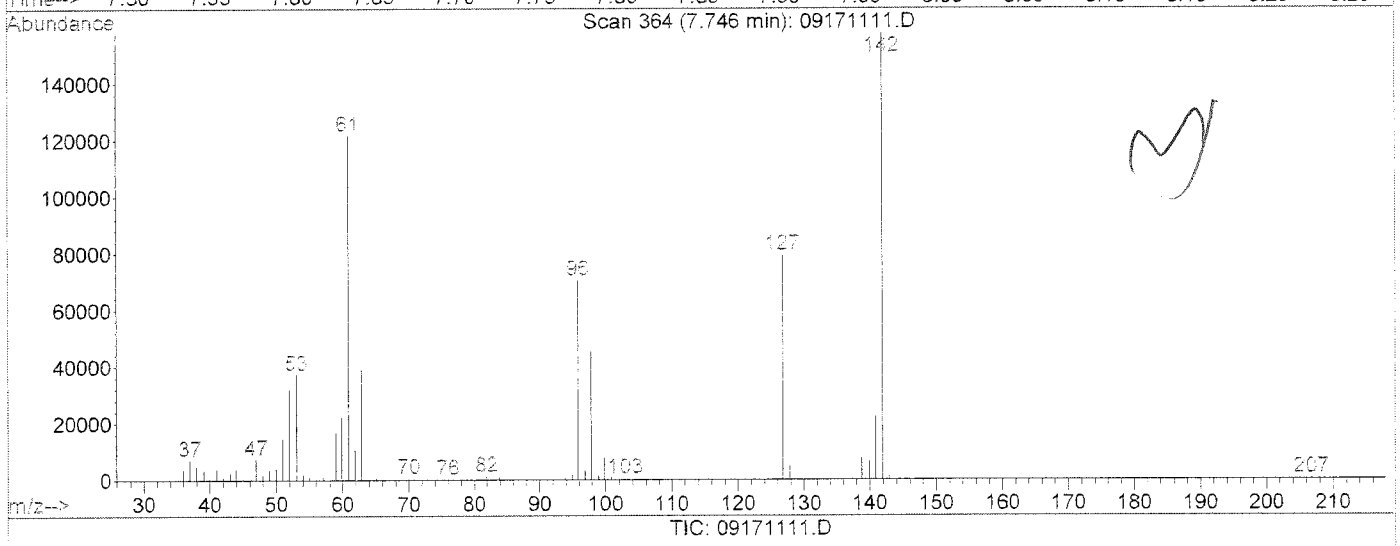
09171111.D 091711.M Mon Sep 19 13:54:26 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171111.D

9/20/11

(14) Acrylonitrile

7.75min 48.99ug/L m

response 157838

ion	Exp%	Act%
53.00	100	100
52.00	90.00	84.99
0.00	0.00	0.00
0.00	0.00	0.00

09171111.D 091711.M Mon Sep 19 13:54:45 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	104385	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	534577	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	898739	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	810521	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	342057	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	305912	24.86 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.44%	
50) Toluene-d8 (surr)	14.20	98	942106	24.75 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.00%	
64) 4-Bromofluorobenzene (surr	17.83	95	362557	24.20 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.80%	

M 9/19/11

Target Compounds					Qvalue
2) Ethanol	6.18	45	67202	500.87 ug/L #	57
3) tert-Butanol (TBA)	7.70	59	222133	234.11 ug/L	99
5) Dichlorodifluoromethane	4.88	85	917545	52.51 ug/L	99
6) Chloromethane	5.15	50	1232240	46.84 ug/L	99
7) Vinyl Chloride	5.48	62	717887	39.07 ug/L	99
8) 1,3-Butadiene	5.56	54	505122	43.72 ug/L	100
9) Bromomethane	6.01	94	681153	47.13 ug/L	100
10) Chloroethane	6.20	64	553684	48.70 ug/L	99
11) Acrolein	6.94	56	50174	46.35 ug/L	97
12) Trichlorofluoromethane	7.07	101	791805m	52.17 ug/L	
13) Acetone	7.11	43	242153	50.25 ug/L	100
14) Acrylonitrile	7.75	53	157838m	48.99 ug/L	
15) Iodomethane	7.77	142	1107994	49.96 ug/L	100
16) 1,1-Dichloroethene	7.71	96	647272	47.92 ug/L	99
17) Methylene Chloride	7.87	84	777904	45.17 ug/L	100
18) Freon 113	8.00	101	632338	48.80 ug/L	98
19) Carbon Disulfide	8.21	76	1959114	54.62 ug/L #	83
20) trans-1,2-Dichloroethene	8.74	96	889287	49.84 ug/L	99
21) MTBE	8.88	73	1482868	49.99 ug/L	99
22) 1,1-Dichloroethane	9.07	63	1640355	49.93 ug/L	99
23) Vinyl Acetate	9.21	43	1271036	55.83 ug/L	99
24) n-Hexane	9.57	86	160006	46.85 ug/L	99
25) 2-Butanone (MEK)	9.60	72	55355	50.01 ug/L #	58
26) Diisopropylether (DIPE)	9.61	45	3185068	46.65 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	929335	48.33 ug/L	99
28) Bromochloromethane	10.01	128	407677	50.38 ug/L	98
29) Chloroform	10.06	83	1479575	47.98 ug/L	99
30) 2,2-Dichloropropane	10.17	77	729222	54.78 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	2078048	51.31 ug/L	100
33) Tetrahydrofuran	10.48	72	48142	50.41 ug/L	96
34) 1,2-Dichloroethane	10.90	62	942504	50.07 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	1093500	51.70 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	1507020	53.36 ug/L	99
38) 1,1-Dichloropropene	11.26	75	1086208	49.47 ug/L	99
39) Carbon Tetrachloride	11.51	117	992306	52.56 ug/L	100
0) Benzene	11.56	78	2969142	47.59 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

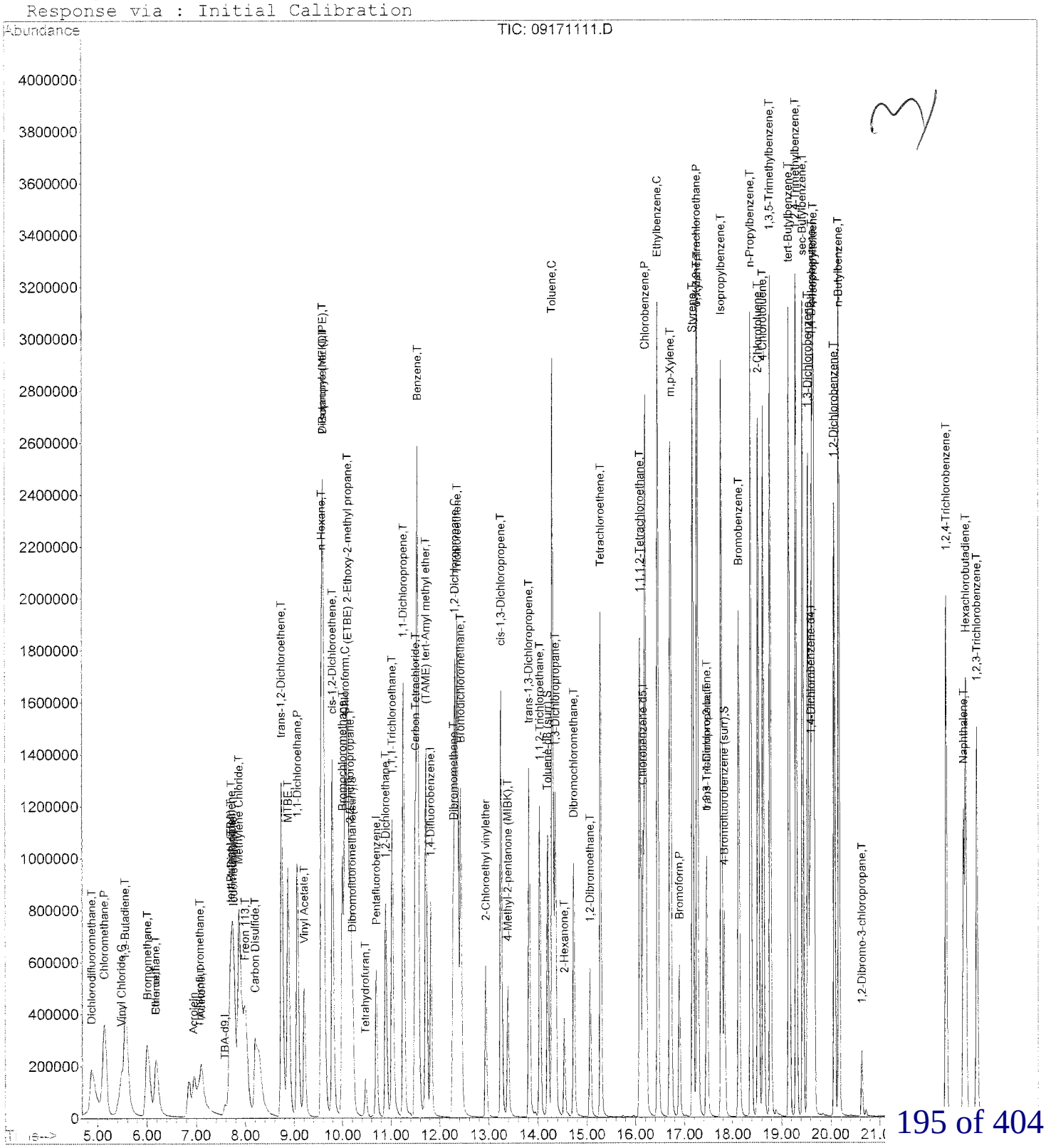
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.28	93	436745	50.27 ug/L	98
42)	1,2-Dichloropropane	12.31	63	830877	47.77 ug/L	99
43)	Trichloroethene	12.36	95	818494	47.81 ug/L	98
44)	Bromodichloromethane	12.43	83	1077643	52.16 ug/L	99
45)	2-Chloroethyl vinylether	12.95	63	318650	56.48 ug/L	97
46)	cis-1,3-Dichloropropene	13.26	75	1187874	53.14 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	527939	52.22 ug/L	100
48)	trans-1,3-Dichloropropene	13.82	75	952429	55.08 ug/L	99
49)	1,1,2-Trichloroethane	14.04	97	520389	49.46 ug/L	99
51)	Toluene	14.30	92	1676692	46.84 ug/L	99
53)	1,3-Dichloropropane	14.36	76	884225	47.85 ug/L	100
54)	2-Hexanone	14.54	43	380328	52.34 ug/L	99
55)	Dibromochloromethane	14.73	129	692445	54.93 ug/L	100
56)	1,2-Dibromoethane	15.07	107	555178	51.05 ug/L	99
57)	Tetrachloroethene	15.29	164	600148	47.61 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.10	131	717689	50.76 ug/L	98
59)	Chlorobenzene	16.21	112	2058568	47.92 ug/L	99
60)	Ethylbenzene	16.46	91	3075129	45.40 ug/L	98
61)	m,p-Xylene	16.72	106	1251765	45.28 ug/L	97
62)	Styrene	17.18	104	1925679	50.01 ug/L	99
63)	o-Xylene	17.28	106	1169626	45.48 ug/L	97
66)	Bromoform	16.90	173	360620	49.74 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.26	83	477027	45.87 ug/L	100
68)	1,2,3-Trichloropropane	17.46	110	143658	50.15 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.48	53	146614	56.34 ug/L	96
70)	Isopropylbenzene	17.78	105	2691801	47.13 ug/L	100
71)	Bromobenzene	18.14	156	734183	48.48 ug/L	99
72)	n-Propylbenzene	18.38	91	3337916	45.75 ug/L	98
73)	2-Chlorotoluene	18.53	91	2094941	45.96 ug/L	98
74)	4-Chlorotoluene	18.63	91	2100260	46.66 ug/L	98
75)	1,3,5-Trimethylbenzene	18.78	105	2339436	47.04 ug/L	99
76)	tert-Butylbenzene	19.16	119	1973465	47.72 ug/L	98
77)	1,2,4-Trimethylbenzene	19.30	105	2337034	45.97 ug/L	98
78)	sec-Butylbenzene	19.44	105	2861335	44.46 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	1334102	47.51 ug/L	99
80)	1,4-Dichlorobenzene	19.64	146	1302611	46.89 ug/L	99
81)	4-Isopropyltoluene	19.66	119	2399979	45.98 ug/L	99
82)	1,2-Dichlorobenzene	20.08	146	1198983	49.17 ug/L	99
83)	n-Butylbenzene	20.17	91	2313406	45.91 ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.64	75	71674	55.05 ug/L	97
85)	1,2,4-Trichlorobenzene	22.38	180	868760	53.51 ug/L	100
86)	Naphthalene	22.73	128	1213601	57.31 ug/L	99
87)	Hexachlorobutadiene	22.77	225	497857	50.07 ug/L	99
88)	1,2,3-Trichlorobenzene	23.01	180	692741	54.08 ug/L	99

(#) = qualifier out of range (m) = manual integration
09171111.D 091711.M Mon Sep 19 13:54:52 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171111.D Vial: 11
Acq On : 17 Sep 2011 3:16 pm Operator: KH
Sample : 50.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

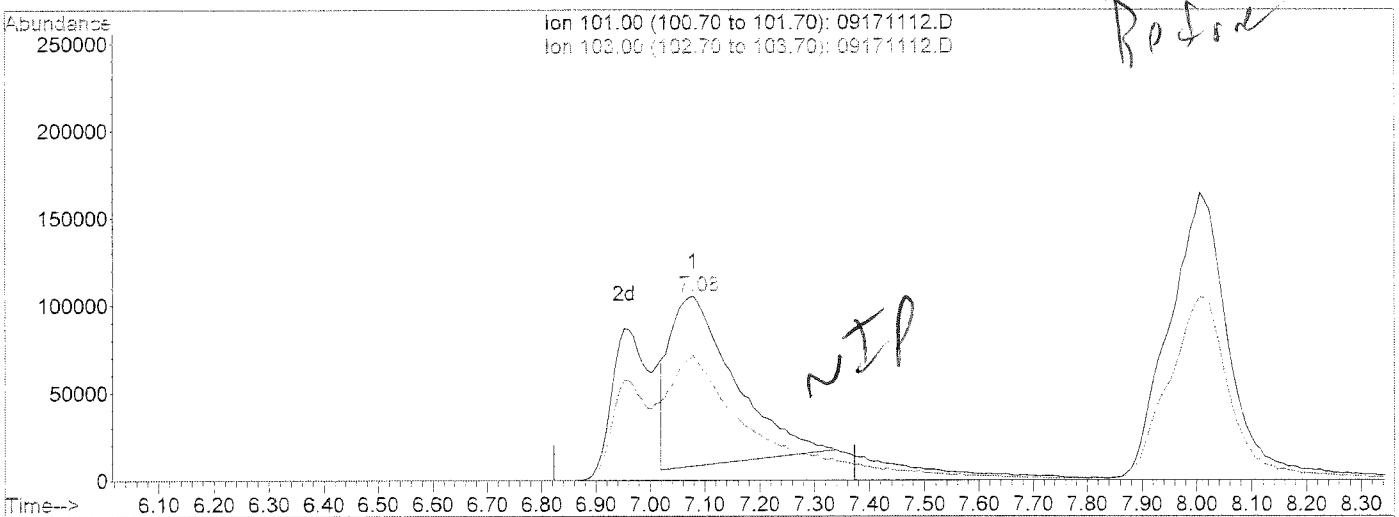


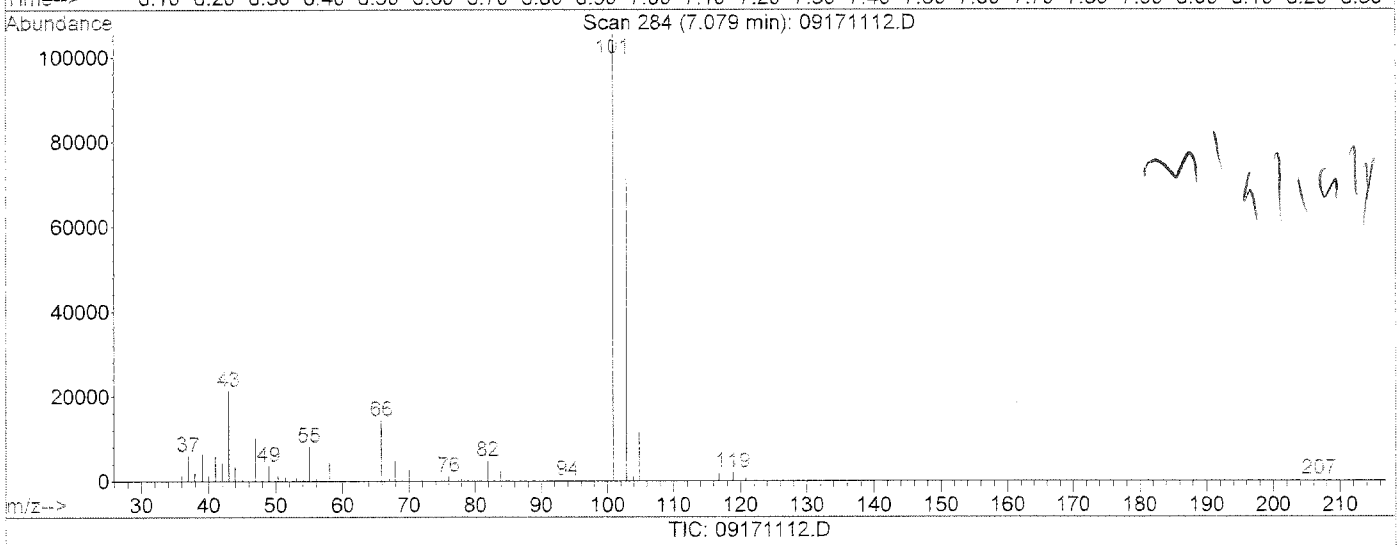
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:54 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration

Rpt 2d





TIC: 09171112.D

M 9/19/11

(12) Trichlorofluoromethane (T)

7.08min 52.07ug/L

response 799407

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	68.50
0.00	0.00	0.00
0.00	0.00	0.00

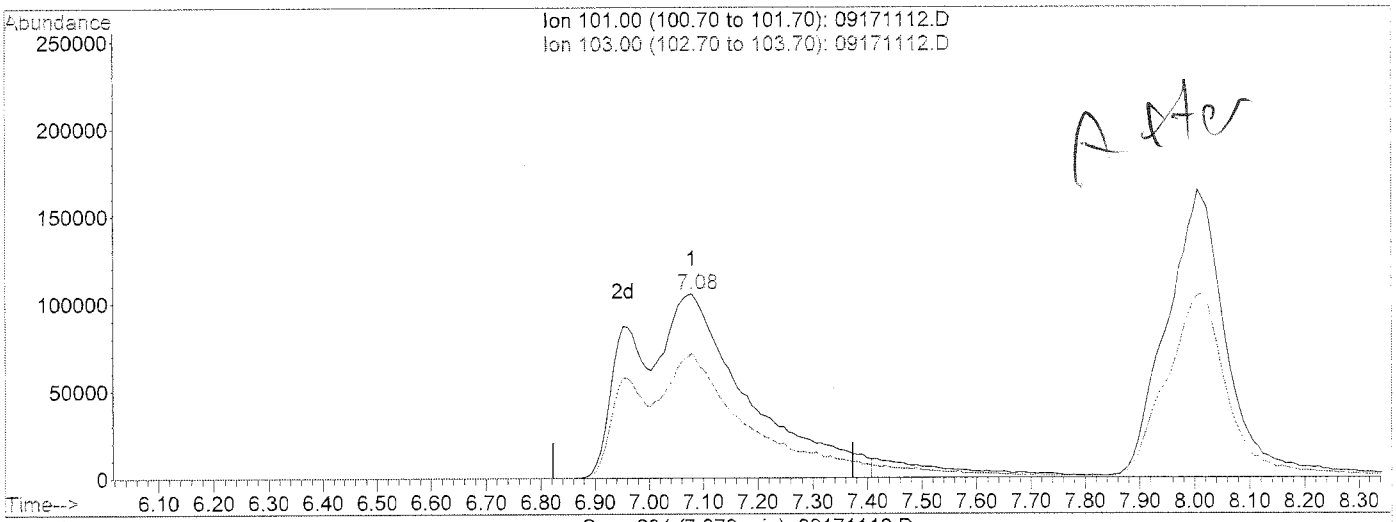
9/20/11

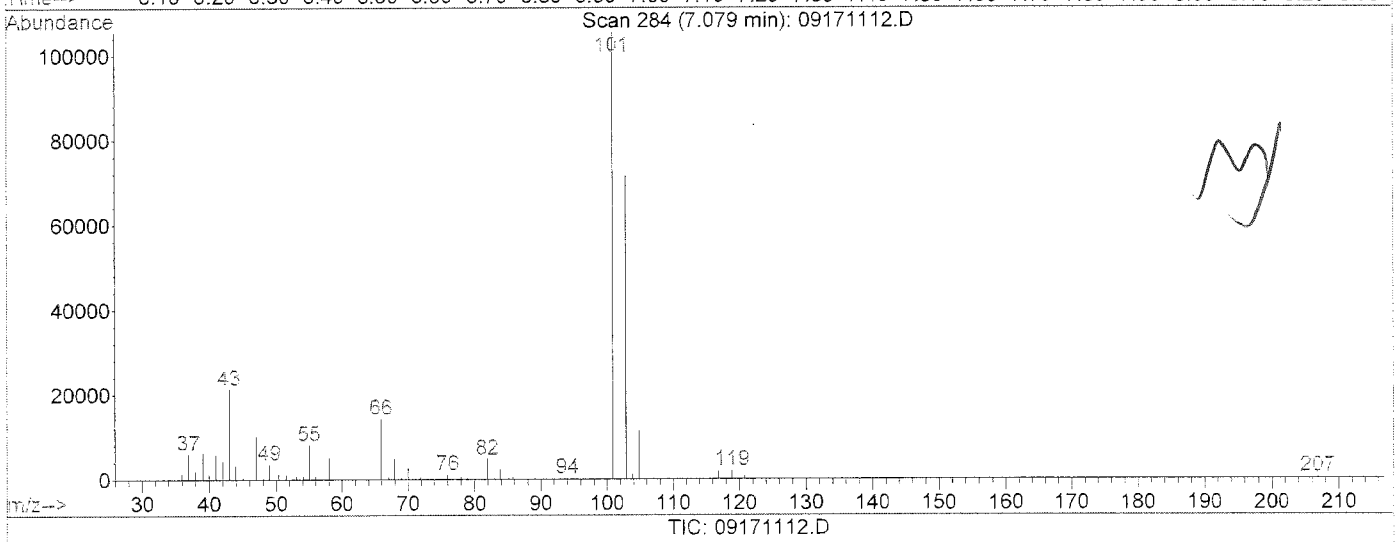
09171112.D 091711.M Mon Sep 19 13:55:06 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:55 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171112.D

(12) Trichlorofluoromethane (T)

7.08min 99.88ug/L m

response 1533264

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	67.76
0.00	0.00	0.00
0.00	0.00	0.00

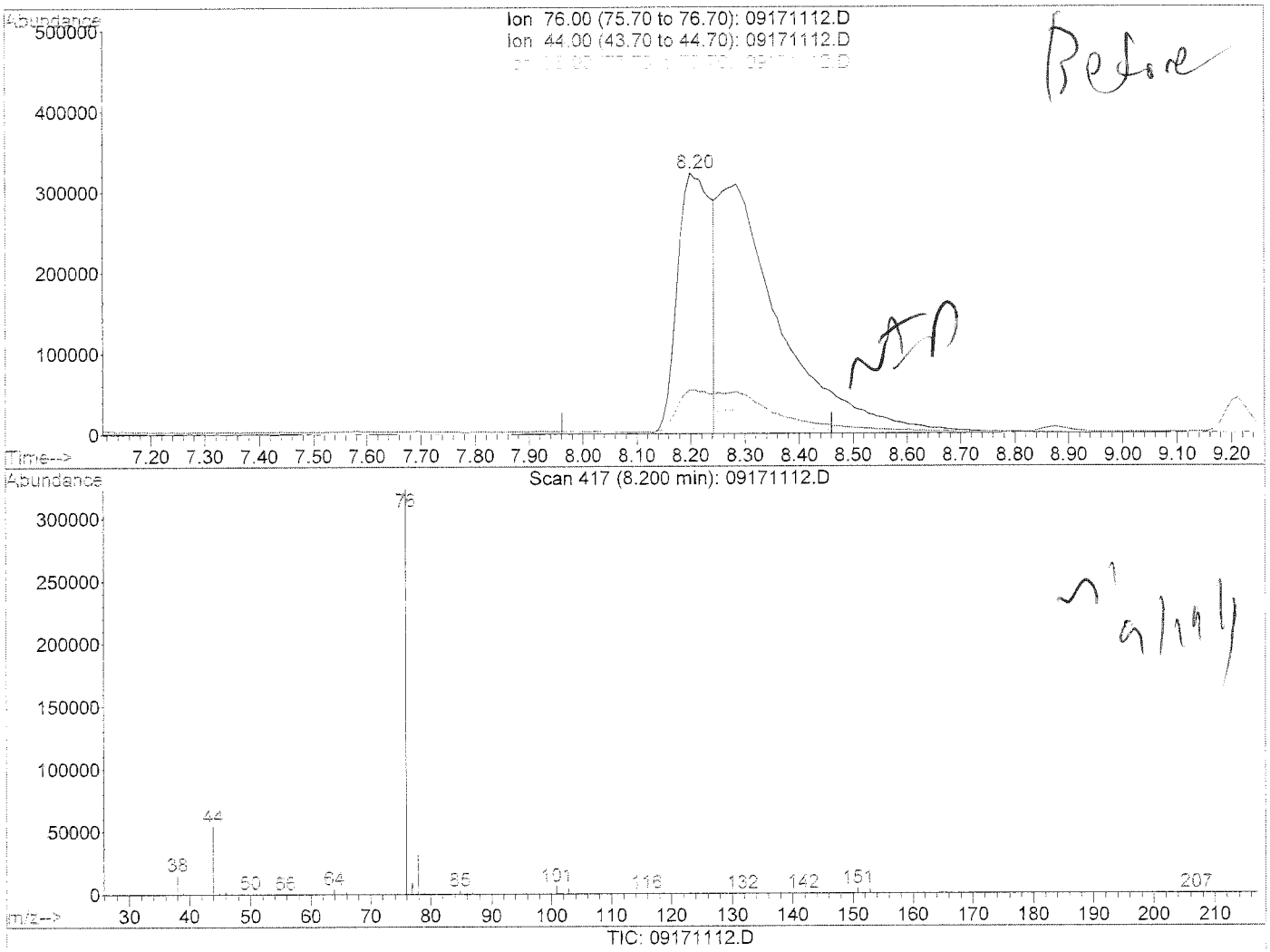
9/20/11

09171112.D 091711.M Mon Sep 19 13:55:24 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:55 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration



TIC: 09171112.D

(19) Carbon Disulfide (T)

8.20min 37.93ug/L

response 1375951

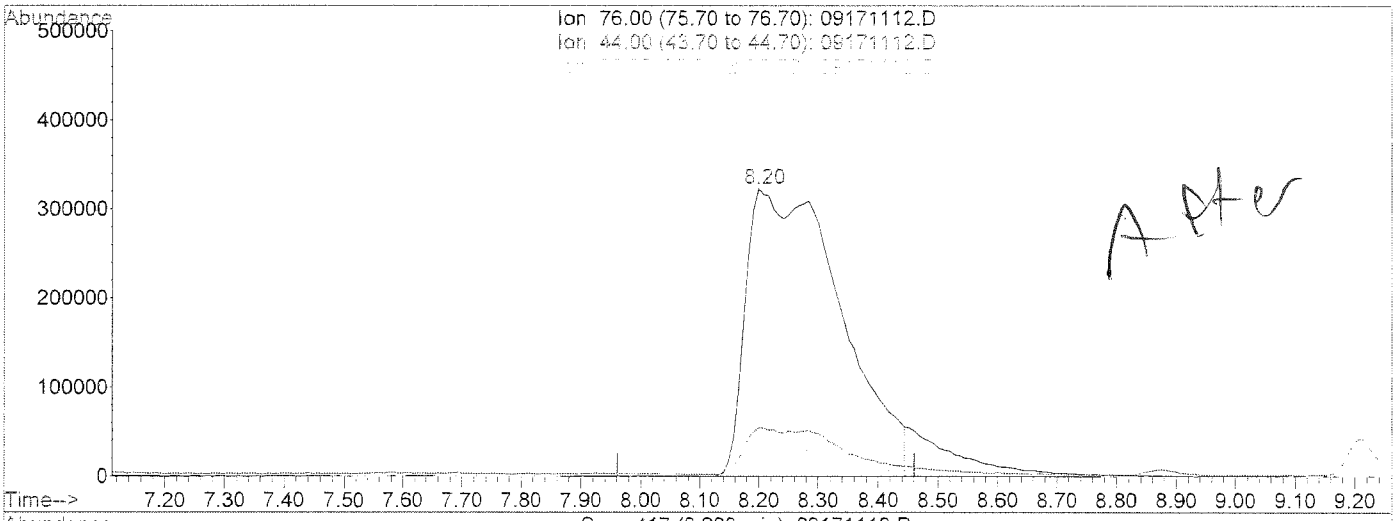
Ion	Exp%	Act%
76.00	100	100
44.00	7.50	16.49#
78.00	4.00	9.20#
0.00	0.00	0.00

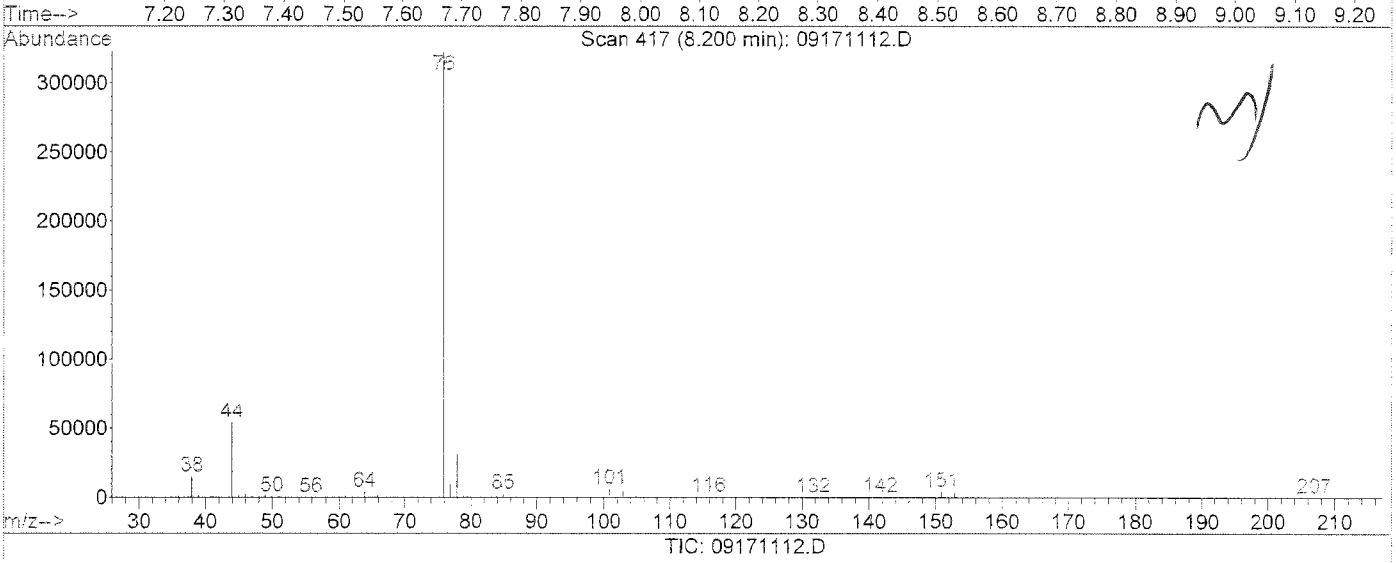
09171112.D 091711.M Mon Sep 19 13:55:30 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:55 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09171112.D

(19) Carbon Disulfide (T)

8.20min 98.31ug/L m

response 3566887

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	6.36
78.00	4.00	3.55
0.00	0.00	0.00

9/20/11

09171112.D 091711.M Mon Sep 19 13:55:43 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:56 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	109410	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	540728	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	907065	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	820256	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	331928	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	310756	24.96 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.84%	
50) Toluene-d8 (surr)	14.21	98	955046	24.86 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.44%	
64) 4-Bromofluorobenzene (surr	17.84	95	362098	23.89 ug/L	0.00
Spiked Amount 25.000			Recovery	= 95.56%	

M/9/19/11

Target Compounds					Qvalue
2) Ethanol	6.19	45	131706	963.15 ug/L #	59
3) tert-Butanol (TBA)	7.69	59	440547	442.98 ug/L	100
5) Dichlorodifluoromethane	4.88	85	1707365	96.59 ug/L	99
6) Chloromethane	5.16	50	2012816	75.63 ug/L	99
7) Vinyl Chloride	0.00	62	0	N.D. d	
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	6.03	94	1189371	81.37 ug/L	100
10) Chloroethane	6.19	64	980208	85.23 ug/L	99
11) Acrolein	6.94	56	106788	97.53 ug/L	99
12) Trichlorofluoromethane	7.08	101	1533264m	99.88 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	7.74	53	298557	91.62 ug/L	96
15) Iodomethane	7.78	142	2099444	93.60 ug/L	100
16) 1,1-Dichloroethene	7.71	96	1234301	90.35 ug/L	99
17) Methylene Chloride	7.87	84	1460411	83.83 ug/L	99
18) Freon 113	8.01	101	1219684	93.07 ug/L	96
19) Carbon Disulfide	8.20	76	3566887m	98.31 ug/L	
20) trans-1,2-Dichloroethene	8.75	96	1657135	91.82 ug/L	99
21) MTBE	8.88	73	2840599	94.67 ug/L	100
22) 1,1-Dichloroethane	9.07	63	3007418	90.50 ug/L	99
23) Vinyl Acetate	9.21	43	2621077	113.83 ug/L	99
24) n-Hexane	9.56	86	297066	85.98 ug/L	99
25) 2-Butanone (MEK)	9.61	72	91854	82.04 ug/L #	75
26) Diisopropylether (DIPE)	9.61	45	5693734	82.44 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	1747064	89.83 ug/L	97
28) Bromochloromethane	10.00	128	777573	95.00 ug/L	93
29) Chloroform	10.06	83	2707839	86.81 ug/L	99
30) 2,2-Dichloropropane	10.17	77	1320693	98.07 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	3831835	93.53 ug/L	99
33) Tetrahydrofuran	10.48	72	94290	99.04 ug/L	97
34) 1,2-Dichloroethane	10.90	62	1769971	92.95 ug/L	100
35) 1,1,1-Trichloroethane	11.03	97	2043651	95.53 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	2790435	97.68 ug/L	98
38) 1,1-Dichloropropene	11.26	75	2015017	90.93 ug/L	98
39) Carbon Tetrachloride	11.50	117	1889593	99.17 ug/L	99
40) Benzene	11.55	78	5301504	84.20 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:56 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

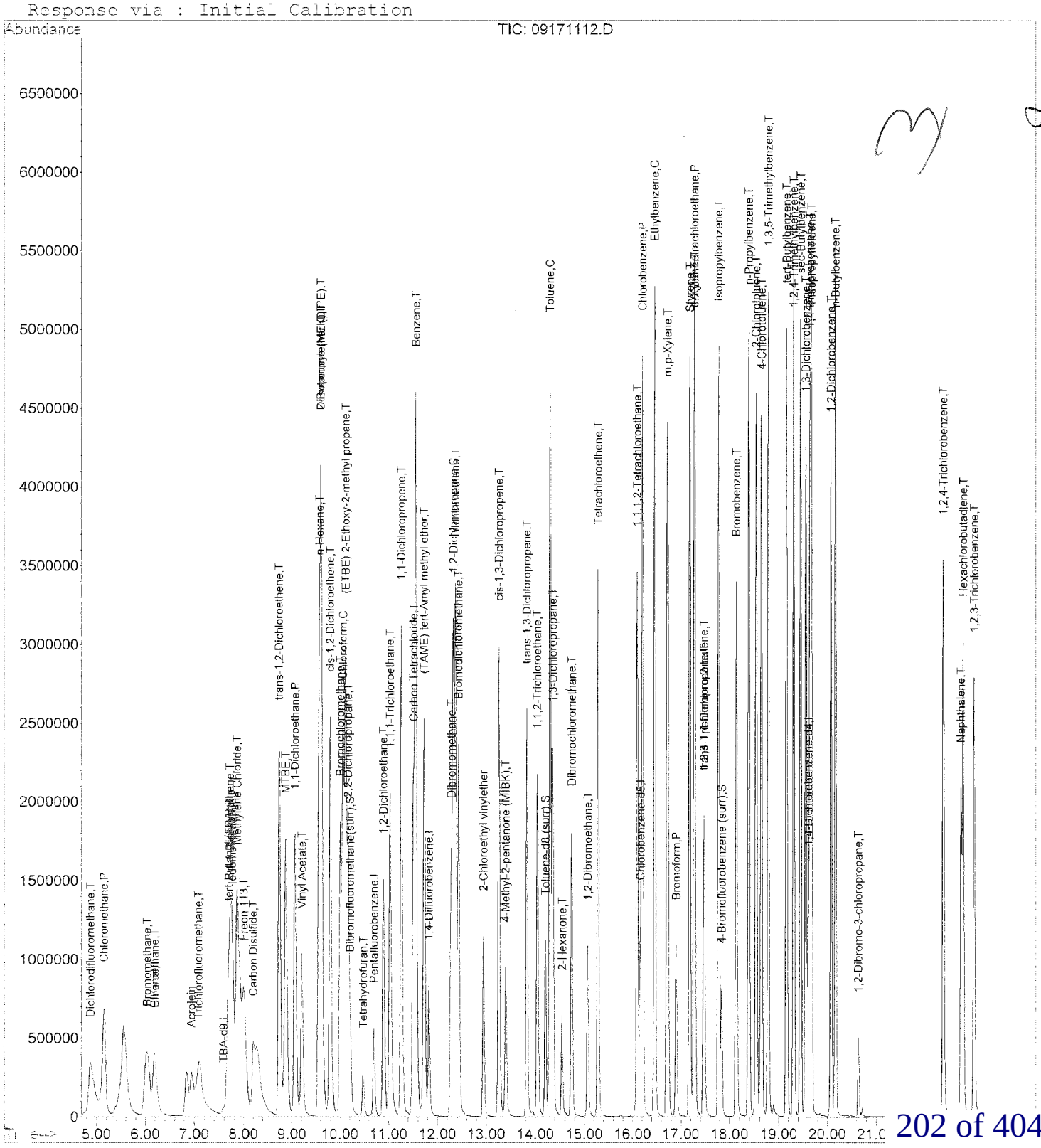
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.28	93	820026	93.51 ug/L	97
42)	1,2-Dichloropropane	12.32	63	1495672	85.20 ug/L	99
43)	Trichloroethene	12.36	95	1490797	86.29 ug/L	97
44)	Bromodichloromethane	12.43	83	1995572	95.70 ug/L	100
45)	2-Chloroethyl vinylether	12.94	63	619809	108.85 ug/L	95
46)	cis-1,3-Dichloropropene	13.26	75	2211503	98.02 ug/L	98
47)	4-Methyl-2-pentanone (MIBK	13.39	43	1016547	99.63 ug/L	99
48)	trans-1,3-Dichloropropene	13.82	75	1799818	103.13 ug/L	98
49)	1,1,2-Trichloroethane	14.04	97	988125	93.05 ug/L	97
51)	Toluene	14.30	92	2962840	82.00 ug/L	97
53)	1,3-Dichloropropane	14.36	76	1622477	86.76 ug/L	99
54)	2-Hexanone	14.54	43	664156	90.31 ug/L	99
55)	Dibromochloromethane	14.74	129	1347867	105.66 ug/L	99
56)	1,2-Dibromoethane	15.07	107	1062901	96.57 ug/L	99
57)	Tetrachloroethene	15.29	164	1115525	87.44 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.10	131	1369662	95.73 ug/L	99
59)	Chlorobenzene	16.21	112	3699477	85.10 ug/L	98
60)	Ethylbenzene	16.46	91	5291863	77.20 ug/L	96
61)	m,p-Xylene	16.72	106	2224325	79.50 ug/L	94
62)	Styrene	17.17	104	3412253	87.56 ug/L	99
63)	o-Xylene	17.28	106	1976634	75.94 ug/L	94
66)	Bromoform	16.91	173	725068	102.64 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.27	83	802202	79.50 ug/L	99
68)	1,2,3-Trichloropropane	17.47	110	274106	98.60 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.48	53	276804	109.61 ug/L	92
70)	Isopropylbenzene	17.77	105	4646099	83.83 ug/L	97
71)	Bromobenzene	18.14	156	1367413	93.05 ug/L	95
72)	n-Propylbenzene	18.39	91	5615508	79.32 ug/L	94
73)	2-Chlorotoluene	18.53	91	3584093	81.04 ug/L	95
74)	4-Chlorotoluene	18.64	91	3570312	81.74 ug/L	94
75)	1,3,5-Trimethylbenzene	18.78	105	3974748	82.35 ug/L	97
76)	tert-Butylbenzene	19.16	119	3388884	84.44 ug/L	97
77)	1,2,4-Trimethylbenzene	19.31	105	3998609	81.06 ug/L	97
78)	sec-Butylbenzene	19.45	105	4840359	77.50 ug/L	96
79)	1,3-Dichlorobenzene	19.55	146	2354278	86.41 ug/L	99
80)	1,4-Dichlorobenzene	19.64	146	2219728	82.34 ug/L	99
81)	4-Isopropyltoluene	19.67	119	4017609	79.31 ug/L	98
82)	1,2-Dichlorobenzene	20.07	146	2112149	89.27 ug/L	100
83)	n-Butylbenzene	20.17	91	3767643	77.05 ug/L	96
84)	1,2-Dibromo-3-chloropropan	20.64	75	137157	108.56 ug/L	94
85)	1,2,4-Trichlorobenzene	22.37	180	1603463	101.79 ug/L	99
86)	Naphthalene	22.73	128	2282786	111.09 ug/L	99
87)	Hexachlorobutadiene	22.78	225	934733	96.88 ug/L	100
88)	1,2,3-Trichlorobenzene	23.01	180	1316543	105.91 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091711\09171112.D Vial: 12
Acq On : 17 Sep 2011 3:48 pm Operator: KH
Sample : 100.0 PPB Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 13:56 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration



ANALYTICAL DATA

METHOD: 8260

DATE: 09/19/11

WORK ORDER: PUI0650

Injection Log

Directory: C:\HPCHEM\1\GCMS9\DATA\091911

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09191101.D	1.	TUNE		19 Sep 2011 08:04
2	2	09191102.D	1.	25 PPB CCV		19 Sep 2011 08:31
3	3	09191103.D	1.	20 PPB CCV		19 Sep 2011 09:03
4	4	09191104.D	1.	11I0627-BS1		19 Sep 2011 09:35
5	5	09191105.D	1.	11I0627-BSD1		19 Sep 2011 10:06
6	6	09191106.D	1.	11I0627-MS1		19 Sep 2011 10:40
7	7	09191107.D	1.	11I0627-MSD1		19 Sep 2011 11:12
8	7	09191108.D	1.	BLANK		19 Sep 2011 11:43
9	8	09191109.D	1.	11I0627-BLK1		19 Sep 2011 12:14
10	9	09191110.D	1.	PUI0672-04	TB	19 Sep 2011 12:45
11	10	09191111.D	1.	PUI0649-06	TB	19 Sep 2011 13:17
12	11	09191112.D	1.	PUI0649-01		19 Sep 2011 13:49
13	12	09191113.D	1.	PUI0649-02		19 Sep 2011 14:20
14	13	09191114.D	1.	PUI0649-03		19 Sep 2011 14:52
15	14	09191115.D	1.	PUI0649-04		19 Sep 2011 15:23
16		09191116.D	1.			
17	16	09191117.D	1.	PUI0649-07		19 Sep 2011 17:28
18	17	09191118.D	1.	PUI0650-01		19 Sep 2011 18:00
19	18	09191119.D	1.	PUI0650-02		19 Sep 2011 18:31
20	19	09191120.D	1.	PUI0672-01		19 Sep 2011 19:03
21	20	09191121.D	1.	PUI0672-02		19 Sep 2011 19:34
22	21	09191122.D	1.	PUI0672-03 - DNU: past clock		19 Sep 2011 20:06
23	22	09191123.D	1.	BLANK		19 Sep 2011 20:37
24	23	09191124.D	1.	PUI1022-05	TB	19 Sep 2011 21:09
25	24	09191125.D	1.	PUI1022-01		19 Sep 2011 21:41
26	25	09191126.D	1.	PUI1022-02	624	19 Sep 2011 22:13
27	26	09191127.D	1.	PUI1022-03		19 Sep 2011 22:44
28	27	09191128.D	1.	PUI1022-04		19 Sep 2011 23:16

✓ 9/20/11

9/20/11

TestAmerica
Phoenix

GC/MS 09 DAILY LOG SUMMARY

DATE: 9/19/11 QC BATCH # (s) : ~~HH~~ M 9/19/11 (IJ0622)

ANALYST: M SEQUENCE FILE: C:\GCMS9\DATA\ 09/9/11 s

CALIBRATION METHOD(S): 09/7/11 M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	09/9/11 01	TUNE	2 µl	NA	8260/624	NA	
2	02	25ppb CCV	✓	✓	8260	H_2O	
3	03	20 ↓	✓	✓	624		
4	04	IJ0622 -BS1	✓	✓	8260/624		
5	05	-BSD1	✓	✓			
6	06	-MS1	✓	✓			
6	07	-MSD1	✓	✓			
7	08	Blank	✓	NA			DNU - cleanout
8	09	IJ0622 -BLK1	✓	✓			
9	10	AUJ0672-04A (GB)	✓	✓	8260		
10	11	649-06 A ↓	✓	✓			
11	12	~~-01~~ ~~-02~~ A	✓	✓			Source
12	13	-02 A	✓	✓			
13	14	-03 A	✓	✓			
14	15	-04 A	✓	✓			
15	16	-05 A	✓	✓			Did not run - Concentration Error
16	17	↓ -07 A	✓	✓			
17	18	650-01 A	✓	✓			
18	19	↓ -02 A	✓	✓			
19	20	672-01 A	✓	✓			
20	21	-02 A	✓	✓			
21	22	↓ -03 A	✓	✓			DNU - post check
22	23	Blank	~~NA~~ ✓	NA	624		DNU - cleanout
23	24	AUJ0622-05A (GB)	✓	✓			
24	25	-01 A	✓	✓			
25	26	-02 A	✓	✓			
26	27	-03 A	✓	✓			
27	28	-04 A	✓	✓			
		M 9/20/11					

STANDARD ID NUMBERS

ICV / H_2O LCS: PU05651 / PU05531

CCV/CALIBRATION STD: PU05632 / PU05631

Internal Std: NA

IS/Surrogate/BFB: PU05552 / PU05529

VOA VIAL LOT #: NA

REQUIRED REVIEWS

25ppb CCV PrepARATION: 25 µl CCV std → 50 ml

20ppb CCV PrepARATION: 20 µl CCV stds → 50 ml

ARCHON REVIEWED By/Date: M 9/20/11

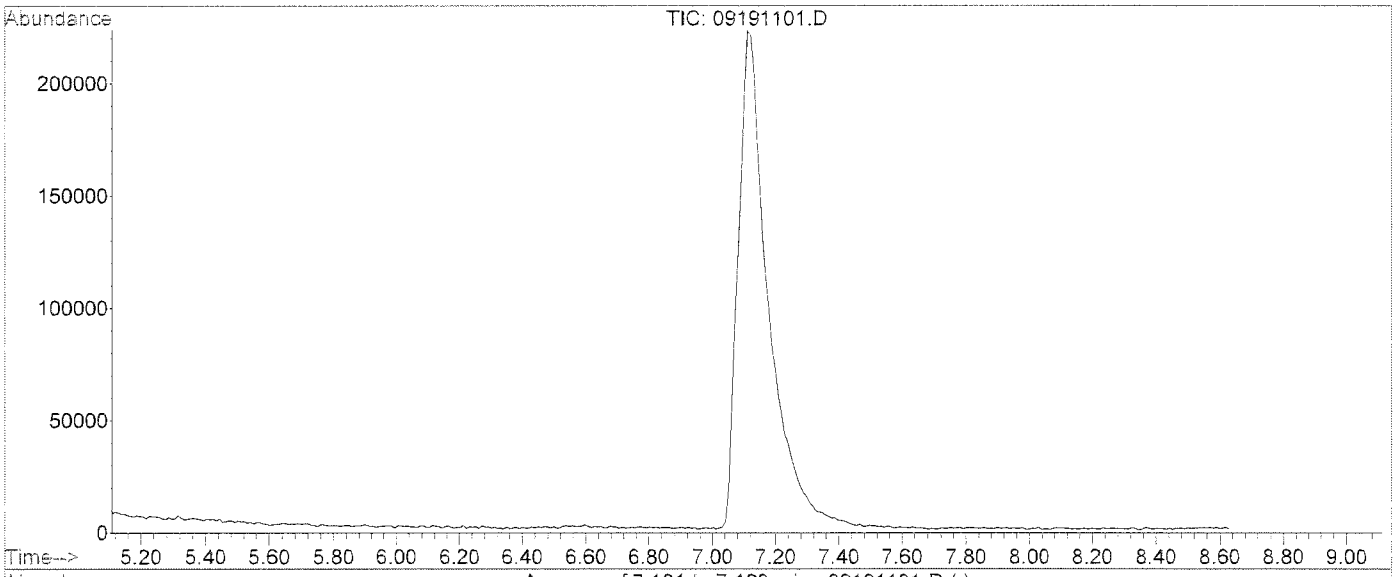
SEQUENCE REVIEWED By/Date: 205 of 404

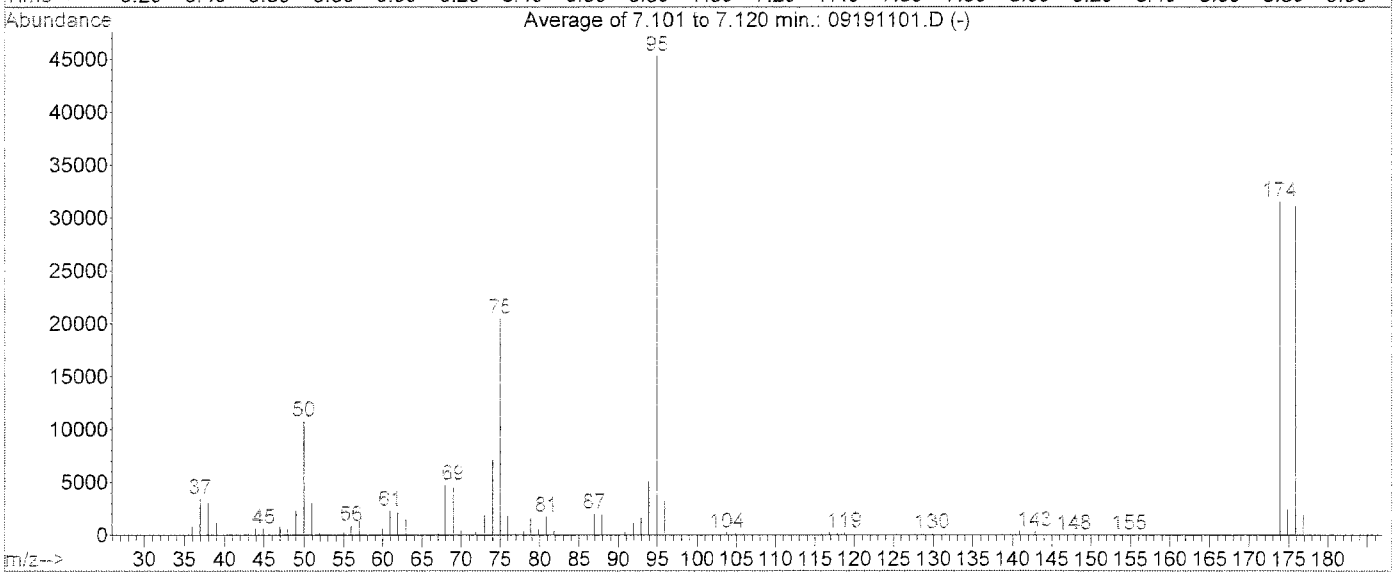
FINAL REVIEWER / Date: 9/20/11

Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191101.D Vial: 1
Acq On : 19 Sep 2011 8:04 am Operator: MS
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260

9/20/11





Spectrum Information: Average of 7.101 to 7.120 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	10760	PASS
75	95	30	60	45.2	20464	PASS
95	95	100	100	100.0	45296	PASS
96	95	5	9	7.1	3203	PASS
173	174	0.00	2	0.2	66	PASS
174	95	50	100	69.6	31512	PASS
175	174	5	9	7.6	2407	PASS
176	174	95	101	98.8	31120	PASS
177	176	5	9	6.2	1926	PASS

09191101.D 091711.M Tue Sep 20 10:51:12 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:51 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.59	65	136964	200.00	ug/L	0.00
4) Pentafluorobenzene	10.71	168	583541	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	989588	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.16	117	869547	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	349180	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.22	113	364565	27.14	ug/L	0.00
Spiked Amount 25.000			Recovery	=	108.56%	
50) Toluene-d8 (surr)	14.21	98	1046361	24.96	ug/L	0.00
Spiked Amount 25.000			Recovery	=	99.84%	
64) 4-Bromofluorobenzene (surr	17.83	95	394420	24.54	ug/L	0.00
Spiked Amount 25.000			Recovery	=	98.16%	

Target Compounds						Qvalue
2) Ethanol	6.19	45	44166	235.61	ug/L #	58
3) tert-Butanol (TBA)	7.70	59	126084	101.27	ug/L	100
5) Dichlorodifluoromethane	4.89	85	548546	28.76	ug/L	100
6) Chloromethane	5.17	50	592271	20.62	ug/L	98
7) Vinyl Chloride	5.50	62	445173	22.20	ug/L	100
8) 1,3-Butadiene	5.57	54	304626	24.16	ug/L	98
9) Bromomethane	6.03	94	340863	21.61	ug/L	100
10) Chloroethane	6.20	64	296952	23.93	ug/L	98
11) Acrolein	6.95	56	24856	21.04	ug/L	96
12) Trichlorofluoromethane	7.08	101	449866m	27.15	ug/L	
13) Acetone	7.11	43	146776	30.62	ug/L	99
14) Acrylonitrile	7.75	53	78611	22.35	ug/L	96
15) Iodomethane	7.77	142	533389	22.03	ug/L	99
16) 1,1-Dichloroethene	7.71	96	339528	23.03	ug/L	100
17) Methylene Chloride	7.88	84	393584	20.94	ug/L	99
18) Freon 113	8.01	101	348177	24.62	ug/L	98
19) Carbon Disulfide	8.22	76	951860	24.31	ug/L #	99
20) trans-1,2-Dichloroethene	8.75	96	416918	21.41	ug/L	98
21) MTBE	8.88	73	706290	21.81	ug/L	100
22) 1,1-Dichloroethane	9.07	63	805242	22.45	ug/L	100
23) Vinyl Acetate	9.21	43	615158	24.75	ug/L	99
24) n-Hexane	9.57	86	100532	26.96	ug/L	94
25) 2-Butanone (MEK)	9.60	72	31497	26.07	ug/L #	47
26) Diisopropylether (DIPE)	9.61	45	1597984	21.44	ug/L	94
27) cis-1,2-Dichloroethene	9.80	96	459679	21.90	ug/L	100
28) Bromochloromethane	10.01	128	196087	22.20	ug/L	99
29) Chloroform	10.06	83	739903	21.98	ug/L	100
30) 2,2-Dichloropropane	10.17	77	351340	24.18	ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	941633	21.30	ug/L	99
33) Tetrahydrofuran	10.48	72	24957	23.13	ug/L	99
34) 1,2-Dichloroethane	10.90	62	464432	22.60	ug/L	100
35) 1,1,1-Trichloroethane	11.03	97	550073	23.83	ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	652686	21.17	ug/L	99
38) 1,1-Dichloropropene	11.26	75	553091	22.88	ug/L	100
39) Carbon Tetrachloride	11.50	117	507436	24.41	ug/L	99
0) Benzene	11.56	78	1481983	21.57	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:51 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

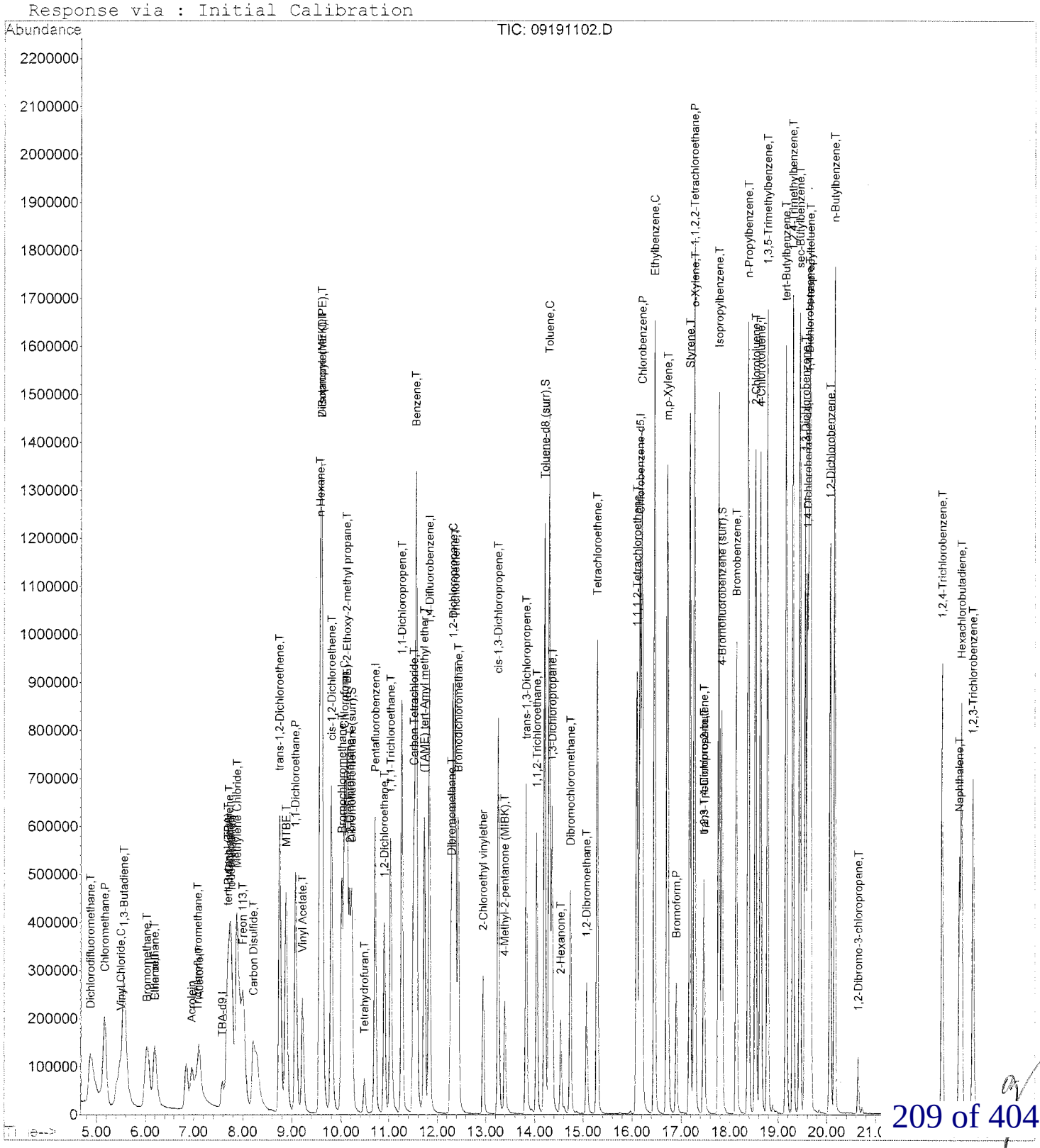
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.28	93	212226	22.18 ug/L	98
42)	1,2-Dichloropropane	12.32	63	413806	21.61 ug/L	99
43)	Trichloroethene	12.37	95	404699	21.47 ug/L	99
44)	Bromodichloromethane	12.43	83	507265	22.30 ug/L	99
45)	2-Chloroethyl vinylether	12.95	63	151142	24.33 ug/L	98
46)	cis-1,3-Dichloropropene	13.26	75	582843	23.68 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	254067	22.82 ug/L	99
48)	trans-1,3-Dichloropropene	13.82	75	460539	24.19 ug/L	100
49)	1,1,2-Trichloroethane	14.04	97	252881	21.83 ug/L	100
51)	Toluene	14.30	92	831029	21.08 ug/L	100
53)	1,3-Dichloropropane	14.36	76	430917	21.74 ug/L	99
54)	2-Hexanone	14.54	43	203744	26.14 ug/L	99
55)	Dibromochloromethane	14.74	129	330834	24.46 ug/L	100
56)	1,2-Dibromoethane	15.07	107	265994	22.80 ug/L	99
57)	Tetrachloroethene	15.29	164	301618	22.30 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.10	131	345960	22.81 ug/L	99
59)	Chlorobenzene	16.21	112	1008681	21.89 ug/L	100
60)	Ethylbenzene	16.46	91	1556061	21.41 ug/L	99
61)	m,p-Xylene	16.72	106	625435	21.09 ug/L	98
62)	Styrene	17.18	104	946895	22.92 ug/L	100
63)	o-Xylene	17.28	106	582488	21.11 ug/L	100
66)	Bromoform	16.90	173	170834	23.29 ug/L	97
67)	1,1,2,2-Tetrachloroethane	17.26	83	242107	22.81 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	69498	23.76 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.48	53	69977	26.34 ug/L	95
70)	Isopropylbenzene	17.77	105	1351694	23.18 ug/L	100
71)	Bromobenzene	18.14	156	356471	23.06 ug/L	100
72)	n-Propylbenzene	18.38	91	1725656	23.17 ug/L	99
73)	2-Chlorotoluene	18.53	91	1057016	22.72 ug/L	99
74)	4-Chlorotoluene	18.63	91	1056478	22.99 ug/L	99
75)	1,3,5-Trimethylbenzene	18.78	105	1190978	23.46 ug/L	99
76)	tert-Butylbenzene	19.16	119	1006200	23.83 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	1193588	23.00 ug/L	99
78)	sec-Butylbenzene	19.44	105	1506346	22.93 ug/L	100
79)	1,3-Dichlorobenzene	19.55	146	658279	22.97 ug/L	99
80)	1,4-Dichlorobenzene	19.64	146	648542	22.87 ug/L	99
81)	4-Isopropyltoluene	19.66	119	1264305	23.73 ug/L	99
82)	1,2-Dichlorobenzene	20.08	146	590139	23.71 ug/L	100
83)	n-Butylbenzene	20.17	91	1194075	23.21 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.64	75	32852	24.72 ug/L	99
85)	1,2,4-Trichlorobenzene	22.38	180	397467	23.98 ug/L	99
86)	Naphthalene	22.73	128	550027	25.44 ug/L	99
87)	Hexachlorobutadiene	22.77	225	242512	23.89 ug/L	100
88)	1,2,3-Trichlorobenzene	23.01	180	316525	24.21 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:51 2011 Quant Results File: 091711.RES

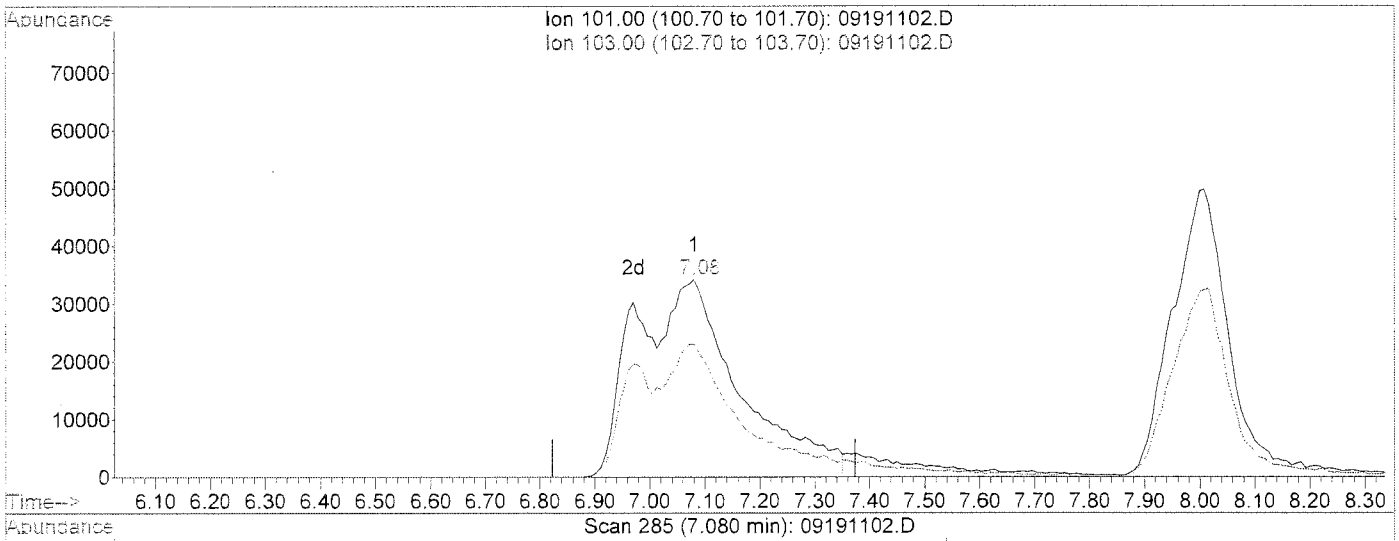
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

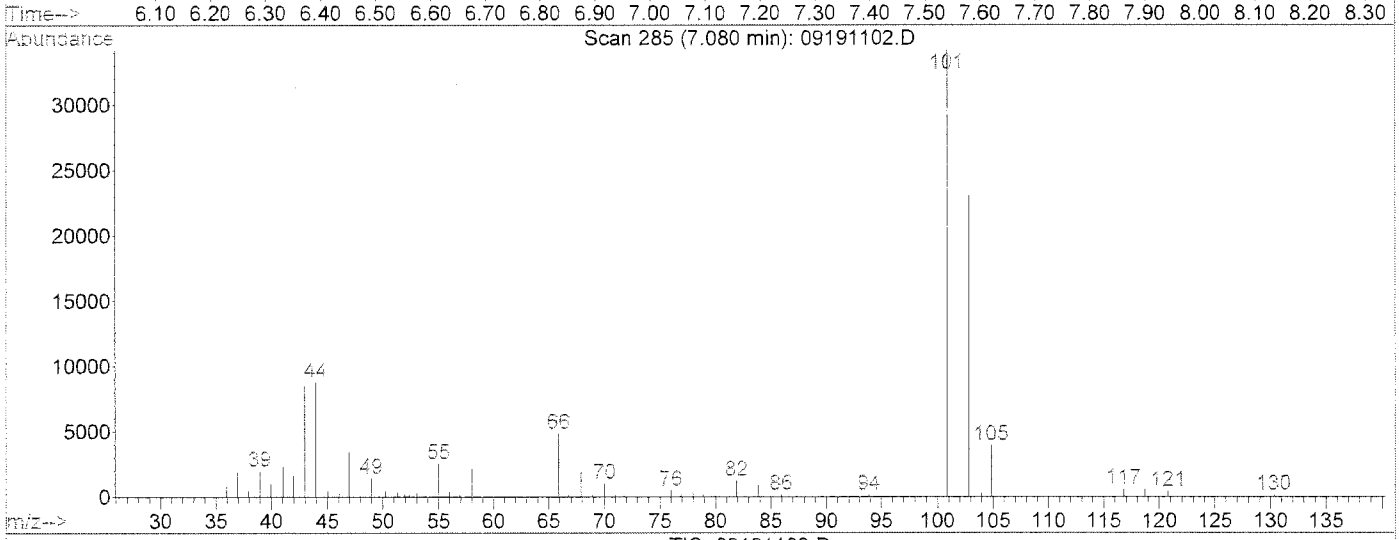


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:51 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191102.D

(12) Trichlorofluoromethane (T)

7.08min 27.15ug/L m

response 449866

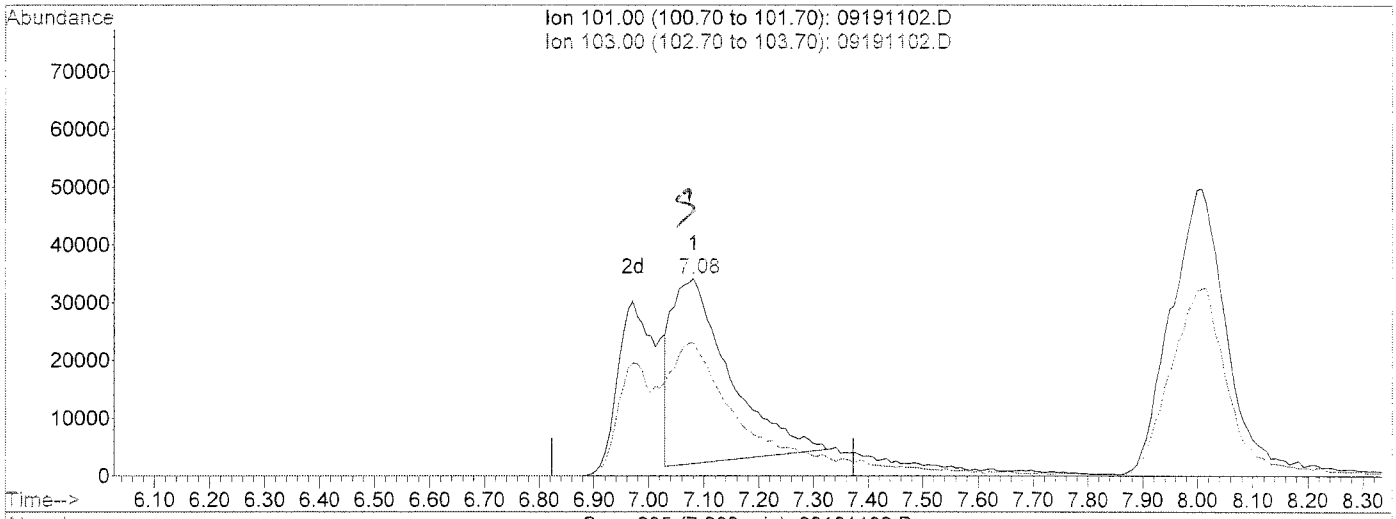
Ion	Exp%	Act%
101.00	100	100
103.00	64.00	67.35
0.00	0.00	0.00
0.00	0.00	0.00

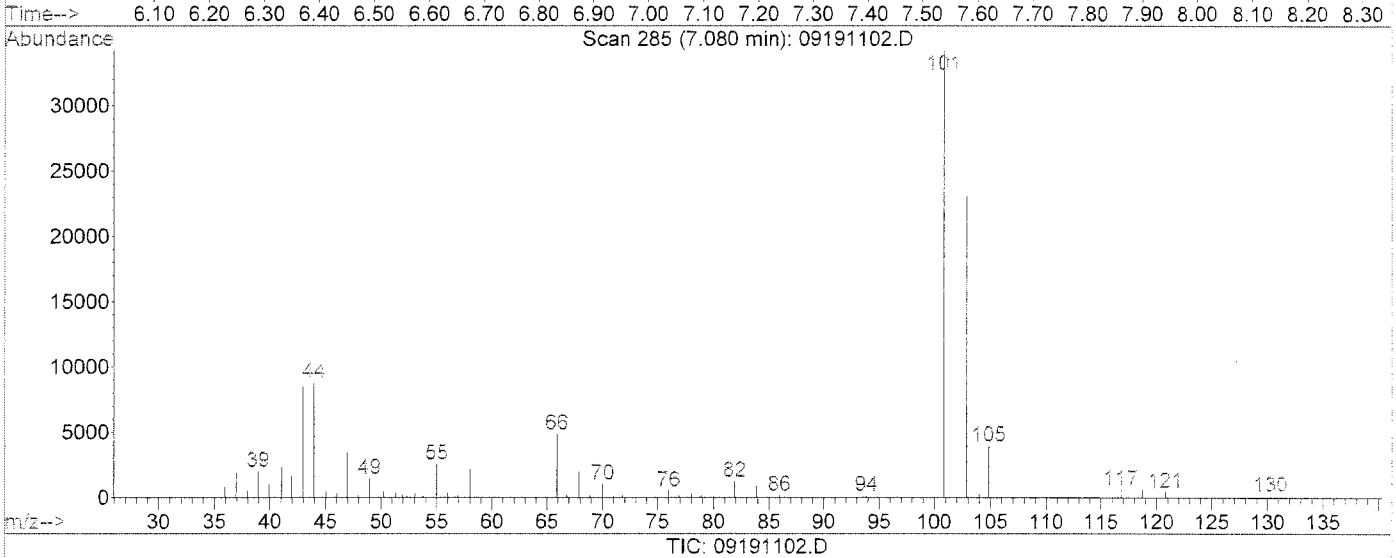
09191102.D 091711.M Tue Sep 20 10:51:32 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:12 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191102.D

(12) Trichlorofluoromethane (T)

7.08min 14.11ug/L

response 233772

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	68.47
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

09191102.D 091711.M Tue Sep 20 10:51:22 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration

9/20/11

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	124	0.00
2	T	Ethanol	0.297	0.258	13.1	103	0.00
3	T	tert-Butanol (TBA)	1.818	1.473	19.0	105	0.00
4	I	Pentafluorobenzene	1.000	1.000	0.0	107	0.00
5	T	Dichlorodifluoromethane	0.817	0.940	-15.1	118	0.00
6	P	Chloromethane	1.230	1.015	17.5	89	0.03
7	C	Vinyl Chloride	0.859	0.763	11.2	107	0.02
8	T	1,3-Butadiene	0.540	0.522	3.3	109	0.00
9	T	Bromomethane	0.676	0.584	13.6	98	0.02
10	T	Chloroethane	0.532	0.509	4.3	105	0.02
11		Acrolein	0.051	0.043	15.7	91	0.00
12	T	Trichlorofluoromethane	0.710	0.771	-8.6	116	0.00
13	T	Acetone	0.458	0.252	45.0#	144	0.00
14		Acrylonitrile	0.151	0.135	10.6	98	0.00
15	T	Iodomethane	1.037	0.914	11.9	97	0.00
16	T	1,1-Dichloroethene	0.632	0.582	7.9	102	0.00
17	T	Methylene Chloride	0.805	0.674	16.3	96	0.00
18	T	Freon 113	0.606	0.597	1.5	104	0.00
19	T	Carbon Disulfide	1.677	1.631	2.7	103	0.00
20	T	trans-1,2-Dichloroethene	0.834	0.714	14.4	92	0.00
21	T	MTBE	1.387	1.210	12.8	93	0.00
22	P	1,1-Dichloroethane	1.536	1.380	10.2	95	0.00
23	T	Vinyl Acetate	1.065	1.054	1.0	92	0.00
24	T	n-Hexane	0.160	0.172	-7.5	113	0.00
25	T	2-Butanone (MEK)	0.052	0.054	-3.8	121	0.00
26	T	Diisopropylether (DIPE)	3.193	2.738	14.2	93	0.00
27	T	cis-1,2-Dichloroethene	0.899	0.788	12.3	96	0.00
28	T	Bromochloromethane	0.378	0.336	11.1	94	0.00
29	C	Chloroform	1.442	1.268	12.1	95	0.00
30	T	2,2-Dichloropropane	0.623	0.602	3.4	100	0.00
31	T	(ETBE) 2-Ethoxy-2-methyl pr	1.894	1.614	14.8	90	0.00
32	S	Dibromofluoromethane(surr)	0.576	0.625	-8.5	118	0.00
33	T	Tetrahydrofuran	0.061	0.043	29.5	95	0.00
34	T	1,2-Dichloroethane	0.880	0.796	9.5	96	0.00
35	T	1,1,1-Trichloroethane	0.989	0.943	4.7	99	0.00
36	T	(TAME) tert-Amyl methyl eth	1.321	1.118	15.4	89	0.00
37	I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
38	T	1,1-Dichloropropene	0.611	0.559	8.5	98	0.00
39	T	Carbon Tetrachloride	0.525	0.513	2.3	101	0.00
40	T	Benzene	1.735	1.498	13.7	95	0.00
41	T	Dibromomethane	0.242	0.214	11.6	94	0.00
42	C	1,2-Dichloropropane	0.484	0.418	13.6	95	0.00
43	T	Trichloroethene	0.476	0.409	14.1	95	0.00
44	T	Bromodichloromethane	0.575	0.513	10.8	94	0.00
45		2-Chloroethyl vinylether	0.157	0.153	2.5	95	0.00
46	T	cis-1,3-Dichloropropene	0.622	0.589	5.3	96	0.00
47	T	4-Methyl-2-pentanone (MIBK)	0.281	0.257	8.5	94	0.00
48	T	trans-1,3-Dichloropropene	0.481	0.465	3.3	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191102.D Vial: 2
Acq On : 19 Sep 2011 8:31 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,1,2-Trichloroethane	0.293	0.256	12.6	94	0.00
50	S	Toluene-d8 (surr)	1.059	1.057	0.2	108	0.00
51	C	Toluene	0.996	0.840	15.7	94	0.00
52	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
53	T	1,3-Dichloropropane	0.570	0.496	13.0	95	0.00
54	T	2-Hexanone	0.224	0.234	-4.5	118	0.00
55	T	Dibromochloromethane	0.389	0.380	2.3	97	0.00
56	T	1,2-Dibromoethane	0.335	0.306	8.7	95	0.00
57	T	Tetrachloroethene	0.389	0.347	10.8	98	0.00
58	T	1,1,1,2-Tetrachloroethane	0.436	0.398	8.7	95	0.00
59	P	Chlorobenzene	1.325	1.160	12.5	95	0.00
60	C	Ethylbenzene	2.089	1.790	14.3	94	0.00
61	T	m,p-Xylene	0.853	0.719	15.7	96	0.00
62	T	Styrene	1.188	1.089	8.3	95	0.00
63	T	o-Xylene	0.793	0.670	15.5	95	0.00
64	S	4-Bromofluorobenzene (surr)	0.462	0.454	1.7	106	0.00
65	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
66	P	Bromoform	0.435	0.489	-12.4	99	0.00
67	P	1,1,2,2-Tetrachloroethane	0.760	0.693	8.8	93	0.00
68	T	1,2,3-Trichloropropane	0.209	0.199	4.8	97	0.00
69	T	trans-1,4-Dichloro-2-butene	0.190	0.200	-5.3	98	0.00
70	T	Isopropylbenzene	4.174	3.871	7.3	95	0.00
71	T	Bromobenzene	1.107	1.021	7.8	94	0.00
72	T	n-Propylbenzene	5.332	4.942	7.3	95	0.00
73	T	2-Chlorotoluene	3.331	3.027	9.1	94	0.00
74	T	4-Chlorotoluene	3.290	3.026	8.0	93	0.00
75	T	1,3,5-Trimethylbenzene	3.635	3.411	6.2	95	0.00
76	T	tert-Butylbenzene	3.023	2.882	4.7	96	0.00
77	T	1,2,4-Trimethylbenzene	3.715	3.418	8.0	94	0.00
78	T	sec-Butylbenzene	4.704	4.314	8.3	95	0.00
79	T	1,3-Dichlorobenzene	2.052	1.885	8.1	94	0.00
80	T	1,4-Dichlorobenzene	2.031	1.857	8.6	96	0.00
81	T	4-Isopropyltoluene	3.815	3.621	5.1	97	0.00
82	T	1,2-Dichlorobenzene	1.782	1.690	5.2	95	0.00
83	T	n-Butylbenzene	3.683	3.420	7.1	95	0.00
84	T	1,2-Dibromo-3-chloropropane	0.095	0.094	1.1	93	0.00
85	T	1,2,4-Trichlorobenzene	1.187	1.138	4.1	93	0.00
86	T	Naphthalene	1.548	1.575	-1.7	92	0.00
87	T	Hexachlorobutadiene	0.727	0.695	4.4	99	0.00
88	T	1,2,3-Trichlorobenzene	0.936	0.906	3.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

8260 CCV/ICV Custom Report

Data File Name	09191102.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\091911\
Operator	MS
Date Acquired	9/19/2011 8:31
Acq. Method File	8260C
Sample Name	25 PPB CCV
Instrument Name	GCMS9

9/20/11

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	108956	110195	55097.5	220390	TRUE
Pentafluorobenzene	543582	543057	271528.5	1086114	TRUE
1,4-Difluorobenzene	908524	902453	451226.5	1804906	TRUE
Chlorobenzene-d5	812386	810477	405238.5	1620954	TRUE
1,4-Dichlorobenzene-d4	349180	344283	172141.5	688566	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	235.61	250	94%	36%	150%	TRUE
tert-Butanol (TBA)	101.27	125	81%	70%	134%	TRUE
Dichlorodifluoromethane	28.76	25	115%	60%	140%	TRUE
Chloromethane	20.62	25	82%	48%	144%	TRUE
Vinyl Chloride	22.20	25	89%	80%	120%	TRUE
1,3-Butadiene	24.16	25	97%	50%	141%	TRUE
Bromomethane	21.61	25	86%	40%	144%	TRUE
Chloroethane	23.93	25	96%	60%	132%	TRUE
Acrolein	21.04	25	84%	80%	120%	TRUE
Trichlorofluoromethane	27.15	25	109%	68%	136%	TRUE
Acetone	30.62	25	122%	12%	150%	TRUE
Acrylonitrile	22.35	25	89%	80%	120%	TRUE
Iodomethane	22.03	25	88%	40%	150%	TRUE
1,1-Dichloroethene	23.03	25	92%	80%	120%	TRUE
Methylene Chloride	20.94	25	84%	68%	128%	TRUE
Freon 113	24.62	25	98%	76%	124%	TRUE
Carbon Disulfide	24.31	25	97%	64%	136%	TRUE
trans-1,2-Dichloroethene	21.41	25	86%	76%	120%	TRUE
MTBE	21.81	25	87%	64%	140%	TRUE
1,1-Dichloroethane	22.45	25	90%	72%	124%	TRUE
Vinyl Acetate	24.75	25	99%	48%	150%	TRUE
n-Hexane	26.96	25	108%	56%	150%	TRUE
2-Butanone (MEK)	26.07	25	104%	44%	150%	TRUE
Diisopropylether (DIPE)	21.44	25	86%	72%	132%	TRUE
cis-1,2-Dichloroethene	21.90	25	88%	72%	128%	TRUE
Bromochloromethane	22.20	25	89%	72%	132%	TRUE
Chloroform	21.98	25	88%	80%	120%	TRUE
2,2-Dichloropropane	24.18	25	97%	64%	140%	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	21.30	25	85%	72%	140%	TRUE
Dibromofluoromethane(surr)	27.14	25	109%	80%	120%	TRUE
Tetrahydrofuran	23.13	25	93%	64%	139%	TRUE
1,2-Dichloroethane	22.60	25	90%	68%	136%	TRUE

1,1,1-Trichloroethane	23.83	25	95%	72%	132%	TRUE
(TAME) tert-Amyl methyl ether	21.17	25	85%	68%	140%	TRUE
1,1-Dichloropropene	22.88	25	92%	76%	128%	TRUE
Carbon Tetrachloride	24.41	25	98%	72%	136%	TRUE
Benzene	21.57	25	86%	76%	120%	TRUE
Dibromomethane	22.18	25	89%	72%	132%	TRUE
1,2-Dichloropropane	21.61	25	86%	80%	120%	TRUE
Trichloroethene	21.47	25	86%	80%	120%	TRUE
Bromodichloromethane	22.30	25	89%	76%	128%	TRUE
2-Chloroethyl vinylether	24.33	25	97%	10%	150%	TRUE
cis-1,3-Dichloropropene	23.68	25	95%	76%	136%	TRUE
4-Methyl-2-pentanone (MIBK)	22.82	25	91%	60%	144%	TRUE
trans-1,3-Dichloropropene	24.19	25	97%	68%	140%	TRUE
1,1,2-Trichloroethane	21.83	25	87%	72%	132%	TRUE
Toluene-d8 (surr)	24.96	25	100%	80%	120%	TRUE
Toluene	21.08	25	84%	80%	120%	TRUE
1,3-Dichloropropane	21.74	25	87%	80%	124%	TRUE
2-Hexanone	26.14	25	105%	52%	150%	TRUE
Dibromochloromethane	24.46	25	98%	80%	128%	TRUE
1,2-Dibromoethane	22.80	25	91%	80%	128%	TRUE
Tetrachloroethene	22.30	25	89%	76%	128%	TRUE
1,1,1,2-Tetrachloroethane	22.81	25	91%	76%	124%	TRUE
Chlorobenzene	21.89	25	88%	80%	120%	TRUE
Ethylbenzene	21.41	25	86%	80%	120%	TRUE
m,p-Xylene	21.09	25	84%	80%	120%	TRUE
Styrene	22.92	25	92%	84%	124%	TRUE
o-Xylene	21.11	25	84%	72%	128%	TRUE
4-Bromofluorobenzene (surr)	24.54	25	98%	80%	120%	TRUE
Bromoform	23.29	25	93%	68%	132%	TRUE
1,1,2,2-Tetrachloroethane	22.81	25	91%	68%	132%	TRUE
1,2,3-Trichloropropane	23.76	25	95%	76%	128%	TRUE
trans-1,4-Dichloro-2-butene	26.34	25	105%	48%	138%	TRUE
Isopropylbenzene	23.18	25	93%	76%	132%	TRUE
Bromobenzene	23.06	25	92%	76%	128%	TRUE
n-Propylbenzene	23.17	25	93%	76%	132%	TRUE
2-Chlorotoluene	22.72	25	91%	80%	124%	TRUE
4-Chlorotoluene	22.99	25	92%	80%	124%	TRUE
1,3,5-Trimethylbenzene	23.46	25	94%	80%	128%	TRUE
tert-Butylbenzene	23.83	25	95%	76%	132%	TRUE
1,2,4-Trimethylbenzene	23.00	25	92%	80%	128%	TRUE
sec-Butylbenzene	22.93	25	92%	80%	128%	TRUE
1,3-Dichlorobenzene	22.97	25	92%	80%	124%	TRUE
1,4-Dichlorobenzene	22.87	25	91%	76%	120%	TRUE
4-Isopropyltoluene	23.73	25	95%	80%	128%	TRUE
1,2-Dichlorobenzene	23.71	25	95%	80%	124%	TRUE
n-Butylbenzene	23.21	25	93%	76%	132%	TRUE
1,2-Dibromo-3-chloropropane	24.72	25	99%	64%	128%	TRUE
1,2,4-Trichlorobenzene	23.98	25	96%	76%	128%	TRUE
Naphthalene	25.44	25	102%	68%	136%	TRUE
Hexachlorobutadiene	23.89	25	96%	76%	132%	TRUE
1,2,3-Trichlorobenzene	24.21	25	97%	72%	128%	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:53 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.59	65	102985	200.00	ug/L	0.00
4) Pentafluorobenzene	10.70	168	588372	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	969925	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.16	117	836709	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	349492	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.22	113	331993	24.51	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.04%		
50) Toluene-d8 (surr)	14.20	98	1012388	24.64	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.56%		
64) 4-Bromofluorobenzene (surr	17.83	95	372989	24.12	ug/L	0.00
Spiked Amount 25.000			Recovery =	96.48%		

Target Compounds						Qvalue
2) Ethanol	6.19	45	35179	251.40	ug/L #	54
3) tert-Butanol (TBA)	7.70	59	97388	104.04	ug/L	100
5) Dichlorodifluoromethane	4.89	85	408505	21.24	ug/L	97
6) Chloromethane	5.15	50	518602	17.91	ug/L	99
7) Vinyl Chloride	5.50	62	356928	17.65	ug/L	99
8) 1,3-Butadiene	5.56	54	241248	18.97	ug/L	99
9) Bromomethane	6.01	94	286581	18.02	ug/L	100
10) Chloroethane	6.20	64	234014	18.70	ug/L	98
11) Acrolein	6.95	56	21111	17.72	ug/L	99
12) Trichlorofluoromethane	7.06	101	335430m	20.08	ug/L	
13) Acetone	7.11	43	86533	17.47	ug/L	98
14) Acrylonitrile	7.75	53	61297	17.29	ug/L	100
15) Iodomethane	7.76	142	449324	18.41	ug/L	100
16) 1,1-Dichloroethene	7.71	96	275508	18.53	ug/L	99
17) Methylene Chloride	7.87	84	323271	17.05	ug/L	99
18) Freon 113	8.02	101	275380	19.31	ug/L	95
19) Carbon Disulfide	8.21	76	781399m	19.79	ug/L	
20) trans-1,2-Dichloroethene	8.74	96	371513	18.92	ug/L	99
21) MTBE	8.88	73	594546	18.21	ug/L	100
22) 1,1-Dichloroethane	9.06	63	688628	19.05	ug/L	100
23) Vinyl Acetate	9.20	43	486844	19.43	ug/L	99
24) n-Hexane	9.56	86	78793	20.96	ug/L	99
25) 2-Butanone (MEK)	9.61	72	21089	17.31	ug/L #	91
26) Diisopropylether (DIPE)	9.60	45	1360117	18.10	ug/L	96
27) cis-1,2-Dichloroethene	9.79	96	390902	18.47	ug/L	98
28) Bromochloromethane	10.00	128	168389	18.91	ug/L	97
29) Chloroform	10.06	83	628639	18.52	ug/L	99
30) 2,2-Dichloropropane	10.16	77	294815	20.12	ug/L	94
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	790130	17.72	ug/L	99
33) Tetrahydrofuran	10.48	72	18929	17.02	ug/L	91
34) 1,2-Dichloroethane	10.89	62	381019	18.39	ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	460529	19.78	ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	537541	17.29	ug/L	99
38) 1,1-Dichloropropene	11.26	75	464583	19.61	ug/L	99
39) Carbon Tetrachloride	11.50	117	424713	20.85	ug/L	99
0) Benzene	11.55	78	1265238	18.79	ug/L	100

(#) = qualifier out of range (m) = manual integration
09191103.D 091711.M Tue Sep 20 10:56:27 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:53 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

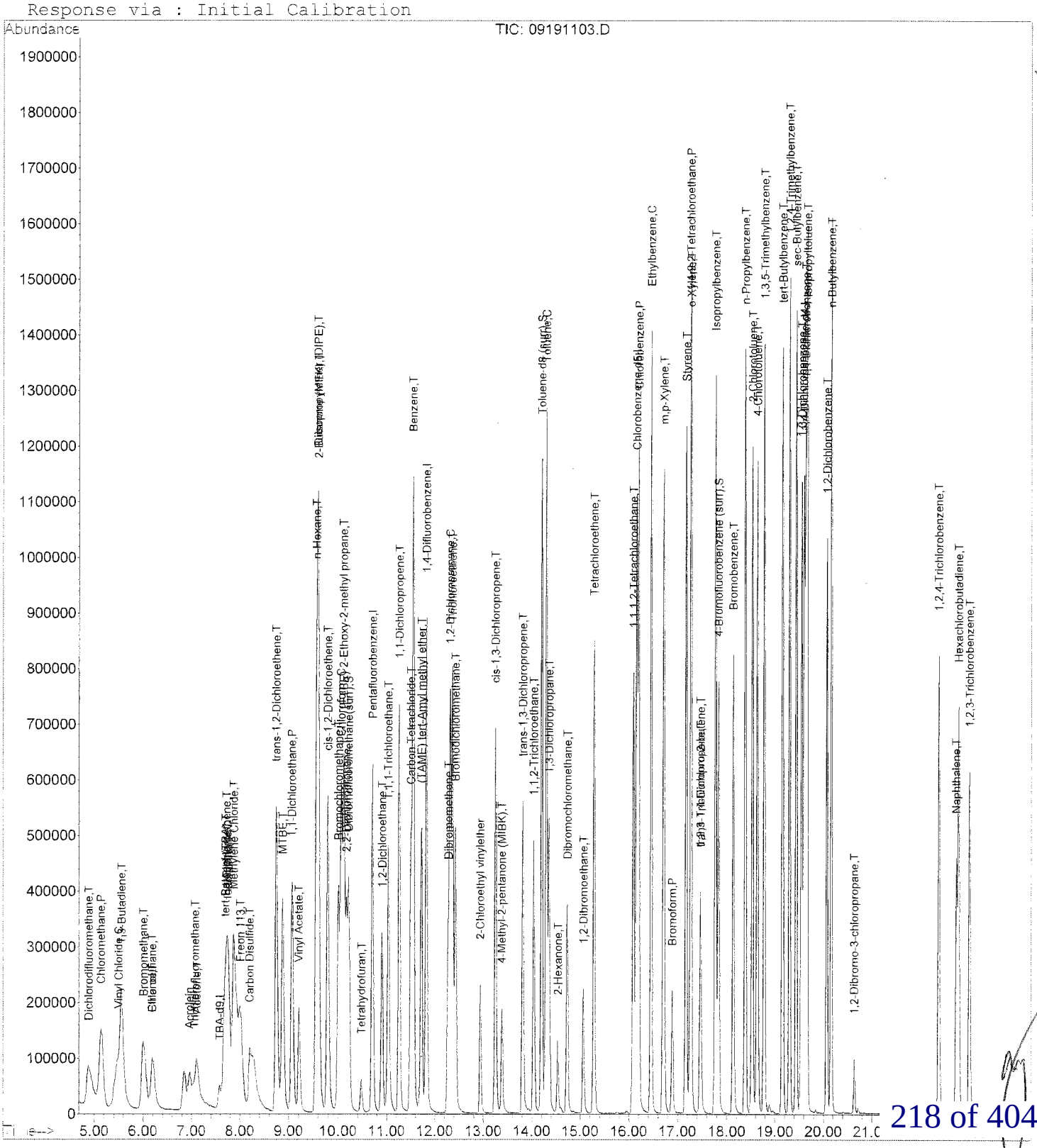
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.27	93	176128	18.78 ug/L	97
42) 1,2-Dichloropropane	12.31	63	352417	18.77 ug/L	99
43) Trichloroethene	12.36	95	345577	18.71 ug/L	99
44) Bromodichloromethane	12.42	83	431002	19.33 ug/L	100
45) 2-Chloroethyl vinylether	12.94	63	122083	20.05 ug/L	96
46) cis-1,3-Dichloropropene	13.25	75	487953	20.23 ug/L	99
47) 4-Methyl-2-pentanone (MIBK	13.38	43	204152	18.71 ug/L	99
48) trans-1,3-Dichloropropene	13.81	75	383411	20.55 ug/L	100
49) 1,1,2-Trichloroethane	14.03	97	209994	18.49 ug/L	100
51) Toluene	14.29	92	715376	18.52 ug/L	100
53) 1,3-Dichloropropane	14.35	76	355551	18.64 ug/L	100
54) 2-Hexanone	14.54	43	136958	18.26 ug/L	98
55) Dibromochloromethane	14.73	129	270184	20.76 ug/L	99
56) 1,2-Dibromoethane	15.06	107	217299	19.35 ug/L	100
57) Tetrachloroethene	15.28	164	256284	19.69 ug/L	99
58) 1,1,1,2-Tetrachloroethane	16.09	131	293270	20.09 ug/L	98
59) Chlorobenzene	16.20	112	860119	19.40 ug/L	100
60) Ethylbenzene	16.45	91	1335025	19.09 ug/L	99
61) m,p-Xylene	16.71	106	535297	18.76 ug/L	99
62) Styrene	17.17	104	804682	20.24 ug/L	99
63) o-Xylene	17.27	106	492248	18.54 ug/L	99
66) Bromoform	16.89	173	139570	19.08 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	199795	18.80 ug/L	98
68) 1,2,3-Trichloropropane	17.45	110	56240	19.21 ug/L	99
69) trans-1,4-Dichloro-2-buten	17.47	53	56093	21.10 ug/L	98
70) Isopropylbenzene	17.77	105	1171136	20.07 ug/L	99
71) Bromobenzene	18.13	156	305164	19.72 ug/L	98
72) n-Propylbenzene	18.37	91	1473993	19.77 ug/L	100
73) 2-Chlorotoluene	18.52	91	903485	19.40 ug/L	99
74) 4-Chlorotoluene	18.63	91	905985	19.70 ug/L	99
75) 1,3,5-Trimethylbenzene	18.78	105	1012602	19.93 ug/L	99
76) tert-Butylbenzene	19.16	119	861807	20.39 ug/L	99
77) 1,2,4-Trimethylbenzene	19.30	105	1025062	19.74 ug/L	99
78) sec-Butylbenzene	19.43	105	1296231	19.71 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	562770	19.62 ug/L	100
80) 1,4-Dichlorobenzene	19.63	146	553305	19.49 ug/L	100
81) 4-Isopropyltoluene	19.66	119	1092322	20.48 ug/L	100
82) 1,2-Dichlorobenzene	20.07	146	502910	20.19 ug/L	100
83) n-Butylbenzene	20.16	91	1036669	20.14 ug/L	100
84) 1,2-Dibromo-3-chloropropan	20.63	75	27154	20.41 ug/L	98
85) 1,2,4-Trichlorobenzene	22.37	180	346630	20.90 ug/L	100
86) Naphthalene	22.72	128	476171	22.01 ug/L	100
87) Hexachlorobutadiene	22.77	225	210809	20.75 ug/L	100
88) 1,2,3-Trichlorobenzene	23.00	180	280246	21.41 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:53 2011 Quant Results File: 091711.RES

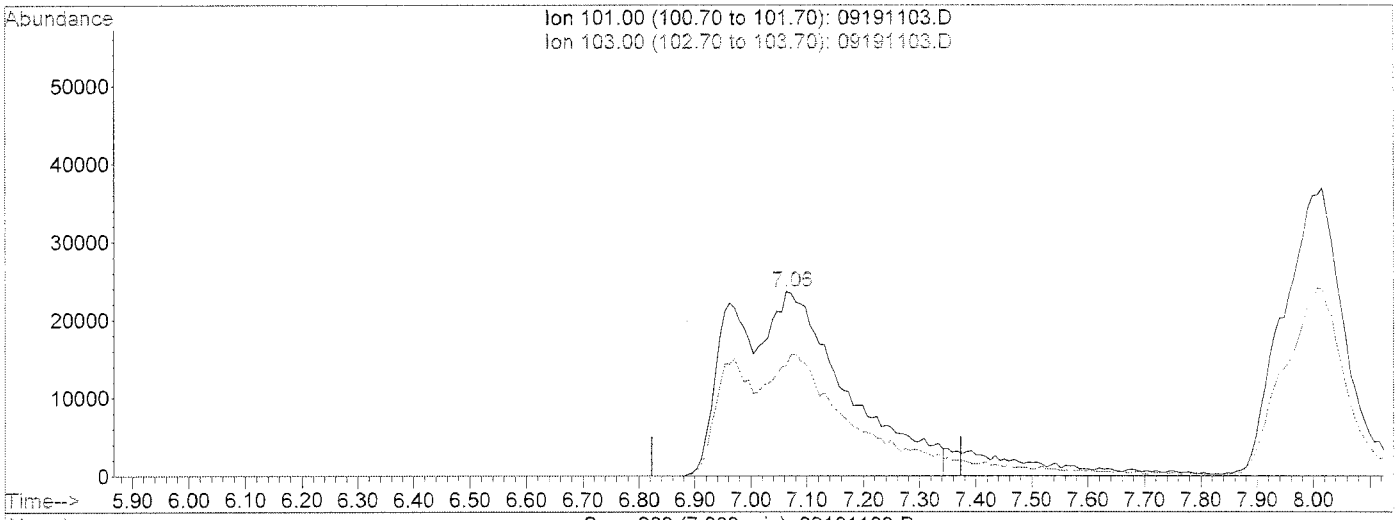
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

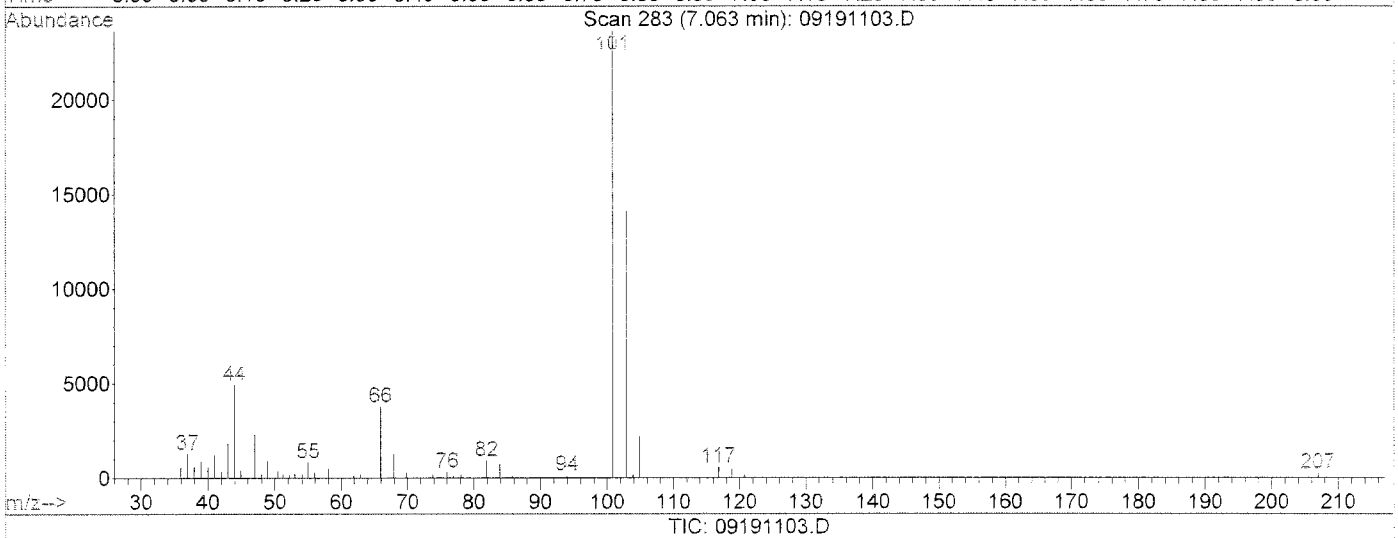


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191103.D

(12) Trichlorofluoromethane (T)

7.06min 20.08ug/L m

response 335430

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	59.66
0.00	0.00	0.00
0.00	0.00	0.00

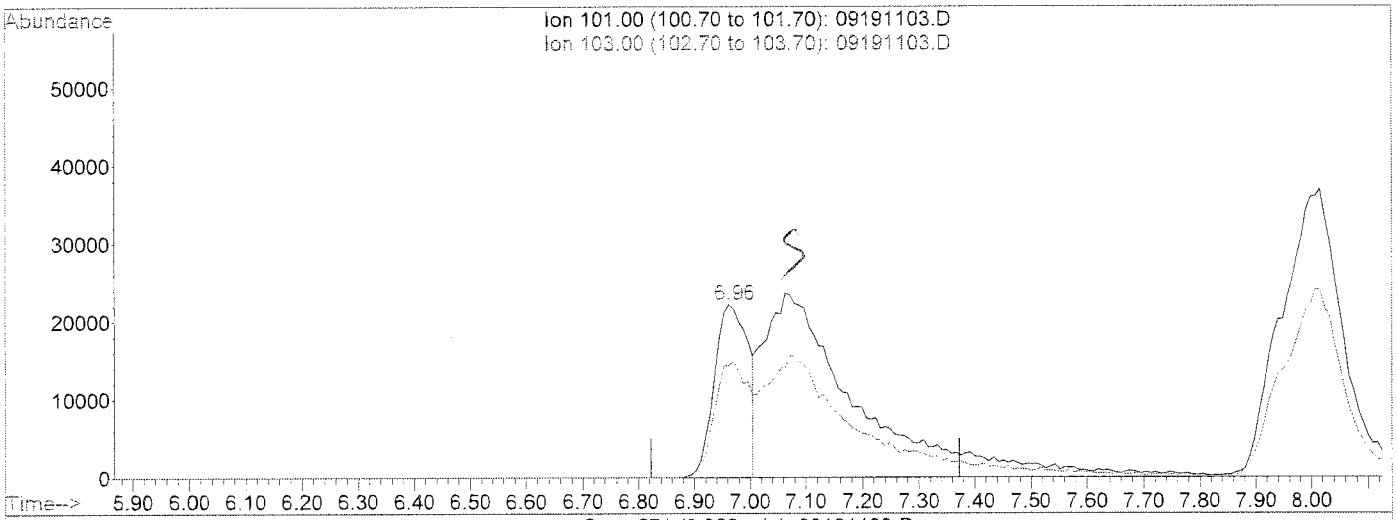
9/20/11

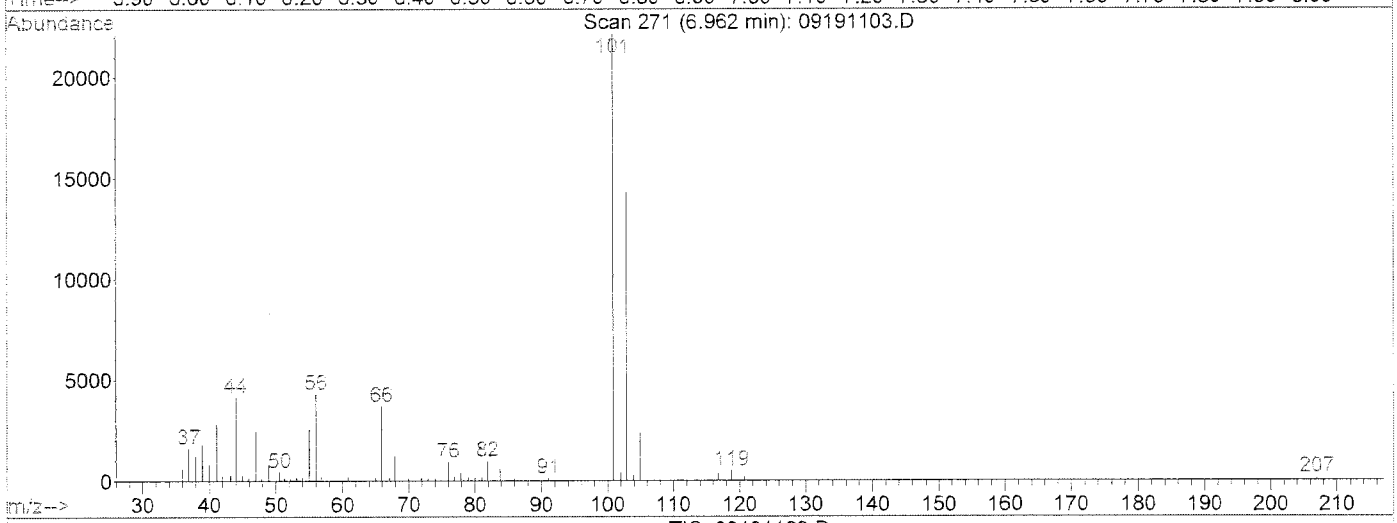
09191103.D 091711.M Tue Sep 20 10:53:38 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191103.D

(12) Trichlorofluoromethane (T)

6.96min 5.63ug/L

response 94034

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	64.59
0.00	0.00	0.00
0.00	0.00	0.00

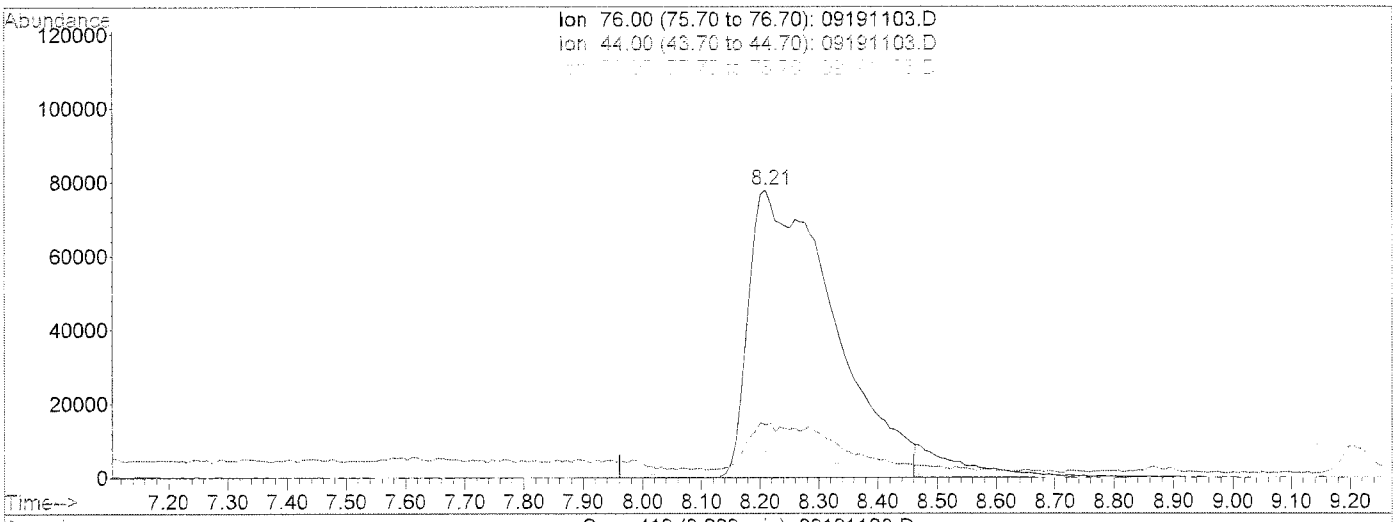
9/20/11

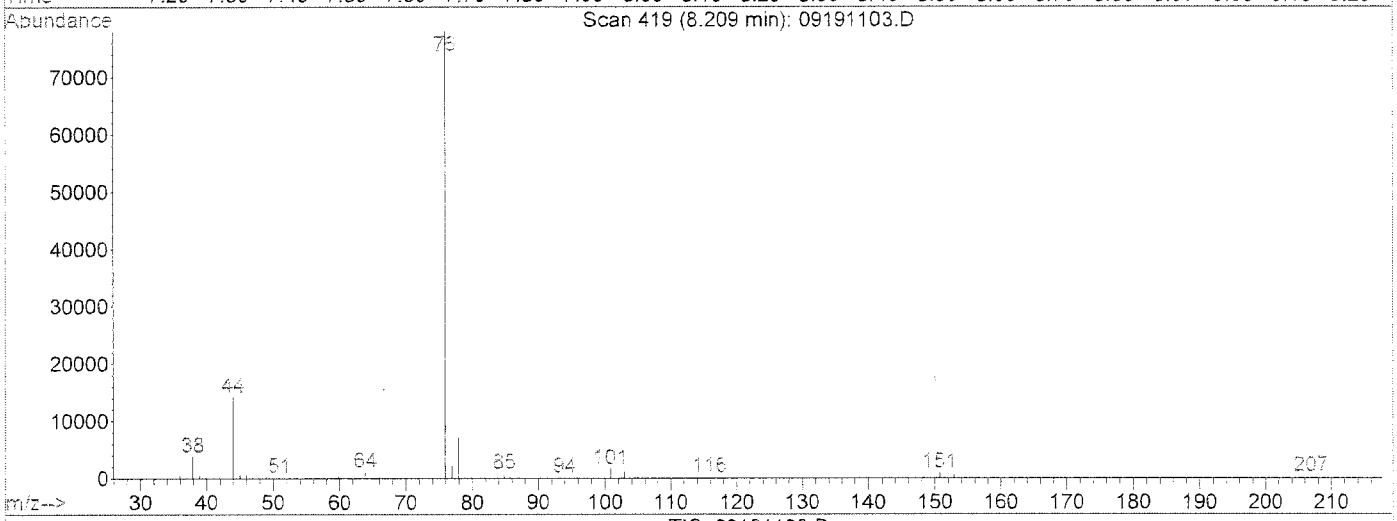
09191103.D 091711.M Tue Sep 20 10:53:31 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191103.D

(19) Carbon Disulfide (T)

8.21min 19.79ug/L m

response 781399

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	8.76
78.00	4.00	8.78#
0.00	0.00	0.00

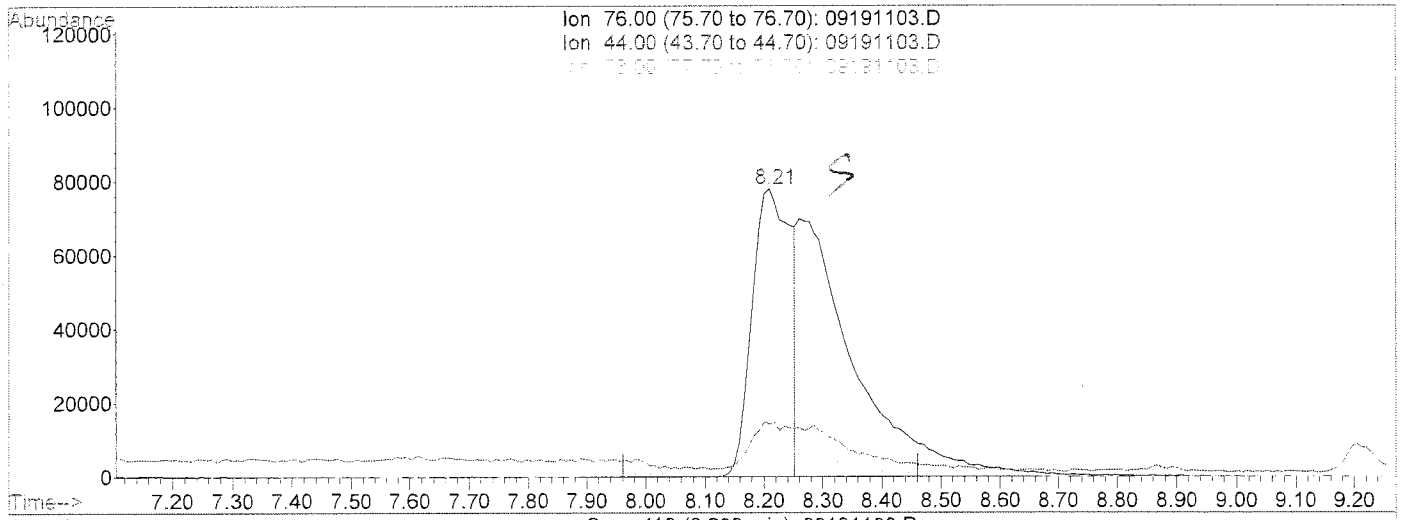
9/20/11

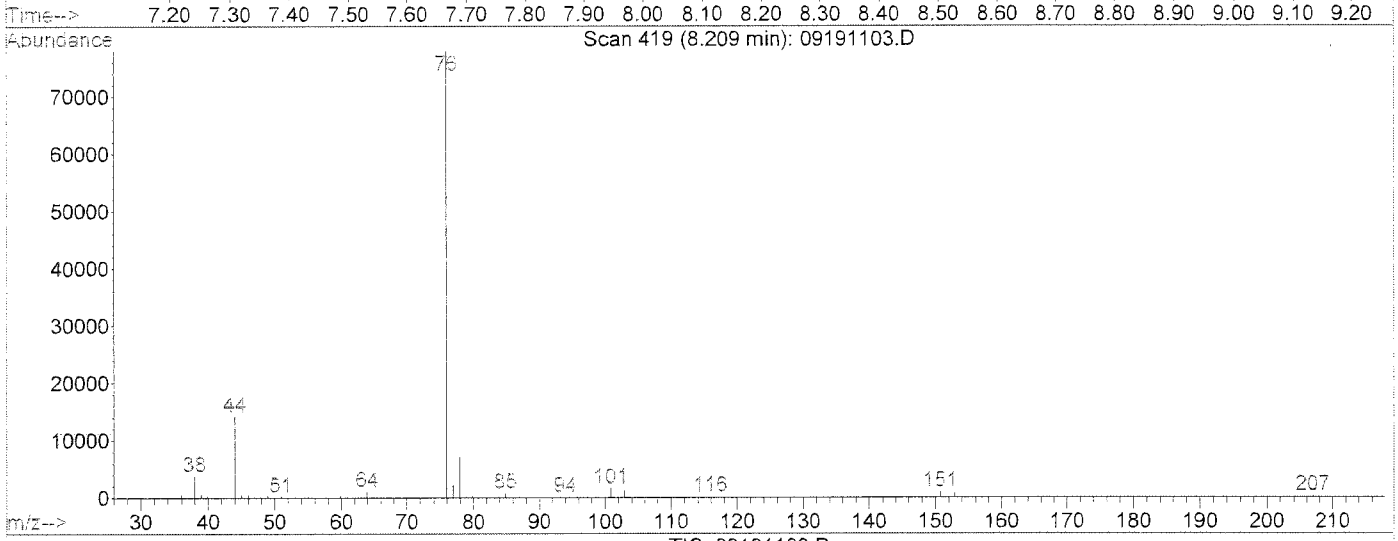
09191103.D 091711.M Tue Sep 20 10:53:57 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 9:03 am Operator: MS
Sample : 20 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:53 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191103.D

(19) Carbon Disulfide (T)

8.21min 8.93ug/L

response 352523

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	19.41#
78.00	4.00	19.46#
0.00	0.00	0.00

✓ 9/20/11

09191103.D 091711.M Tue Sep 20 10:53:44 2011

624 CCV/ICV Custom Report

Data File Name	09191103.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\091911\
Operator	MS
Date Acquired	9/19/2011 9:03
Acq. Method File	8260C
Sample Name	20 PPB CCV
Instrument Name	GCMS9

9/20/11

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	108956	110195	55097.5	220390	TRUE
Pentafluorobenzene	543582	543057	271528.5	1086114	TRUE
1,4-Difluorobenzene	908524	902453	451226.5	1804906	TRUE
Chlorobenzene-d5	812386	810477	405238.5	1620954	TRUE
1,4-Dichlorobenzene-d4	349492	344283	172141.5	688566	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	251.40	200	126	36	150	TRUE
tert-Butanol (TBA)	104.04	100	104	70	134	TRUE
Dichlorodifluoromethane	21.24	20	106	60	140	TRUE
Chloromethane	17.91	20	90	0	204	TRUE
Vinyl Chloride	17.65	20	88	4	196	TRUE
1,3-Butadiene	18.97	20	95	50	141	TRUE
Bromomethane	18.02	20	90	14	186	TRUE
Chloroethane	18.70	20	94	38	162	TRUE
Acrolein	17.72	20	89	80	120	TRUE
Trichlorofluoromethane	20.08	20	100	48	152	TRUE
Acetone	17.47	20	87	12	150	TRUE
Acrylonitrile	17.29	20	86	80	120	TRUE
Iodomethane	18.41	20	92	40	150	TRUE
1,1-Dichloroethene	18.53	20	93	50	150	TRUE
Methylene Chloride	17.05	20	85	60	140	TRUE
Freon 113	19.31	20	97	76	124	TRUE
Carbon Disulfide	19.79	20	99	64	136	TRUE
trans-1,2-Dichloroethene	18.92	20	95	70	130	TRUE
MTBE	18.21	20	91	64	140	TRUE
1,1-Dichloroethane	19.05	20	95	72	128	TRUE
Vinyl Acetate	19.43	20	97	48	150	TRUE
n-Hexane	20.96	20	105	56	150	TRUE
2-Butanone (MEK)	17.31	20	87	44	150	TRUE
Diisopropylether (DIPE)	18.10	20	90	72	132	TRUE
cis-1,2-Dichloroethene	18.47	20	92	72	128	TRUE
Bromochloromethane	18.91	20	95	72	132	TRUE
Chloroform	18.52	20	93	68	132	TRUE
2,2-Dichloropropane	20.12	20	101	64	140	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	17.72	20	89	72	140	TRUE
Dibromofluoromethane(surr)	24.51	25	98	80	120	TRUE
Tetrahydrofuran	17.02	20	85	64	139	TRUE
1,2-Dichloroethane	18.39	20	92	68	132	TRUE
1,1,1-Trichloroethane	19.78	20	99	75	125	TRUE

(TAME) tert-Amyl methyl ether	17.29	20	86	68	140	TRUE
1,1-Dichloropropene	19.61	20	98	76	128	TRUE
Carbon Tetrachloride	20.85	20	104	73	127	TRUE
Benzene	18.79	20	94	64	136	TRUE
Dibromomethane	18.78	20	94	72	132	TRUE
1,2-Dichloropropane	18.77	20	94	34	166	TRUE
Trichloroethene	18.71	20	94	66	133	TRUE
Bromodichloromethane	19.33	20	97	66	134	TRUE
2-Chloroethyl vinylether	20.05	20	100	0	224	TRUE
cis-1,3-Dichloropropene	20.23	20	101	24	176	TRUE
4-Methyl-2-pentanone (MIBK)	18.71	20	94	60	144	TRUE
trans-1,3-Dichloropropene	20.55	20	103	50	150	TRUE
1,1,2-Trichloroethane	18.49	20	92	71	129	TRUE
Toluene-d8 (surr)	24.64	25	99	80	120	TRUE
Toluene	18.52	20	93	74	126	TRUE
1,3-Dichloropropane	18.64	20	93	80	124	TRUE
2-Hexanone	18.26	20	91	52	150	TRUE
Dibromochloromethane	20.76	20	104	68	132	TRUE
1,2-Dibromoethane	19.35	20	97	80	128	TRUE
Tetrachloroethene	19.69	20	98	74	126	TRUE
1,1,1,2-Tetrachloroethane	20.09	20	100	76	124	TRUE
Chlorobenzene	19.40	20	97	66	134	TRUE
Ethylbenzene	19.09	20	95	59	141	TRUE
m,p-Xylene	18.76	20	94	80	120	TRUE
Styrene	20.24	20	101	84	124	TRUE
o-Xylene	18.54	20	93	72	128	TRUE
4-Bromofluorobenzene (surr)	24.12	25	96	80	120	TRUE
Bromoform	19.08	20	95	71	129	TRUE
1,1,2,2-Tetrachloroethane	18.80	20	94	61	140	TRUE
1,2,3-Trichloropropane	19.21	20	96	76	128	TRUE
trans-1,4-Dichloro-2-butene	21.10	20	105	48	138	TRUE
Isopropylbenzene	20.07	20	100	76	132	TRUE
Bromobenzene	19.72	20	99	76	128	TRUE
n-Propylbenzene	19.77	20	99	76	132	TRUE
2-Chlorotoluene	19.40	20	97	80	124	TRUE
4-Chlorotoluene	19.70	20	99	80	124	TRUE
1,3,5-Trimethylbenzene	19.93	20	100	80	128	TRUE
tert-Butylbenzene	20.39	20	102	76	132	TRUE
1,2,4-Trimethylbenzene	19.74	20	99	80	128	TRUE
sec-Butylbenzene	19.71	20	99	80	128	TRUE
1,3-Dichlorobenzene	19.62	20	98	73	127	TRUE
1,4-Dichlorobenzene	19.49	20	97	63	137	TRUE
4-Isopropyltoluene	20.48	20	102	80	128	TRUE
1,2-Dichlorobenzene	20.19	20	101	63	137	TRUE
n-Butylbenzene	20.14	20	101	76	132	TRUE
1,2-Dibromo-3-chloropropane	20.41	20	102	64	128	TRUE
1,2,4-Trichlorobenzene	20.90	20	104	76	128	TRUE
Naphthalene	22.01	20	110	68	136	TRUE
Hexachlorobutadiene	20.75	20	104	76	132	TRUE
1,2,3-Trichlorobenzene	21.41	20	107	72	128	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:58 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

L, CS_2 @ Ultra Low Long. 9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	86373	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	511258	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	834415	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	719051	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	300036	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	282666	24.02 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.08%	
50) Toluene-d8 (surr)	14.20	98	882904	24.98 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.92%	
64) 4-Bromofluorobenzene (surr	17.83	95	316877	23.84 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.36%	

Target Compounds					Qvalue
2) Ethanol	6.19	45	41294	364.08 ug/L #	58
3) tert-Butanol (TBA)	7.70	59	116705	148.65 ug/L	100
5) Dichlorodifluoromethane	4.89	85	471025	28.18 ug/L	99
6) Chloromethane	5.14	50	568525	22.59 ug/L	98
7) Vinyl Chloride	5.48	62	430885	24.52 ug/L	99
8) 1,3-Butadiene	5.56	54	392926	35.56 ug/L	100
9) Bromomethane	6.00	94	320674	23.20 ug/L	99
10) Chloroethane	6.19	64	285108	26.22 ug/L	99
11) Acrolein	6.92	56	639	0.62 ug/L #	16
12) Trichlorofluoromethane	7.06	101	422009m	29.07 ug/L	
13) Acetone	7.11	43	89086	21.21 ug/L	97
14) Acrylonitrile	7.74	53	3012	0.98 ug/L #	60
15) Iodomethane	7.78	142	698467	32.93 ug/L	100
16) 1,1-Dichloroethene	7.70	96	363670	28.15 ug/L	99
17) Methylene Chloride	7.86	84	402575	24.44 ug/L	99
18) Freon 113	8.00	101	370653	29.91 ug/L	96
19) Carbon Disulfide	8.27	76	1141135m	33.27 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	466823	27.36 ug/L	99
21) MTBE	8.87	73	722794	25.48 ug/L	100
22) 1,1-Dichloroethane	9.06	63	869074	27.66 ug/L	99
23) Vinyl Acetate	9.20	43	625827	28.74 ug/L	100
24) n-Hexane	9.56	86	102602	31.41 ug/L	95
25) 2-Butanone (MEK)	9.59	72	24661	23.30 ug/L #	73
26) Diisopropylether (DIPE)	9.59	45	1658107	25.39 ug/L	96
27) cis-1,2-Dichloroethene	9.79	96	464467	25.26 ug/L	99
28) Bromochloromethane	10.00	128	206564	26.69 ug/L	98
29) Chloroform	10.06	83	773300	26.22 ug/L	100
30) 2,2-Dichloropropane	10.16	77	370719	29.12 ug/L	100
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	960140	24.79 ug/L	99
33) Tetrahydrofuran	10.48	72	23801	25.32 ug/L	99
34) 1,2-Dichloroethane	10.89	62	485522	26.97 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	579515	28.65 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	702226	26.00 ug/L	99
38) 1,1-Dichloropropene	11.25	75	570701	28.00 ug/L	100
39) Carbon Tetrachloride	11.50	117	534571	30.50 ug/L	99
0) Benzene	11.55	78	1606964	27.74 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:58 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

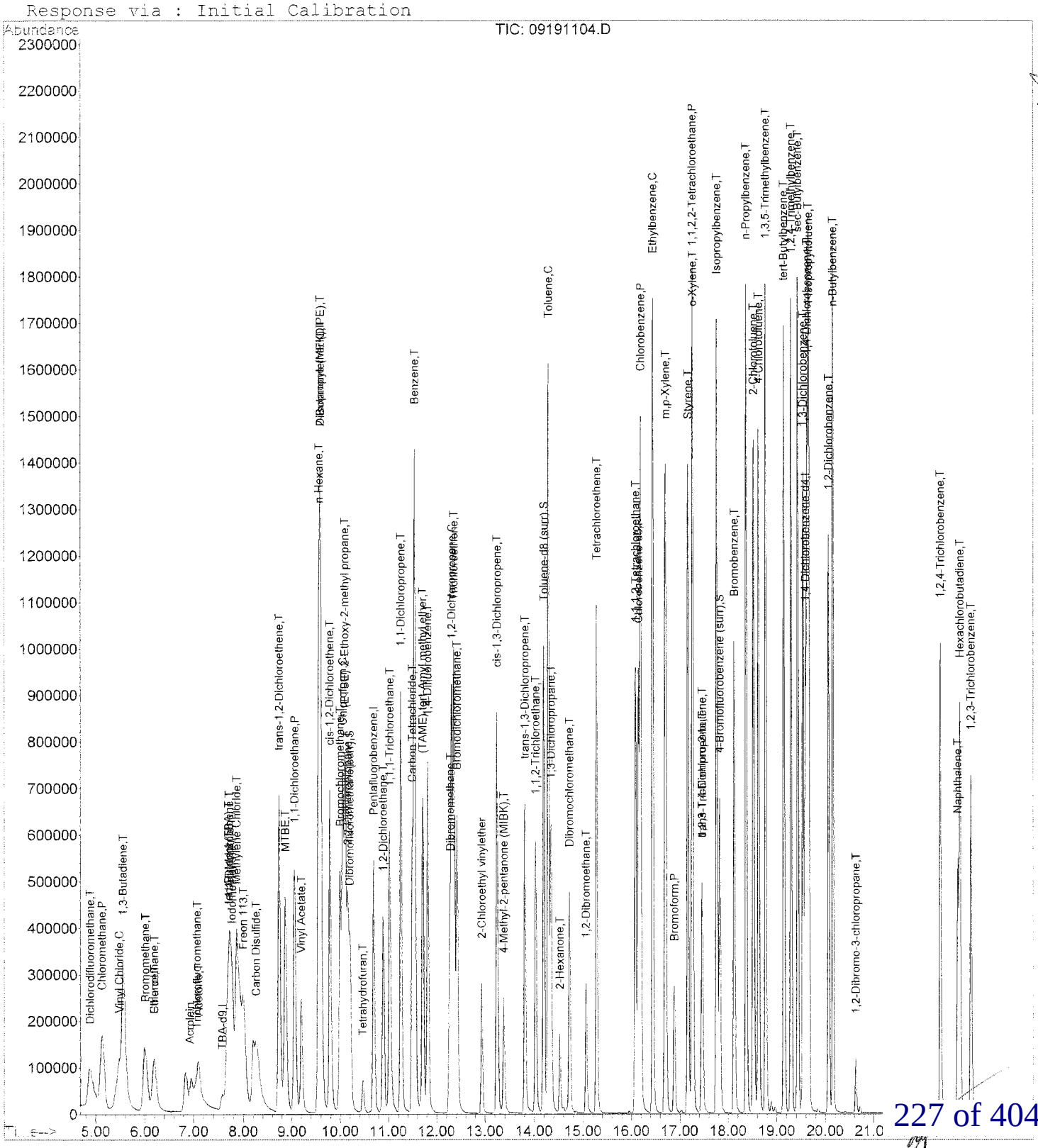
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	208826	25.89 ug/L	99
42)	1,2-Dichloropropane	12.31	63	438381	27.15 ug/L	99
43)	Trichloroethene	12.36	95	439687	27.66 ug/L	99
44)	Bromodichloromethane	12.42	83	531597	27.71 ug/L	99
45)	2-Chloroethyl vinylether	12.94	63	147977	28.25 ug/L	97
46)	cis-1,3-Dichloropropene	13.25	75	602175	29.01 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	253174	26.97 ug/L	98
48)	trans-1,3-Dichloropropene	13.81	75	463545	28.87 ug/L	100
49)	1,1,2-Trichloroethane	14.03	97	257207	26.33 ug/L	98
51)	Toluene	14.29	92	894562	26.92 ug/L	99
53)	1,3-Dichloropropane	14.35	76	428166	26.12 ug/L	100
54)	2-Hexanone	14.53	43	168495	26.14 ug/L	100
55)	Dibromochloromethane	14.72	129	338420	30.26 ug/L	100
56)	1,2-Dibromoethane	15.06	107	262862	27.24 ug/L	99
57)	Tetrachloroethene	15.28	164	328059	29.33 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	362881	28.93 ug/L	98
59)	Chlorobenzene	16.20	112	1083973	28.44 ug/L	99
60)	Ethylbenzene	16.45	91	1678755	27.94 ug/L	99
61)	m,p-Xylene	16.71	106	645371	26.31 ug/L	98
62)	Styrene	17.17	104	920517	26.95 ug/L	99
63)	o-Xylene	17.27	106	603062	26.43 ug/L	99
66)	Bromoform	16.89	173	169320	26.80 ug/L	98
67)	1,1,2,2-Tetrachloroethane	17.25	83	242560	26.59 ug/L	100
68)	1,2,3-Trichloropropane	17.45	110	69294	27.58 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.47	53	69229	30.33 ug/L	96
70)	Isopropylbenzene	17.77	105	1535394	30.65 ug/L	100
71)	Bromobenzene	18.13	156	378961	28.53 ug/L	99
72)	n-Propylbenzene	18.37	91	1873763	29.28 ug/L	99
73)	2-Chlorotoluene	18.52	91	1109881	27.76 ug/L	99
74)	4-Chlorotoluene	18.63	91	1128367	28.58 ug/L	98
75)	1,3,5-Trimethylbenzene	18.77	105	1276396	29.26 ug/L	99
76)	tert-Butylbenzene	19.15	119	1072832	29.57 ug/L	99
77)	1,2,4-Trimethylbenzene	19.30	105	1253655	28.12 ug/L	99
78)	sec-Butylbenzene	19.44	105	1587243	28.12 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	696263	28.27 ug/L	100
80)	1,4-Dichlorobenzene	19.63	146	690923	28.35 ug/L	99
81)	4-Isopropyltoluene	19.66	119	1343528	29.34 ug/L	100
82)	1,2-Dichlorobenzene	20.07	146	616494	28.82 ug/L	99
83)	n-Butylbenzene	20.16	91	1269111	28.71 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	31448	27.54 ug/L	94
85)	1,2,4-Trichlorobenzene	22.37	180	421092	29.57 ug/L	99
86)	Naphthalene	22.72	128	566915	30.52 ug/L	99
87)	Hexachlorobutadiene	22.77	225	257194	29.49 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	331110	29.47 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:58 2011 Quant Results File: 091711.RES

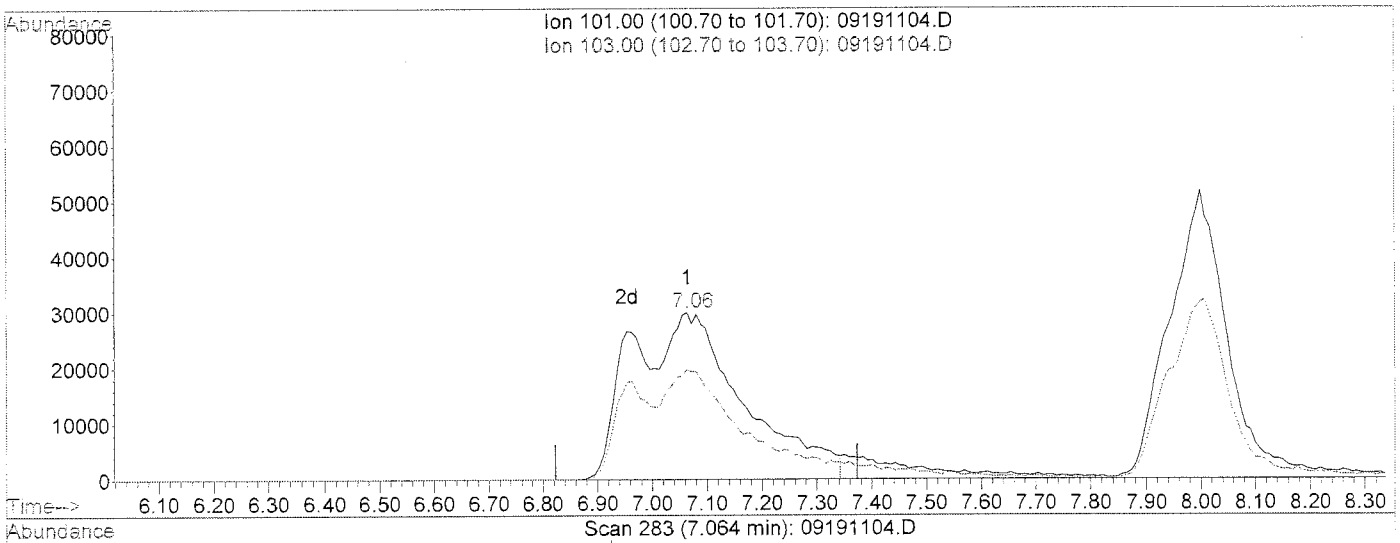
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

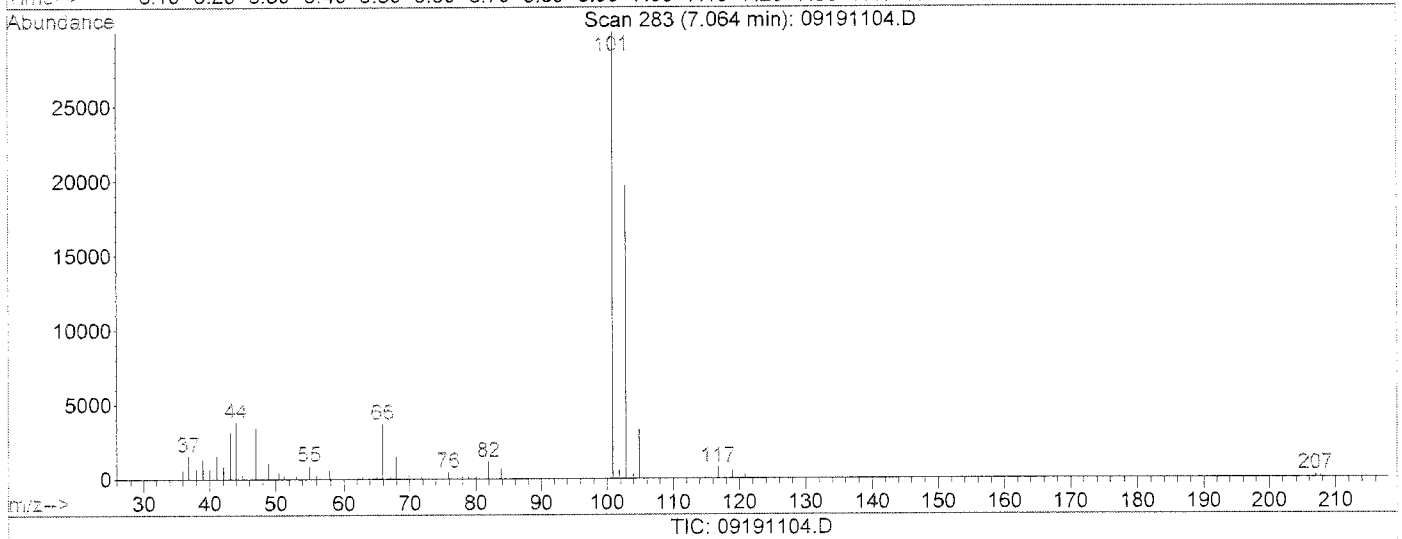


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:58 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191104.D

(12) Trichlorofluoromethane (T)

7.06min 29.07ug/L m

response 422009

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	65.57
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

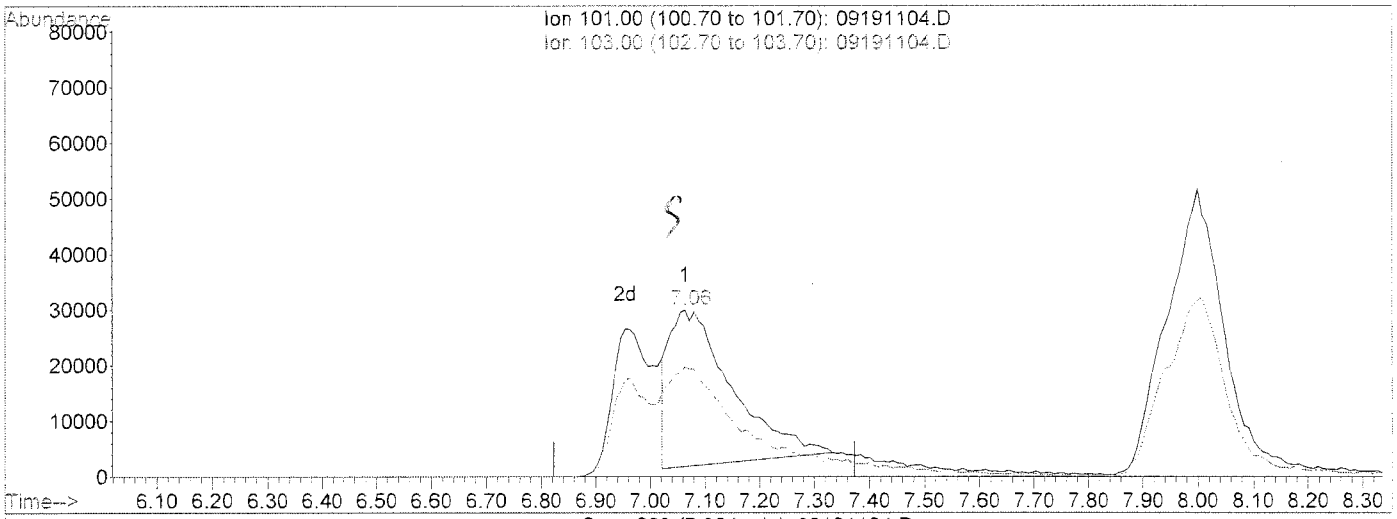
OK 9/20/11

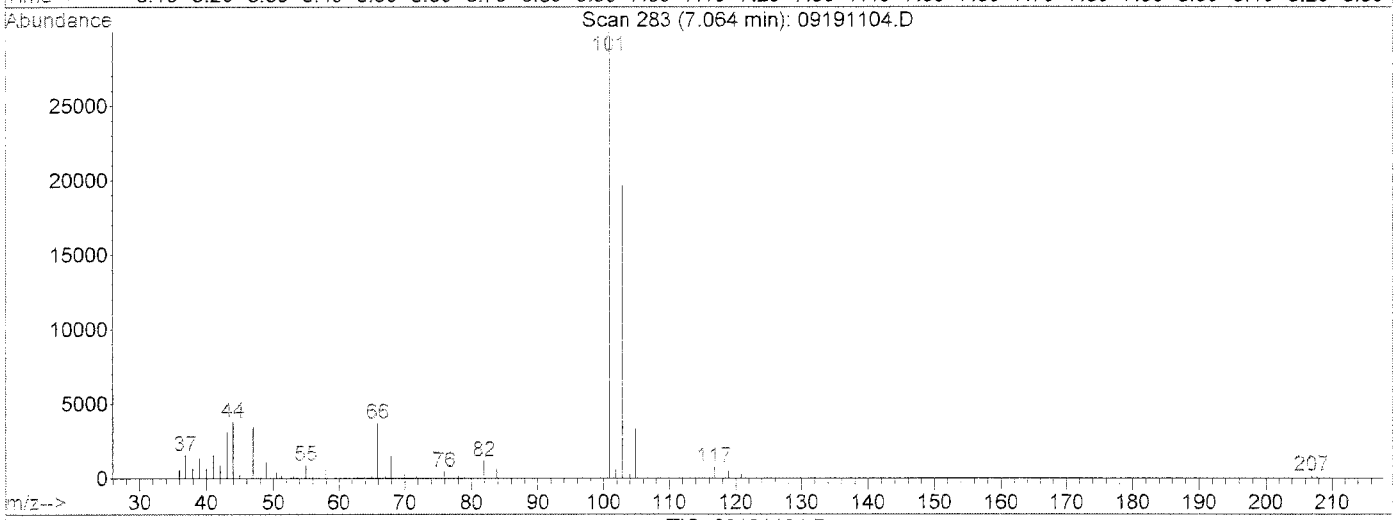
09191104.D 091711.M Tue Sep 20 10:58:21 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 10:18 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191104.D

(12) Trichlorofluoromethane (T)

7.06min 15.45ug/L

response 224257

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	65.09
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

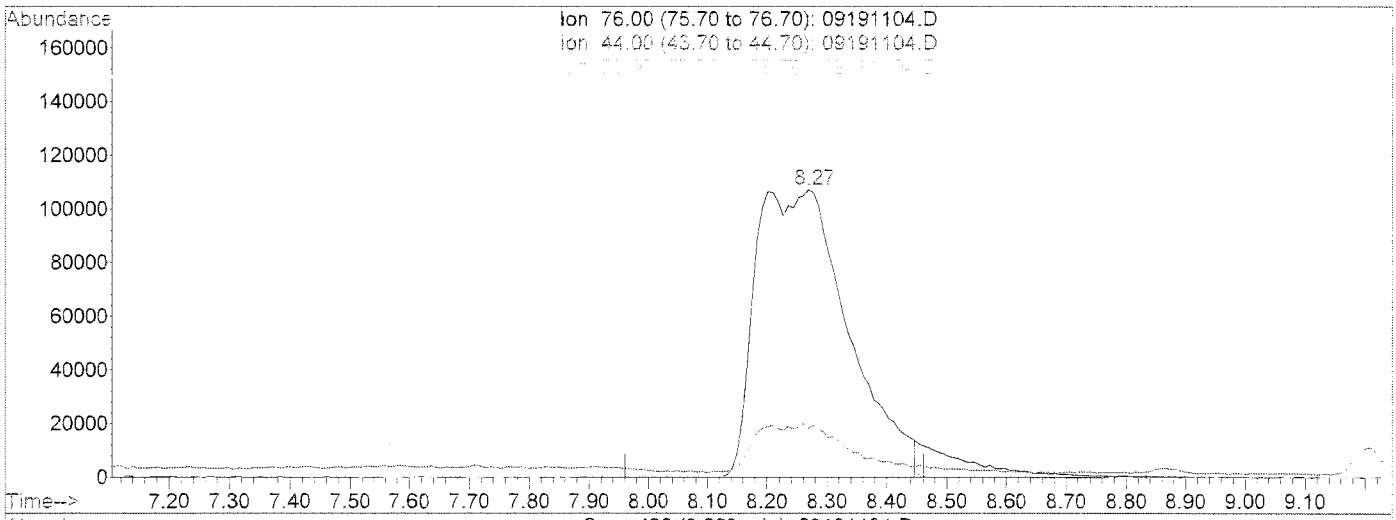
Before AM 9/20/11

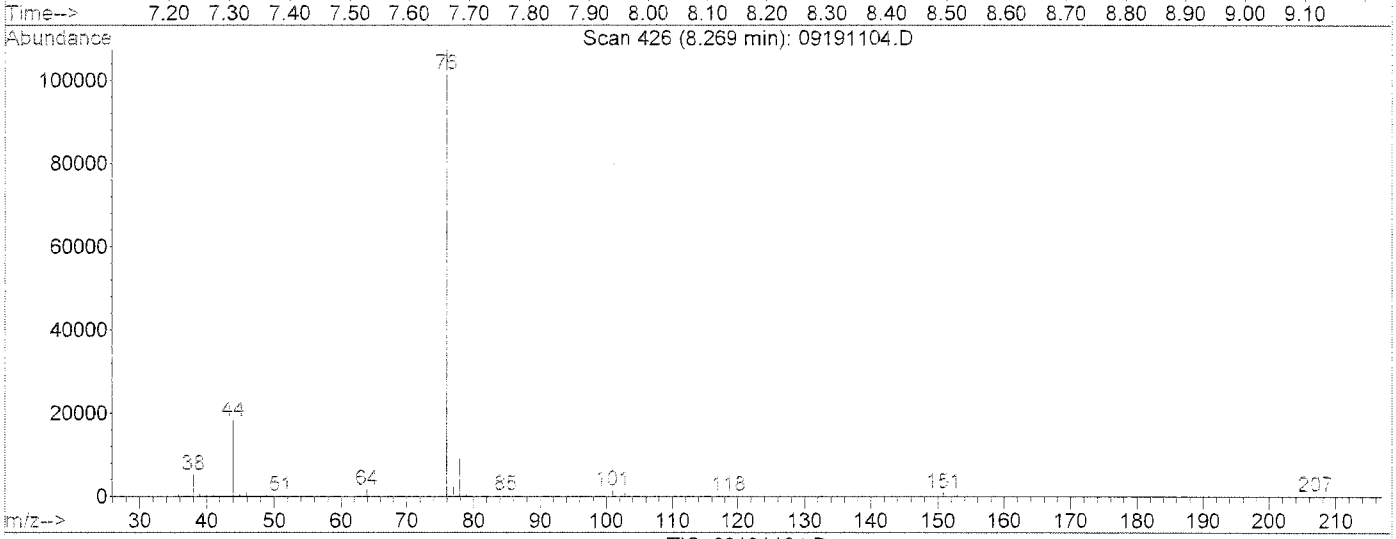
09191104.D 091711.M Tue Sep 20 10:56:40 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:58 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191104.D

(19) Carbon Disulfide (T)

8.27min 33.27ug/L m

response 1141135

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	5.72#
78.00	4.00	3.79
0.00	0.00	0.00

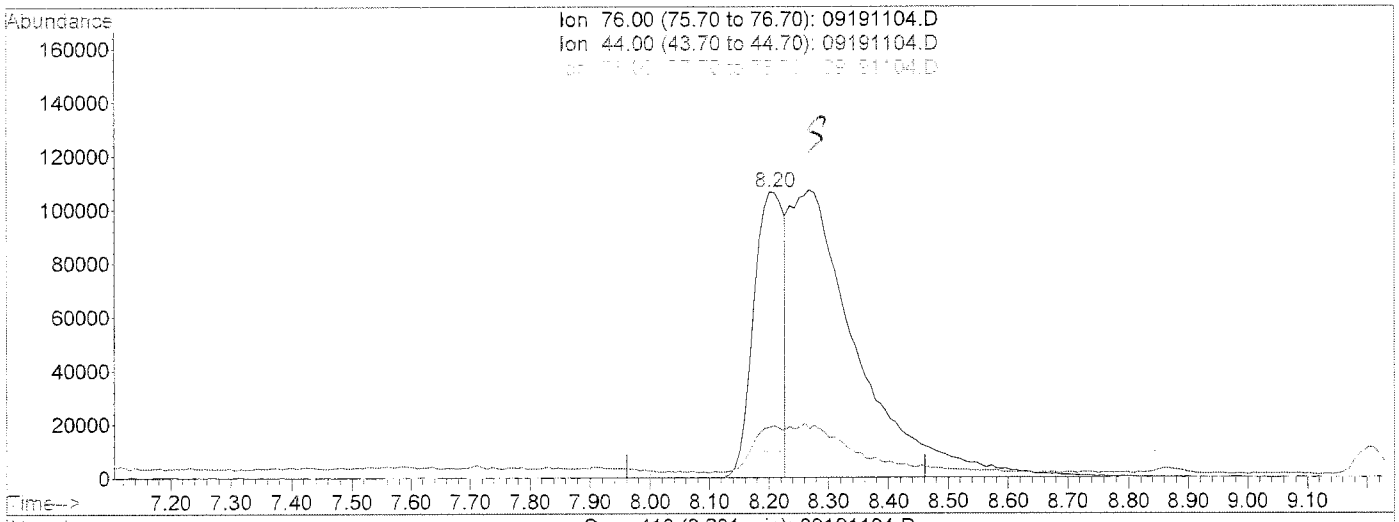
9/20/11

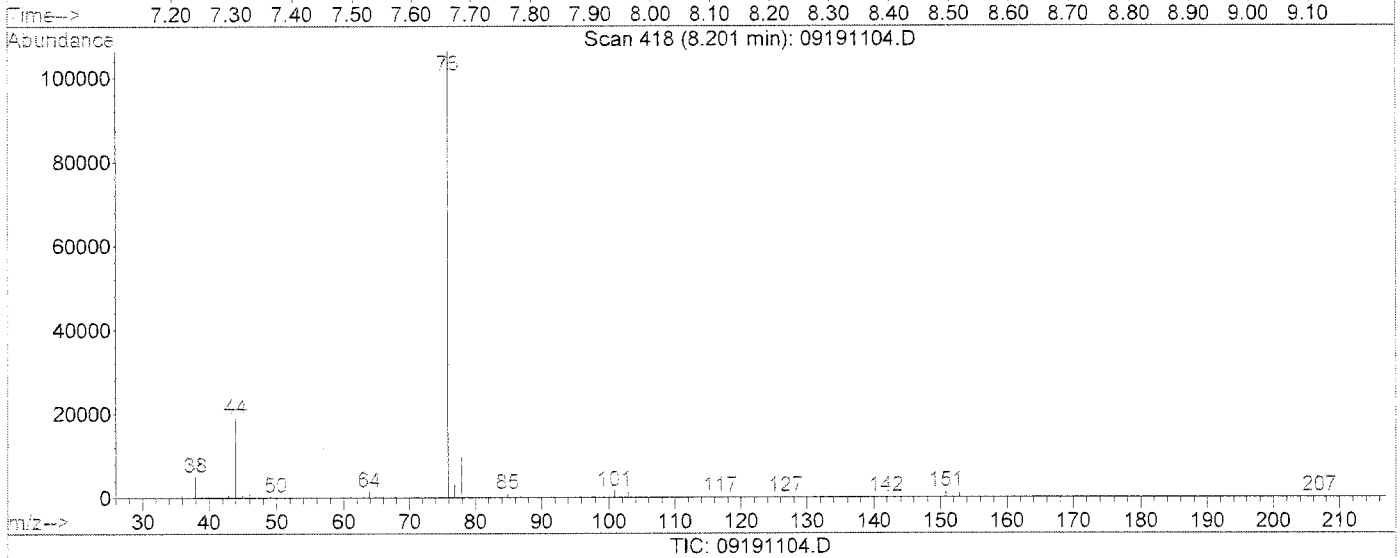
09191104.D 091711.M Tue Sep 20 10:58:49 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 9:35 am Operator: MS
Sample : 11I0627-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:58 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191104.D

(19) Carbon Disulfide (T)

8.20min 11.03ug/L

response 378357

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	17.26#
78.00	4.00	11.42#
0.00	0.00	0.00

9/20/11

09191104.D 091711.M Tue Sep 20 10:58:28 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.58	65	107281	200.00	ug/L	-0.01
4) Pentafluorobenzene	10.70	168	588475	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	955302	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.16	117	825593	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	350274	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr	10.21	113	332803	24.57	ug/L	-0.01
Spiked Amount 25.000			Recovery =	98.28%		
50) Toluene-d8 (surr)	14.20	98	998745	24.68	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.72%		
64) 4-Bromofluorobenzene (surr	17.82	95	370494	24.28	ug/L	-0.01
Spiked Amount 25.000			Recovery =	97.12%		

Target Compounds						Qvalue
2) Ethanol	6.17	45	48469	342.37	ug/L #	57
3) tert-Butanol (TBA)	7.69	59	125352	128.55	ug/L	100
5) Dichlorodifluoromethane	4.89	85	494493	25.71	ug/L	98
6) Chloromethane	5.14	50	590252	20.38	ug/L	99
7) Vinyl Chloride	5.49	62	436814	21.60	ug/L	100
8) 1,3-Butadiene	5.56	54	392165	30.84	ug/L	99
9) Bromomethane	6.01	94	336113	21.13	ug/L	100
10) Chloroethane	6.20	64	298715	23.87	ug/L	99
11) Acrolein	6.95	56	640	0.54	ug/L #	16
12) Trichlorofluoromethane	7.07	101	442313m	26.47	ug/L	
13) Acetone	7.11	43	94820	19.44	ug/L	97
14) Acrylonitrile	7.65	53	8616	2.43	ug/L #	20
15) Iodomethane	7.77	142	722634	29.60	ug/L	100
16) 1,1-Dichloroethene	7.71	96	374876	25.21	ug/L	99
17) Methylene Chloride	7.87	84	417672	22.03	ug/L	99
18) Freon 113	8.01	101	382833	26.84	ug/L	97
19) Carbon Disulfide	8.20	76	1176884m	29.81	ug/L	
20) trans-1,2-Dichloroethene	8.74	96	476176	24.24	ug/L	100
21) MTBE	8.87	73	768100	23.52	ug/L	100
22) 1,1-Dichloroethane	9.06	63	882984	24.42	ug/L	100
23) Vinyl Acetate	9.20	43	677066	27.02	ug/L	99
24) n-Hexane	9.56	86	100007	26.60	ug/L	97
25) 2-Butanone (MEK)	9.58	72	26773	21.97	ug/L #	94
26) Diisopropylether (DIPE)	9.60	45	1725957	22.96	ug/L	97
27) cis-1,2-Dichloroethene	9.79	96	469026	22.16	ug/L	99
28) Bromochloromethane	10.00	128	216430	24.30	ug/L	97
29) Chloroform	10.05	83	791376	23.31	ug/L	99
30) 2,2-Dichloropropane	10.16	77	367172	25.05	ug/L	97
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	996227	22.34	ug/L	99
33) Tetrahydrofuran	10.48	72	25748	23.70	ug/L	96
34) 1,2-Dichloroethane	10.89	62	497488	24.01	ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	591996	25.43	ug/L	100
36) (TAME) tert-Amyl methyl et	11.72	73	722360	23.23	ug/L	99
38) 1,1-Dichloropropene	11.25	75	582442	24.96	ug/L	99
39) Carbon Tetrachloride	11.50	117	549679	27.39	ug/L	99
0) Benzene	11.55	78	1620794	24.44	ug/L	100

(#) = qualifier out of range (m) = manual integration
09191105.D 091711.M Tue Sep 20 10:59:36 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

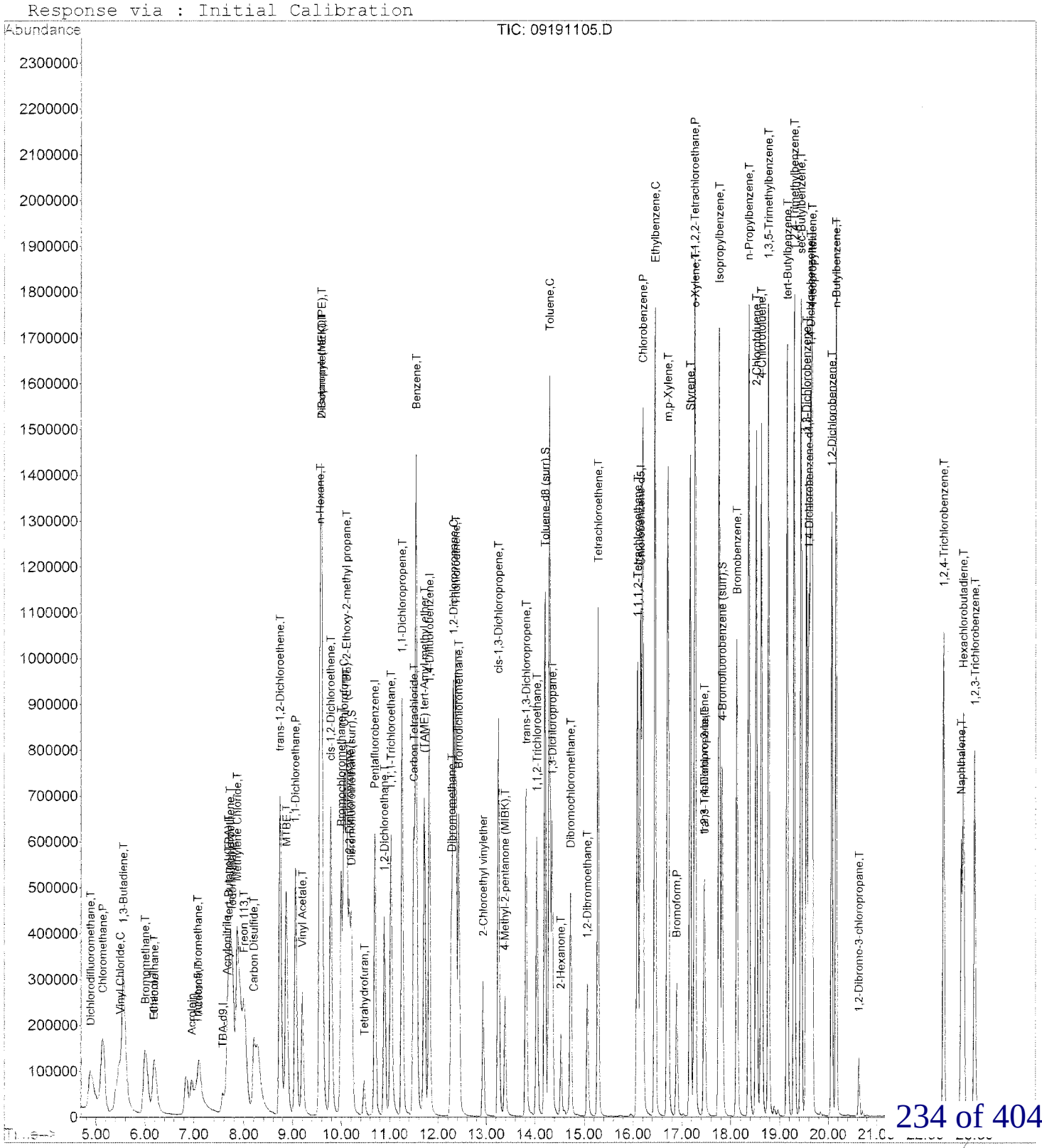
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41)	Dibromomethane	12.27	93	220695	23.90	ug/L	97
42)	1,2-Dichloropropane	12.31	63	443786	24.00	ug/L	98
43)	Trichloroethene	12.36	95	441528	24.27	ug/L	98
44)	Bromodichloromethane	12.42	83	542943	24.72	ug/L	99
45)	2-Chloroethyl vinylether	12.94	63	156513	26.10	ug/L	97
46)	cis-1,3-Dichloropropene	13.25	75	618967	26.05	ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	276750	25.75	ug/L	99
48)	trans-1,3-Dichloropropene	13.81	75	484907	26.38	ug/L	99
49)	1,1,2-Trichloroethane	14.03	97	269115	24.06	ug/L	99
51)	Toluene	14.29	92	905854	23.81	ug/L	100
53)	1,3-Dichloropropane	14.35	76	450606	23.94	ug/L	100
54)	2-Hexanone	14.53	43	184830	24.97	ug/L	100
55)	Dibromochloromethane	14.73	129	355164	27.66	ug/L	99
56)	1,2-Dibromoethane	15.06	107	282602	25.51	ug/L	100
57)	Tetrachloroethene	15.28	164	335926	26.16	ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	376702	26.16	ug/L	98
59)	Chlorobenzene	16.20	112	1096731	25.06	ug/L	99
60)	Ethylbenzene	16.45	91	1700572	24.65	ug/L	99
61)	m,p-Xylene	16.71	106	658501	23.38	ug/L	98
62)	Styrene	17.17	104	943345	24.05	ug/L	99
63)	o-Xylene	17.27	106	610713	23.31	ug/L	99
66)	Bromoform	16.89	173	184809	25.08	ug/L	98
67)	1,1,2,2-Tetrachloroethane	17.25	83	259513	24.37	ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	74773	25.49	ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.47	53	75593	28.37	ug/L	97
70)	Isopropylbenzene	17.77	105	1563138	26.73	ug/L	100
71)	Bromobenzene	18.13	156	393687	25.39	ug/L	97
72)	n-Propylbenzene	18.37	91	1899532	25.43	ug/L	98
73)	2-Chlorotoluene	18.52	91	1120785	24.01	ug/L	99
74)	4-Chlorotoluene	18.63	91	1146116	24.87	ug/L	98
75)	1,3,5-Trimethylbenzene	18.78	105	1297829	25.48	ug/L	100
76)	tert-Butylbenzene	19.16	119	1097225	25.91	ug/L	98
77)	1,2,4-Trimethylbenzene	19.30	105	1266212	24.32	ug/L	100
78)	sec-Butylbenzene	19.43	105	1613495	24.48	ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	706930	24.59	ug/L	99
80)	1,4-Dichlorobenzene	19.63	146	718019	25.24	ug/L	98
81)	4-Isopropyltoluene	19.66	119	1346137	25.18	ug/L	100
82)	1,2-Dichlorobenzene	20.07	146	646303	25.88	ug/L	100
83)	n-Butylbenzene	20.16	91	1280163	24.81	ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	34841	26.13	ug/L	96
85)	1,2,4-Trichlorobenzene	22.37	180	452567	27.22	ug/L	100
86)	Naphthalene	22.72	128	633159	29.20	ug/L	99
87)	Hexachlorobutadiene	22.77	225	261290	25.66	ug/L	100
88)	1,2,3-Trichlorobenzene	23.00	180	363751	27.73	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: 091711.RES

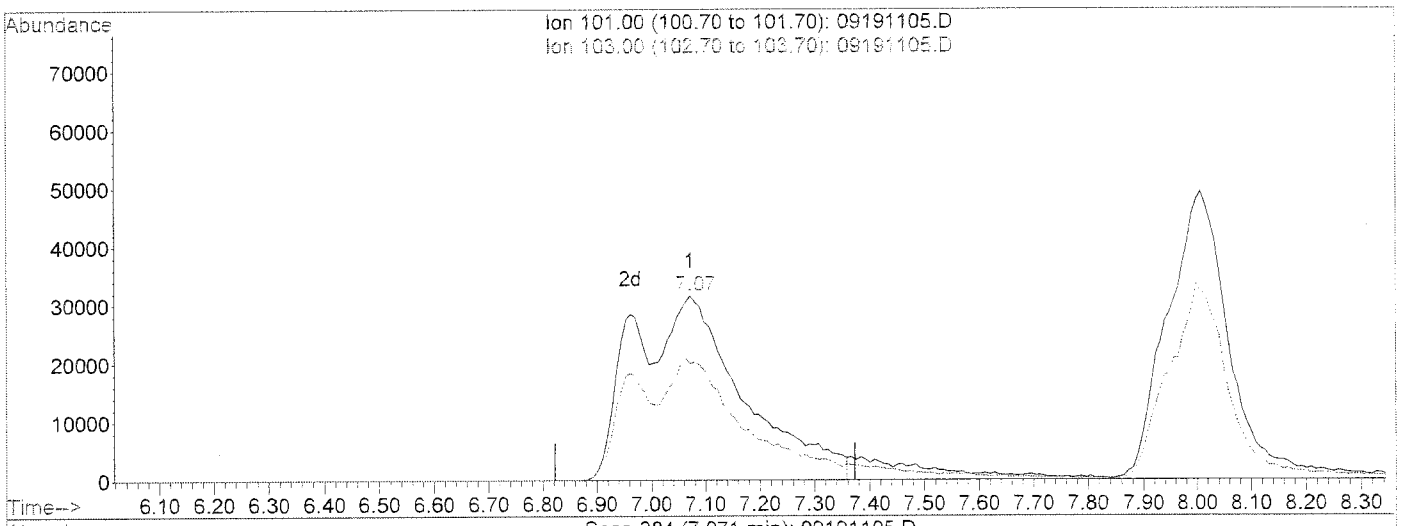
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

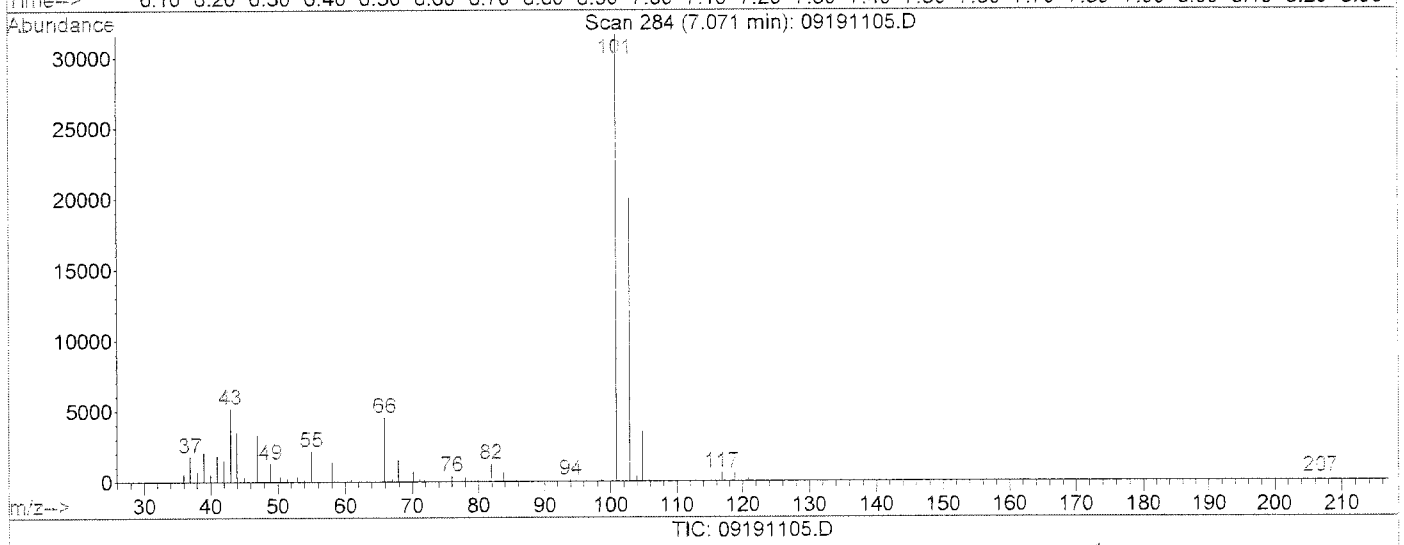


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191105.D

9/20/11

(12) Trichlorofluoromethane (T)

7.07min 26.47ug/L m

response 442313

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	63.26
0.00	0.00	0.00
0.00	0.00	0.00

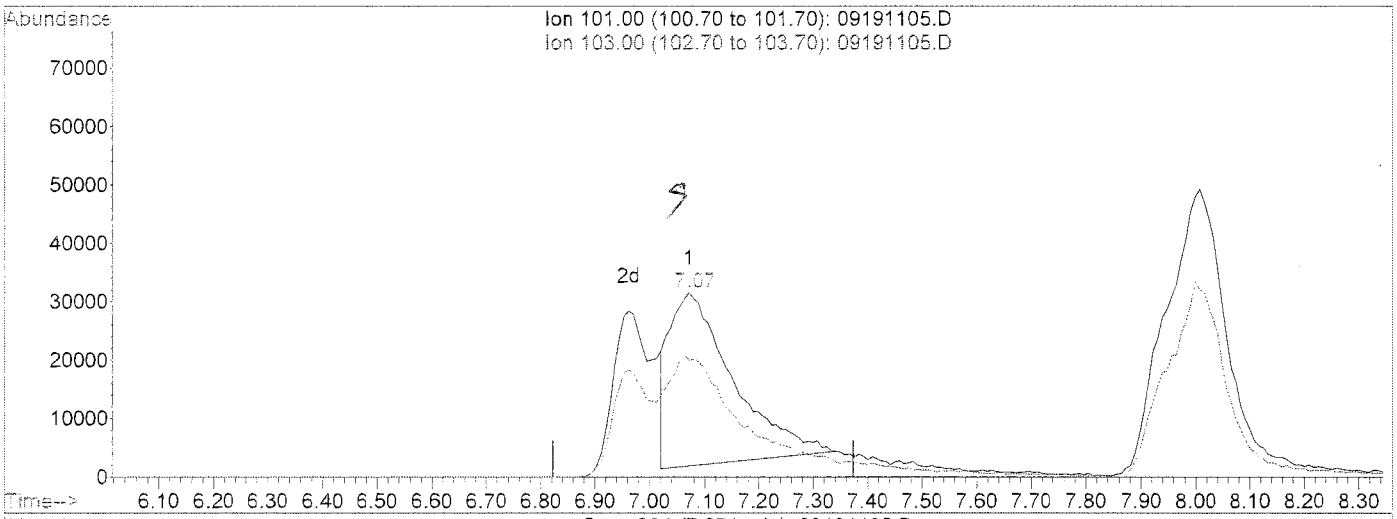
9/20/11

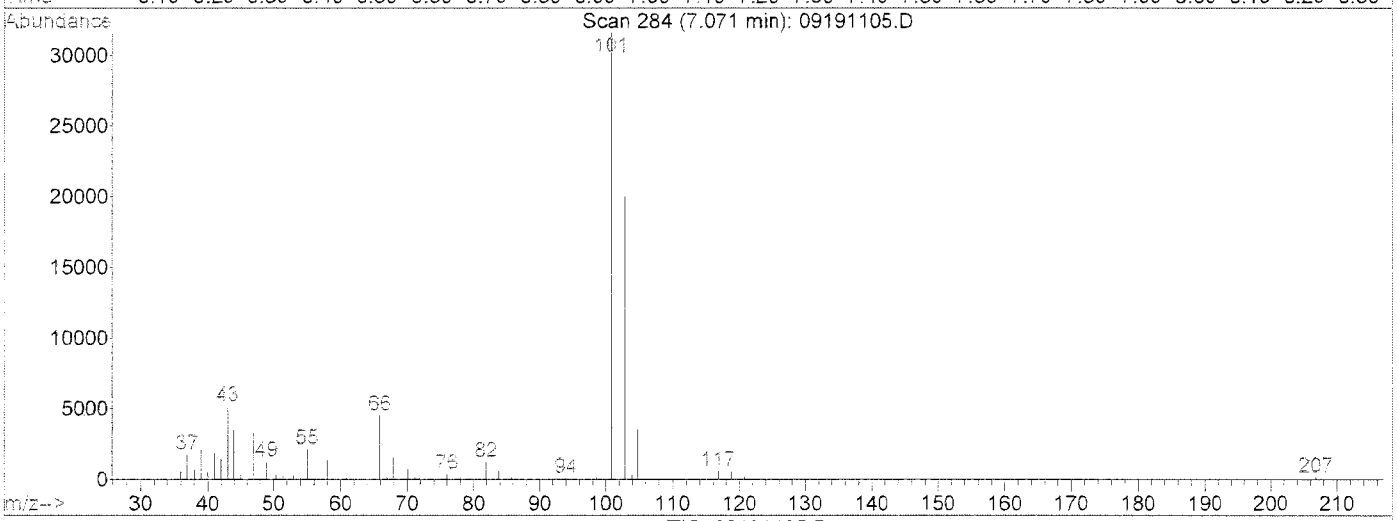
09191105.D 091711.M Tue Sep 20 10:59:13 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 10:35 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191105.D

(12) Trichlorofluoromethane (T)

7.07min 14.30ug/L

response 238900

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	63.76
0.00	0.00	0.00
0.00	0.00	0.00

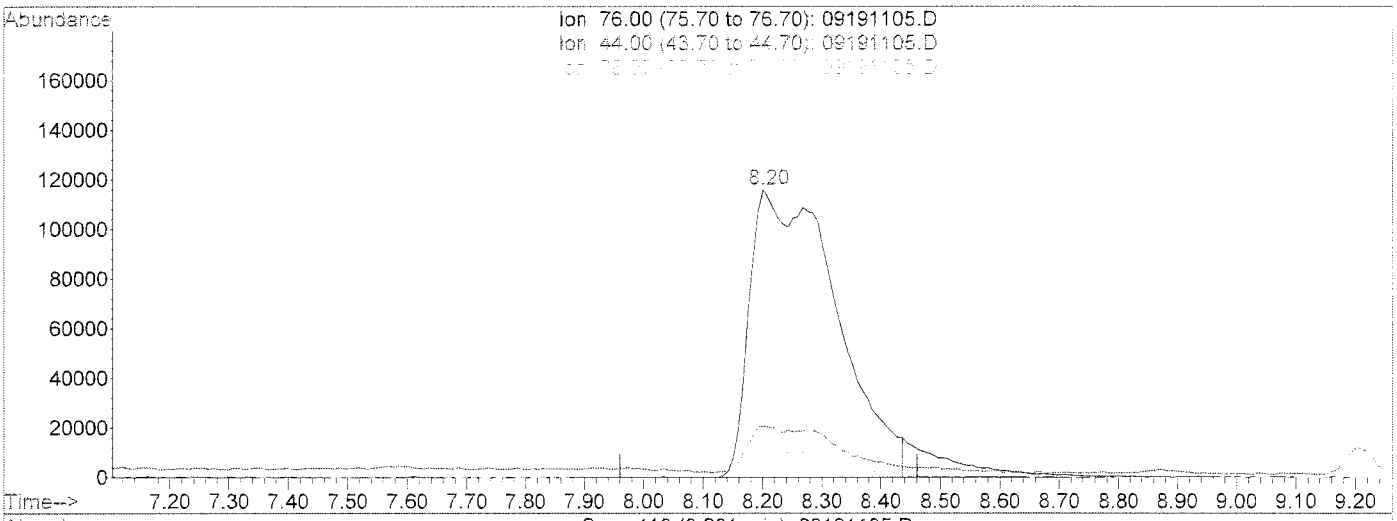
9/20/11

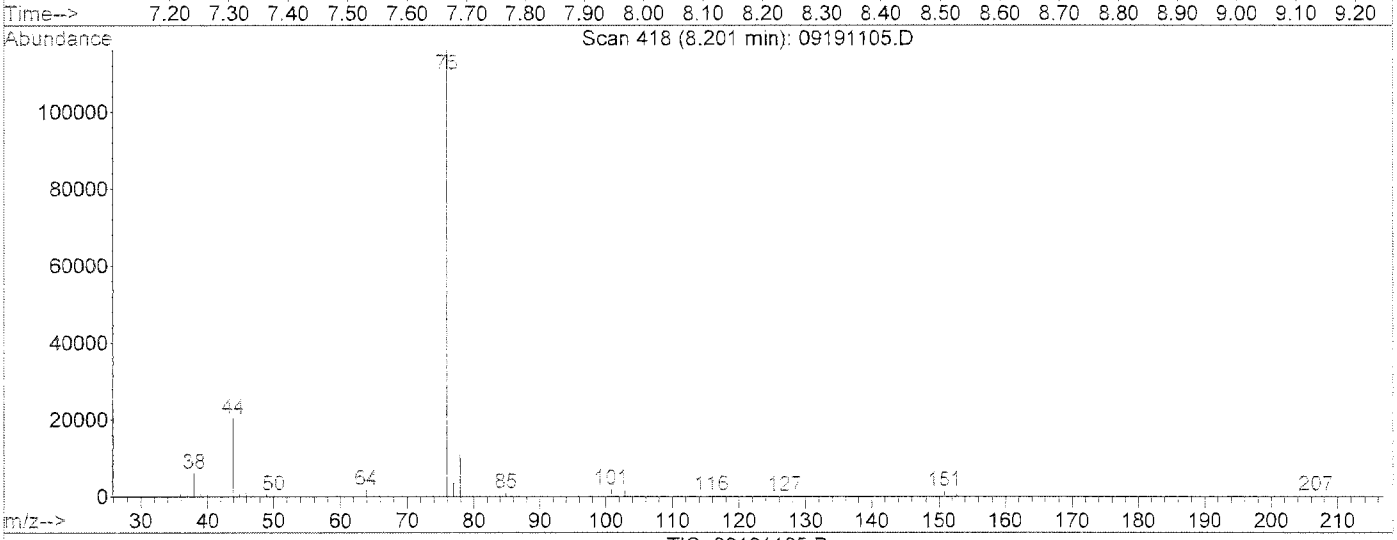
09191105.D 091711.M Tue Sep 20 10:59:01 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191105.D

(19) Carbon Disulfide (T)

8.20min 29.81ug/L m

response 1176884

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	6.26
78.00	4.00	3.34
0.00	0.00	0.00

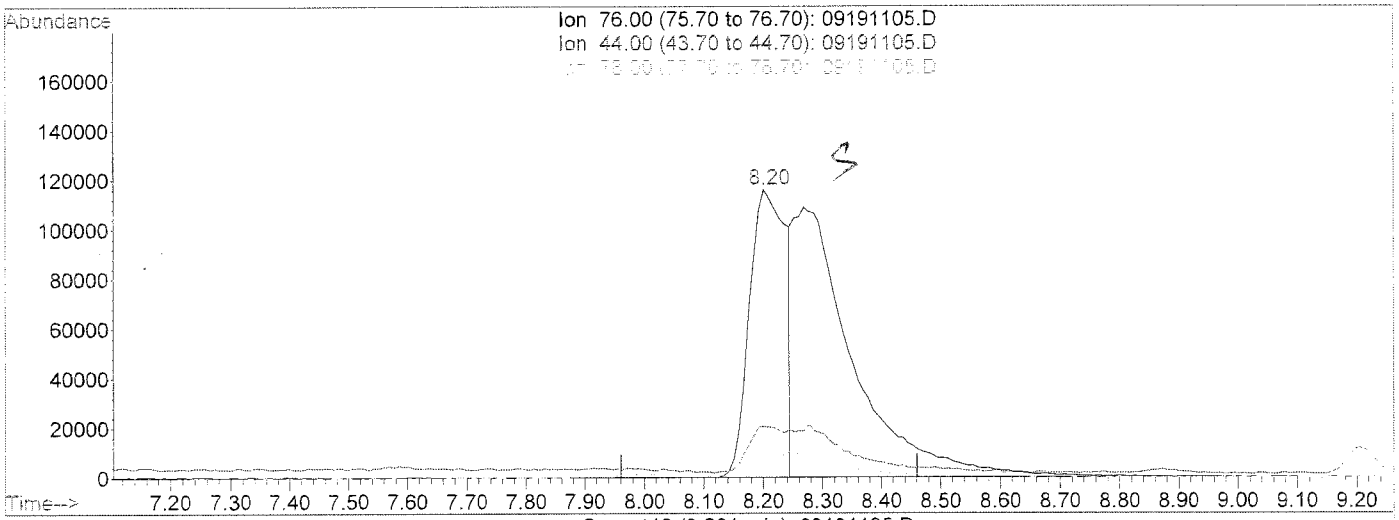
9/20/11

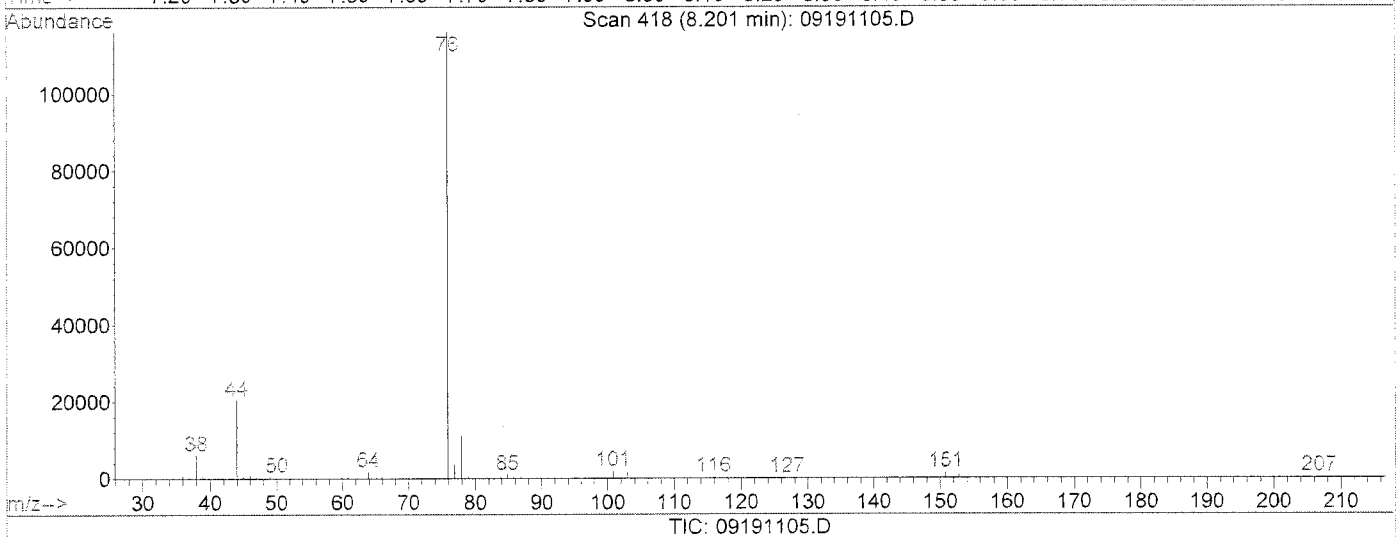
09191105.D 091711.M Tue Sep 20 10:59:31 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 10:06 am Operator: MS
Sample : 11I0627-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191105.D

(19) Carbon Disulfide (T)

8.20min 12.47ug/L

response 492553

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	14.95#
78.00	4.00	7.98#
0.00	0.00	0.00

9/20/11

09/9/2011

09191105.D 091711.M Tue Sep 20 10:59:18 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11.2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	78571	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	575501	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	939319	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	813180	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	340402	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	321499	24.27 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.08%	
50) Toluene-d8 (surr)	14.20	98	994942	25.01 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.04%	
64) 4-Bromofluorobenzene (surr	17.83	95	356555	23.72 ug/L	0.00
Spiked Amount 25.000			Recovery =	94.88%	

Target Compounds					Qvalue
2) Ethanol	6.19	45	43744	429.01 ug/L #	59
3) tert-Butanol (TBA)	7.69	59	91183	127.67 ug/L	100
5) Dichlorodifluoromethane	4.89	85	459463	24.42 ug/L	97
6) Chloromethane	5.14	50	532044	18.78 ug/L	99
7) Vinyl Chloride	5.50	62	426759	21.58 ug/L	99
8) 1,3-Butadiene	5.56	54	353927	28.46 ug/L	99
9) Bromomethane	6.01	94	298154	19.16 ug/L	99
10) Chloroethane	6.19	64	268844	21.96 ug/L	99
11) Acrolein	6.97	56	708	0.61 ug/L #	16
12) Trichlorofluoromethane	7.07	101	401713m	24.59 ug/L	
13) Acetone	7.11	43	76059	15.30 ug/L	98
14) Acrylonitrile	7.65	53	9702	2.80 ug/L #	21
15) Iodomethane	7.77	142	673003	28.19 ug/L	100
16) 1,1-Dichloroethene	7.71	96	356250	24.50 ug/L	99
17) Methylene Chloride	7.86	84	370714	19.99 ug/L	100
18) Freon 113	8.01	101	366613	26.28 ug/L	95
19) Carbon Disulfide	8.20	76	1096959m	28.41 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	455051	23.69 ug/L	100
21) MTBE	8.88	73	640834	20.07 ug/L	99
22) 1,1-Dichloroethane	9.06	63	826493	23.37 ug/L	100
23) Vinyl Acetate	9.20	43	571200	23.31 ug/L	98
24) n-Hexane	9.56	86	100172	27.24 ug/L	98
25) 2-Butanone (MEK)	9.59	72	21068	17.68 ug/L #	29
26) Diisopropylether (DIPE)	9.60	45	1554755	21.15 ug/L	94
27) cis-1,2-Dichloroethene	9.79	96	446670	21.58 ug/L	98
28) Bromochloromethane	10.00	128	194837	22.36 ug/L	97
29) Chloroform	10.06	83	739013	22.26 ug/L	100
30) 2,2-Dichloropropane	10.17	77	343672	23.98 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	815947	18.71 ug/L	98
33) Tetrahydrofuran	10.48	72	19278	17.79 ug/L	97
34) 1,2-Dichloroethane	10.89	62	446196	22.02 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	566166	24.87 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	575215	18.92 ug/L	99
38) 1,1-Dichloropropene	11.25	75	562428	24.51 ug/L	99
39) Carbon Tetrachloride	11.50	117	537517	27.24 ug/L	99
0) Benzene	11.55	78	1539773	23.62 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

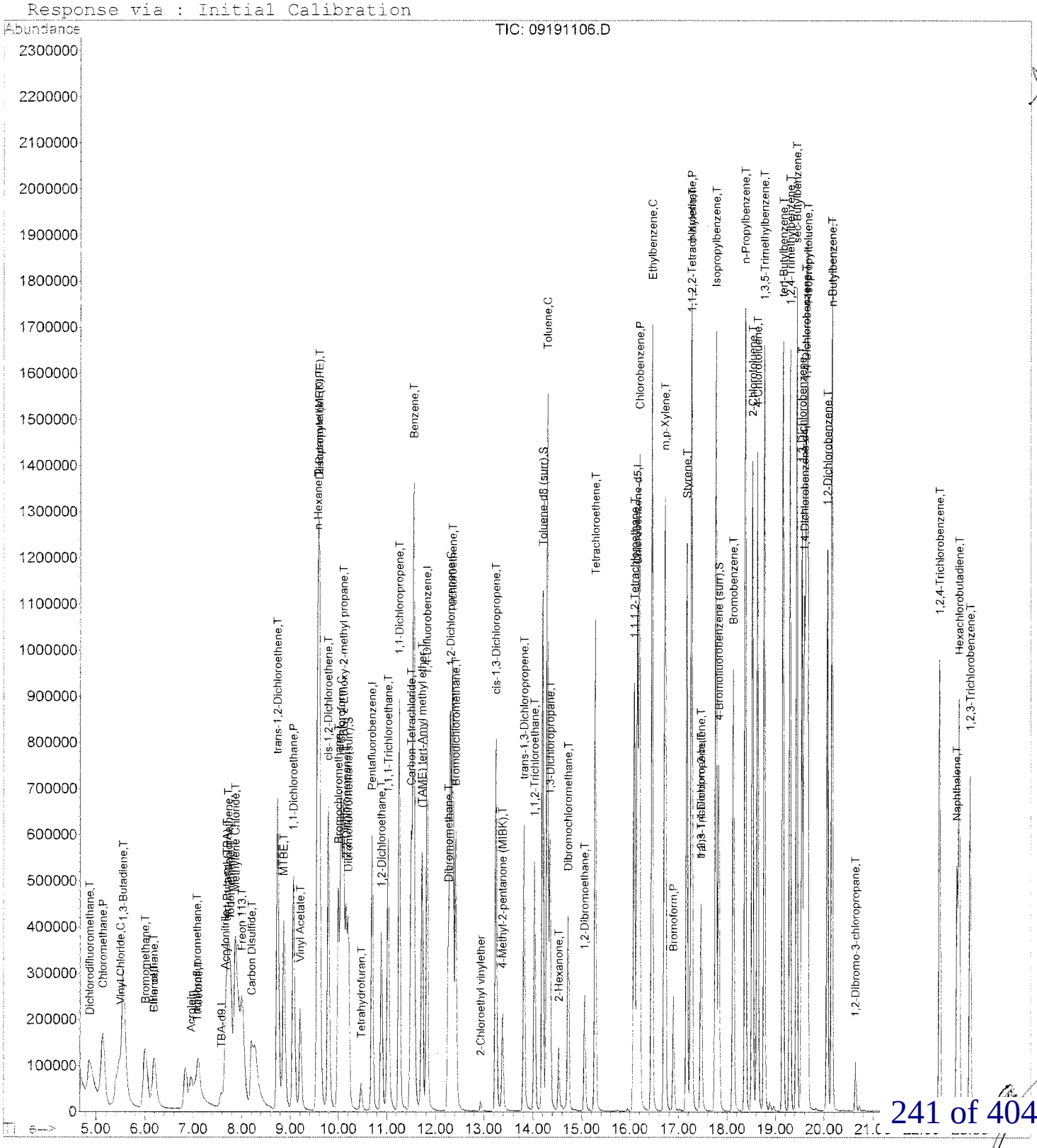
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	198586	21.87 ug/L	99
42)	1,2-Dichloropropane	12.31	63	409887	22.55 ug/L	98
43)	Trichloroethene	12.36	95	433891	24.25 ug/L	98
44)	Bromodichloromethane	12.42	83	495775	22.96 ug/L	100
45)	2-Chloroethyl vinylether	12.94	63	11363	1.93 ug/L	95
46)	cis-1,3-Dichloropropene	13.25	75	573658	24.55 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	221993	21.01 ug/L	100
48)	trans-1,3-Dichloropropene	13.81	75	428028	23.68 ug/L	100
49)	1,1,2-Trichloroethane	14.03	97	234529	21.33 ug/L	99
51)	Toluene	14.29	92	876470	23.43 ug/L	100
53)	1,3-Dichloropropane	14.35	76	399037	21.52 ug/L	100
54)	2-Hexanone	14.53	43	144660	19.84 ug/L	99
55)	Dibromochloromethane	14.73	129	308894	24.42 ug/L	99
56)	1,2-Dibromoethane	15.06	107	243377	22.30 ug/L	98
57)	Tetrachloroethene	15.28	164	325956	25.77 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	349820	24.66 ug/L	99
59)	Chlorobenzene	16.20	112	1032683	23.96 ug/L	99
60)	Ethylbenzene	16.45	91	1631660	24.01 ug/L	99
61)	m,p-Xylene	16.71	106	620206	22.36 ug/L	98
62)	Styrene	17.17	104	798599	20.67 ug/L	99
63)	o-Xylene	17.27	106	578420	22.42 ug/L	100
66)	Bromoform	16.89	173	156309	21.88 ug/L	98
67)	1,1,2,2-Tetrachloroethane	17.25	83	220514	21.31 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	61576	21.60 ug/L	99
69)	trans-1,4-Dichloro-2-buten	17.47	53	64070	24.74 ug/L	96
70)	Isopropylbenzene	17.77	105	1501053	26.41 ug/L	100
71)	Bromobenzene	18.13	156	360951	23.95 ug/L	98
72)	n-Propylbenzene	18.37	91	1856379	25.57 ug/L	99
73)	2-Chlorotoluene	18.53	91	1069490	23.58 ug/L	99
74)	4-Chlorotoluene	18.63	91	1092857	24.40 ug/L	99
75)	1,3,5-Trimethylbenzene	18.77	105	1220786	24.66 ug/L	99
76)	tert-Butylbenzene	19.16	119	1059754	25.75 ug/L	98
77)	1,2,4-Trimethylbenzene	19.30	105	1148962	22.71 ug/L	99
78)	sec-Butylbenzene	19.44	105	1579896	24.67 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	663398	23.74 ug/L	100
80)	1,4-Dichlorobenzene	19.63	146	673171	24.35 ug/L	99
81)	4-Isopropyltoluene	19.66	119	1319880	25.41 ug/L	100
82)	1,2-Dichlorobenzene	20.07	146	587520	24.21 ug/L	99
83)	n-Butylbenzene	20.16	91	1255193	25.03 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	29580	22.83 ug/L	96
85)	1,2,4-Trichlorobenzene	22.37	180	420953	26.06 ug/L	99
86)	Naphthalene	22.72	128	553801	26.28 ug/L	99
87)	Hexachlorobutadiene	22.77	225	263299	26.61 ug/L	100
88)	1,2,3-Trichlorobenzene	23.00	180	330949	25.96 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: 091711.RES

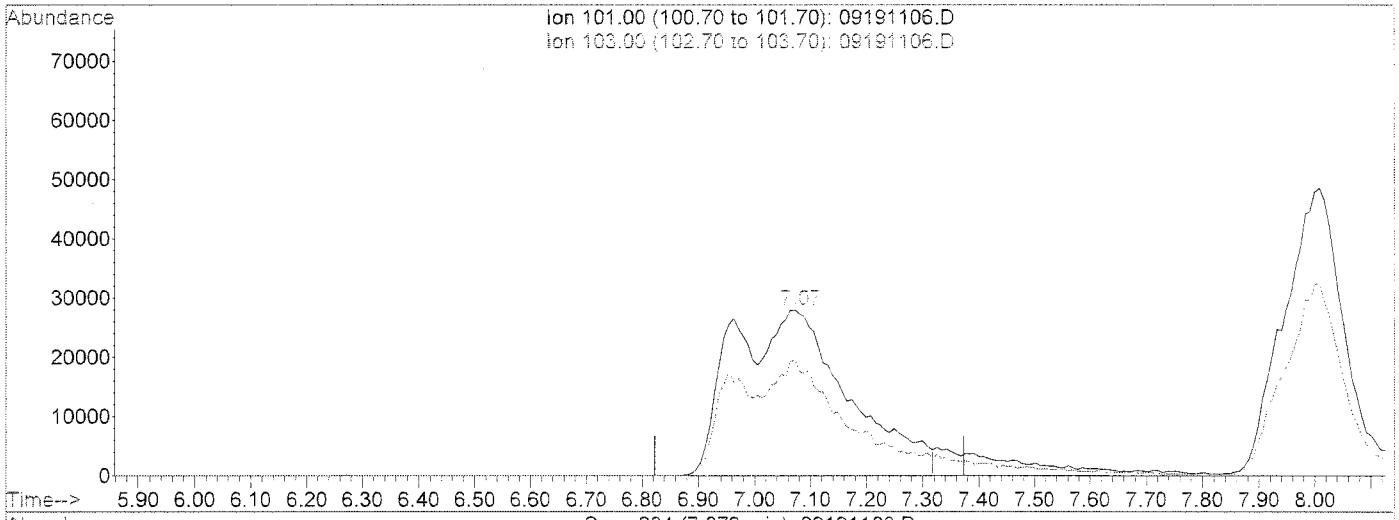
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

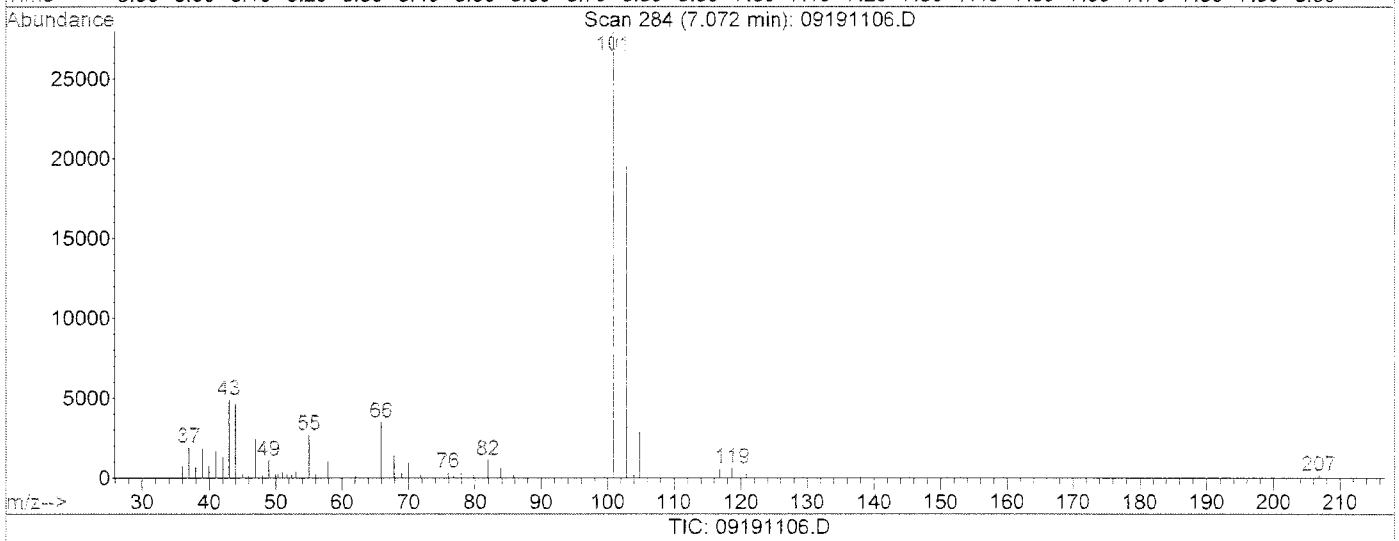


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191106.D

(12) Trichlorofluoromethane (T)

7.07min 24.59ug/L m

response 401713

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	69.70
0.00	0.00	0.00
0.00	0.00	0.00

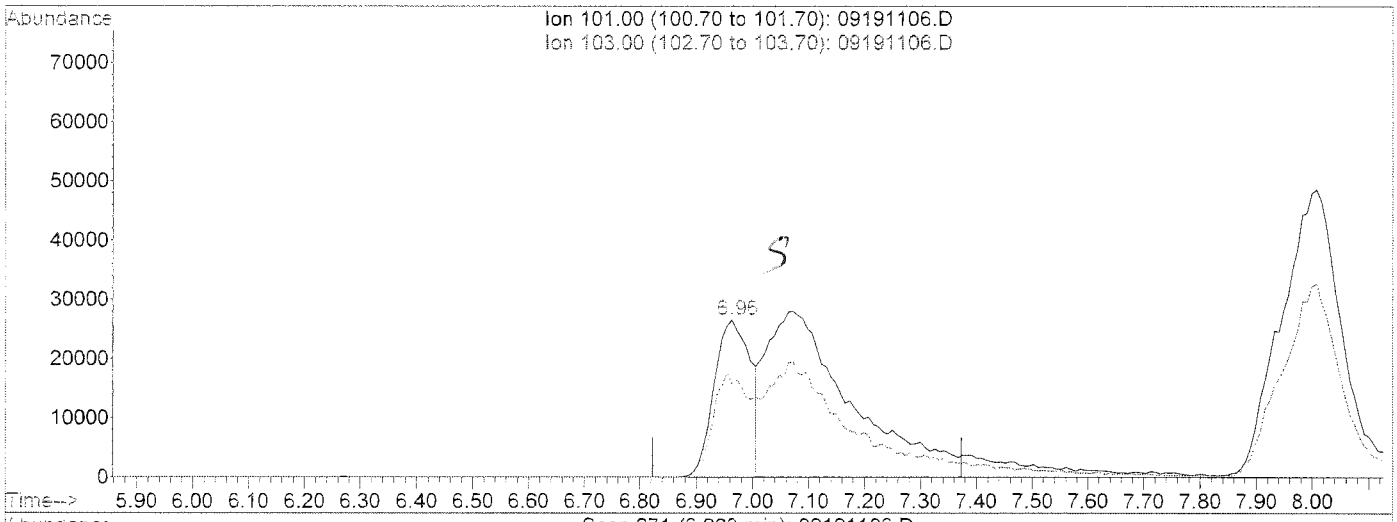
9/20/11

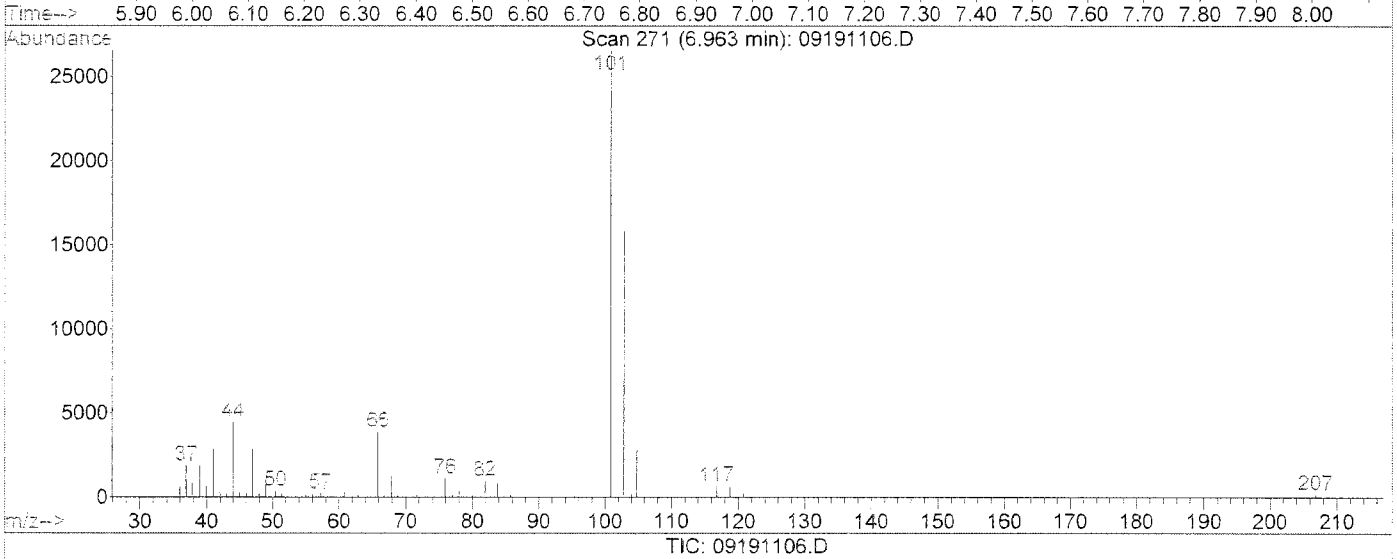
09191106.D 091711.M Tue Sep 20 10:59:50 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 12:37 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191106.D

(12) Trichlorofluoromethane (T)

6.96min 7.26ug/L

response 118568

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	59.50
0.00	0.00	0.00
0.00	0.00	0.00

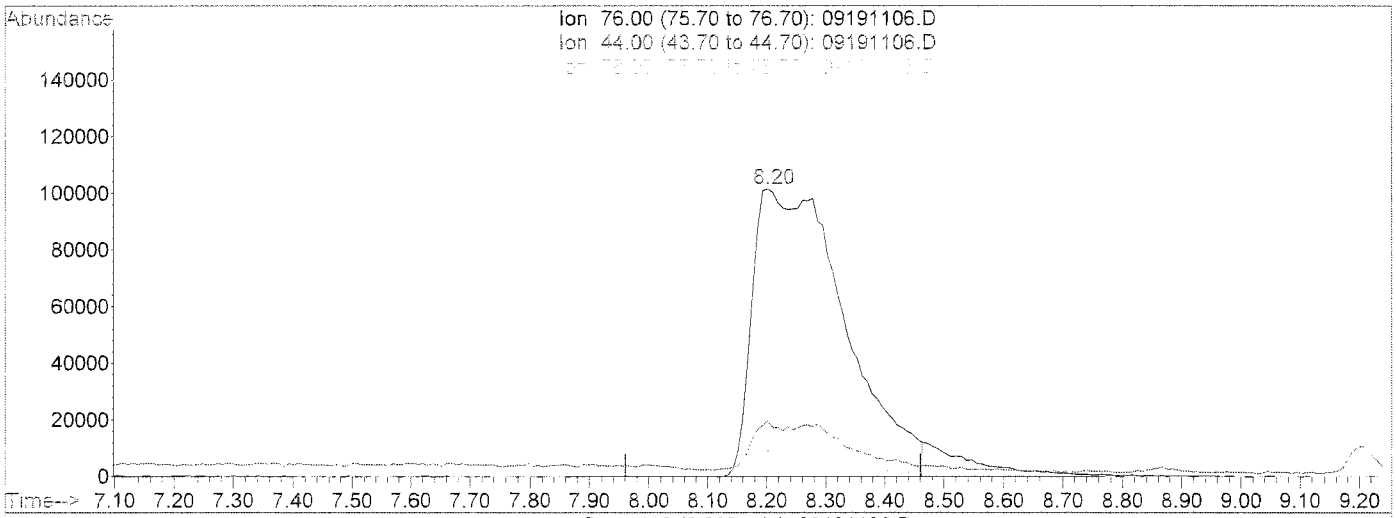
9/20/11

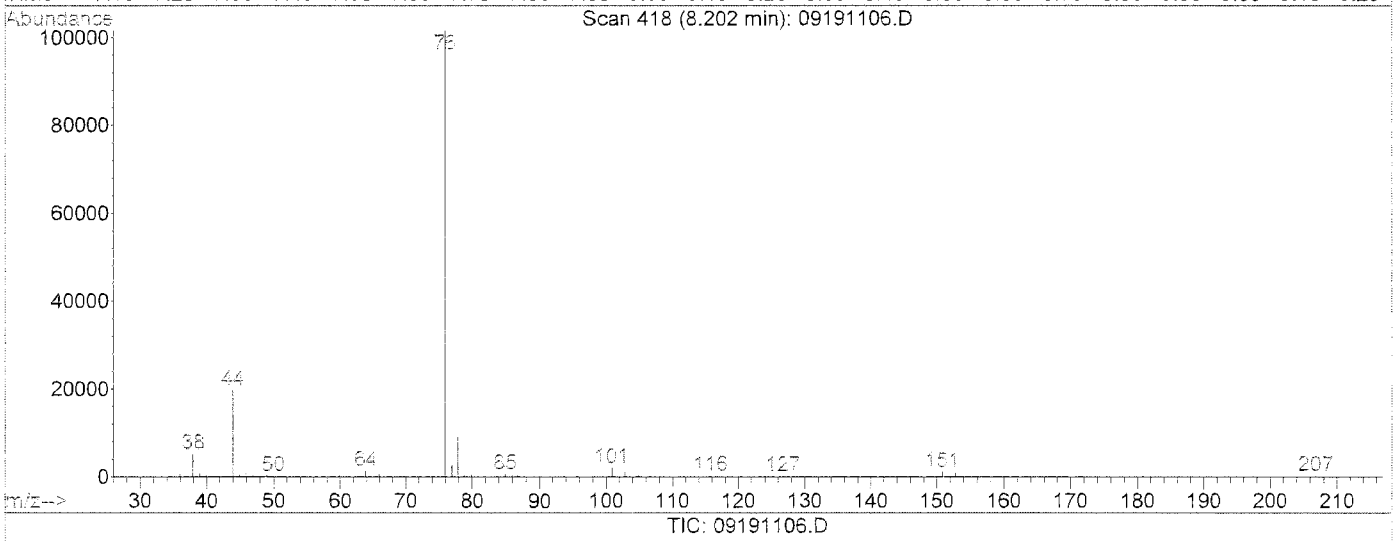
09191106.D 091711.M Tue Sep 20 10:59:42 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191106.D

(19) Carbon Disulfide (T)

8.20min 28.41ug/L m

response 1096959

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	5.45#
78.00	4.00	3.69
0.00	0.00	0.00

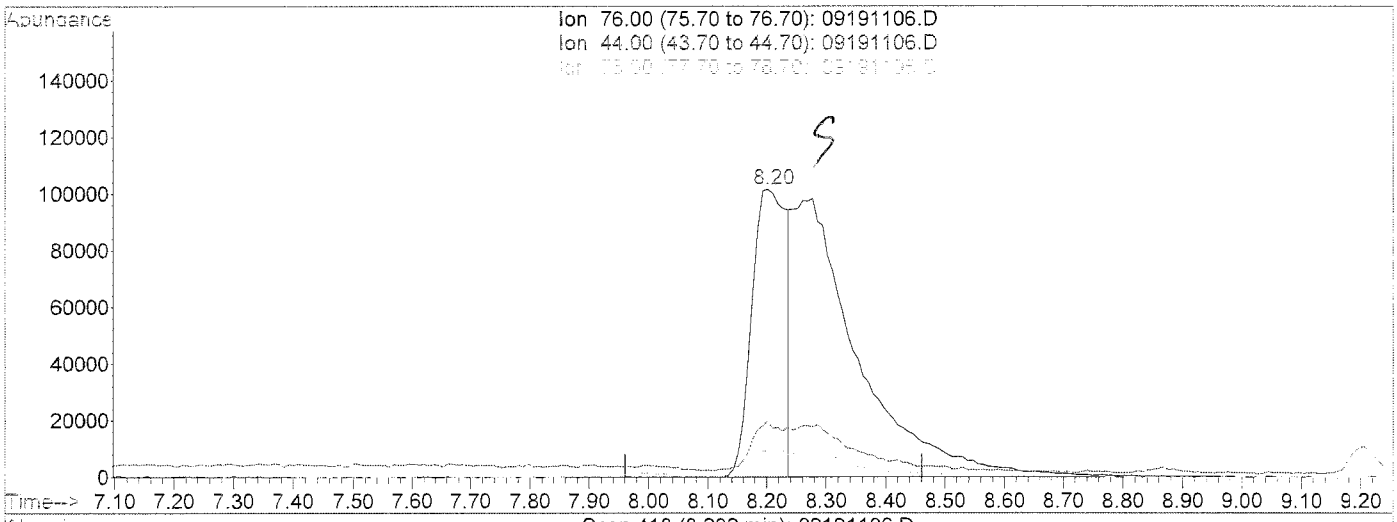
9/20/11

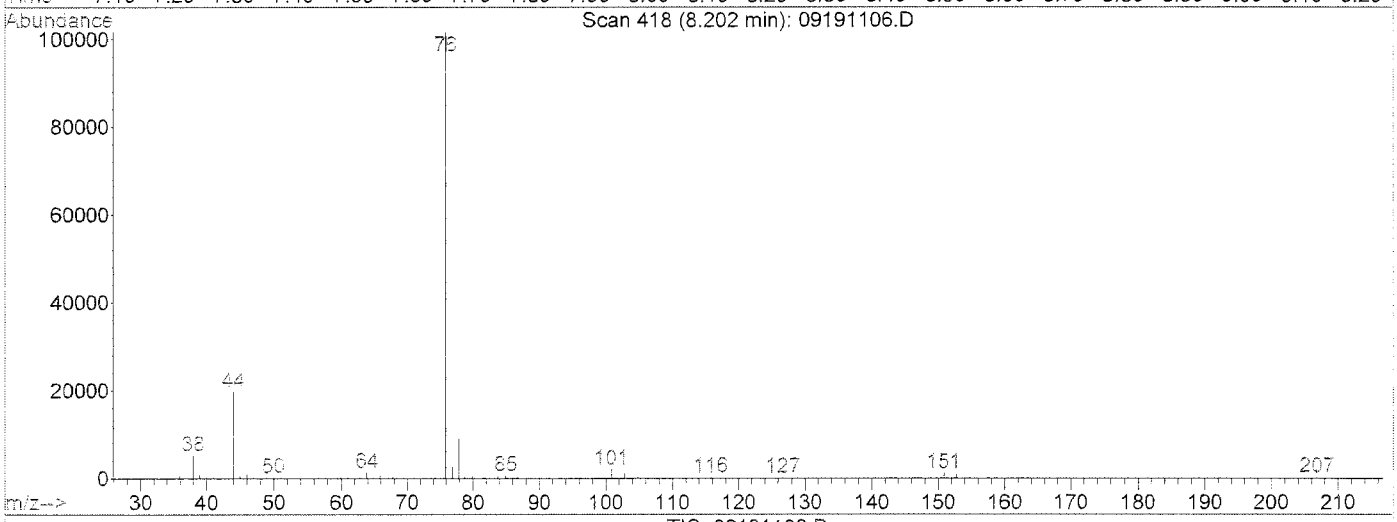
09191106.D 091711.M Tue Sep 20 11:00:05 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 10:40 am Operator: MS
Sample : 11I0627-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 10:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191106.D

(19) Carbon Disulfide (T)

8.20min 10.65ug/L

response 411284

Ion	Exp%	Act%
76.00	100	100
44.00	7.50	14.53#
78.00	4.00	9.83#
0.00	0.00	0.00

9/20/11

09191106.D 091711.M Tue Sep 20 10:59:55 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191107.D Vial: 7
Acq On : 19 Sep 2011 11:12 am Operator: MS
Sample : 11I0627-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

R2, CS_2 @ Ultra Low Log. 9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	96279	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	596049	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	973113	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	825461	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	345082	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	333784	24.33 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.32%	
50) Toluene-d8 (surr)	14.20	98	1011745	24.55 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.20%	
64) 4-Bromofluorobenzene (surr	17.83	95	368783	24.17 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.68%	

Target Compounds					Qvalue
2) Ethanol	6.19	45	35230	271.48 ug/L	97
3) tert-Butanol (TBA)	7.70	59	106360	121.53 ug/L	99
5) Dichlorodifluoromethane	4.90	85	427609	21.95 ug/L	100
6) Chloromethane	5.15	50	527674	17.99 ug/L	100
7) Vinyl Chloride	5.50	62	408693	19.95 ug/L	99
8) 1,3-Butadiene	5.59	54	377238	29.29 ug/L	99
9) Bromomethane	6.03	94	292231	18.14 ug/L	99
10) Chloroethane	6.21	64	267550	21.10 ug/L	99
11) Acrolein	6.96	56	313	0.26 ug/L #	16
12) Trichlorofluoromethane	7.09	101	409550m	24.20 ug/L	
13) Acetone	7.12	43	86682	17.24 ug/L	100
14) Acrylonitrile	7.68	53	7283	2.03 ug/L #	29
15) Iodomethane	7.78	142	677132	27.39 ug/L	100
16) 1,1-Dichloroethene	7.72	96	357503	23.74 ug/L	97
17) Methylene Chloride	7.88	84	388281	20.22 ug/L	99
18) Freon 113	8.01	101	364047	25.20 ug/L	96
19) Carbon Disulfide	8.22	76	833559	20.84 ug/L #	77
20) trans-1,2-Dichloroethene	8.76	96	436852	21.96 ug/L	99
21) MTBE	8.88	73	700154	21.17 ug/L	99
22) 1,1-Dichloroethane	9.07	63	820144	22.39 ug/L	100
23) Vinyl Acetate	9.21	43	633205	24.95 ug/L	99
24) n-Hexane	9.56	86	96471	25.33 ug/L	97
25) 2-Butanone (MEK)	9.61	72	23139	18.75 ug/L #	67
26) Diisopropylether (DIPE)	9.61	45	1592359	20.92 ug/L	96
27) cis-1,2-Dichloroethene	9.80	96	438302	20.44 ug/L	99
28) Bromochloromethane	10.01	128	202191	22.41 ug/L	96
29) Chloroform	10.06	83	732823	21.31 ug/L	99
30) 2,2-Dichloropropane	10.17	77	360348	24.28 ug/L	98
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	911447	20.18 ug/L	99
33) Tetrahydrofuran	10.48	72	21864	19.62 ug/L	98
34) 1,2-Dichloroethane	10.90	62	459791	21.91 ug/L	100
35) 1,1,1-Trichloroethane	11.03	97	556572	23.60 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	656640	20.85 ug/L	100
38) 1,1-Dichloropropene	11.26	75	544964	22.92 ug/L	99
39) Carbon Tetrachloride	11.50	117	510573	24.98 ug/L	99
0) Benzene	11.55	78	1508278	22.33 ug/L	100

(#) = qualifier out of range (m) = manual integration
09191107.D 091711.M Tue Sep 20 11:01:09 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191107.D Vial: 7
Acq On : 19 Sep 2011 11:12 am Operator: MS
Sample : 11I0627-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

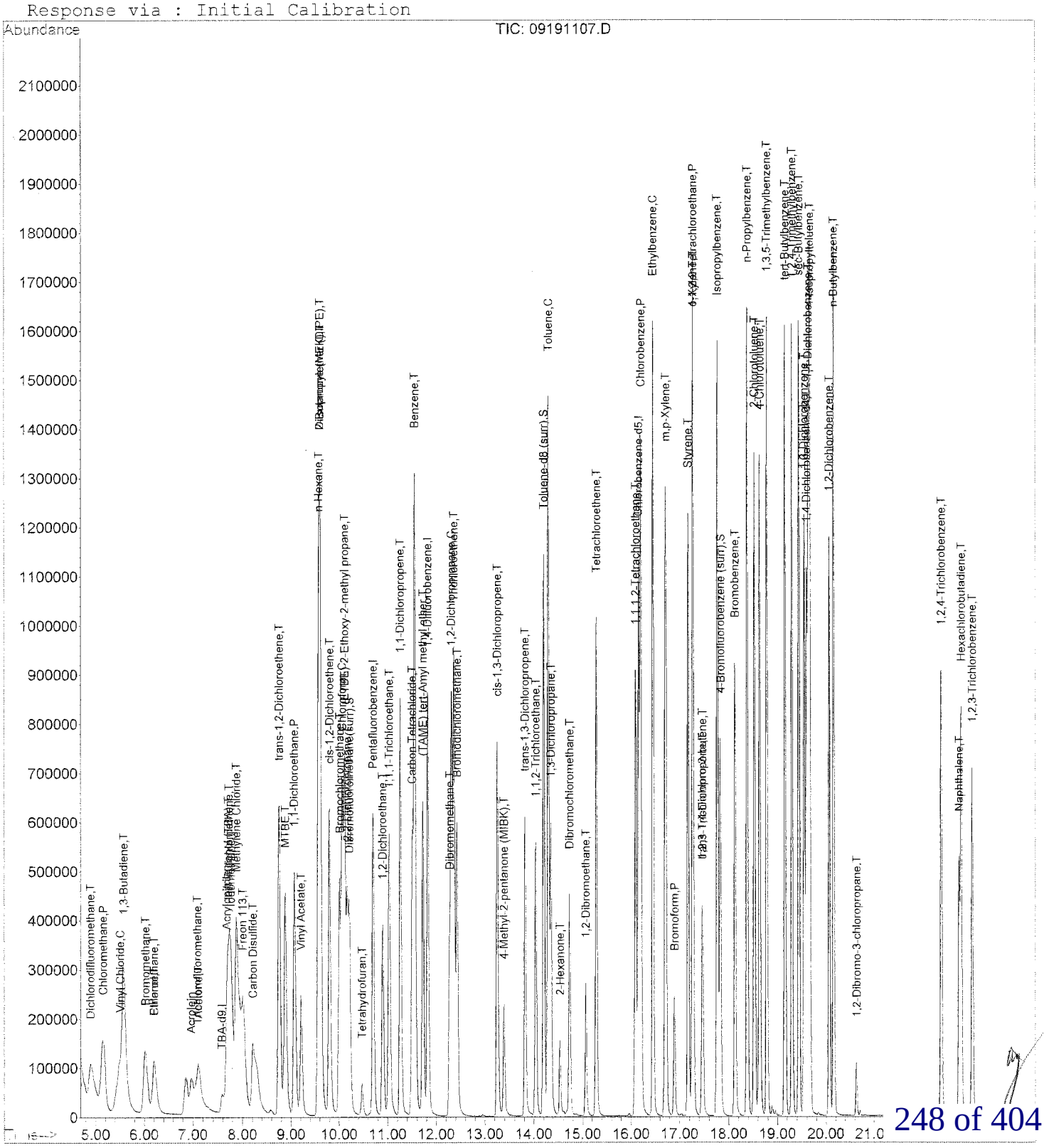
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	201760	21.45 ug/L	97
42)	1,2-Dichloropropane	12.32	63	409221	21.73 ug/L	98
43)	Trichloroethene	12.36	95	417060	22.50 ug/L	98
44)	Bromodichloromethane	12.43	83	494115	22.09 ug/L	100
46)	cis-1,3-Dichloropropene	13.26	75	555594	22.95 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	241935	22.10 ug/L	100
48)	trans-1,3-Dichloropropene	13.81	75	429334	22.93 ug/L	99
49)	1,1,2-Trichloroethane	14.04	97	239935	21.06 ug/L	99
51)	Toluene	14.30	92	843612	21.76 ug/L	99
53)	1,3-Dichloropropane	14.35	76	406674	21.61 ug/L	100
54)	2-Hexanone	14.54	43	155490	21.01 ug/L	99
55)	Dibromochloromethane	14.73	129	313764	24.44 ug/L	99
56)	1,2-Dibromoethane	15.07	107	254452	22.97 ug/L	100
57)	Tetrachloroethene	15.29	164	312685	24.36 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	341134	23.69 ug/L	99
59)	Chlorobenzene	16.20	112	1008369	23.05 ug/L	99
60)	Ethylbenzene	16.45	91	1587682	23.02 ug/L	100
61)	m,p-Xylene	16.72	106	604275	21.46 ug/L	98
62)	Styrene	17.17	104	804196	20.51 ug/L	100
63)	o-Xylene	17.27	106	561509	21.44 ug/L	99
66)	Bromoform	16.90	173	155956	21.54 ug/L	98
67)	1,1,2,2-Tetrachloroethane	17.26	83	228797	21.81 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	64586	22.35 ug/L	99
69)	trans-1,4-Dichloro-2-buten	17.47	53	56790	21.63 ug/L	99
70)	Isopropylbenzene	17.76	105	1442252	25.03 ug/L	100
71)	Bromobenzene	18.14	156	353153	23.11 ug/L	98
72)	n-Propylbenzene	18.38	91	1756333	23.86 ug/L	98
73)	2-Chlorotoluene	18.52	91	1021207	22.21 ug/L	99
74)	4-Chlorotoluene	18.63	91	1049186	23.11 ug/L	98
75)	1,3,5-Trimethylbenzene	18.78	105	1165538	23.23 ug/L	99
76)	tert-Butylbenzene	19.15	119	1002245	24.02 ug/L	98
77)	1,2,4-Trimethylbenzene	19.30	105	1104338	21.53 ug/L	99
78)	sec-Butylbenzene	19.43	105	1494195	23.01 ug/L	99
79)	1,3-Dichlorobenzene	19.55	146	639733	22.58 ug/L	99
80)	1,4-Dichlorobenzene	19.63	146	639225	22.81 ug/L	99
81)	4-Isopropyltoluene	19.66	119	1248253	23.70 ug/L	100
82)	1,2-Dichlorobenzene	20.07	146	574050	23.34 ug/L	100
83)	n-Butylbenzene	20.16	91	1188738	23.38 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	30232	23.02 ug/L	97
85)	1,2,4-Trichlorobenzene	22.37	180	403310	24.63 ug/L	99
86)	Naphthalene	22.73	128	547479	25.63 ug/L	99
87)	Hexachlorobutadiene	22.77	225	239635	23.89 ug/L	100
88)	1,2,3-Trichlorobenzene	23.00	180	318544	24.65 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191107.D Vial: 7
Acq On : 19 Sep 2011 11:12 am Operator: MS
Sample : 11I0627-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: 091711.RES

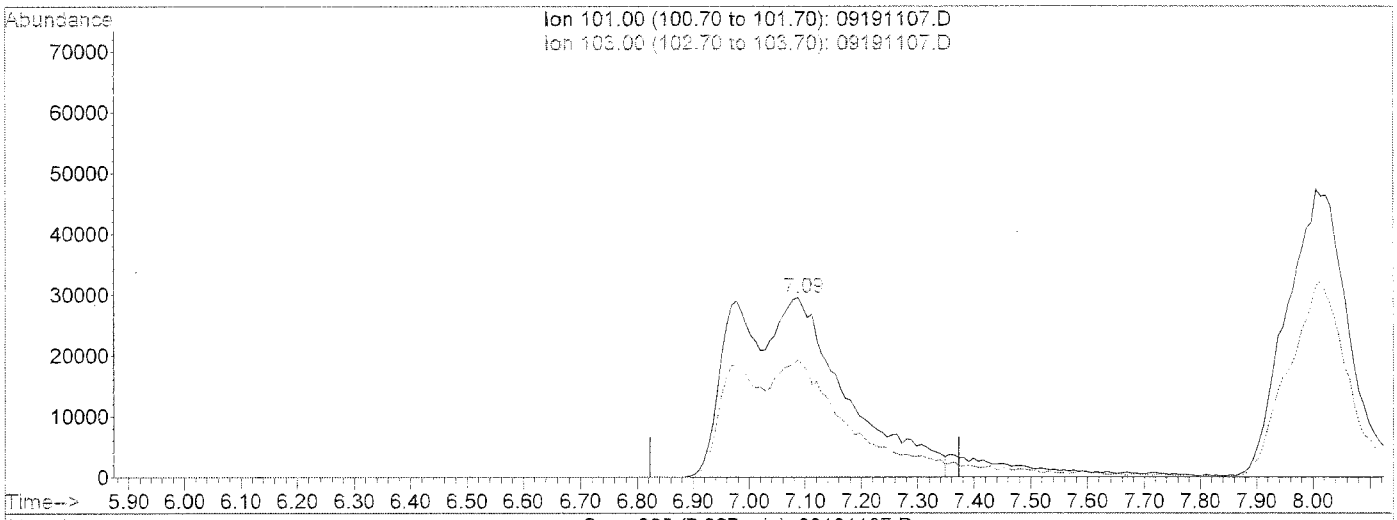
Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

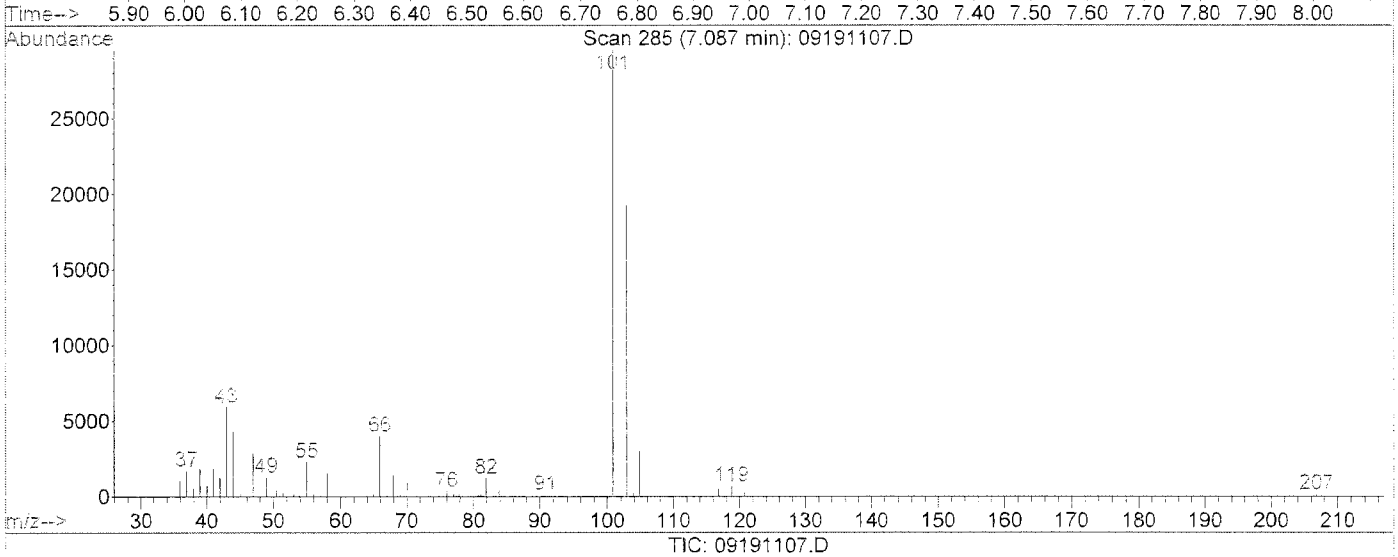


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191107.D Vial: 7
Acq On : 19 Sep 2011 11:12 am Operator: MS
Sample : 11I0627-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 11:00 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191107.D

(12) Trichlorofluoromethane (T)

7.09min 24.20ug/L m

response 409550

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	65.21
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/20/11

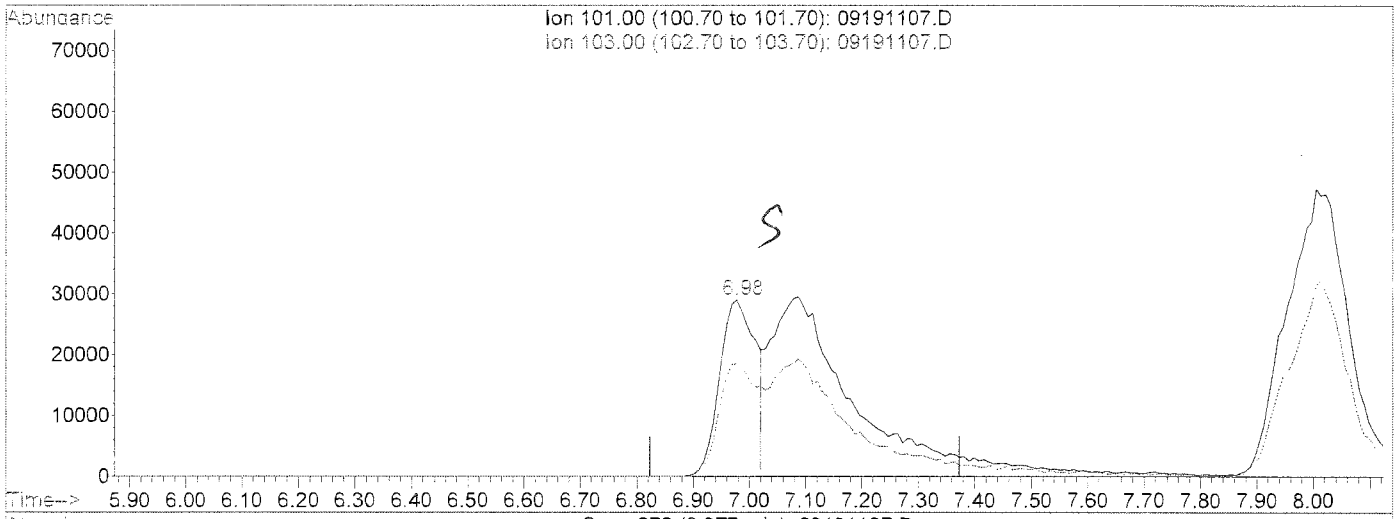
09/9/11

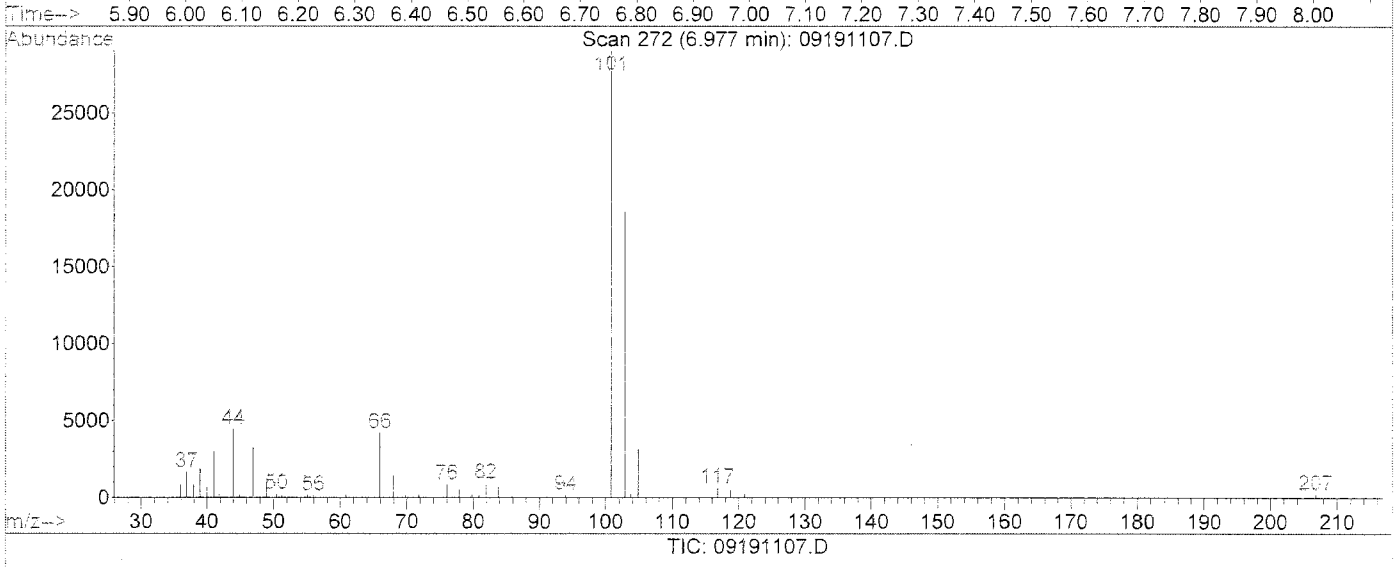
09191107.D 091711.M Tue Sep 20 11:00:42 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191107.D Vial: 7
Acq On : 19 Sep 2011 11:12 am Operator: MS
Sample : 11I0627-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 12:38 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Multiple Level Calibration





TIC: 09191107.D

(12) Trichlorofluoromethane (T)

6.98min 7.60ug/L

response 128599

Ion	Exp%	Act%
101.00	100	100
103.00	64.00	63.95
0.00	0.00	0.00
0.00	0.00	0.00

9/20/11

09191107.D 091711.M Tue Sep 20 11:00:34 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191109.D Vial: 8
Acq On : 19 Sep 2011 12:14 pm Operator: MS
Sample : 11I0627-BLK1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 12:38 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	95353	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	593626	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	968459	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	813590	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	349392	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	331630	24.27 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.08%	
50) Toluene-d8 (surr)	14.20	98	1021849	24.91 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.64%	
64) 4-Bromofluorobenzene (surr	17.83	95	376245	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.08%	

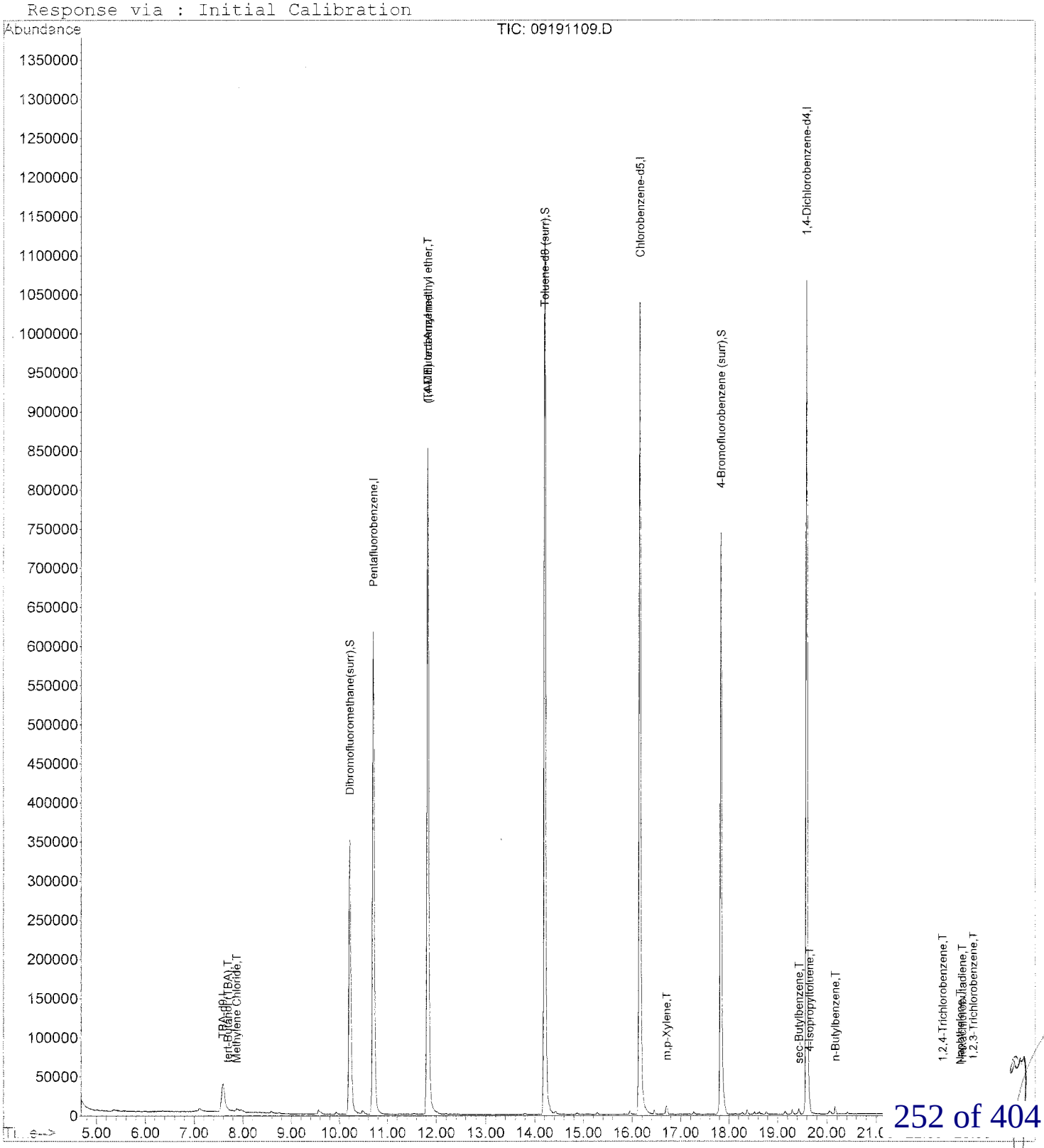
Target Compounds					Qvalue
2) Ethanol	6.10	45	302	Below Cal	95 <RL
3) tert-Butanol (TBA)	7.70	59	118	0.14 ug/L #	78
13) Acetone	7.12	43	14542	Below Cal	99
17) Methylene Chloride	7.87	84	1839	0.10 ug/L #	46
33) Tetrahydrofuran	10.48	72	1451	Below Cal	97
36) (TAME) tert-Amyl methyl et	11.83	73	10486	0.33 ug/L #	32
61) m,p-Xylene	16.71	106	5125	0.18 ug/L	94
78) sec-Butylbenzene	19.44	105	6467	0.10 ug/L	98
81) 4-Isopropyltoluene	19.66	119	5588	0.10 ug/L	97
83) n-Butylbenzene	20.16	91	6618	0.13 ug/L	99
85) 1,2,4-Trichlorobenzene	22.38	180	3798	0.23 ug/L	95
86) Naphthalene	22.72	128	5057	0.23 ug/L	98
87) Hexachlorobutadiene	22.78	225	1987	0.20 ug/L #	83
88) 1,2,3-Trichlorobenzene	23.00	180	4221	0.32 ug/L	95

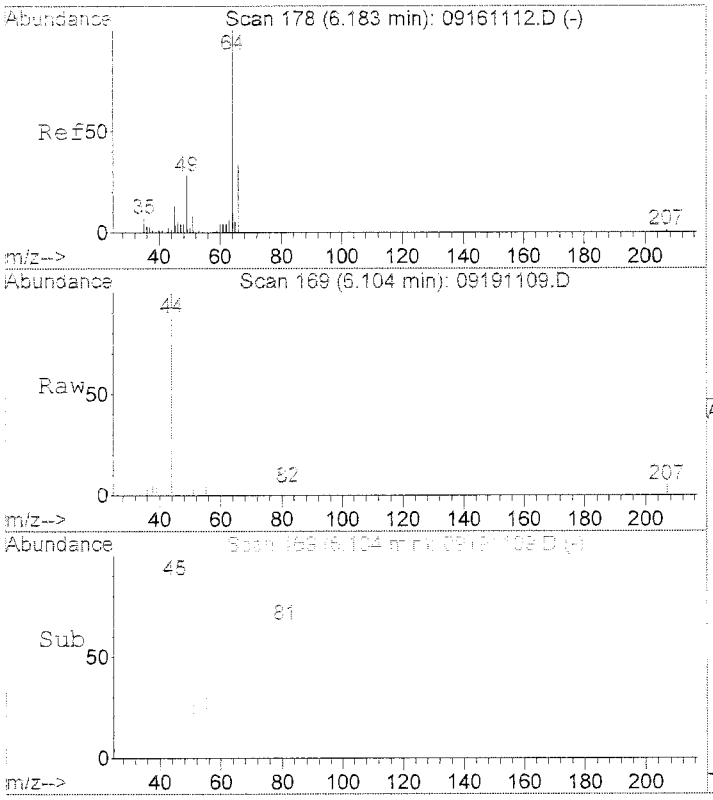
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191109.D Vial: 8
Acq On : 19 Sep 2011 12:14 pm Operator: MS
Sample : 11I0627-BLK1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 12:38 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

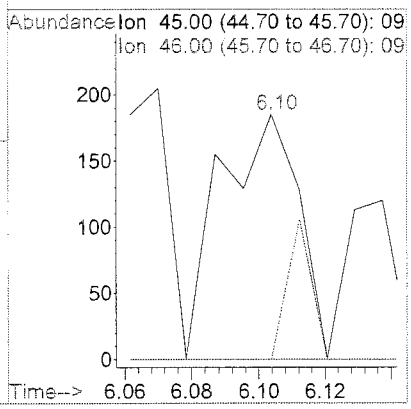


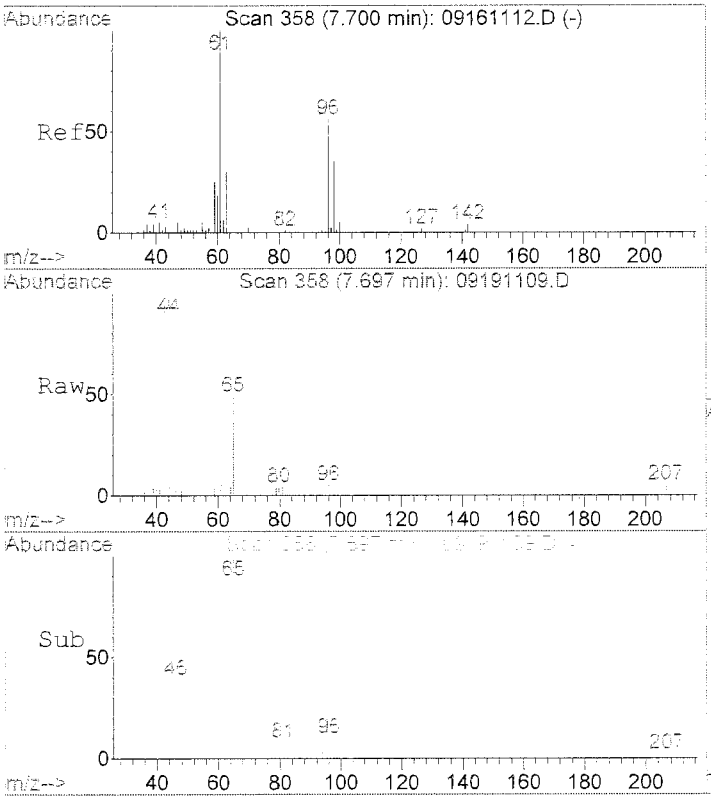


#2
Ethanol
Concen: Below Cal
RT: 6.10 min Scan# 169
Delta R.T. -0.08 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 45 Resp: 302

Ion	Ratio	Lower	Upper
45	100		
46	17.9	12.7	19.1

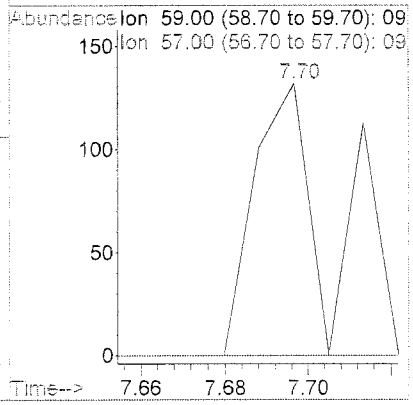


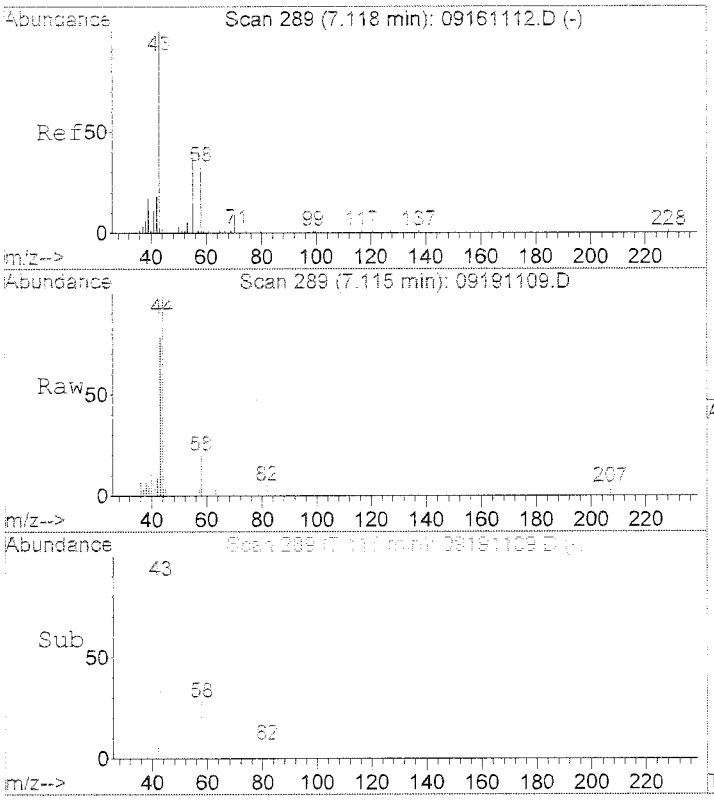


#3
tert-Butanol (TBA)
Concen: 0.14 ug/L
RT: 7.70 min Scan# 358
Delta R.T. 0.01 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 59 Resp: 118

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.2	9.2#

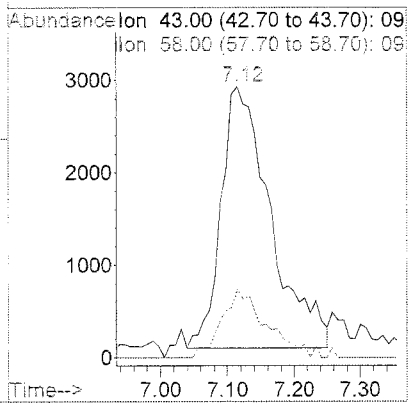


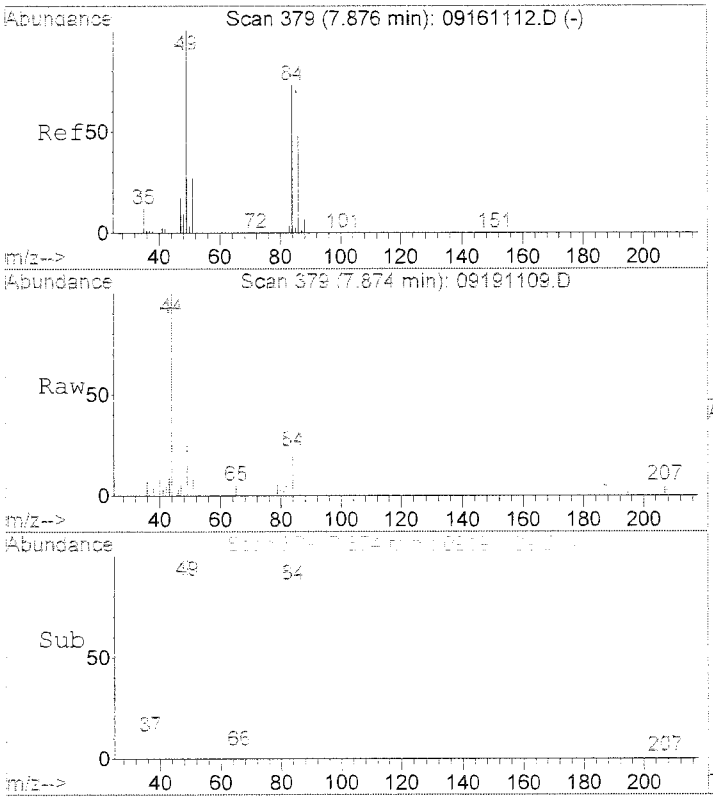


#13
Acetone
Concen: Below Cal
RT: 7.12 min Scan# 289
Delta R.T. 0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 43 Resp: 14542

Ion	Ratio	Lower	Upper
43	100		
58	23.7	19.3	28.9

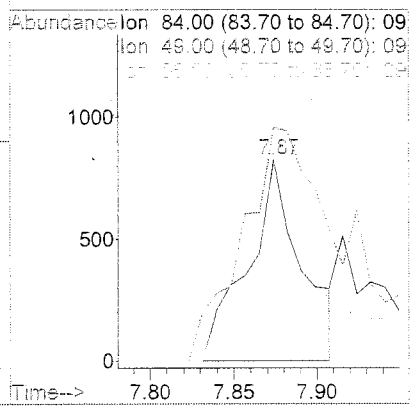


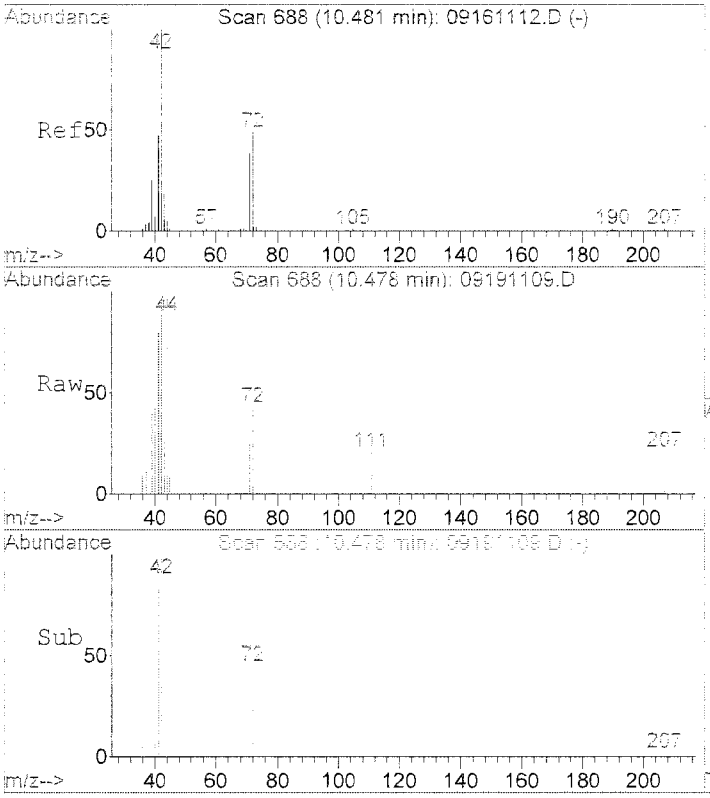


#17
Methylene Chloride
Concen: 0.10 ug/L
RT: 7.87 min Scan# 379
Delta R.T. -0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 84 Resp: 1839

Ion	Ratio	Lower	Upper
84	100		
49	223.8	121.8	182.6#
86	102.3	51.0	76.4#

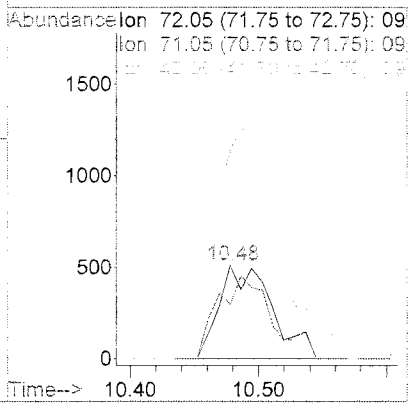


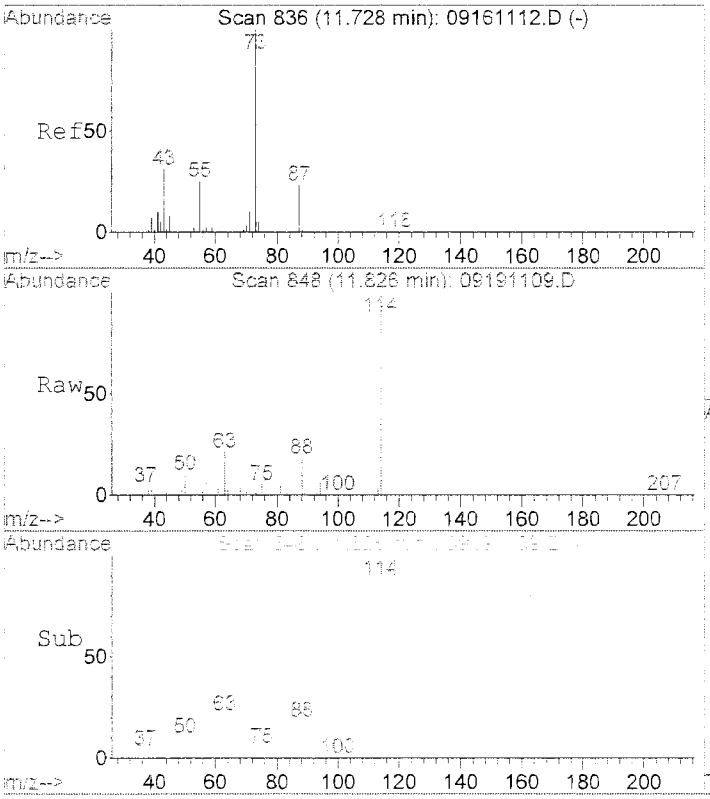


#33
Tetrahydrofuran
Concen: Below Cal
RT: 10.48 min Scan# 688
Delta R.T. 0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 72 Resp: 1451

Ion	Ratio	Lower	Upper
72	100		
71	91.8	71.3	111.3
42	310.9	282.3	322.3

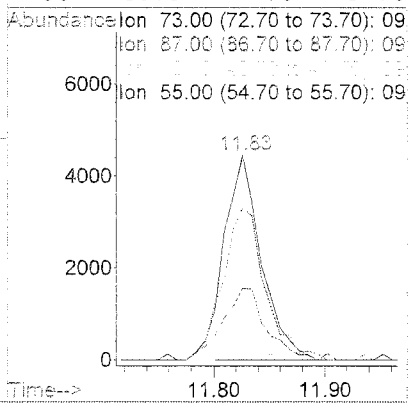


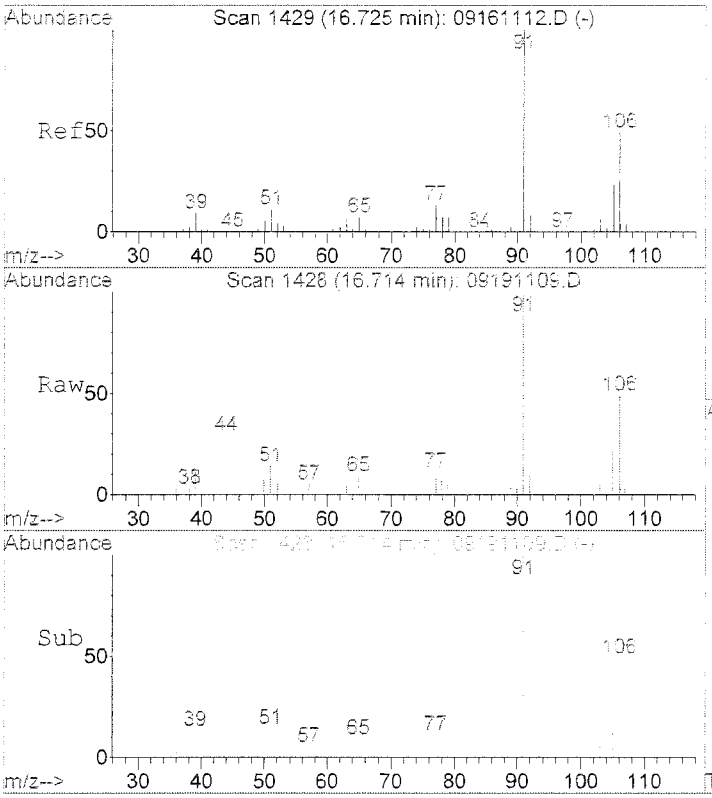


#36
(TAME) tert-Amyl methyl ether
Concen: 0.33 ug/L
RT: 11.83 min Scan# 848
Delta R.T. 0.10 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 73 Resp: 10486

Ion	Ratio	Lower	Upper
73	100		
87	82.7	1.5	41.5#
43	2.1	24.0	64.0#
55	40.9	7.5	47.5

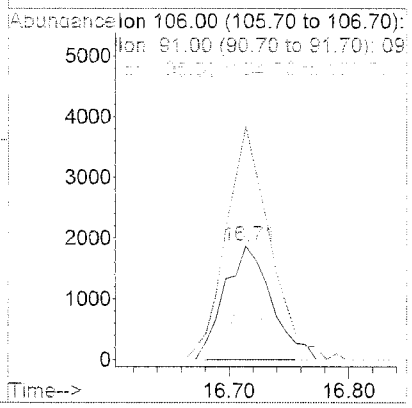


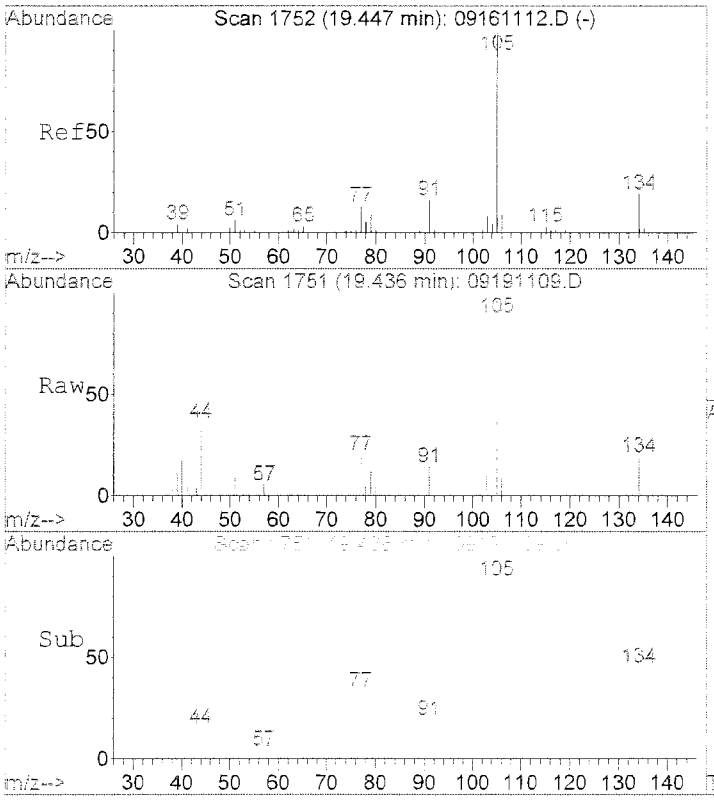


#61
m,p-Xylene
Concen: 0.18 ug/L
RT: 16.71 min Scan# 1428
Delta R.T. -0.01 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:106 Resp: 5125

Ion	Ratio	Lower	Upper
106	100		
91	191.6	160.9	241.3
105	41.3	36.2	54.4

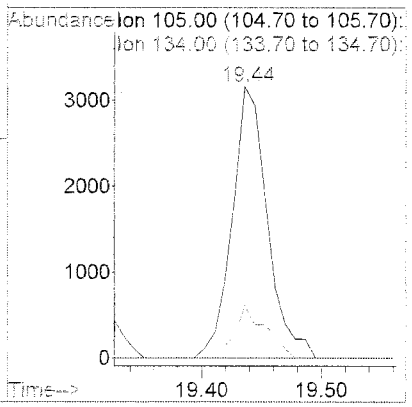


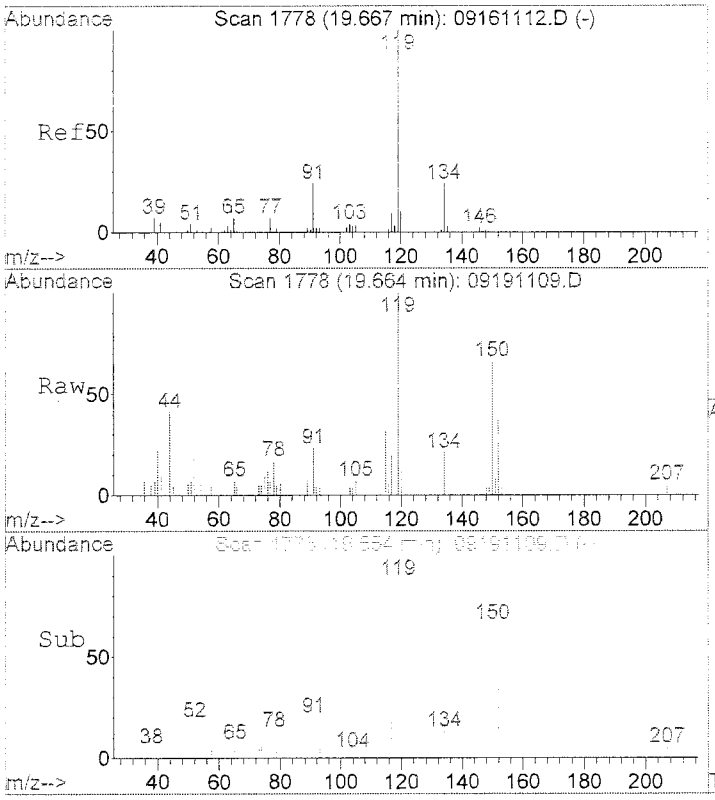


#78
sec-Butylbenzene
Concen: 0.10 ug/L
RT: 19.44 min Scan# 1751
Delta R.T. -0.01 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:105 Resp: 6467

Ion	Ratio	Lower	Upper
105	100		
134	16.6	14.1	21.1

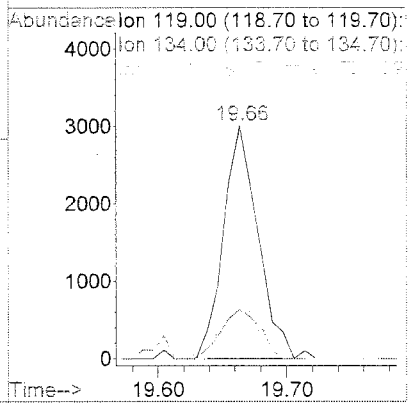


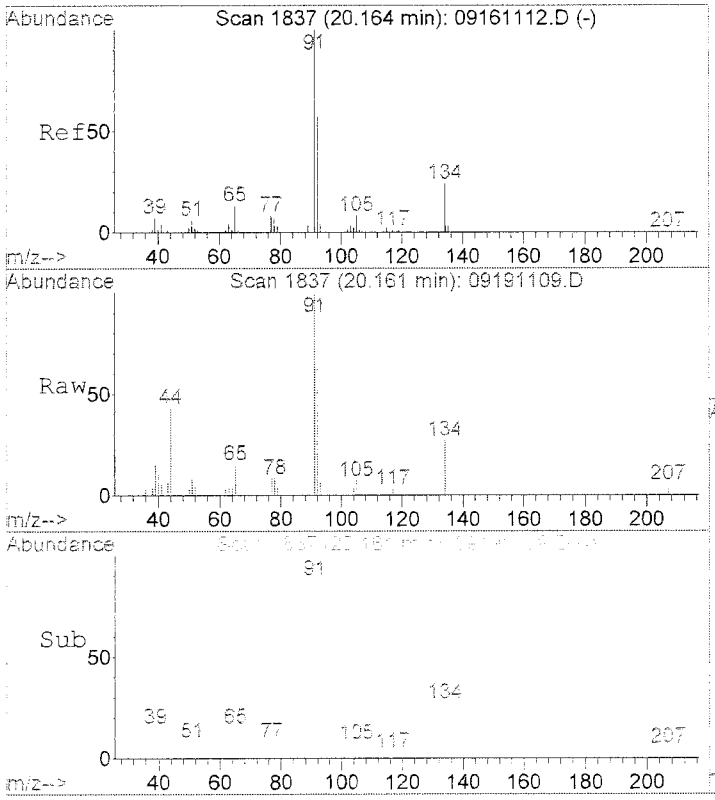


#81
4-Isopropyltoluene
Concen: 0.10 ug/L
RT: 19.66 min Scan# 1778
Delta R.T. -0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:119 Resp: 5588

Ion	Ratio	Lower	Upper
119	100		
134	23.7	18.9	28.3
91	25.6	18.2	27.4

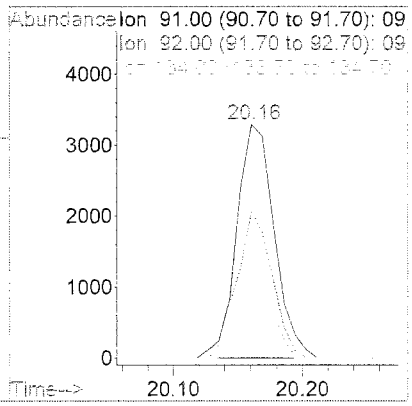


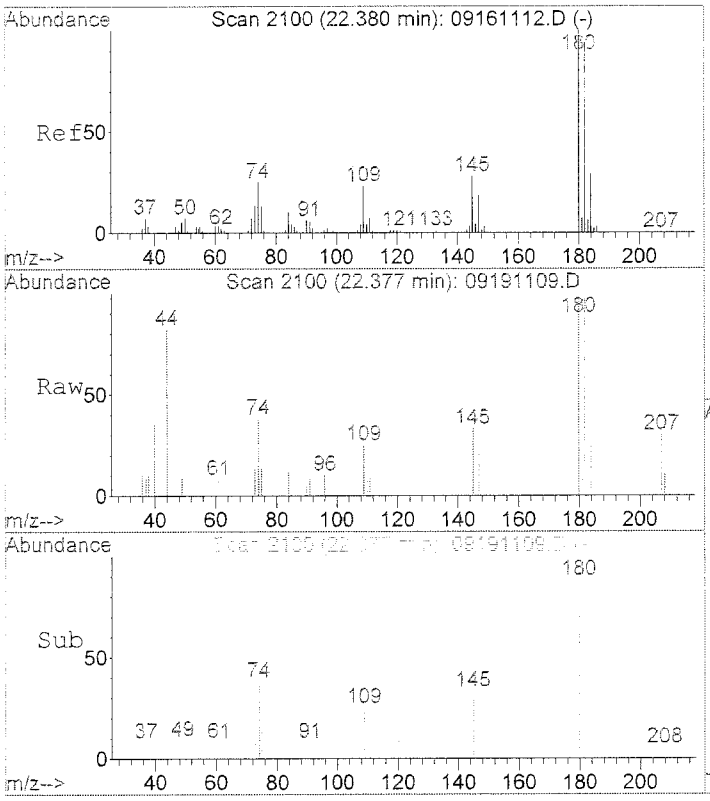


#83
n-Butylbenzene
Concen: 0.13 ug/L
RT: 20.16 min Scan# 1837
Delta R.T. -0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion: 91 Resp: 6618

Ion	Ratio	Lower	Upper
91	100		
92	58.7	46.6	70.0
134	24.0	18.9	28.3

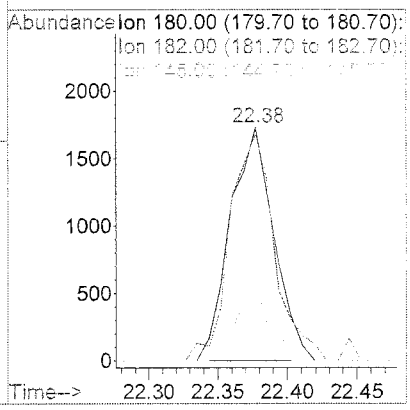


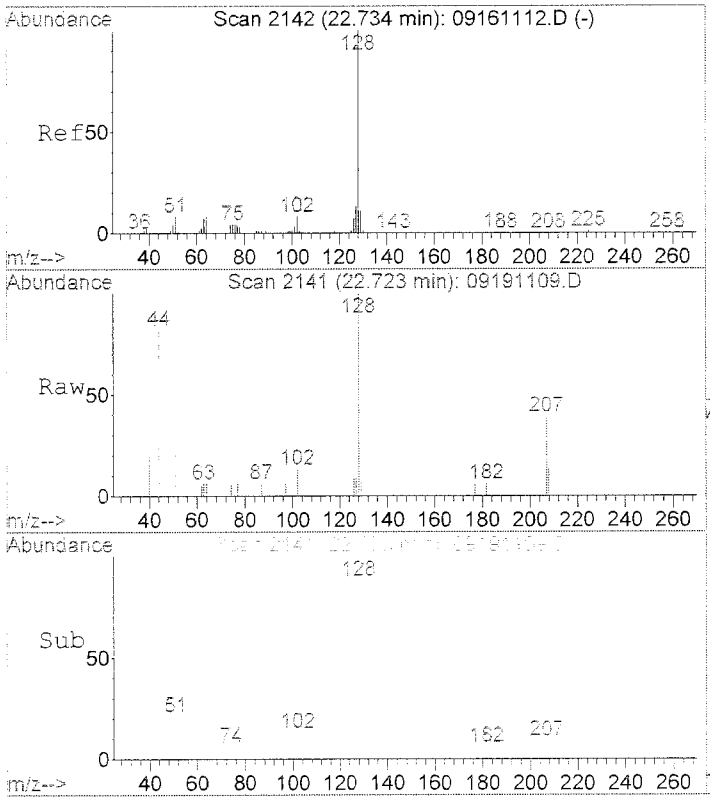


#85
1,2,4-Trichlorobenzene
Concen: 0.23 ug/L
RT: 22.38 min Scan# 2100
Delta R.T. -0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:180 Resp: 3798

Ion	Ratio	Lower	Upper
180	100		
182	99.7	76.7	115.1
145	24.7	23.5	35.3

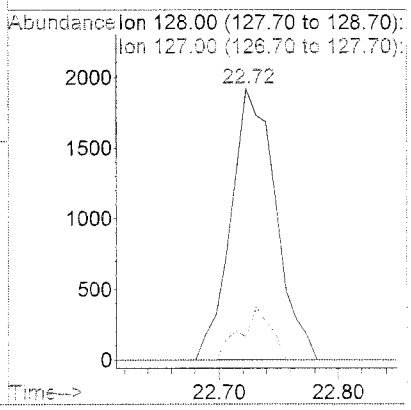


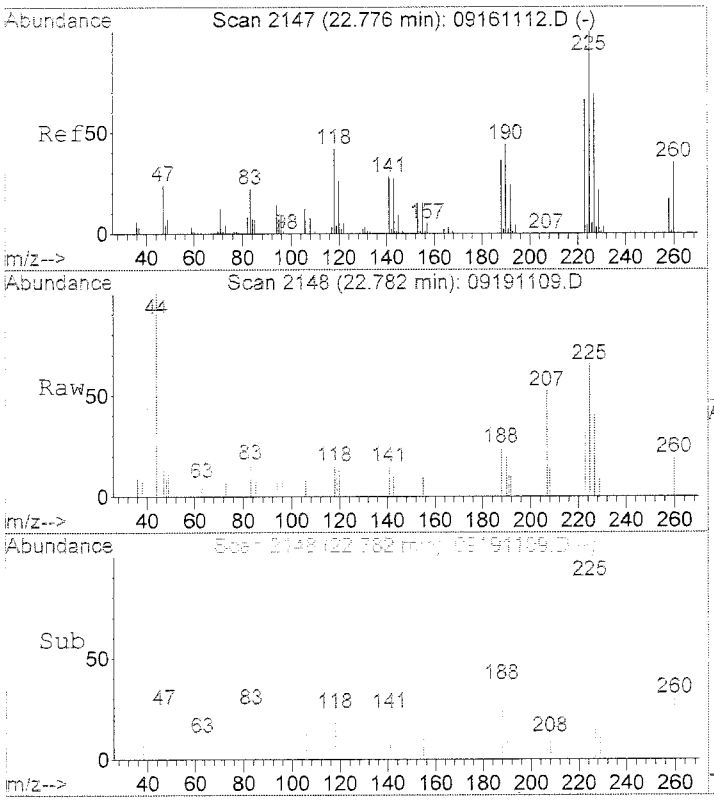


#86
Naphthalene
Concen: 0.23 ug/L
RT: 22.72 min Scan# 2141
Delta R.T. -0.01 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:128 Resp: 5057

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.0	15.0

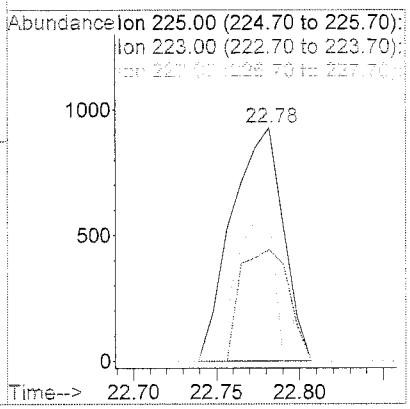


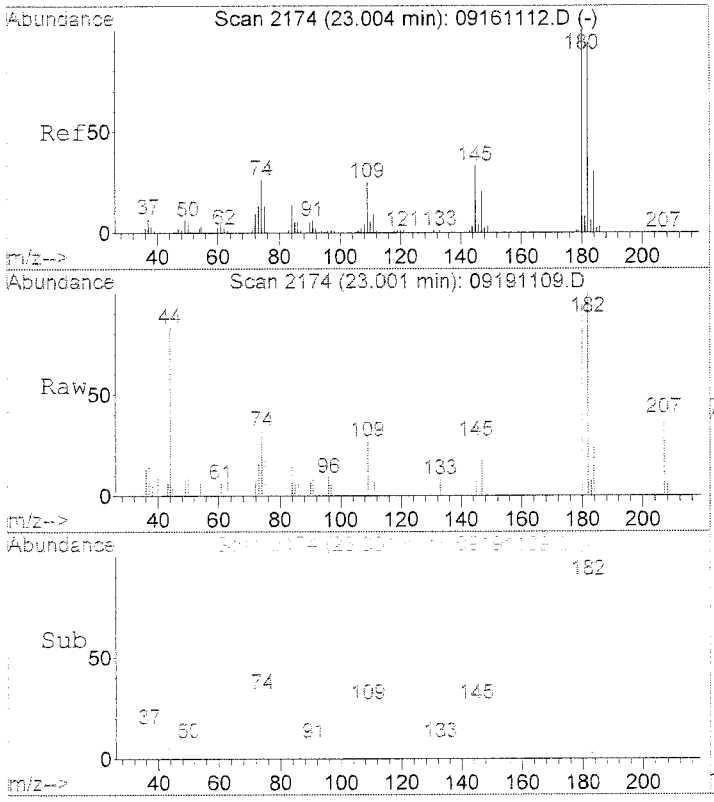


#87
Hexachlorobutadiene
Concen: 0.20 ug/L
RT: 22.78 min Scan# 2148
Delta R.T. 0.01 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:225 Resp: 1987

Ion	Ratio	Lower	Upper
225	100		
223	45.0	50.3	75.5#
227	56.1	51.2	76.8

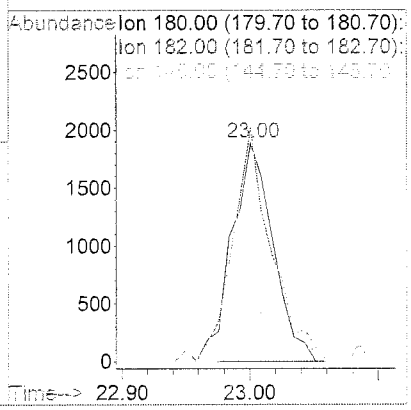




#88
1,2,3-Trichlorobenzene
Concen: 0.32 ug/L
RT: 23.00 min Scan# 2174
Delta R.T. -0.00 min
Lab File: 09191109.D
Acq: 19 Sep 2011 12:14 pm

Tgt Ion:180 Resp: 4221

Ion	Ratio	Lower	Upper
180	100		
182	101.4	77.5	116.3
145	26.9	25.1	37.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191112.D Vial: 11
Acq On : 19 Sep 2011 1:49 pm Operator: MS
Sample : PUI0649-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 16:40 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

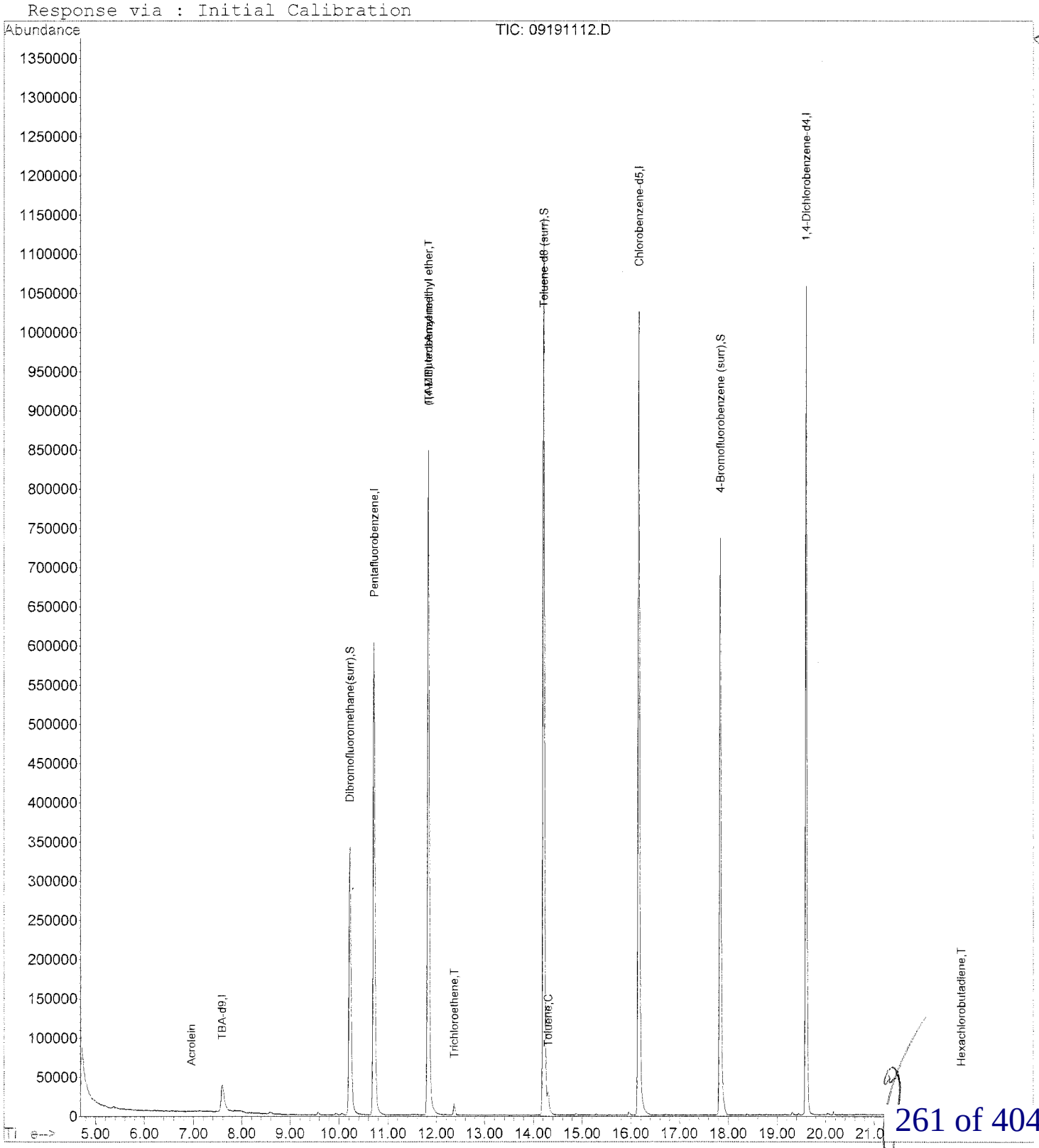
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	89822	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	574600	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	953265	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	803853	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	342864	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	326007	24.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.60%	
50) Toluene-d8 (surr)	14.21	98	1007381	24.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.80%	
64) 4-Bromofluorobenzene (surr	17.84	95	373930	25.17 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.68%	
Target Compounds					Qvalue
2) Ethanol	6.17	45	341	Below Cal #	62 LRC
11) Acrolein	6.96	56	153	0.13 ug/L #	8
13) Acetone	7.13	43	3863	Below Cal #	69
36) (TAME) tert-Amyl methyl et	11.83	73	10236	0.34 ug/L #	34
43) Trichloroethene	12.37	95	6776	0.37 ug/L	94
51) Toluene	14.30	92	10686	0.28 ug/L	96
87) Hexachlorobutadiene	22.78	225	1085	0.11 ug/L #	38

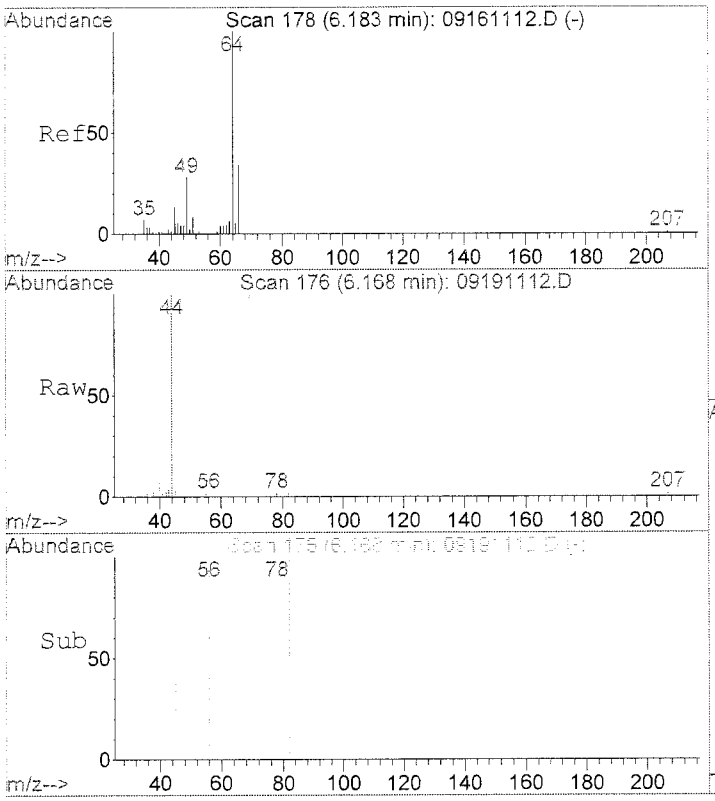
(#) = qualifier out of range (m) = manual integration
09191112.D 091711.M Tue Sep 20 11:02:19 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191112.D Vial: 11
Acq On : 19 Sep 2011 1:49 pm Operator: MS
Sample : PUI0649-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 16:40 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

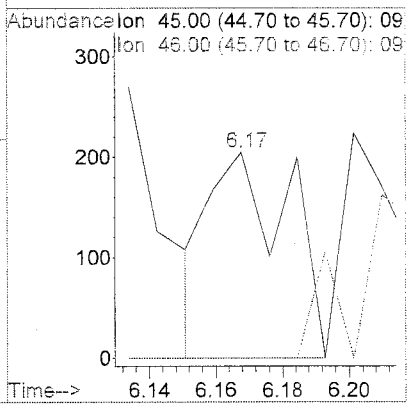


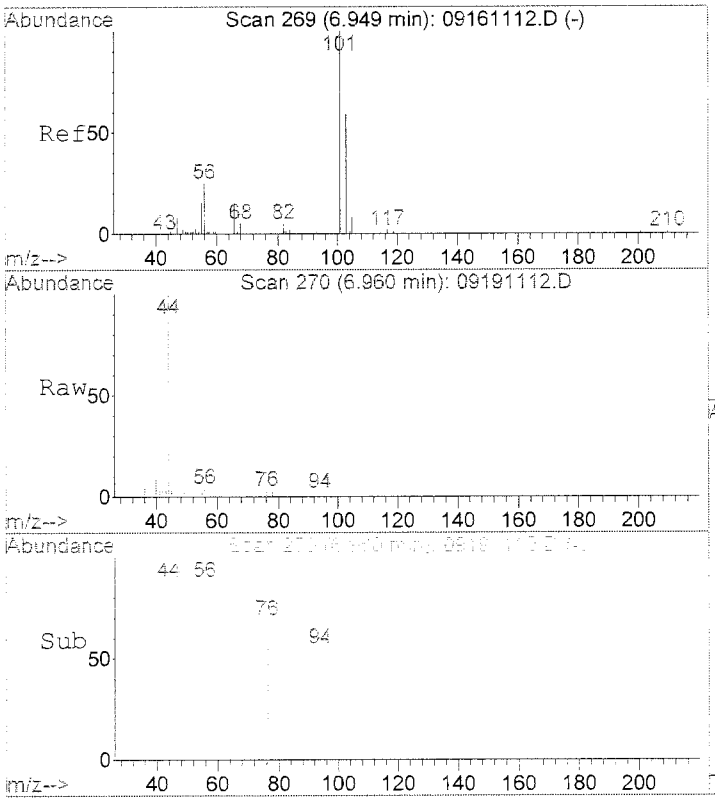


#2
Ethanol
Concen: Below Cal
RT: 6.17 min Scan# 176
Delta R.T. -0.01 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion: 45 Resp: 341

Ion	Ratio	Lower	Upper
45	100		
46	0.0	12.7	19.1#

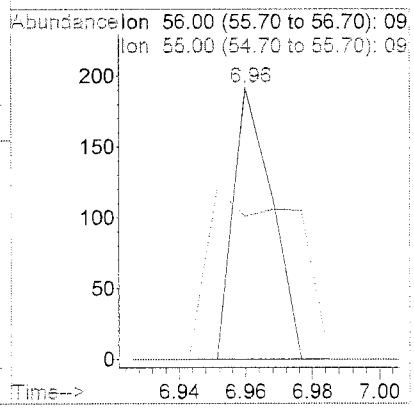


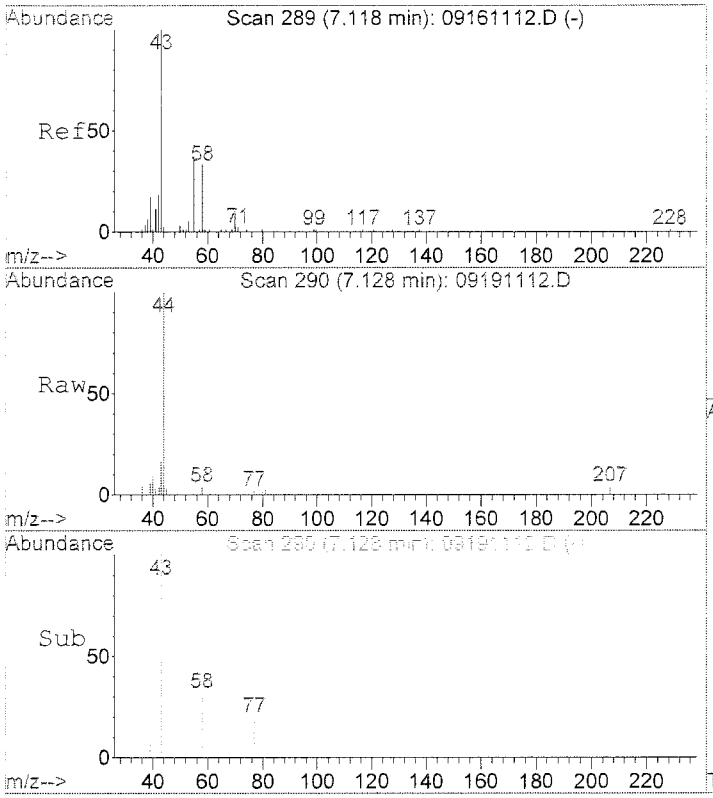


#11
Acrolein
Concen: 0.13 ug/L
RT: 6.96 min Scan# 270
Delta R.T. 0.01 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion: 56 Resp: 153

Ion	Ratio	Lower	Upper
56	100		
55	142.5	48.1	88.1#

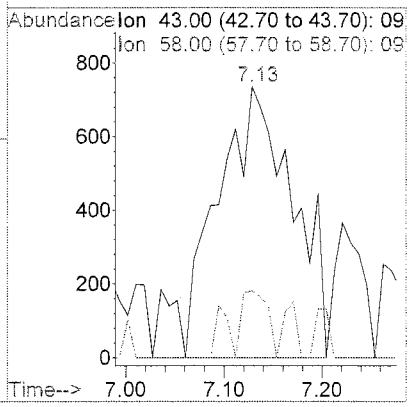


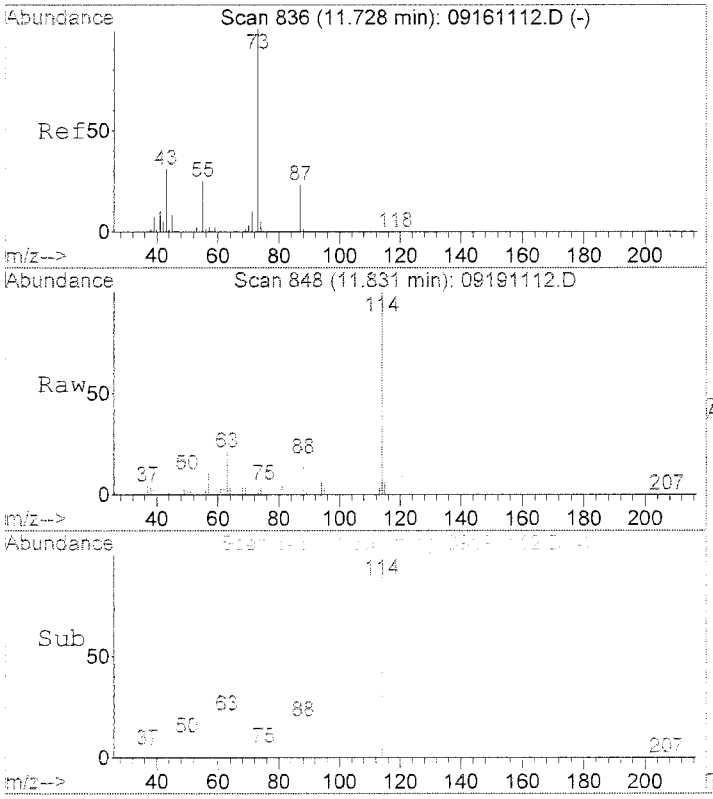


#13
Acetone
Concen: Below Cal
RT: 7.13 min Scan# 290
Delta R.T. 0.01 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion: 43 Resp: 3863

Ion	Ratio	Lower	Upper
43	100		
58	8.6	19.3	28.9#

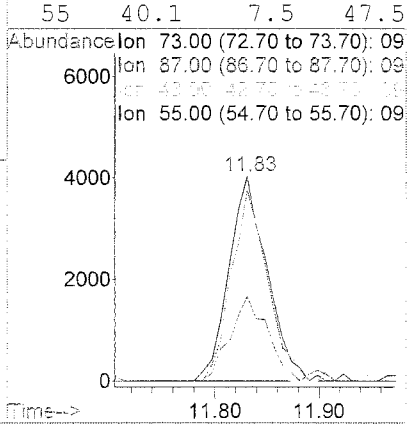


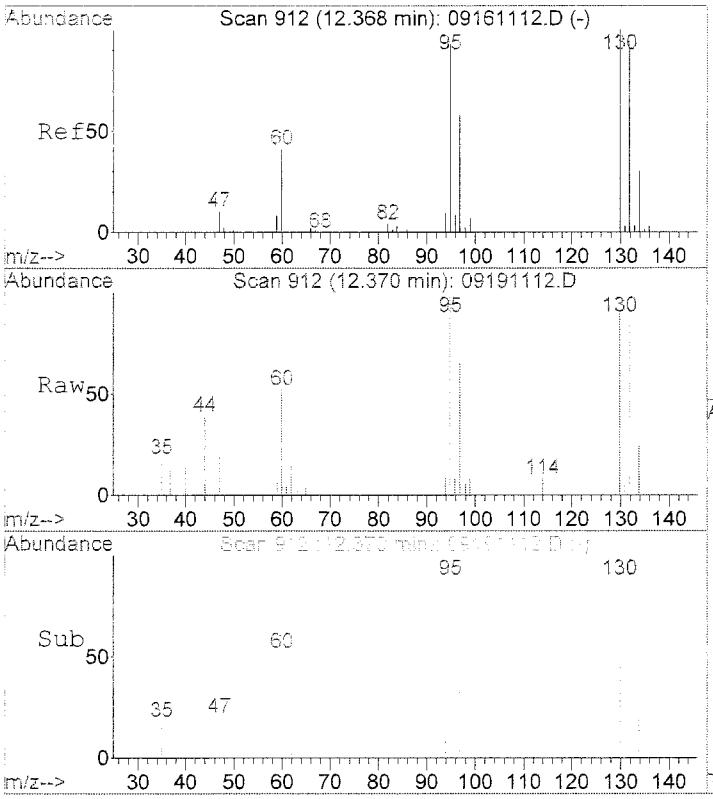


#36
(TAME) tert-Amyl methyl ether
Concen: 0.34 ug/L
RT: 11.83 min Scan# 848
Delta R.T. 0.11 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion: 73 Resp: 10236

Ion	Ratio	Lower	Upper
73	100		
87	88.3	1.5	41.5#
43	8.8	24.0	64.0#
55	40.1	7.5	47.5

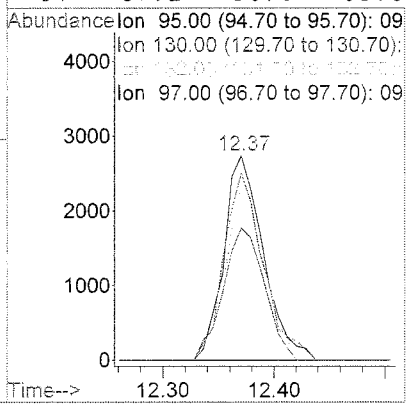


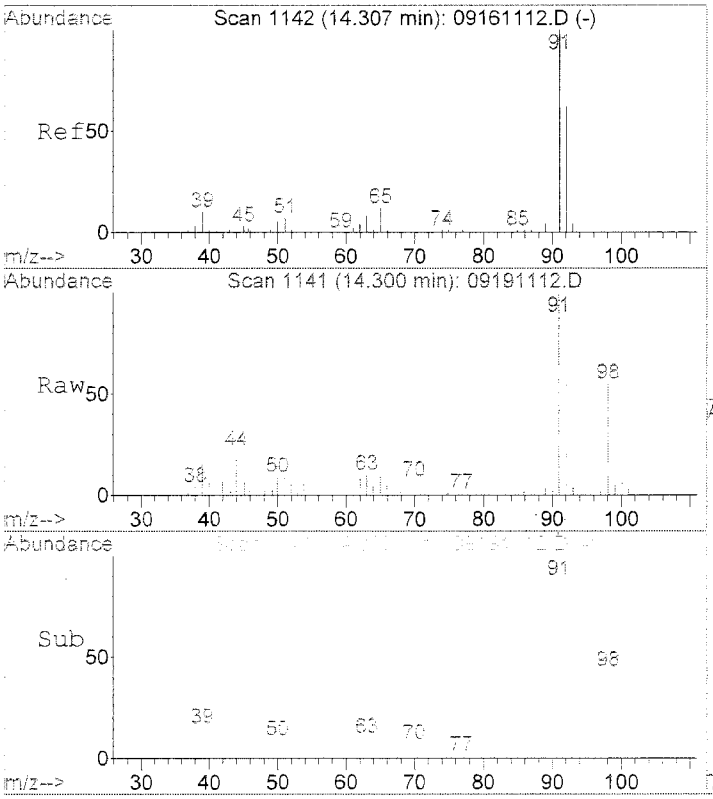


#43
Trichloroethene
Concen: 0.37 ug/L
RT: 12.37 min Scan# 912
Delta R.T. 0.00 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion: 95 Resp: 6776

Ion	Ratio	Lower	Upper
95	100		
130	91.6	78.3	117.5
132	87.1	75.3	112.9
97	67.1	56.6	85.0

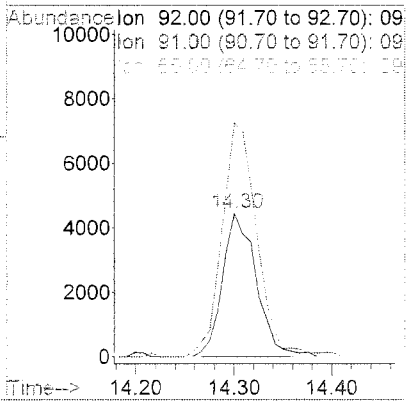


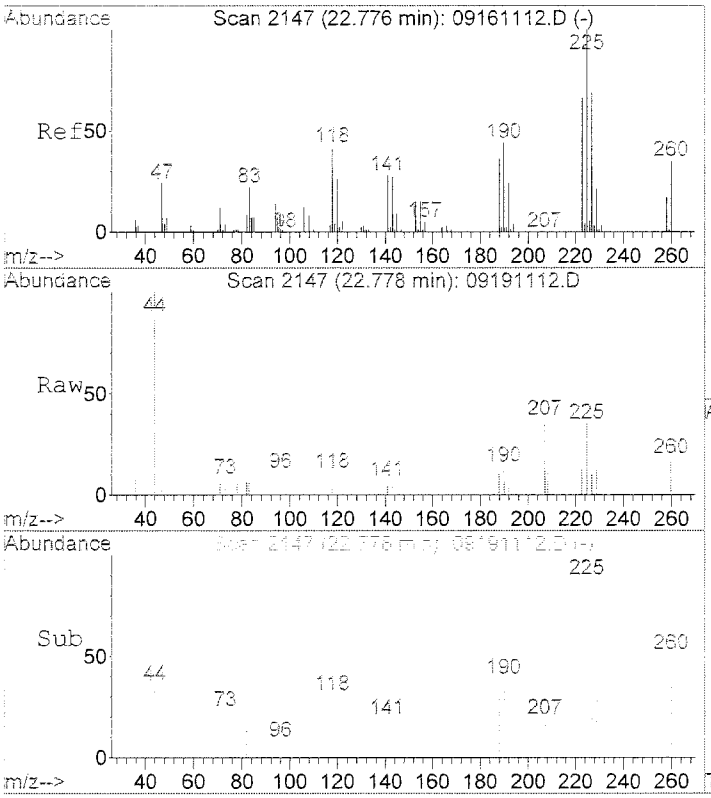


#51
Toluene
Concen: 0.28 ug/L
RT: 14.30 min Scan# 1141
Delta R.T. -0.00 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion: 92 Resp: 10686

Ion	Ratio	Lower	Upper
92	100		
91	169.4	131.6	197.4
65	20.1	18.2	27.2

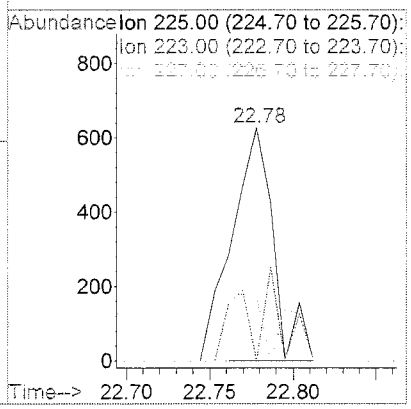




#87
Hexachlorobutadiene
Concen: 0.11 ug/L
RT: 22.78 min Scan# 2147
Delta R.T. 0.00 min
Lab File: 09191112.D
Acq: 19 Sep 2011 1:49 pm

Tgt Ion:225 Resp: 1085

Ion	Ratio	Lower	Upper
225	100		
223	17.6	50.3	75.5#
227	12.4	51.2	76.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191118.D Vial: 17
Acq On : 19 Sep 2011 6:00 pm Operator: MS
Sample : PUI0650-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 6:53 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	87184	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	570333	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	957585	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	815446	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	349750	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	333335	25.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.56%	
50) Toluene-d8 (surr)	14.21	98	1018109	25.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.40%	
64) 4-Bromofluorobenzene (surr	17.83	95	387177	25.69 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.76%	

Target Compounds					Qvalue
2) Ethanol	6.15	45	772	Below Cal	96
11) Acrolein	6.94	56	112	0.10 ug/L	77
13) Acetone	7.14	43	6465	Below Cal #	90
27) cis-1,2-Dichloroethene	9.80	96	14415	0.70 ug/L	96
29) Chloroform	10.06	83	22163	0.67 ug/L	98
33) Tetrahydrofuran	10.49	72	153	Below Cal #	1
36) (TAME) tert-Amyl methyl et	11.83	73	11213	0.37 ug/L #	39
43) Trichloroethene	12.37	95	90091	4.94 ug/L	96
51) Toluene	14.30	92	16887	0.44 ug/L	99
57) Tetrachloroethene	15.29	164	3314	0.26 ug/L	93

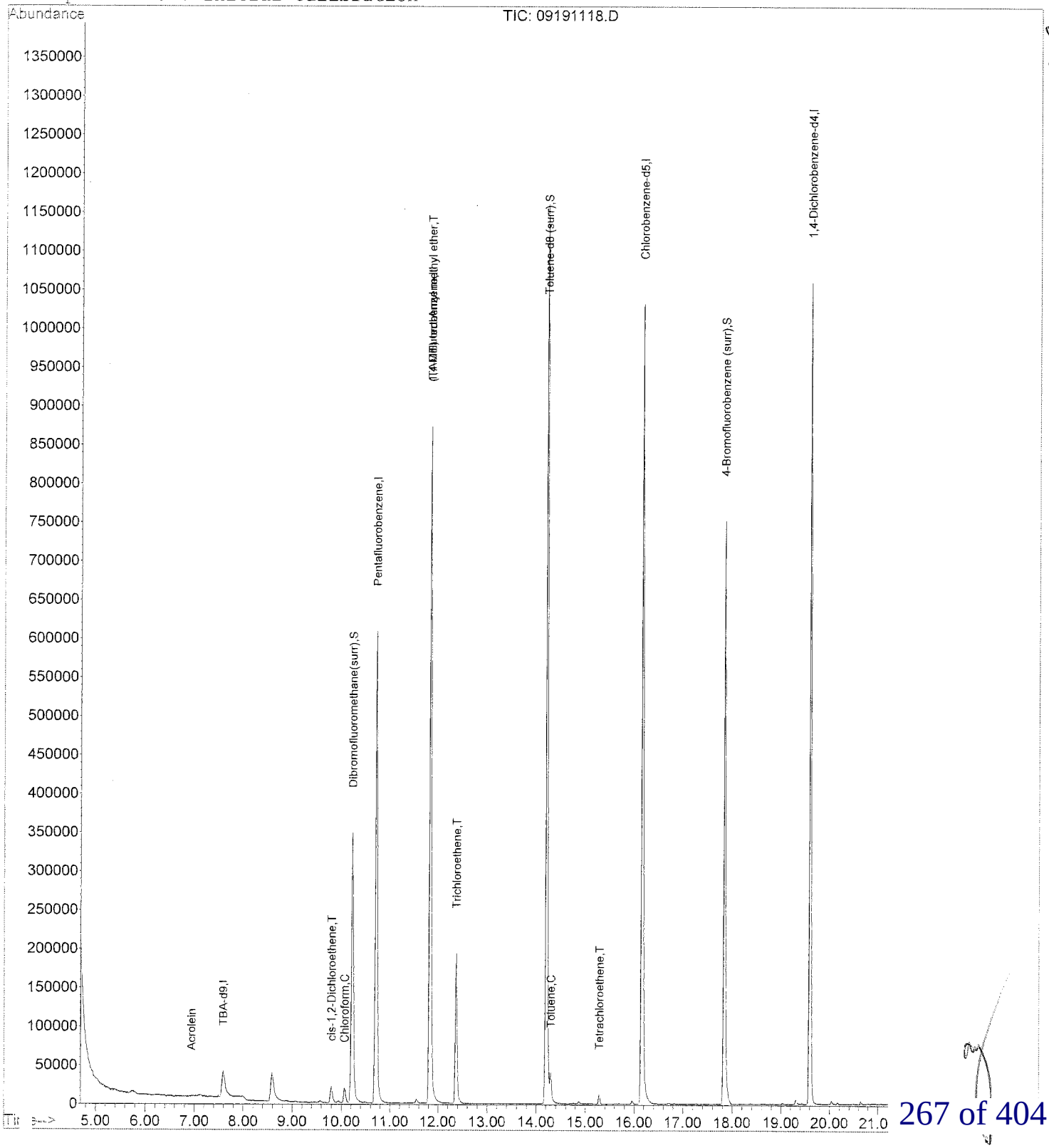
9/23/11

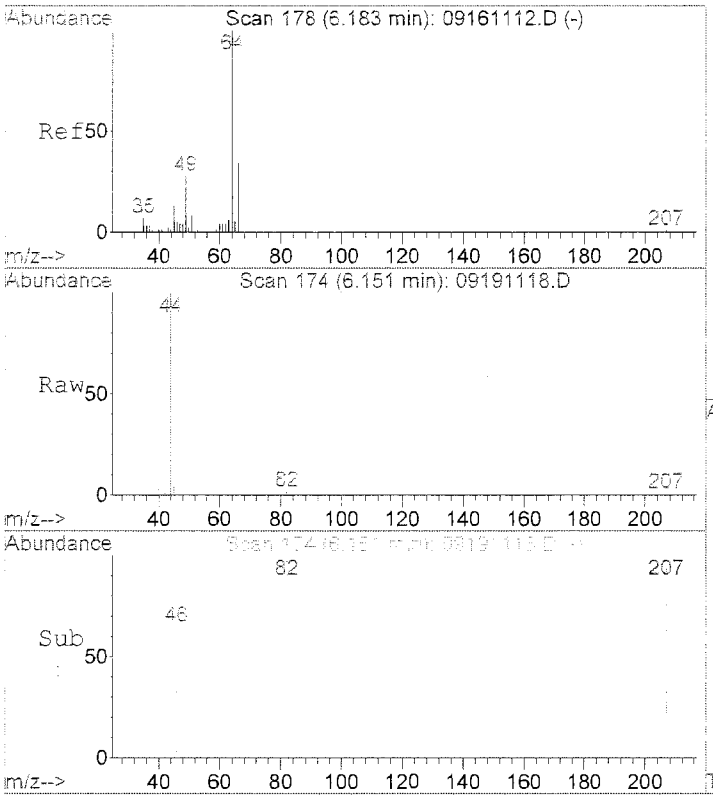
(#) = qualifier out of range (m) = manual integration
09191118.D 091711.M Tue Sep 20 11:03:20 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191118.D Vial: 17
Acq On : 19 Sep 2011 6:00 pm Operator: MS
Sample : PUI0650-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 6:53 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

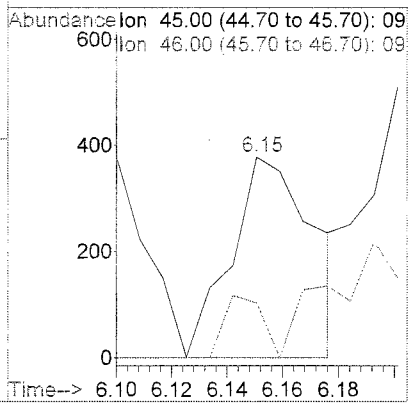


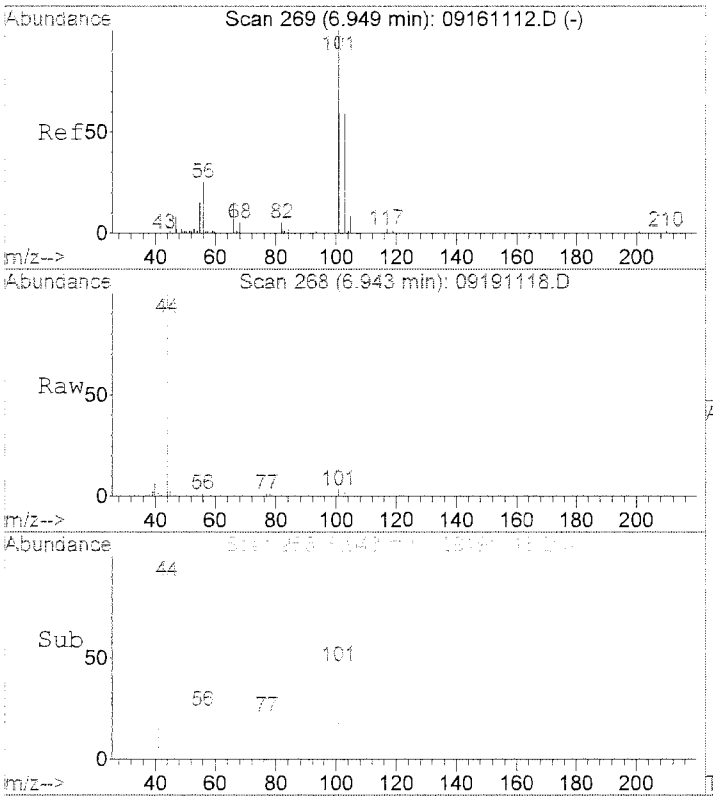


#2
Ethanol
Concen: Below Cal
RT: 6.15 min Scan# 174
Delta R.T. -0.03 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 45 Resp: 772

Ion	Ratio	Lower	Upper
45	100		
46	14.4	12.7	19.1

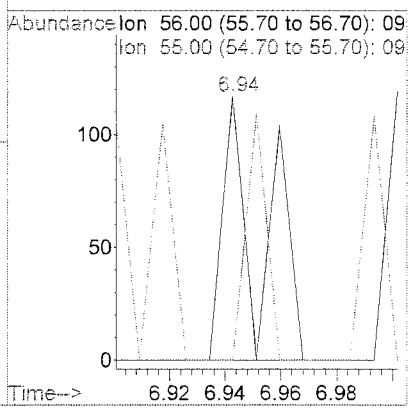


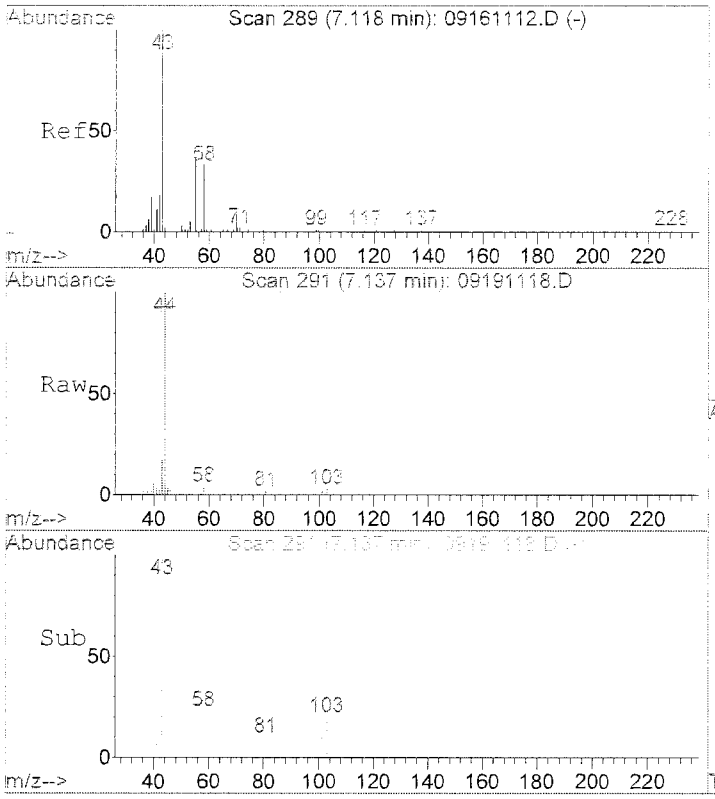


#11
Acrolein
Concen: 0.10 ug/L
RT: 6.94 min Scan# 268
Delta R.T. -0.00 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 56 Resp: 112

Ion	Ratio	Lower	Upper
56	100		
55	49.1	48.1	88.1

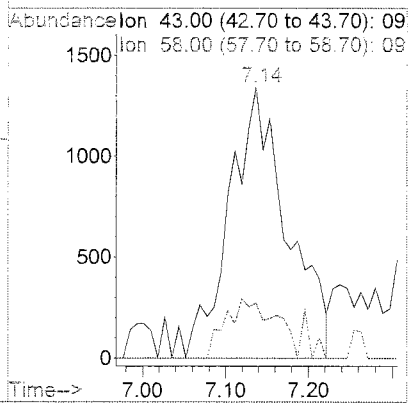


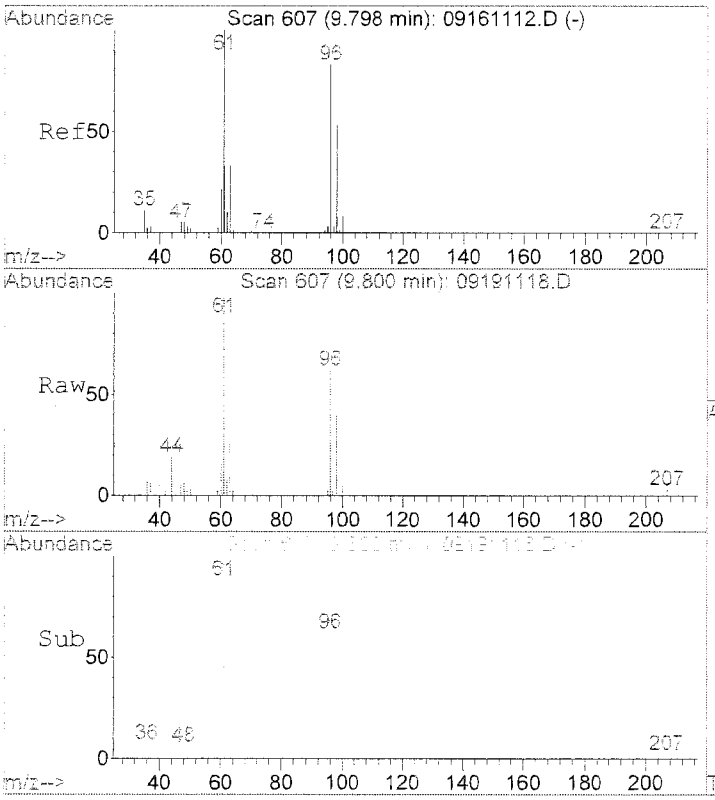


#13
Acetone
Concen: Below Cal
RT: 7.14 min Scan# 291
Delta R.T. 0.02 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 43 Resp: 6465

Ion	Ratio	Lower	Upper
43	100		
58	19.0	19.3	28.9#

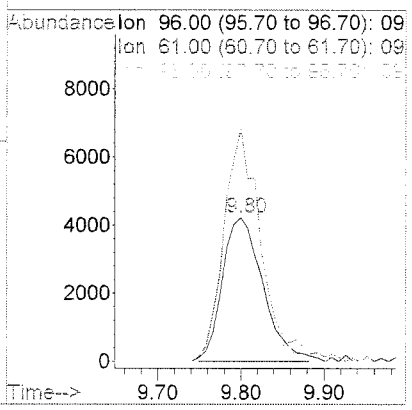


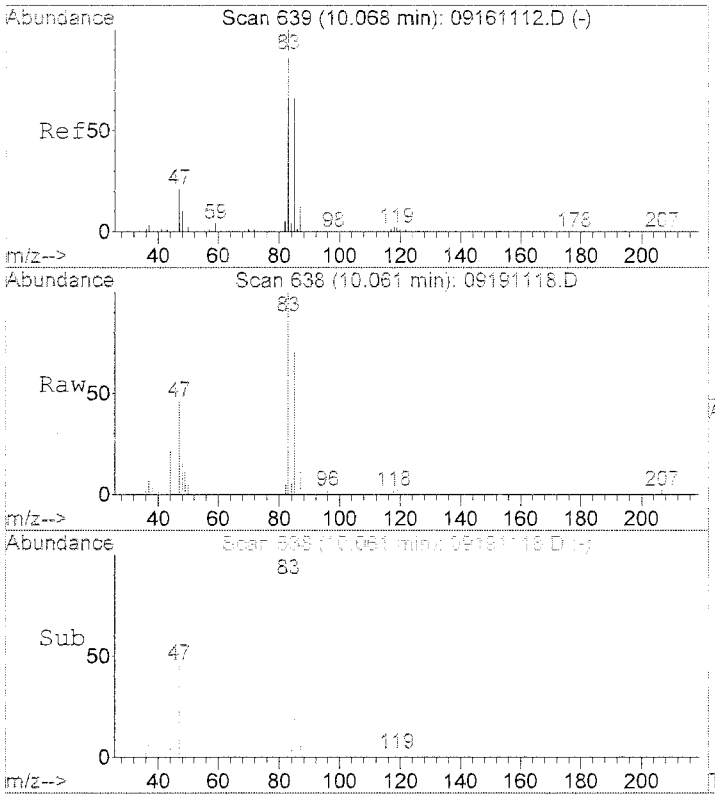


#27
cis-1,2-Dichloroethene
Concen: 0.70 ug/L
RT: 9.80 min Scan# 607
Delta R.T. 0.00 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 96 Resp: 14415

Ion	Ratio	Lower	Upper
96	100		
61	149.7	114.0	171.0
98	63.9	51.5	77.3

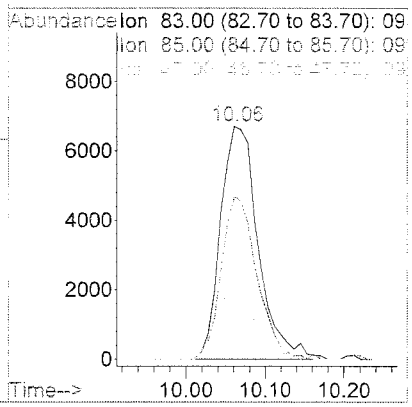


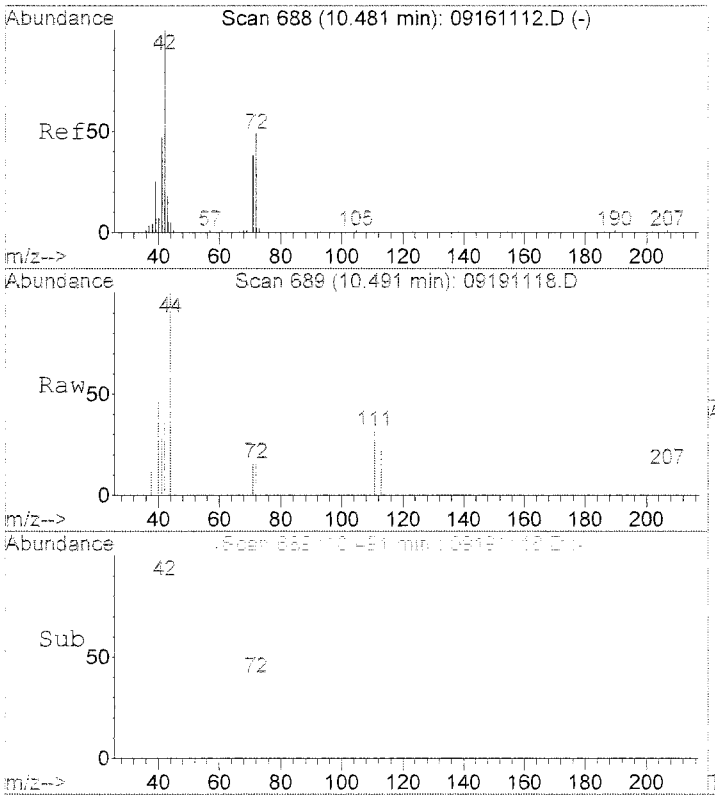


#29
Chloroform
Concen: 0.67 ug/L
RT: 10.06 min Scan# 638
Delta R.T. 0.00 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 83 Resp: 22163

Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.2	78.2
47	36.4	30.6	46.0

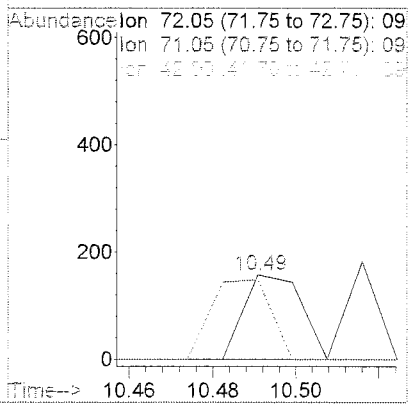


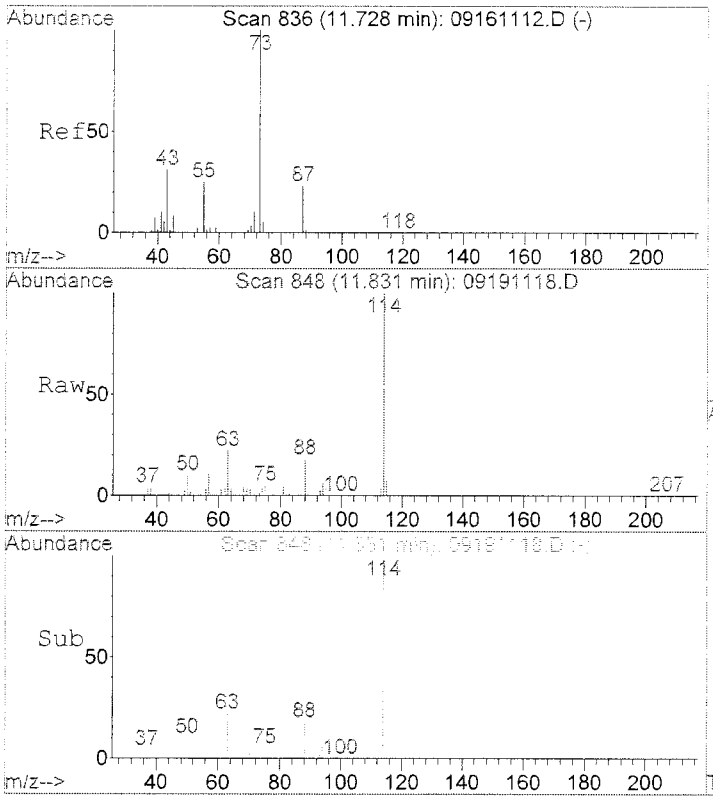


#33
Tetrahydrofuran
Concen: Below Cal
RT: 10.49 min Scan# 689
Delta R.T. 0.01 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 72 Resp: 153

Ion	Ratio	Lower	Upper
72	100		
71	96.7	71.3	111.3
42	1066.7	282.3	322.3#

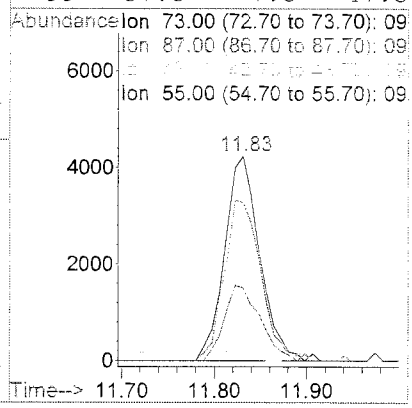


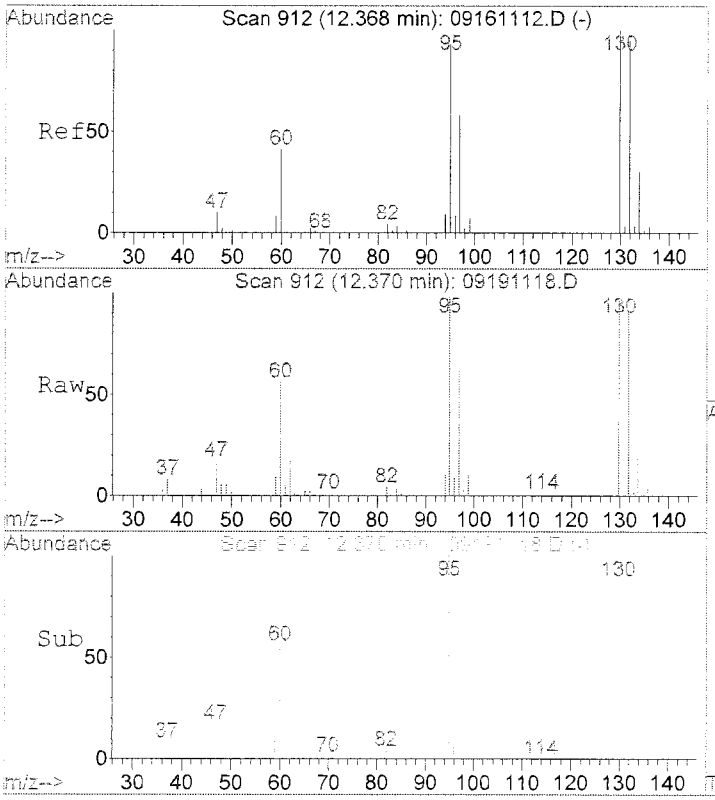


#36
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 11.83 min Scan# 848
Delta R.T. 0.11 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 73 Resp: 11213

Ion	Ratio	Lower	Upper
73	100		
87	80.2	1.5	41.5#
43	7.1	24.0	64.0#
55	37.5	7.5	47.5

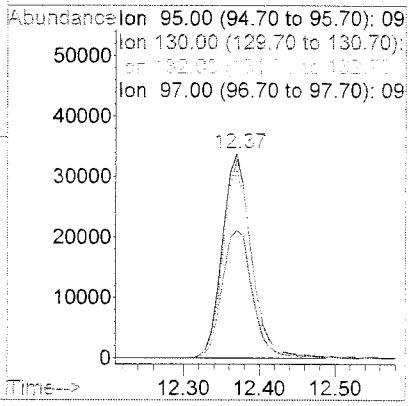


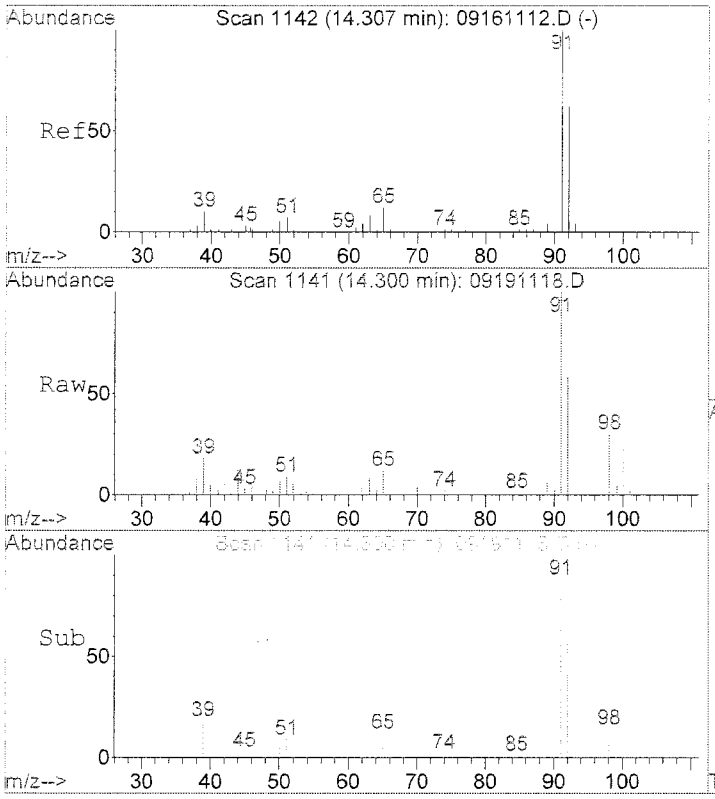


#43
Trichloroethene
Concen: 4.94 ug/L
RT: 12.37 min Scan# 912
Delta R.T. 0.00 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 95 Resp: 90091

Ion	Ratio	Lower	Upper
95	100		
130	95.7	78.3	117.5
132	91.6	75.3	112.9
97	65.1	56.6	85.0

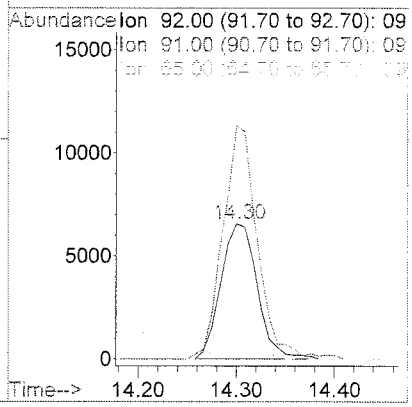


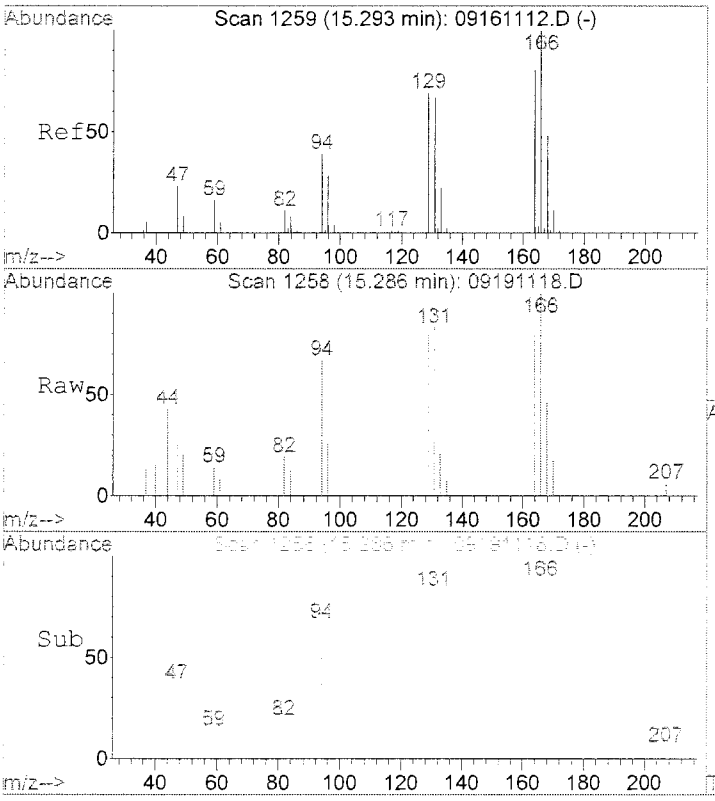


#51
Toluene
Concen: 0.44 ug/L
RT: 14.30 min Scan# 1141
Delta R.T. -0.00 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion: 92 Resp: 16887

Ion	Ratio	Lower	Upper
92	100		
91	164.1	131.6	197.4
65	20.4	18.2	27.2

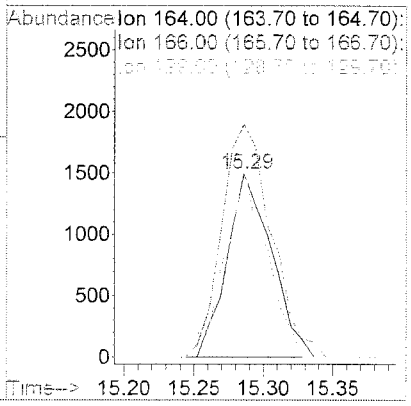




#57
Tetrachloroethene
Concen: 0.26 ug/L
RT: 15.29 min Scan# 1258
Delta R.T. -0.00 min
Lab File: 09191118.D
Acq: 19 Sep 2011 6:00 pm

Tgt Ion:164 Resp: 3314

Ion	Ratio	Lower	Upper
164	100		
166	141.6	102.5	153.7
129	95.6	76.0	114.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191119.D Vial: 18
Acq On : 19 Sep 2011 6:31 pm Operator: MS
Sample : PUI0650-02 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 6:53 2011 Quant Results File: 091711.RES

Quant Method : C:\HPCHEM\1...\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration
DataAcq Meth : 8260C

✓ 9/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.59	65	88410	200.00 ug/L	0.00
4) Pentafluorobenzene	10.71	168	556789	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.83	114	935171	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.16	117	789637	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.60	152	340224	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.22	113	324436	25.31 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.24%	
50) Toluene-d8 (surr)	14.21	98	992563	25.06 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.24%	
64) 4-Bromofluorobenzene (surr	17.83	95	372368	25.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.08%	

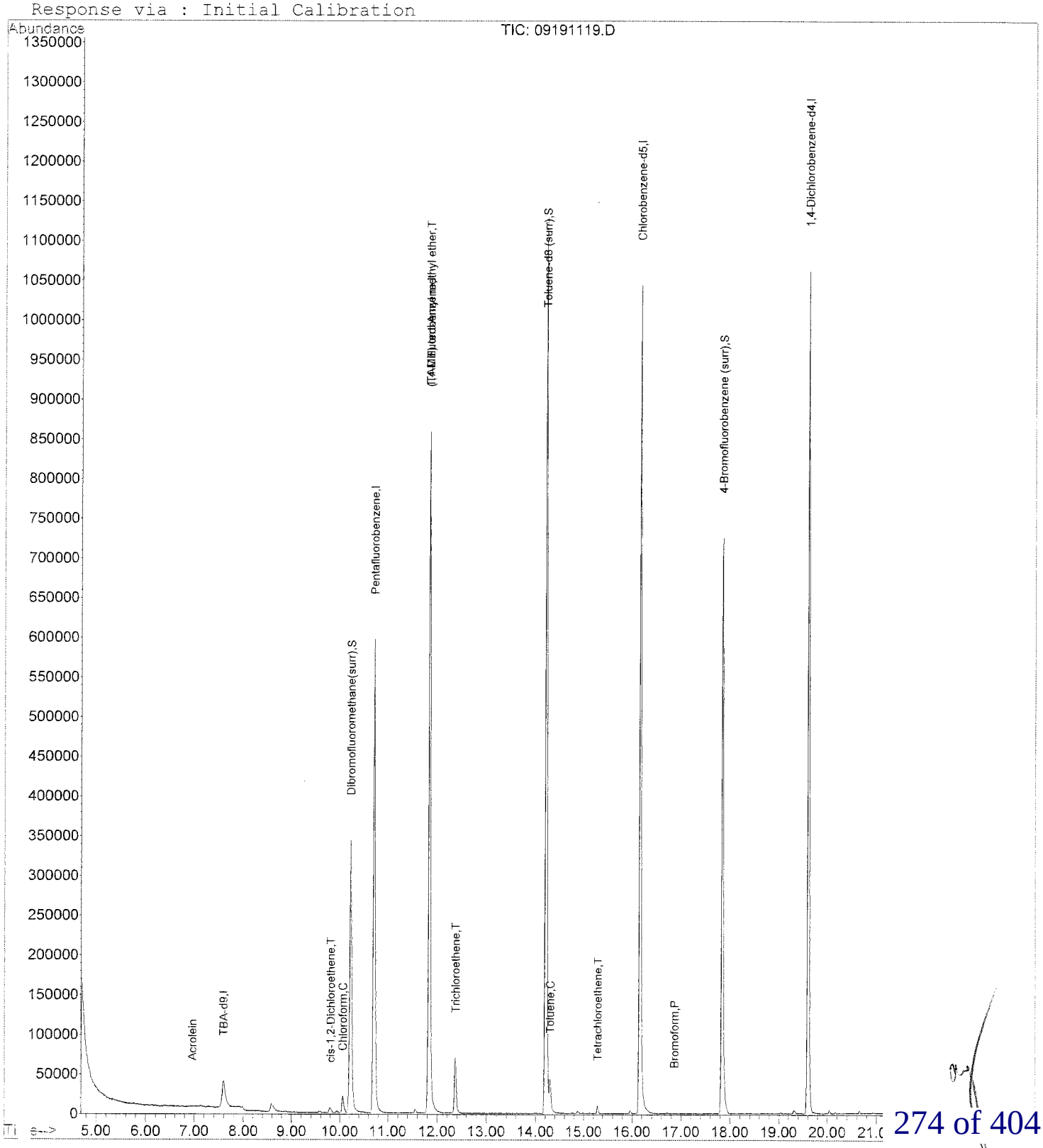
Target Compounds					Qvalue	
2) Ethanol	6.18	45	58	Below Cal #	1	LRL
11) Acrolein	6.96	56	108	0.10 ug/L #	41	
13) Acetone	7.13	43	4071	Below Cal #	83	
27) cis-1,2-Dichloroethene	9.80	96	5119	0.26 ug/L	90	
29) Chloroform	10.06	83	24256	0.76 ug/L	94	
33) Tetrahydrofuran	10.49	72	273	Below Cal #	50	LRL
36) (TAME) tert-Amyl methyl et	11.83	73	10080	0.34 ug/L #	38	
43) Trichloroethene	12.37	95	33776	1.90 ug/L	96	
51) Toluene	14.30	92	18741	0.50 ug/L	98	
57) Tetrachloroethene	15.29	164	2684	0.22 ug/L	98	LRL
66) Bromoform	16.86	173	67	0.39 ug/L #	27	

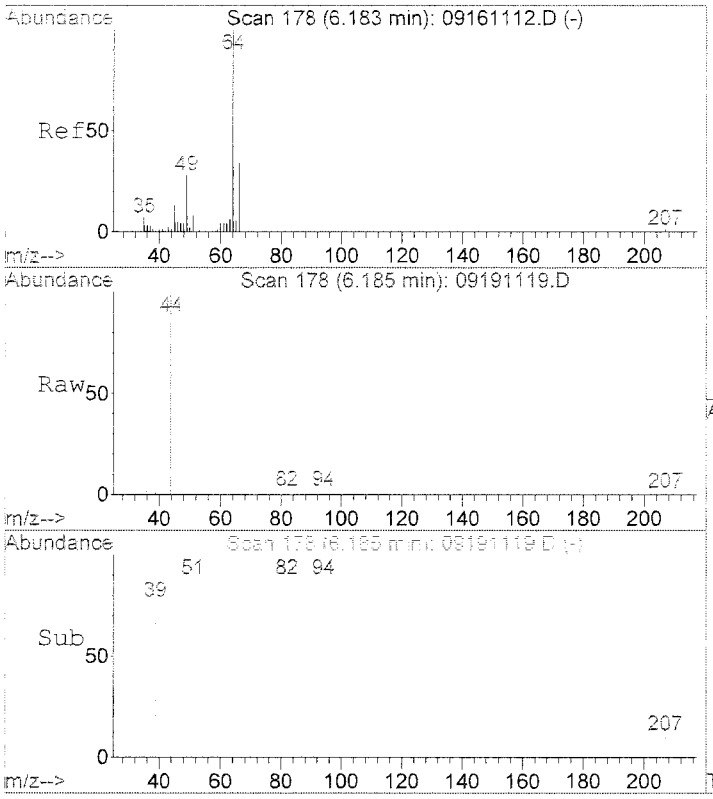
(#) = qualifier out of range (m) = manual integration
09191119.D 091711.M Tue Sep 20 11:03:28 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\091911\09191119.D Vial: 18
Acq On : 19 Sep 2011 6:31 pm Operator: MS
Sample : PUI0650-02 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 6:53 2011 Quant Results File: 091711.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\091711.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Sep 19 07:37:03 2011
Response via : Initial Calibration

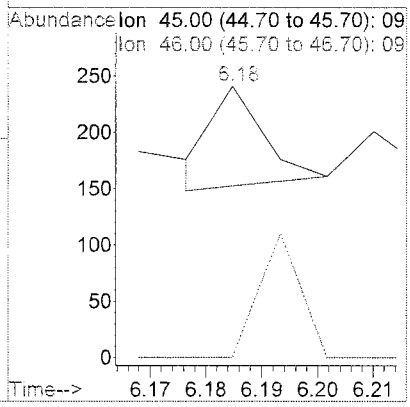


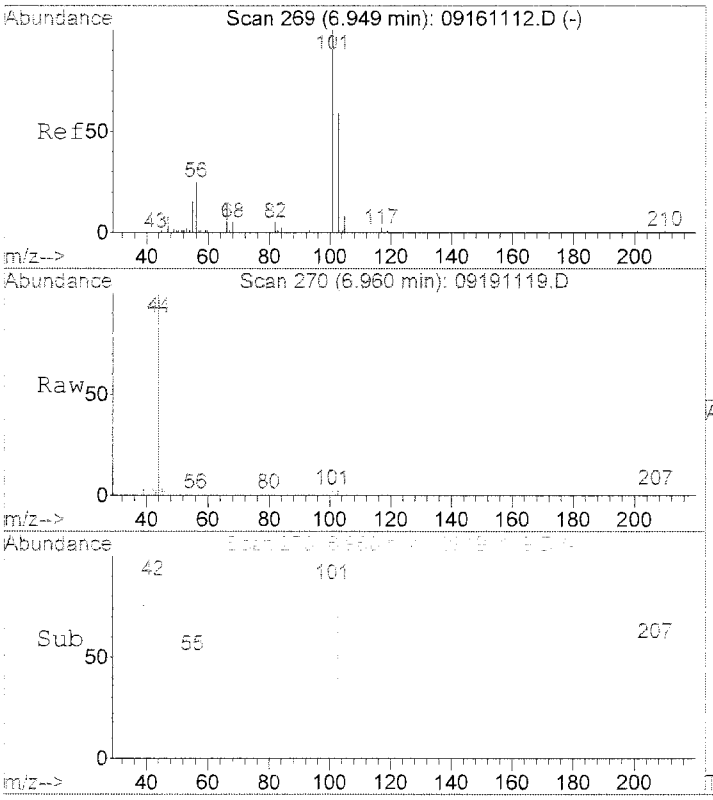


#2
Ethanol
Concen: Below Cal
RT: 6.18 min Scan# 178
Delta R.T. 0.01 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 45 Resp: 58

Ion	Ratio	Lower	Upper
45	100		
46	96.6	12.7	19.1#

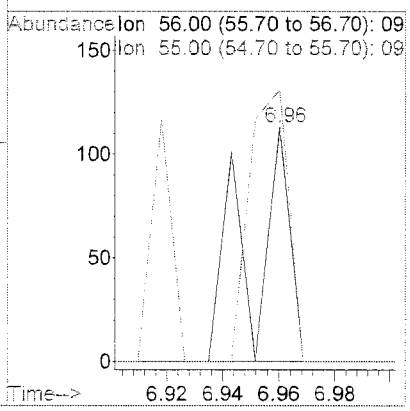


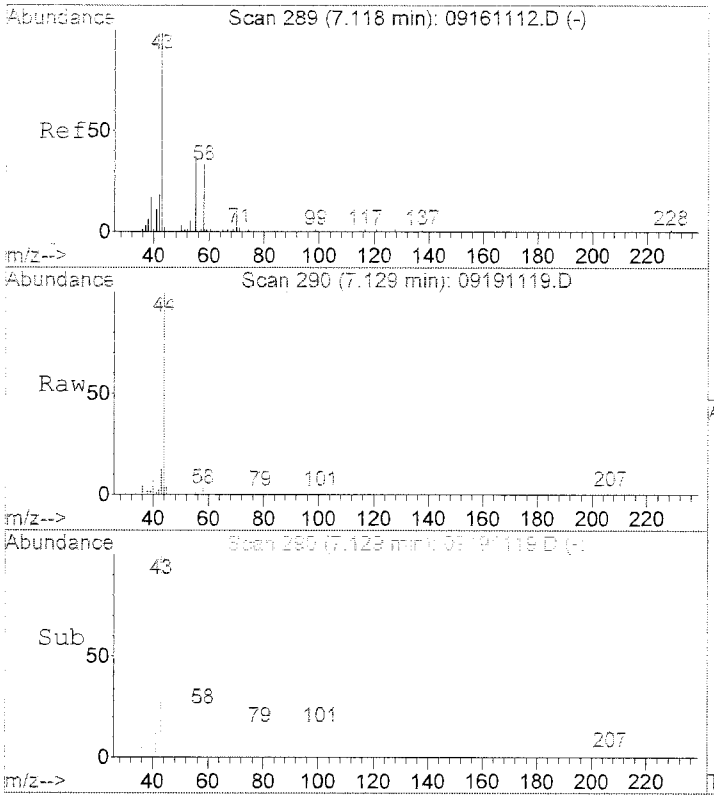


#11
Acrolein
Concen: 0.10 ug/L
RT: 6.96 min Scan# 270
Delta R.T. 0.01 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 56 Resp: 108

Ion	Ratio	Lower	Upper
56	100		
55	115.7	48.1	88.1#

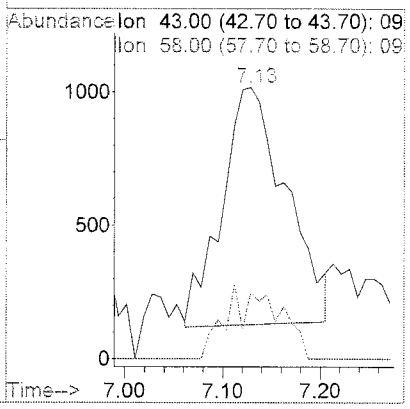


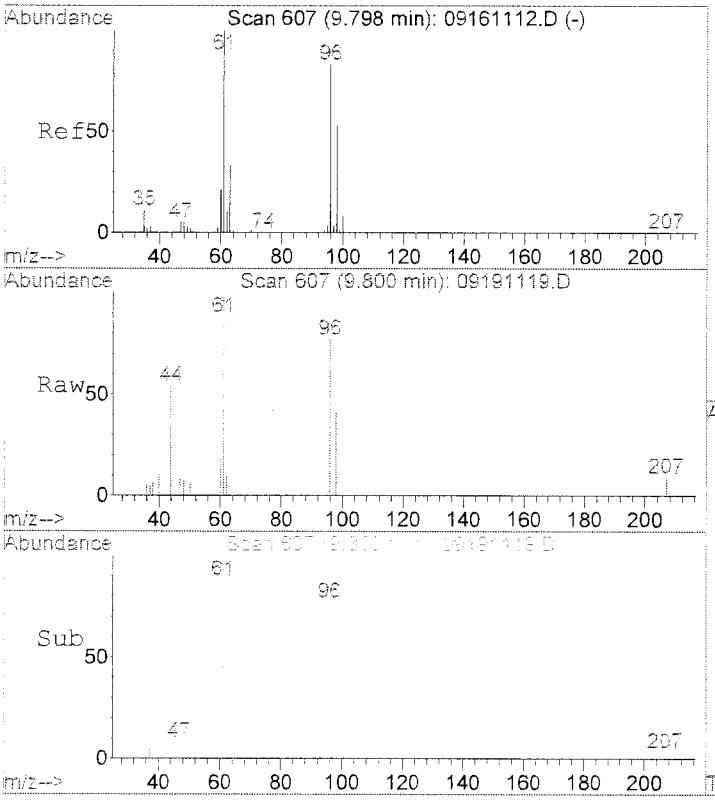


#13
Acetone
Concen: Below Cal
RT: 7.13 min Scan# 290
Delta R.T. 0.01 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 43 Resp: 4071

Ion	Ratio	Lower	Upper
43	100		
58	15.9	19.3	28.9#

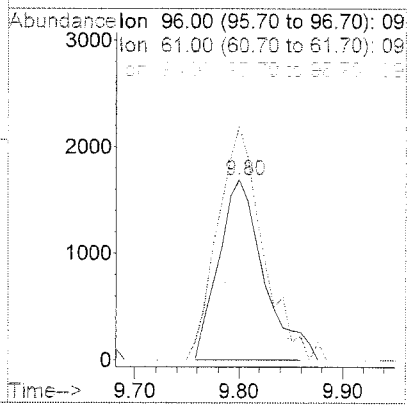


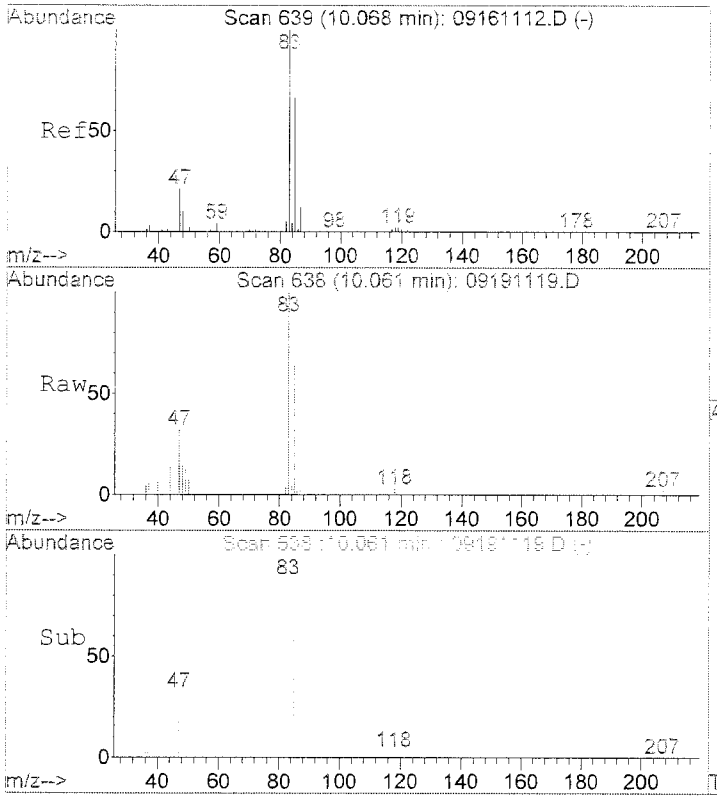


#27
cis-1,2-Dichloroethene
Concen: 0.26 ug/L
RT: 9.80 min Scan# 607
Delta R.T. 0.00 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 96 Resp: 5119

Ion	Ratio	Lower	Upper
96	100		
61	129.7	114.0	171.0
98	56.5	51.5	77.3

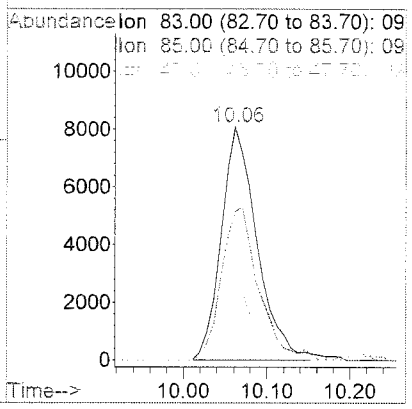


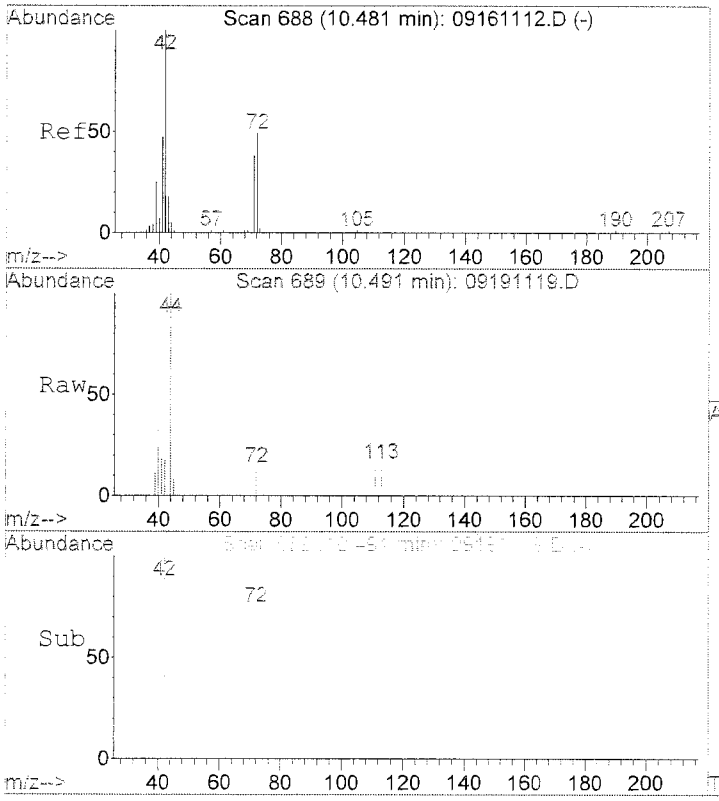


#29
Chloroform
Concen: 0.76 ug/L
RT: 10.06 min Scan# 638
Delta R.T. 0.00 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 83 Resp: 24256

Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.2	78.2
47	31.8	30.6	46.0

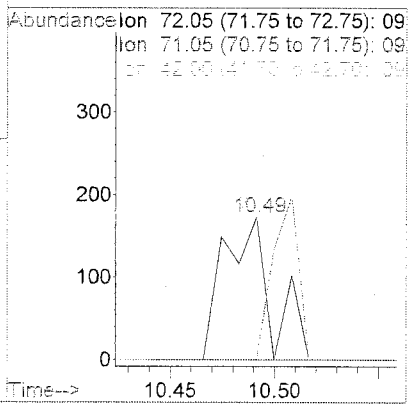


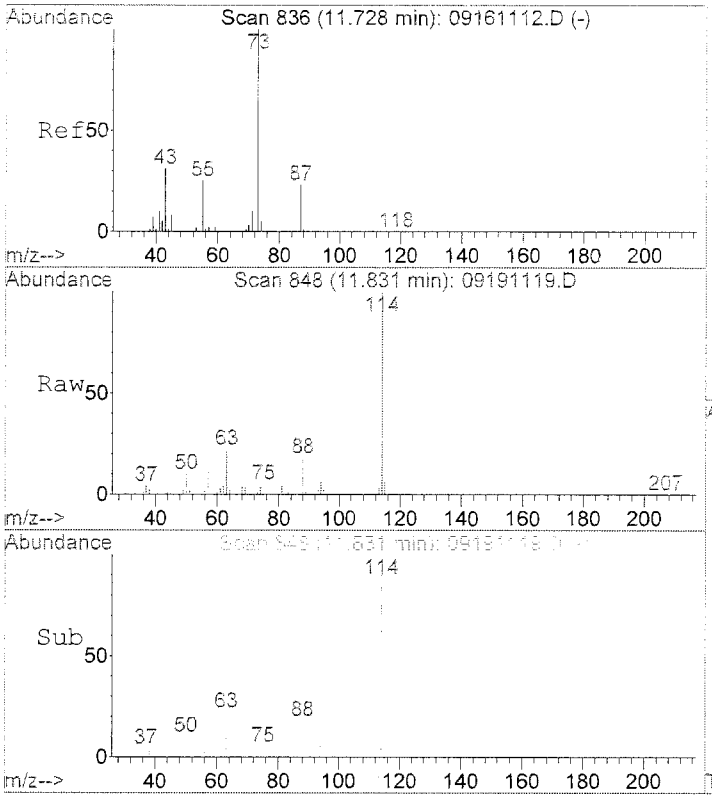


#33
Tetrahydrofuran
Concen: Below Cal
RT: 10.49 min Scan# 689
Delta R.T. 0.01 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 72 Resp: 273

Ion	Ratio	Lower	Upper
72	100		
71	61.5	71.3	111.3#
42	413.2	282.3	322.3#

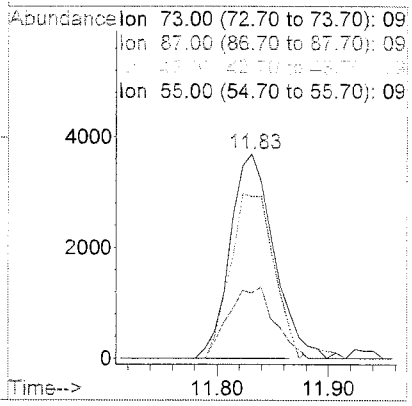




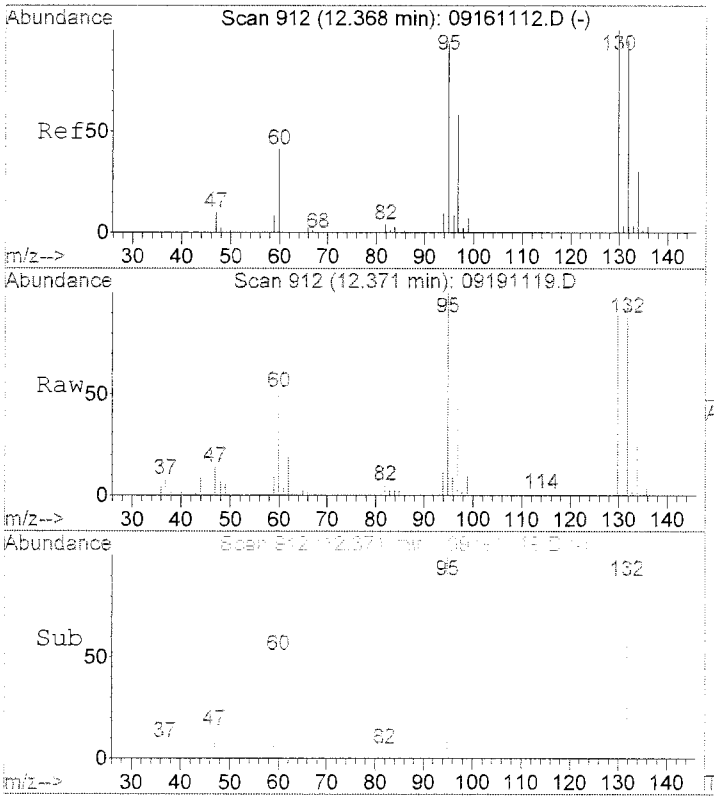
#36
(TAME) tert-Amyl methyl ether
Concen: 0.34 ug/L
RT: 11.83 min Scan# 848
Delta R.T. 0.11 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 73 Resp: 10080

Ion	Ratio	Lower	Upper
73	100		
87	81.4	1.5	41.5#
43	6.7	24.0	64.0#
55	36.5	7.5	47.5



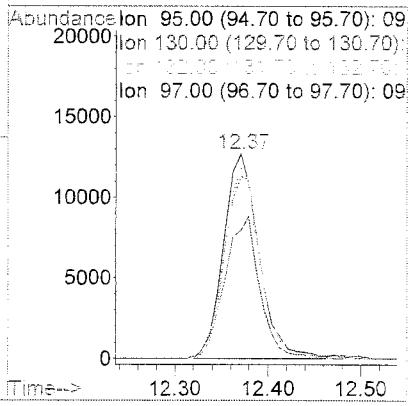
7

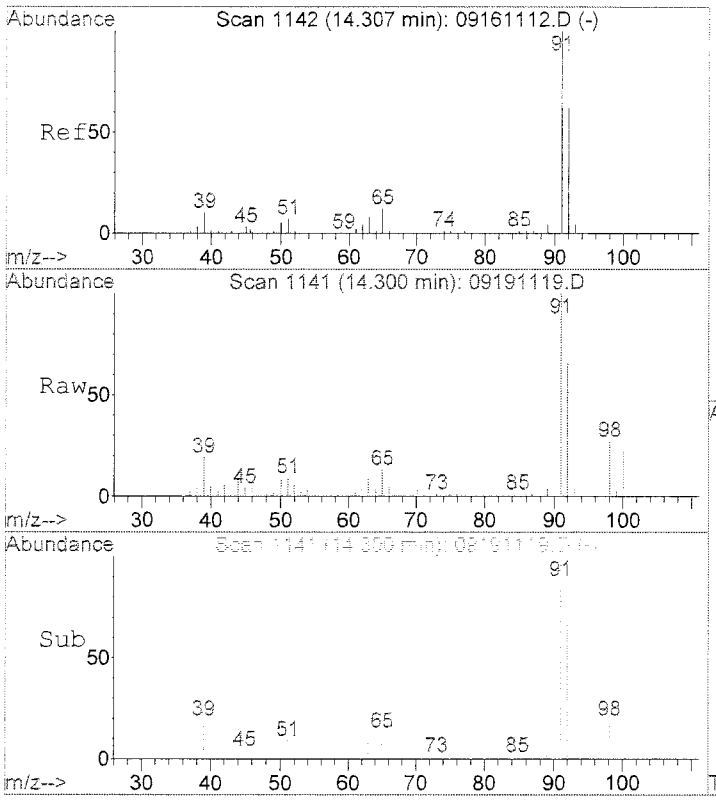


#43
Trichloroethene
Concen: 1.90 ug/L
RT: 12.37 min Scan# 912
Delta R.T. 0.00 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 95 Resp: 33776

Ion	Ratio	Lower	Upper
95	100		
130	93.0	78.3	117.5
132	91.5	75.3	112.9
97	67.6	56.6	85.0

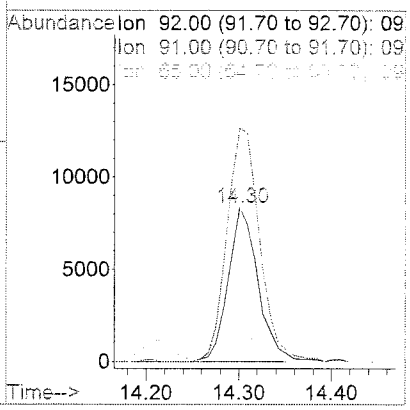


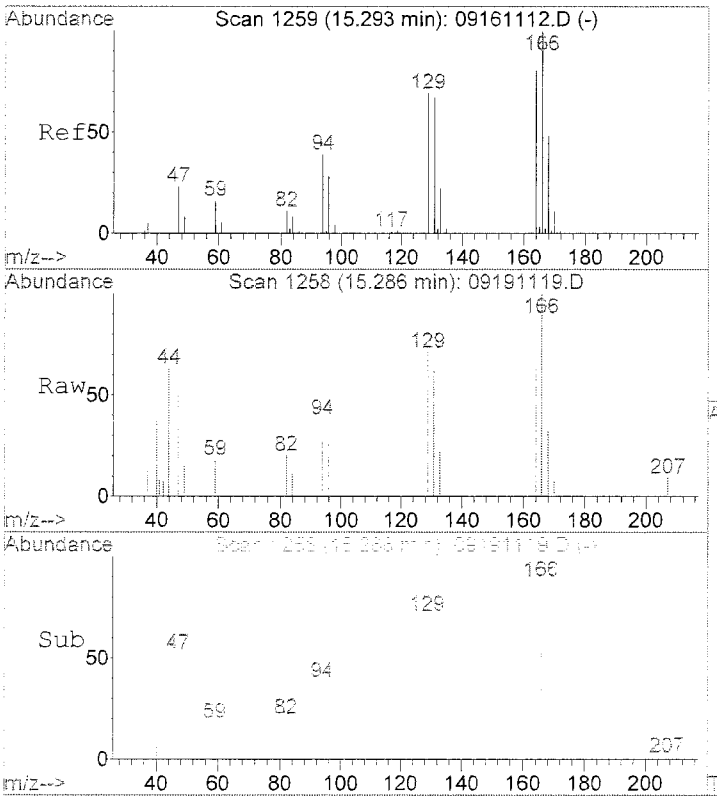


#51
Toluene
Concen: 0.50 ug/L
RT: 14.30 min Scan# 1141
Delta R.T. -0.00 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion: 92 Resp: 18741

Ion	Ratio	Lower	Upper
92	100		
91	166.0	131.6	197.4
65	20.4	18.2	27.2

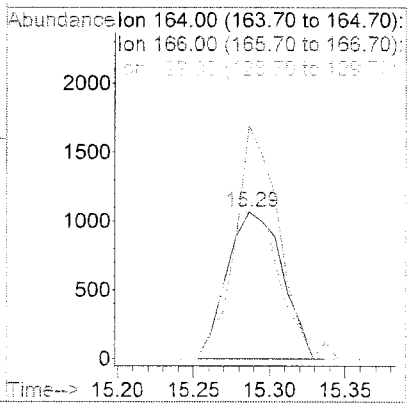


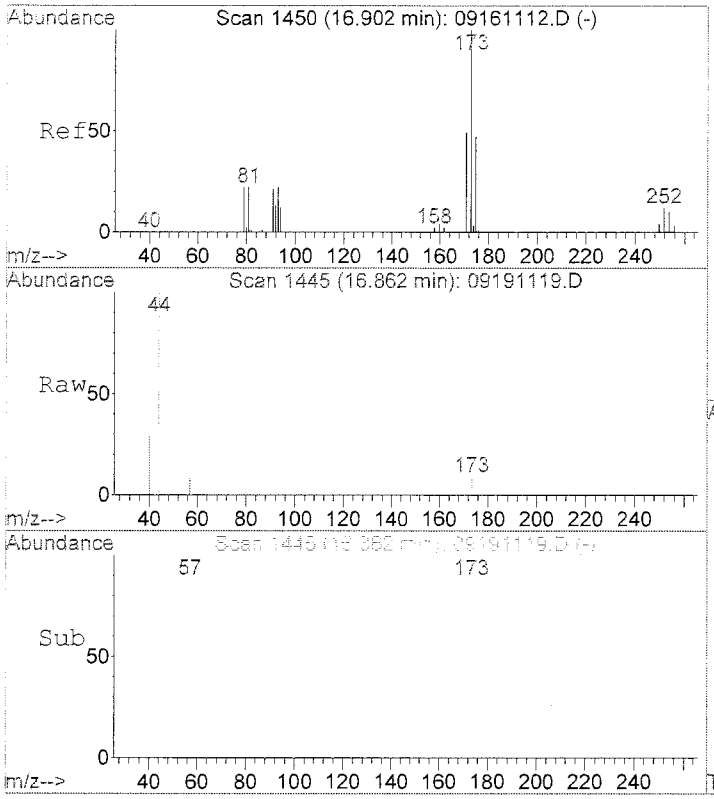


#57
Tetrachloroethene
Concen: 0.22 ug/L
RT: 15.29 min Scan# 1258
Delta R.T. -0.00 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion:164 Resp: 2684

Ion	Ratio	Lower	Upper
164	100		
166	125.8	102.5	153.7
129	95.8	76.0	114.0

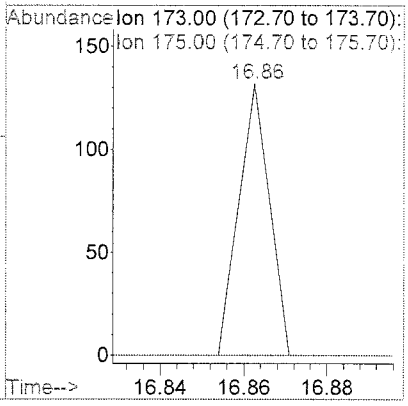




#66
Bromoform
Concen: 0.39 ug/L
RT: 16.86 min Scan# 1445
Delta R.T. -0.04 min
Lab File: 09191119.D
Acq: 19 Sep 2011 6:31 pm

Tgt Ion:173 Resp: 67

Ion	Ratio	Lower	Upper
173	100		
175	0.0	40.0	60.0#



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THE LEADER IN ENVIRONMENTAL TESTING

DIGESTION/EXTRACTION LOGS

METHOD: EPA 3520C

PREPARATION BENCH SHEET

11I0534

TestAmerica Phoenix

Printed: 9/20/2011 1:0 3PM

Matrix: Water **Prepared using: GCMS Semivolatiles - N_EPA 3520C** **Surrogate used: 1 5613**

Lab Number	C	Analysis	Prepared	Initial (ml)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
11I0534-BLK1		QC	09/15/11 16:00	1000	1						100				
11I0534-BS1		QC	09/15/11 16:00	1000	1		PU05617	200			100				
11I0534-BSD1		QC	09/15/11 16:00	1000	1		PU05617	200			100				
11I0534-MS1		QC	09/15/11 16:00	1000	1	PUI0764-02	PU05617	200			100				
11I0534-MSD1		QC	09/15/11 16:00	1000	1	PUI0764-02	PU05617	200			100				
PUI0650-01	D	N_1,4-Dioxane (SW82	09/15/11 16:00	940	1						100				
PUI0650-02	D	N_1,4-Dioxane (SW82	09/15/11 16:00	940	1						100				
PUI0763-01	B	N_1,4-Dioxane (SW82	09/15/11 16:00	1000	1						100				
PUI0763-02	A	N_1,4-Dioxane (SW82	09/15/11 16:00	50	1						100				Use 50mL of sample
PUI0763-03	B	N_1,4-Dioxane (SW82	09/15/11 16:00	940	1						100				
PUI0764-01	B	N_1,4-Dioxane (SW82	09/15/11 16:00	1000	1						100				
PUI0764-02	D	N_1,4-Dioxane (SW82	09/15/11 16:00	1000	1						100				MS/MSD
PUI0766-01	B	N_1,4-Dioxane (SW82	09/15/11 16:00	1000	1						100				
PUI0766-02	A	N_1,4-Dioxane (SW82	09/15/11 16:00	940	1						100				
PUI0766-03	B	N_1,4-Dioxane (SW82	09/15/11 16:00	1000	1						100				
PUI0766-04	A	N_1,4-Dioxane (SW82	09/15/11 16:00	1000	1						100				

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

C Acin 9/20/11
Preparation Reviewed By Date

Extracts Received By Date

TestAmerica Phoenix

☐Check box if the back of the previous page is used for additional noted, comments, or calculations. The use of other scratch paper is strictly prohibited.

Extraction Date: 9/15/11 **Liquid/Liquid Extraction Record** Test Code: 1,4Dioxane

Acid Na_2SO_4 Jar #: — Element No.: 11I0534 Analytical Method: 3520 C

Solvent/Lot No.1. DCM / K29501 2. — Final Sol.: DCM / K29501 Na_2SO_4 Lot #: ~~703517~~ DM 9-16-11 MA

Acid/Base/Lot No.1. — 2. — Na_2SO_4 Jar #: —

Surrogate: Mod 8270 Surr. Conc. 200ppm Vol: 100 µL Std. ID#: ~~PU05122~~ 9/15/11 JG PU05613 Exp ~~12/31/11~~ 3/19/12 SW KP

Spike #1: 1,4 Dioxane Conc. 100 ppm Vol: 200 µL Std. ID#: PU05617 Exp 9/14/12 9/15/11 JG SW KP

Spike #2: — Conc. — Vol: — Std. ID#: — Exp — SW —

Spike #3: — Conc. — Vol: — Std. ID#: — Exp — SW —

K-D Bath Temp °C: 72.9°, 72°, 72° N-Evap Bath Temp °C: 36°

Start Time: 1600 End Time: 1550 9-16-11 Spiked By: MA Spike Witness: KP

K-D'd by: JG E-vap'd by: JG Solvent Ex'd by: — Brought to V_f & Vialed by: DM

	Sample #	RE	Sample Frac.	pH[1]		Initial Vol/Wt (mLs/g)	Final Vol. (mLs)	K-D'd (√)	Evp'd (√)	Check IDs	Color	Sample linked at:
1	MB	NA	NA	5	NA	1L	1mL	✓	✓	NA	Clear	NA
2	LCS		NA	5		1L	1mL	✓	✓		Clear	
3	LCSD		NA	5		1L	1mL	✓	✓		Clear	
4	MS PUI0764-02		B	7		1L	1mL	✓	✓	✓	Lt yellow	
5	MSD PUI0764-02		A	7		1L	1mL	✓	✓	✓	Lt yellow	
6	RLV PUI0650-01		D	7		940mL	1mL	✓	✓	✓	Clear	
7	PUI0650-02		D	7		940mL	1mL	✓	✓	✓	Clear	
8	PUI 0763-01		B	7		1L	1mL	✓	✓	✓	Brown	
9	PUI 0763-02		A	7		50mL	1mL	✓	✓	✓	Clear	
10	PUI 0763-03		B	8		940mL	1mL	✓	✓	✓	Lt Yellow	
11	PUI 0764-01		B	7		1L	1mL	✓	✓	✓	Lt yellow	
12	PUI 0764-02		D	8		1L	1mL	✓	✓	✓	Yellow	
13	PUI 0766-01		B	8		1L	1mL	✓	✓	✓	Clear	
14	PUI 0766-02		A	8		940mL	1mL	✓	✓	✓	Clear	
15	PUI 0766-03		B	8		1L	1mL	✓	✓	✓	Clear	
16	PUI 0766-04		A	8		1L	1mL	✓	✓	✓	Lt yellow	
17												
18												
19												
20							DM 9-16-11					
21												
22												
23												
24												
25												

[1]Sample pH / Adjusted pH;

a = Acid Fraction, b = base/neutral fraction

___ Insufficient Sample for MS/MSD ✓ MS/MSD Designated ___MS/MSD Chosen ✓ Sample Container(s) Shaken & Rinsed with Solvent

Sample Extracts located in: Box# _____ Row(s) & Numbers _____ BNA Freezer ✓ SVOA's Fridge ____

Comments: Used 50 mL for PUI0763-02 due to history of high dioxanes. MA 9-15-11

Reviewer: _____ Date: _____ Incorrect Container: _____

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THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: MODIFIED EPA 8270C
(1,4-DIOXANE)

DATE: 08/09/11

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270 C	Instrument #: GCMS14
Analyst: C. Lauric	Analysis Date: 8/09/11	

Method name saved in the file: 14DIVPANE\ ~~0502H.M~~ 080911.M 9/28/11

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9), 10, 11, 12 9/28/11
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   List of the analytes:
   Why?
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Logbook Documentation SOP requirements: (Y) N

Review Signatures:	Analyst: C Lauric	Date: 8/10/11
	Reviewer: Amy L Cannon	Date: 8/10/11

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THE LEADER IN ENVIRONMENTAL TESTING

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Lauri	Batch ID# na	Date Analyzed: 8/09/11

	Description	Yes	No	NA[1]
1.	Tune 25 08/08/11			
-	DFTPP (50 ng) meets method criteria?	✓		
-	Tailing – Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	CCC 1,4-Dichlorobenzene ≤30%	✓		
-	All compounds RSD ≤20% or linear/quadratic r^2≥0.99	✓		
-	QCS recovered ± 30%	✓		
-	Date of Initial Calibration: 1,4-Dioxane 08/09/11 Instrument: C CMS 14	✓		
3.	Retention Times Updated?			
4.	CCVs all analytes recovered within 20% (includes CCC 1, 4-Dichlorobenzene)?			
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?			
-	Internal Standard RT ± 0.5 min. from 10~~ppb~~ ug/ml std. in ICAL?			
-	Internal Standard Areas -50% to 200% of 10~~ppb~~ ug/ml std. in ICAL? 08/08/11			
-	Analyte RRTs ± 0.06 from 50~~ppb~~ ug/ml std. in ICAL?			
5.	Method Blank extracted with batch?			
-	All target analytes recovered <RL?			
6.	LCS/LCSD extracted with batch?			
-	Recoveries within Laboratory Limits?			
-	RPDs ≤ Laboratory Limits?			
7.	MS/MSD extracted with batch?			
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?			
-	Samples analyzed within 40 days from extraction?			
-	Internal Standard RT ± 0.5 min. from CCV?			
-	Internal Standard Areas -50% to 200% of 10 ~~ppb~~ ug/ml std. ~~in ICAL~~ in. CCV? 08/08/11			
-	Maximum of 20 samples in batch?			
-	Surrogate recoveries within Historical Limits?			✓

Comments: PU0-2076

Review Signatures:	Analyst: C Lauri	Date: 08/10/11 8/10/11
	Reviewer: Amy L Leonard	Date: 8/10/11

[1] NA: Not Applicable

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 080911.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Aug 10 15:17:19 2011
Response Via : Initial Calibration

08/10/11

Calibration Files
1 =08091106.D 2 =08091107.D 3 =08091108.D 4 =08091109.D 5 =08091105.D 6 =08091110.D 7 =08091111.D 8 =08091112.D
9 =08091113.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	ISTD										
2)	C	1,4-Dioxane	1.026	1.108	0.998	1.025	1.056	1.007	1.011	1.006	0.941	1.020	4.42
3)	I	1,4-Dichlorobenzen...	ISTD										
4)	C*	1,4-Dichlorobe...	1.464	1.481	1.568	1.552	1.588	1.542	1.499	1.512	1.454	1.518	3.12
5)	P	N-Nitrosodi-n-...	0.402	0.401	0.384	0.731	0.927	0.979	0.972	1.026	1.067	0.765	38.21
6)	S	Nitrobenzene-d5	1.500	1.533	1.554	1.546	1.594	1.590	1.576	1.615	1.597	1.567	2.34

(#) = Out of Range

8/10/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Aug 10 15:17:19 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091106.D
2	2	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091107.D
3	3	2	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091108.D
4	4	4	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091109.D
5	5	10	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091105.D
6	6	20	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091110.D
7	7	30	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091111.D
8	8	40	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091112.D
9	9	100	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091113.D
10	CC	10	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091105.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 10 15:15 2011	Aug 09 16:22 2011	9 Aug 2011 12:49 pm
2	2	Aug 10 15:15 2011	Aug 09 16:21 2011	9 Aug 2011 1:15 pm
3	3	Aug 10 15:15 2011	Aug 09 16:23 2011	9 Aug 2011 1:41 pm
4	4	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:07 pm
5	5	Aug 10 15:16 2011	Aug 09 16:16 2011	9 Aug 2011 12:28 pm
6	6	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:33 pm
7	7	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:59 pm
8	8	Aug 10 15:15 2011	Aug 09 15:49 2011	9 Aug 2011 3:25 pm
9	9	Aug 10 15:15 2011	Aug 09 16:16 2011	9 Aug 2011 3:51 pm
10	CC	Aug 10 15:17 2011	Aug 09 16:16 2011	9 Aug 2011 12:28 pm

080911.M Wed Aug 10 15:18:25 2011 GCMS14

08/10/11

8/10/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Aug 10 15:17:19 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.422	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.469	1.019	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	5.757	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	5.775	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.104	1.060	A	1	A	B
6	S	Nitrobenzene-d5	82	6.234	1.083	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

080911.M Wed Aug 10 15:18:16 2011 GCMS14

08/10/11

8/10/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod-8270C	Instrument #: C CMS14
Analyst: C. Laurie	Analysis Date: 8/09/11	

Method name saved in the file: 14 Q1\Dxane\ 080911 → 080911 A

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2. Did the calibration curve pass the method criteria? Y N
3. Were any points of the curve removed or replaced? Y N
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? Y N
   If yes, what points were removed or replaced: lowest middle highest
   List of the analytes:
   Why?
5. Circle the calibration model used (you may circle one or more)
   - ☐ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Logbook Documentation SOP requirements: Y N

no changes update IC only + spectra

Review Signatures:	Analyst: C Laurie	Date: 9/12/11
	Reviewer: Jessica Brunner	Date: 09/15/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

update to A
due to RT shift
09.12-11

Calibration Files
1 =08091106.D 2 =08091107.D 3 =08091108.D 4 =08091109.D 5 =08091105.D 6 =08091110.D 7 =08091111.D 8 =08091112.D
9 =08091113.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	ISTD										
2)	C	1,4-Dioxane	1.026	1.108	0.998	1.025	1.056	1.007	1.011	1.006	0.941	1.020	4.42
3)	I	1,4-Dichlorobenzen...	ISTD										
4)	C*	1,4-Dichlorobe...	1.464	1.481	1.568	1.552	1.588	1.542	1.499	1.512	1.454	1.518	3.12
5)	P	N-Nitrosodi-n-...	0.402	0.401	0.384	0.731	0.927	0.979	0.972	1.026	1.067	0.765	38.21
6)	S	Nitrobenzene-d5	1.500	1.533	1.554	1.546	1.594	1.590	1.576	1.615	1.597	1.567	2.34

(#) = Out of Range

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091106.D
2	2	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091107.D
3	3	2	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091108.D
4	4	4	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091109.D
5	5	10	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091105.D
6	6	20	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091110.D
7	7	30	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091111.D
8	8	40	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091112.D
9	9	100	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091113.D
10	CC	10	20.2	D:\msdchem\1\GCMS14\DATA\091211\09121107.D - used to update on 9 12-11

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 10 15:15 2011	Aug 09 16:22 2011	9 Aug 2011 12:49 pm
2	2	Aug 10 15:15 2011	Aug 09 16:21 2011	9 Aug 2011 1:15 pm
3	3	Aug 10 15:15 2011	Aug 09 16:23 2011	9 Aug 2011 1:41 pm
4	4	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:07 pm
5	5	Aug 10 15:16 2011	Aug 09 16:16 2011	9 Aug 2011 12:28 pm
6	6	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:33 pm
7	7	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:59 pm
8	8	Aug 10 15:15 2011	Aug 09 15:49 2011	9 Aug 2011 3:25 pm
9	9	Aug 10 15:15 2011	Aug 09 16:16 2011	9 Aug 2011 3:51 pm
10	CC	Sep 12 13:18 2011	Sep 12 13:18 2011	12 Sep 2011 12:58 pm

080911A.M Mon Sep 12 13:19:36 2011 GCMS14

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.216	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.257	1.019	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	5.698	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	5.716	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.045	1.061	A	1	A	B
6	S	Nitrobenzene-d5	82	6.169	1.083	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

080911A.M Mon Sep 12 13:19:50 2011 GCMS14

9-12-11

Sample Name 10ug/mL14dio pu04539
Data File Name 08091105.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 12:28
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.m	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.422					
	1,4-Dioxane	2.469	1.019	1.019	0.419	1.619	**PASS**
IS	1,4-Dichlorobenzene-d4	5.757					
	1,4-Dichlorobenzene	5.775	1.003	1.003	0.403	1.603	**PASS**
	N-Nitrosodi-n-propylamine	6.104	1.060	1.060	0.46	1.66	**PASS**
	Nitrobenzene-d5	6.234	1.083	1.083	0.483	1.683	**PASS**

new update
a 8-10-11

8/10/11

Sample Name 10ug/mL14dio pu04539
Data File Name 08091105.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 12:28
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.M	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.422					
	1,4-Dioxane	2.469	1.019	1.019	* 0.959	* 1.079	**PASS**
IS	1,4-Dichlorobenzene-d4	5.757					
	1,4-Dichlorobenzene	5.775	1.003	1.003	0.943	1.063	**PASS**
	N-Nitrosodi-n-propylamine	6.104	1.060	1.060	1	1.12	**PASS**
	Nitrobenzene-d5	6.234	1.083	1.083	1.023	1.143	**PASS**

* correct value for − 0.06 + + 0.06 } 09-21-11

Sample Name 10ug/mL14dio pu04539
Data File Name 08091105.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 12:28
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

Internal Standard	CCV RESPONSE	080911.m MID-POINT RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	343235	343235	171617.5	686470	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.757	5.757	5.257	6.257	PASS

new update oct-1 '11

8/10/11

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥080911.s
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥080911¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
(X) On Mismatch, Don't Inject
( ) Barcode Disabled

8/18/11

Line			Sample Name/Misc Info
1)	Sample	1	08091101 DB5MS14 dcm
2)	Sample	2	08091102 DB5MS14 dcm
3)	Sample	3	08091103 DB5MS14 25ng TUNE pu04169
4)	Sample	4	08091104 DIOXANE PRIMER
5)	Sample	5	08091105 DIOXANE 10ug/mL14dio pu04539
6)	Sample	6	08091106 DIOXANE 0.5ug/mL IC pu02514
7)	Sample	7	08091107 DIOXANE 1.0ug/mL IC pu02515
8)	Sample	8	08091108 DIOXANE 2.0ug/mL IC pu02516
9)	Sample	9	08091109 DIOXANE 4.0 ug/mL IC pu02517
10)	Sample	10	08091110 DIOXANE 20 ug/mL IC pu02519
11)	Sample	11	08091111 DIOXANE 30ug/mL IC pu02520
12)	Sample	12	08091112 DIOXANE 40ug/mL IC pu02521
13)	Sample	13	08091113 DIOXANE 100 ug/mL IC pu02522
14)	Sample	14	08091114 DIOXANE qcs 10 ug/mL pu04541
15)	Sample	15	08091115 DIOXANE ccv 10 ug/mL pu04539
16)	Sample	16	08091116 DIOXANE 11H0189-BLK1
17)	Sample	17	08091117 DIOXANE 11H0189-BS1
18)	Sample	18	08091118 DIOXANE 11H0189-BSD1
19)	Sample	19	08091119 DIOXANE PUG1913-16RE1

a 8/18/11

Sequence Reviewed By: a Date: 8-18-11

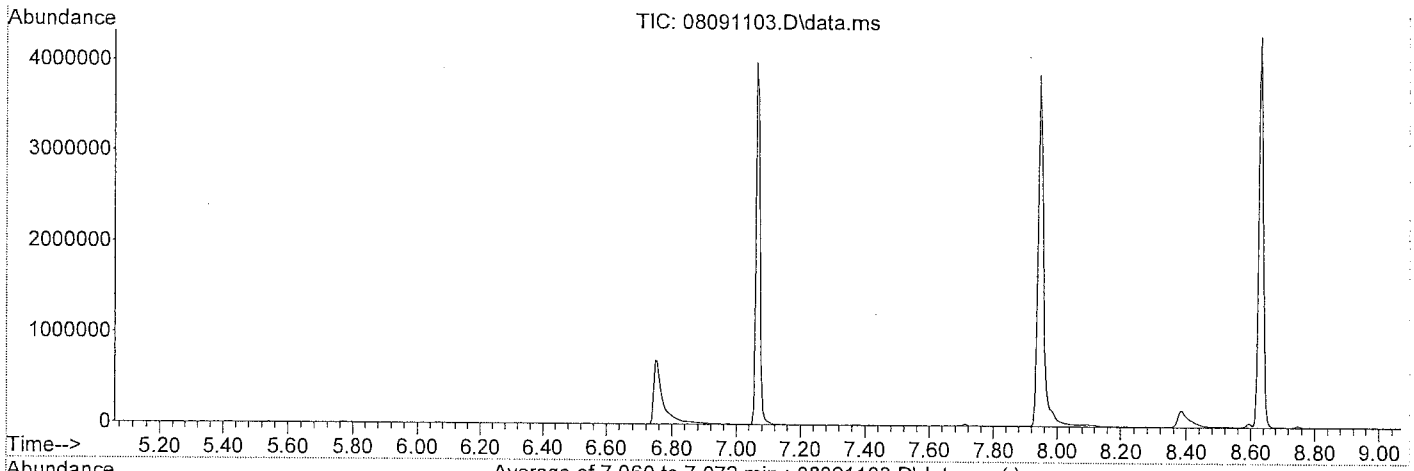
Date Analyzed: 8-18-11 Analyst: a Date Run: 8/09/11

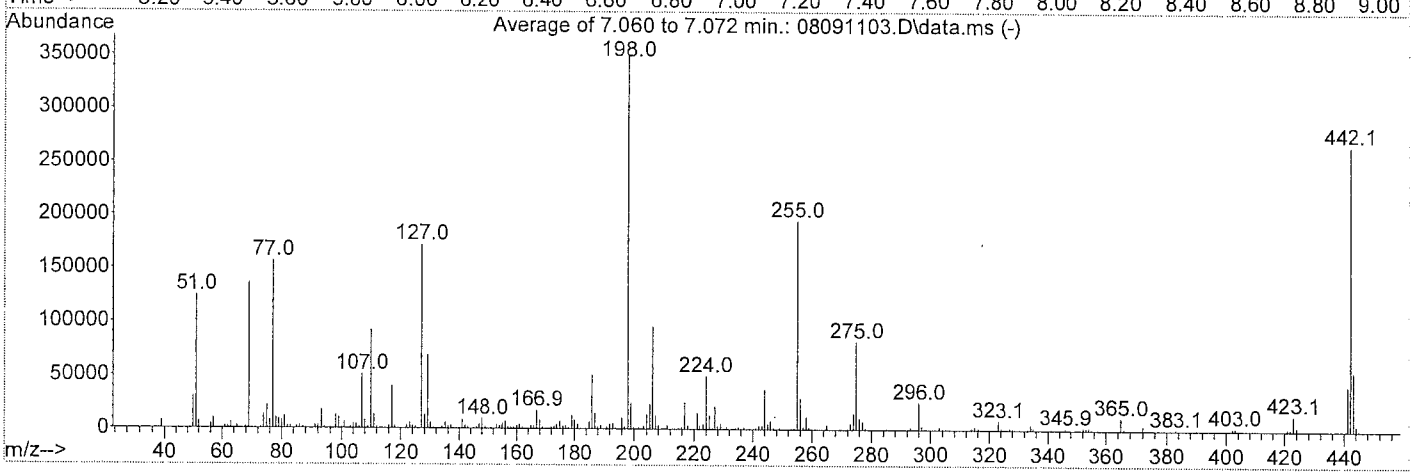
DFTPP

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥080911¥
Data File : 08091103.D
Acq On : 9 Aug 2011 11:38 am
Operator : CL
Sample : 25ng TUNE pu04169
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Fri Jul 15 15:45:04 2011





AutoFind: Scans 956, 957, 958; Background Corrected with Scan 951

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.5	124096	PASS
68	69	0.00	2	1.4	1845	PASS
69	198	0.00	100	38.8	135547	PASS
70	69	0.00	2	0.5	667	PASS
127	198	40	60	49.0	171459	PASS
197	198	0.00	1	0.5	1771	PASS
198	198	100	100	100.0	349739	PASS
199	198	5	9	6.8	23875	PASS
275	198	10	30	23.3	81629	PASS
365	198	1	100	3.3	11372	PASS
441	443	0.01	100	76.3	41487	PASS
442	198	40	100	76.1	266211	PASS
443	442	17	23	20.4	54362	PASS

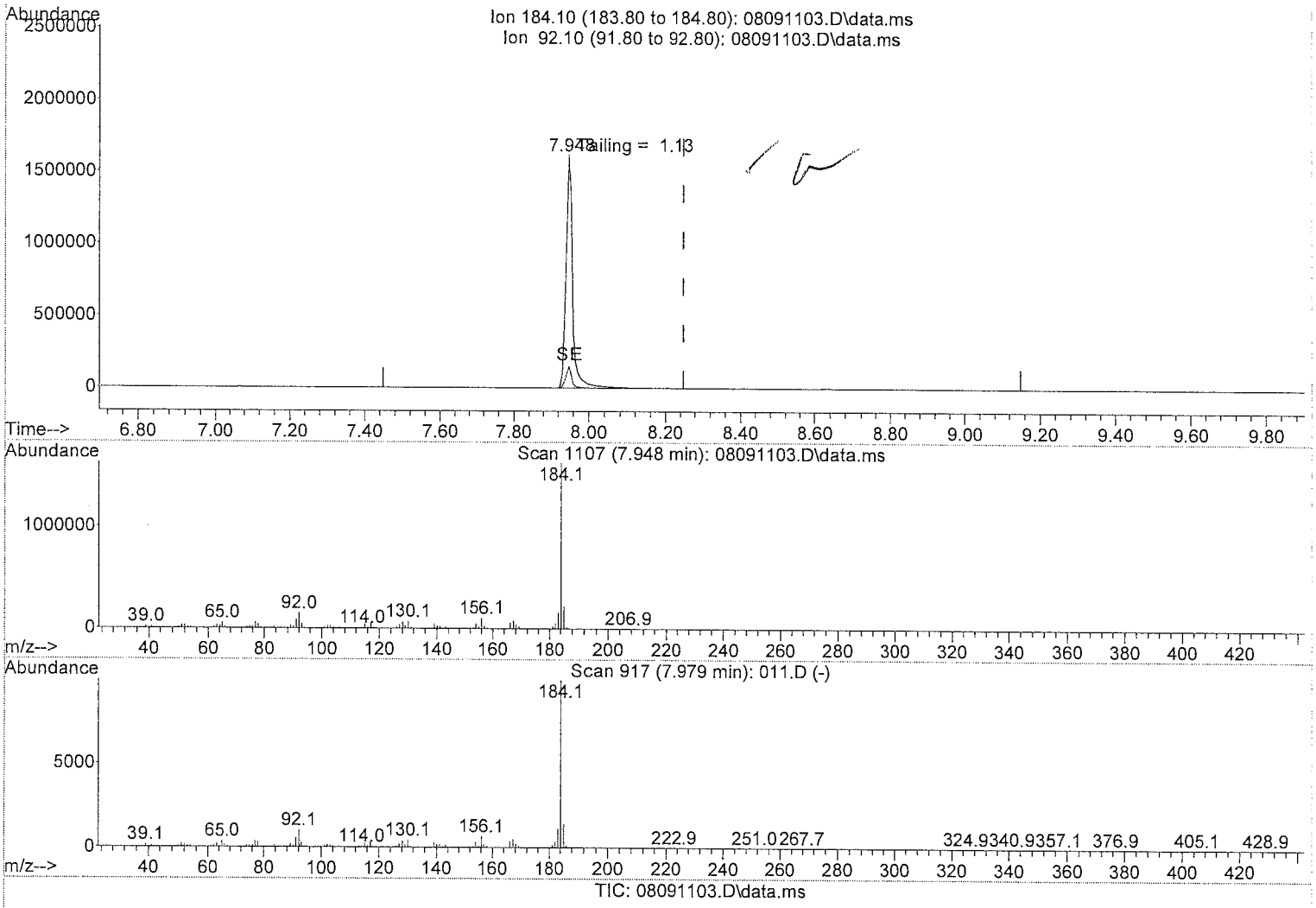
8-10-11

8/10/11

Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥080911¥
Data File : 08091103.D
Acq On : 9 Aug 2011 11:38 am
Operator : CL
Sample : 25ng TUNE pu04169
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 15:58:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Fri Jul 15 15:45:04 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥071511¥07151105.D



(2) Benzidine

7.948min (-0.300) 25.50

response 2002674

Ion	Exp%	Act%
184.10	100.00	100.00
92.10	10.20	8.58
0.00	0.00	0.00
0.00	0.00	0.00

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091105.D
Acq On : 9 Aug 2011 12:28 pm
Operator : CL
Sample : 10ug/mL14dio pu04539 Lev 5 08/10/11
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:16:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.422	96	284246	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.757	152	343235	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.234	82	547144	8.56 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.469	88	150118	9.68 ug/mL	97
4) 1,4-Dichlorobenzene	5.775	146	545205	9.14 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.104	70	318189	7.20 ug/mL	100

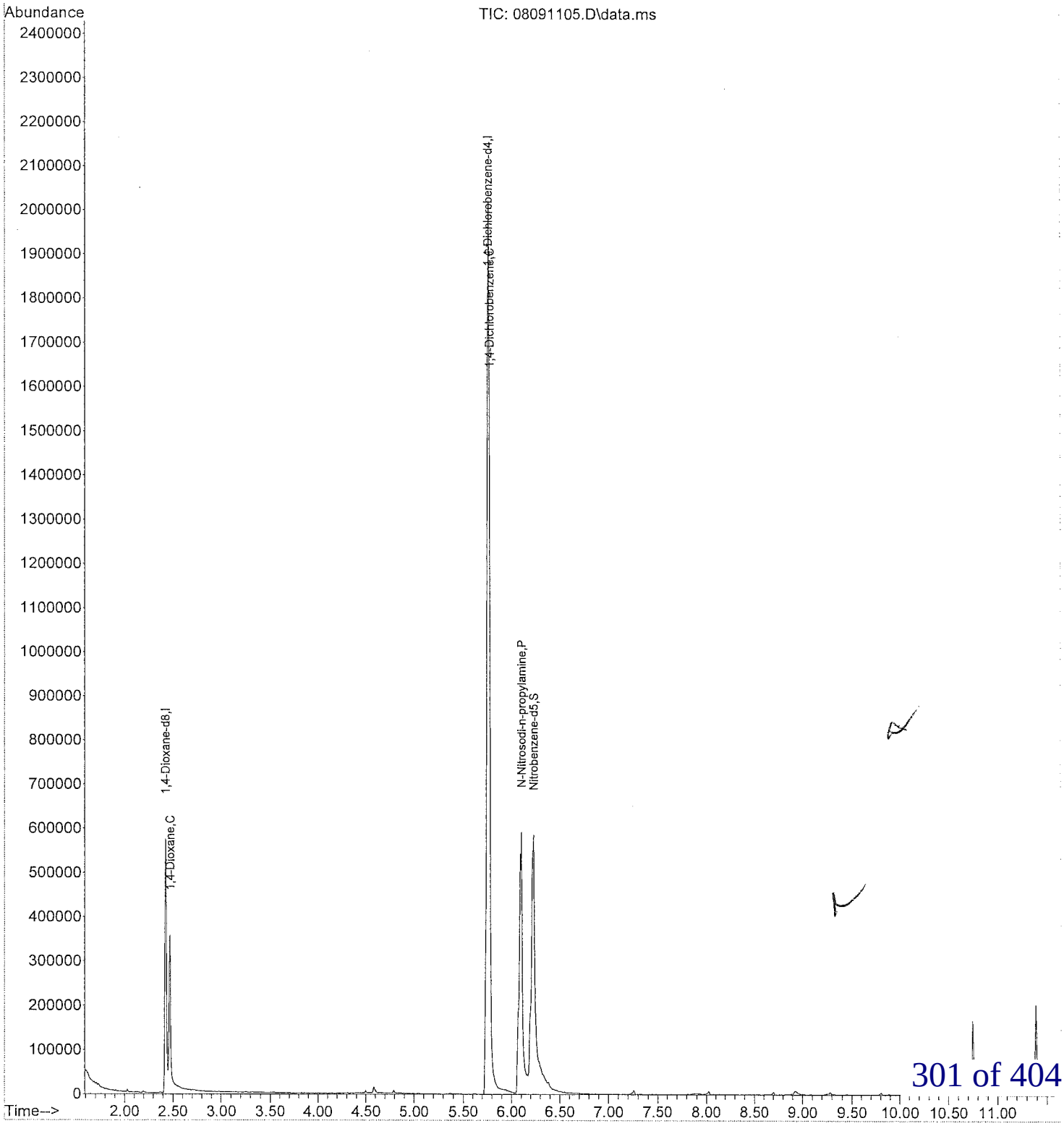
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091105.D
Acq On : 9 Aug 2011 12:28 pm
Operator : CL
Sample : 10ug/mL14dio pu04539
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:16:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 09 16:22:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.422	96	255987	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.757	152	348172	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	26119m	0.40 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.463	88	6568	0.47 ug/mL	98
4) 1,4-Dichlorobenzene	5.769	146	25491	0.42 ug/mL	91
5) N-Nitrosodi-n-propylamine	6.098	70	7000	0.16 ug/mL	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

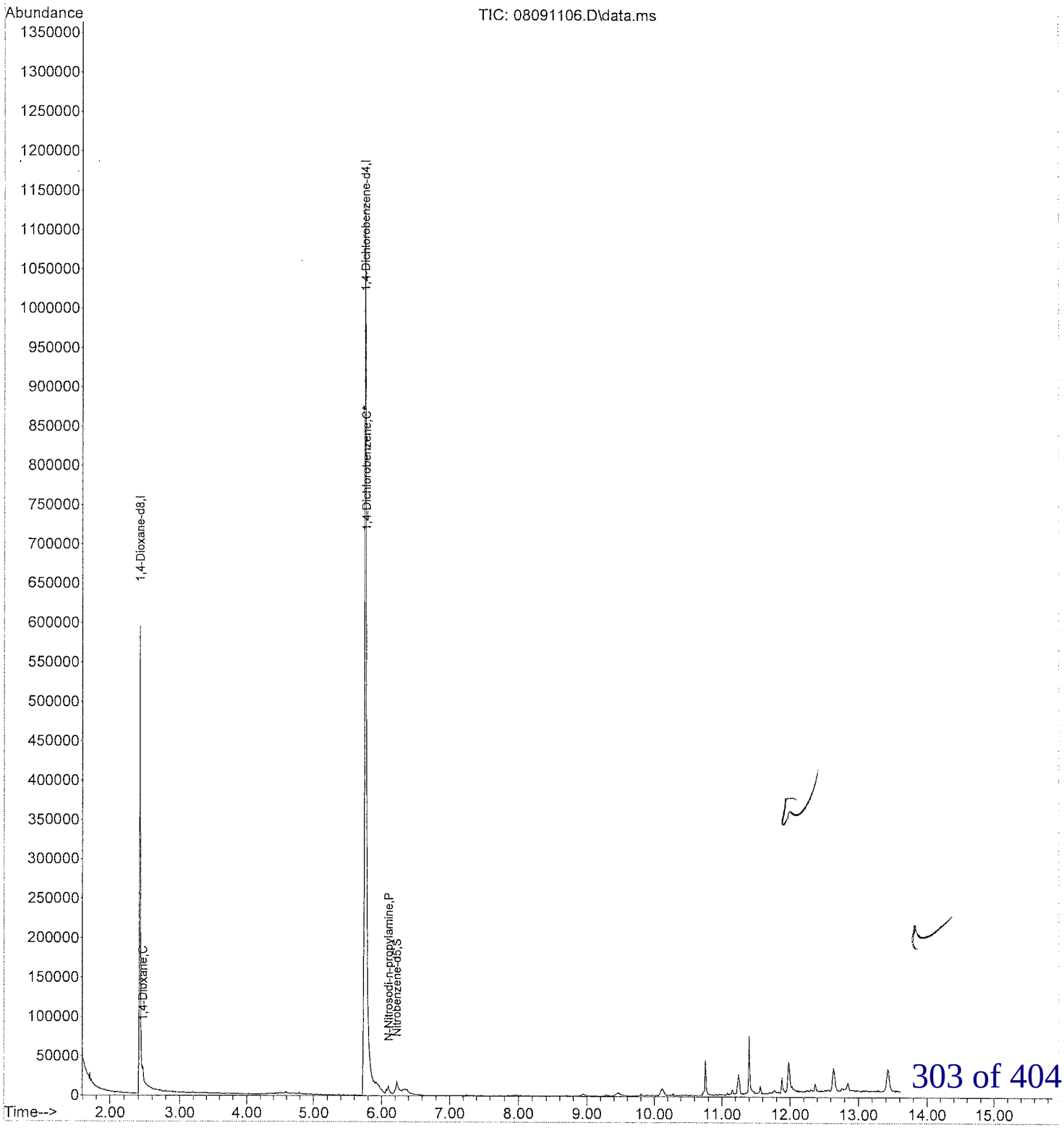
8-10-11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

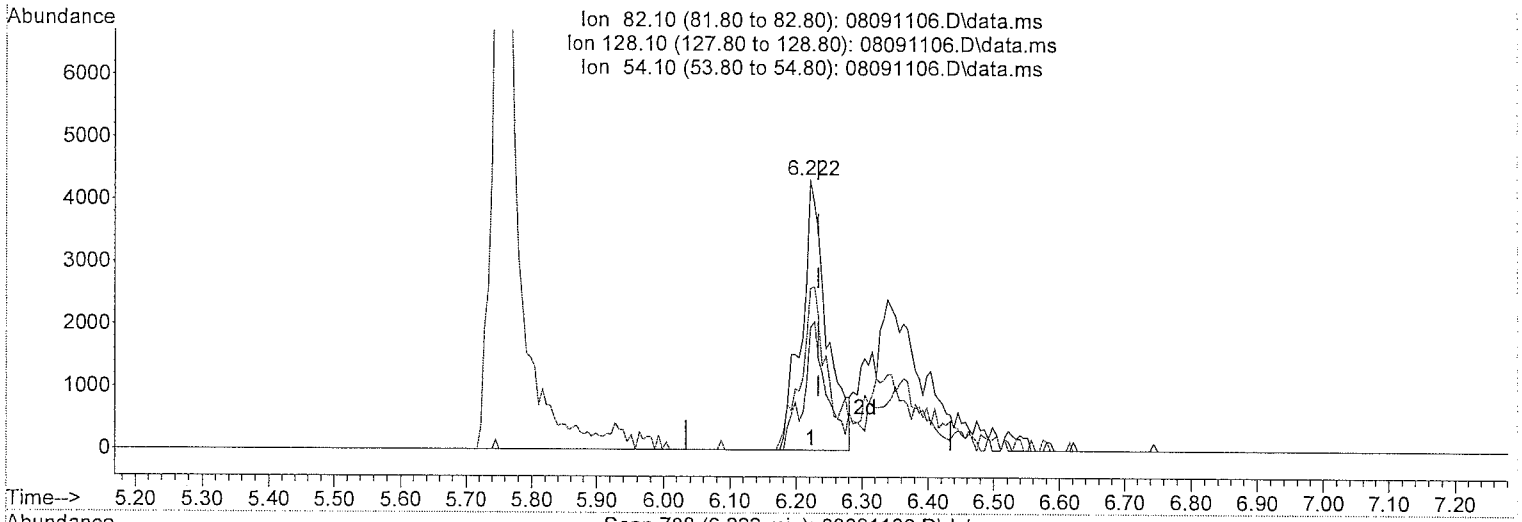
Quant Time: Aug 09 16:22:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

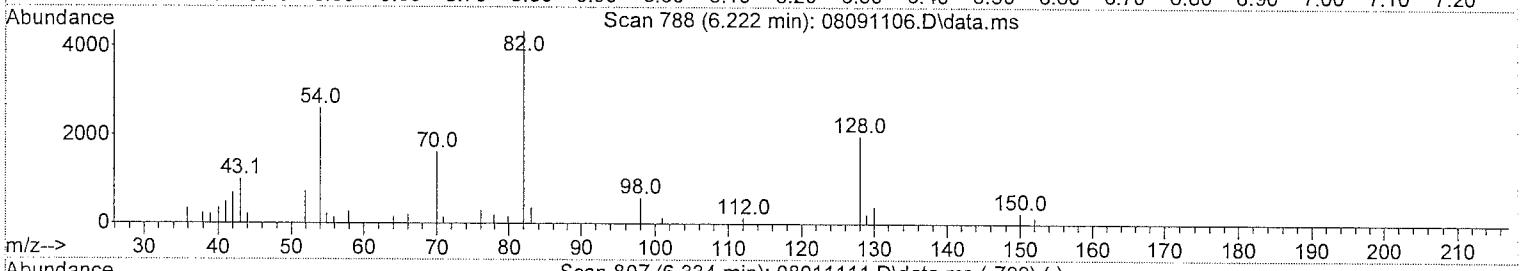


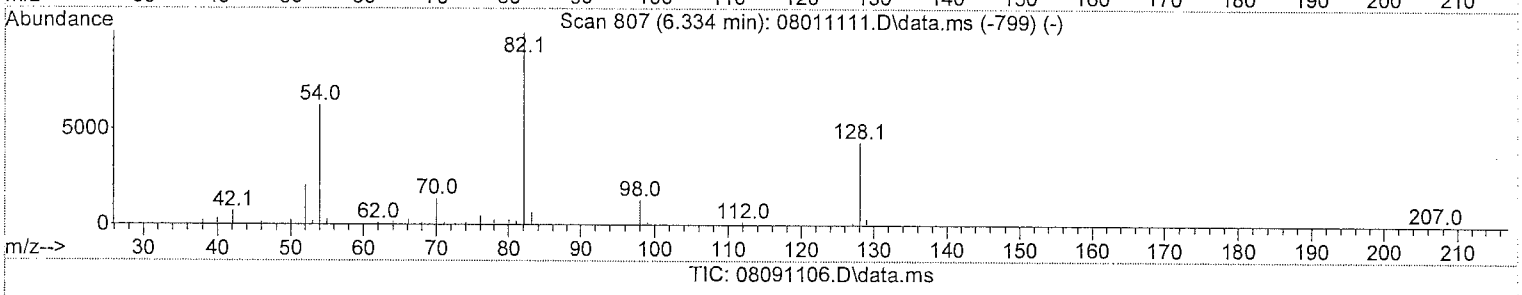
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 09 15:48:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091106.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.18 ug/mL

response 11624

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	30.50
54.10	55.70	58.04
0.00	0.00	0.00

S

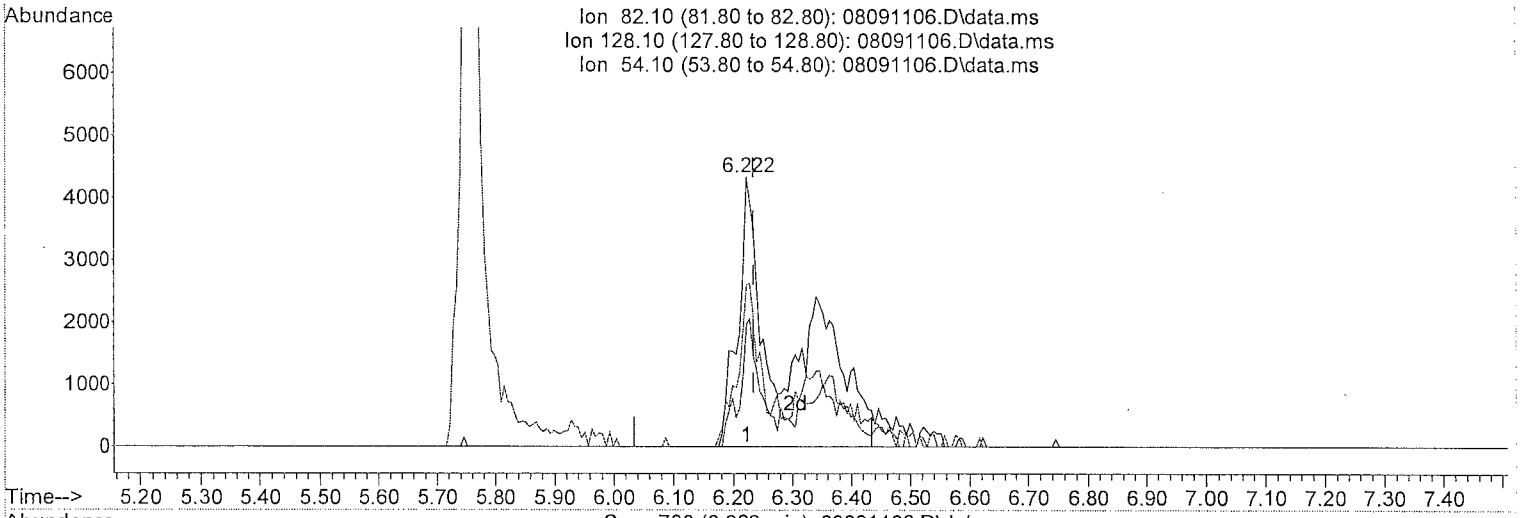
B
08-10-11

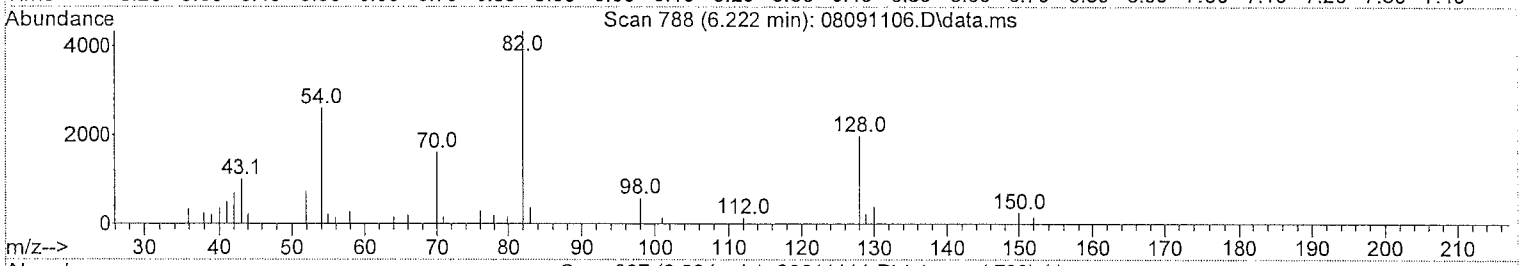
8/10/11

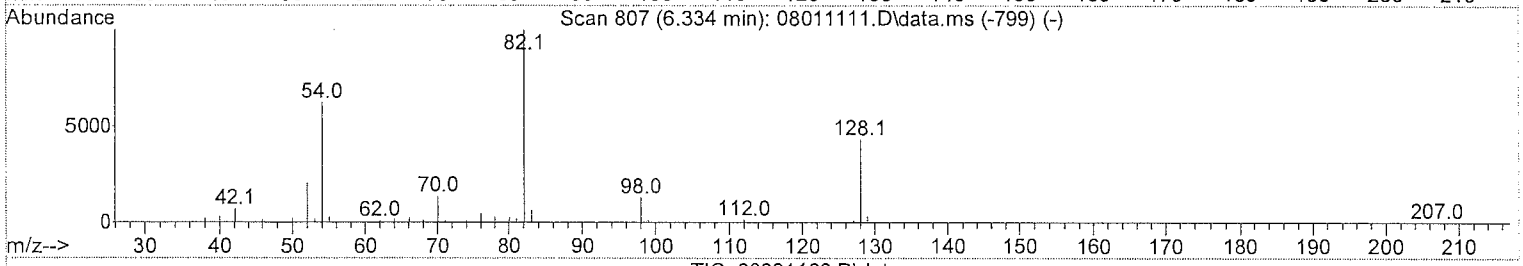
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 09 15:48:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091106.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.40 ug/mL m

response 26119

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	39.76
54.10	55.70	57.80
0.00	0.00	0.00

A

08-10-11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 16:21:42 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.404	96	248581	20.00 ug/mL	-0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	339617	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	52080m	0.82 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.451	88	13767	1.01 ug/mL	95
4) 1,4-Dichlorobenzene	5.769	146	50282	0.85 ug/mL	93
5) N-Nitrosodi-n-propylamine	6.092	70	13629	0.31 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

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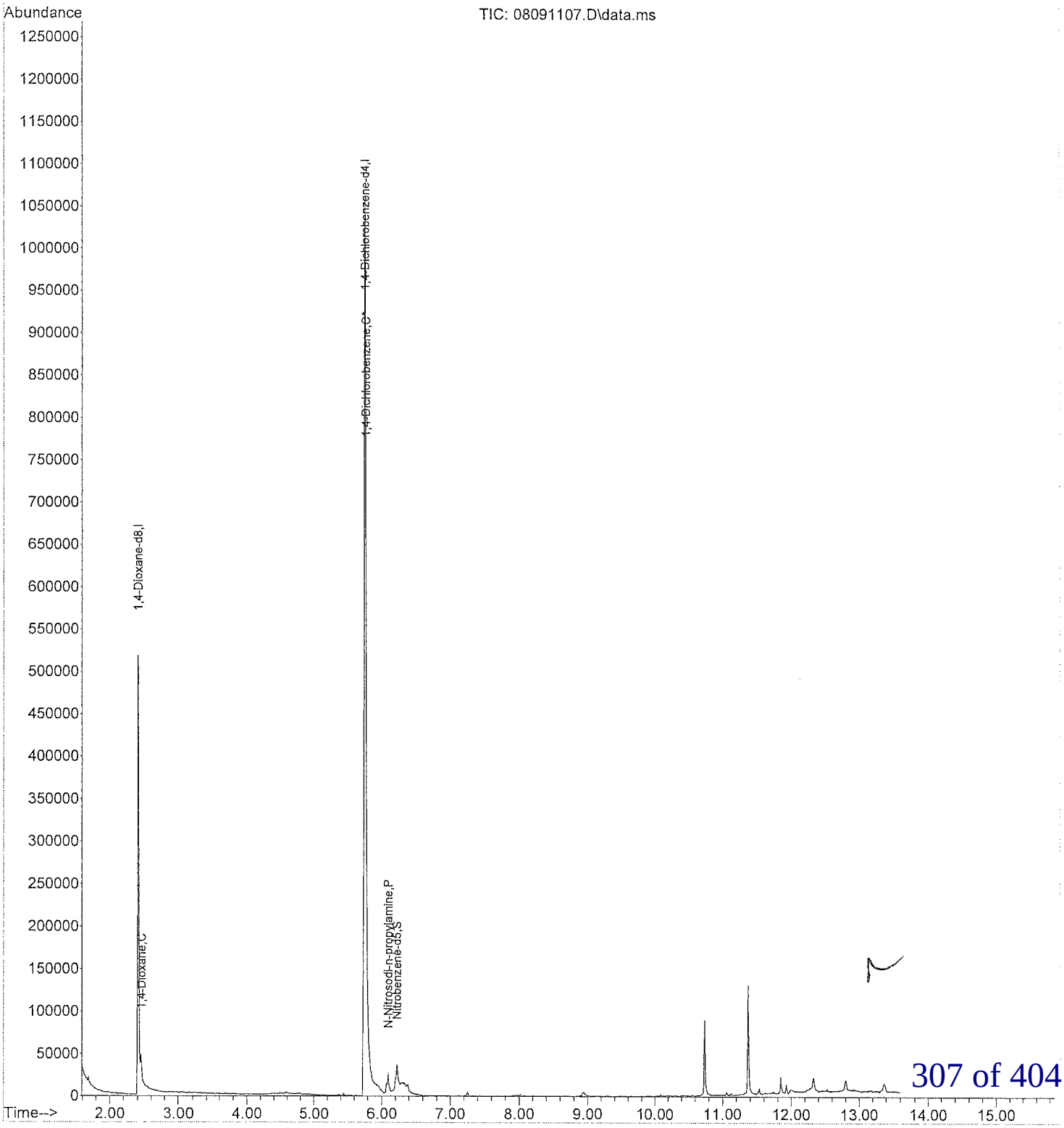
Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

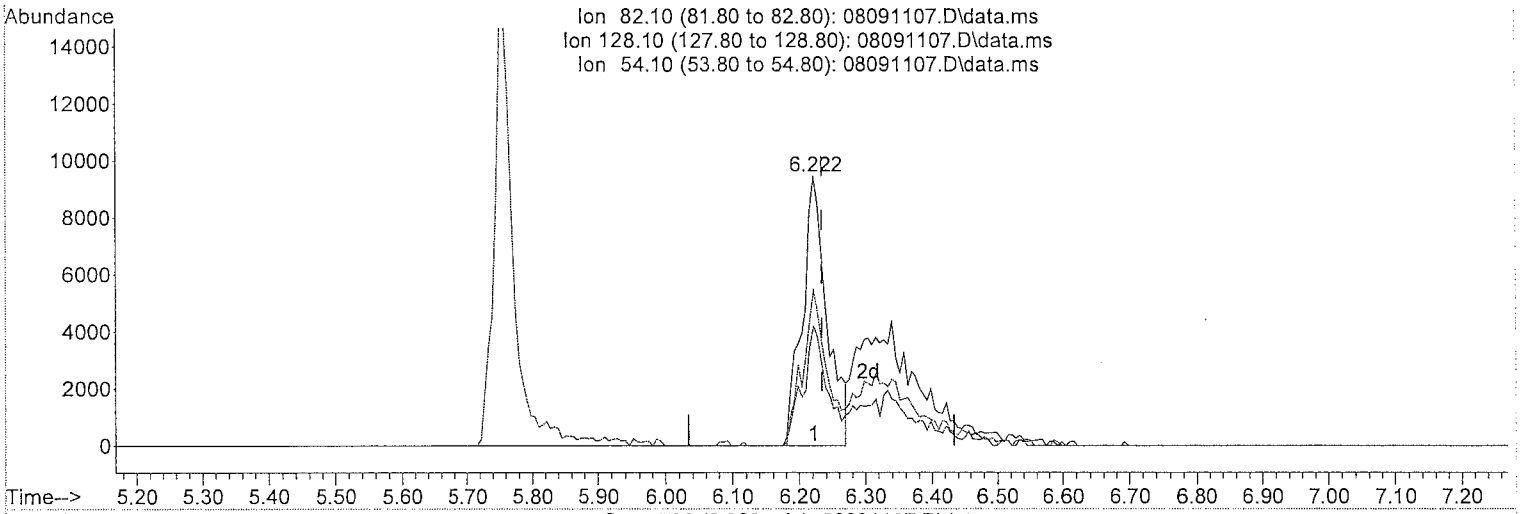
Quant Time: Aug 09 16:21:42 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

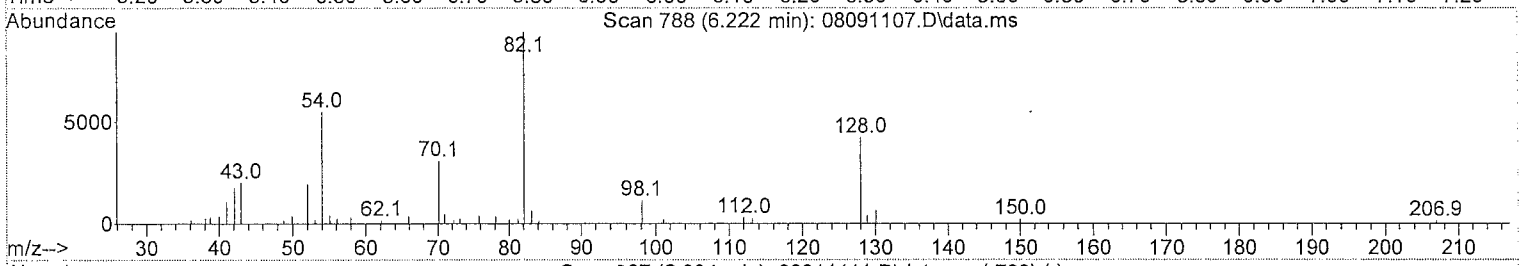


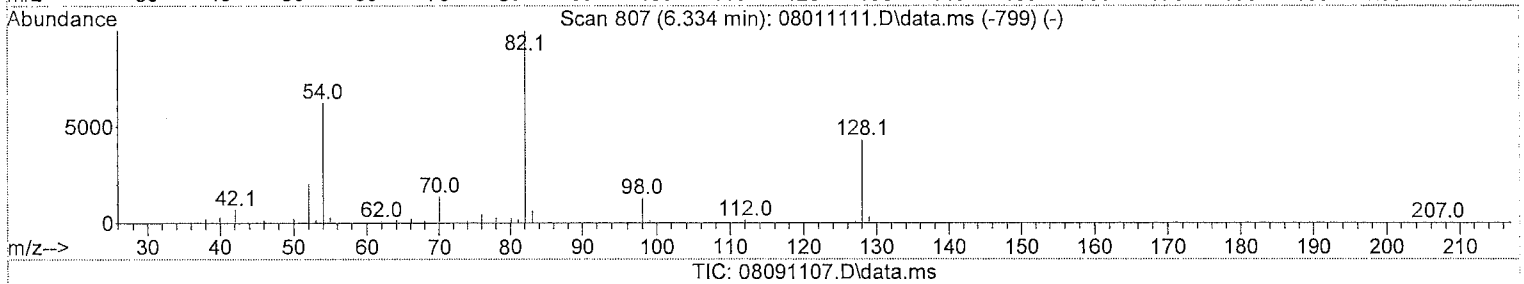
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 15:48:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091107.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.38 ug/mL

response 24251

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	43.13
54.10	55.70	55.39
0.00	0.00	0.00

S

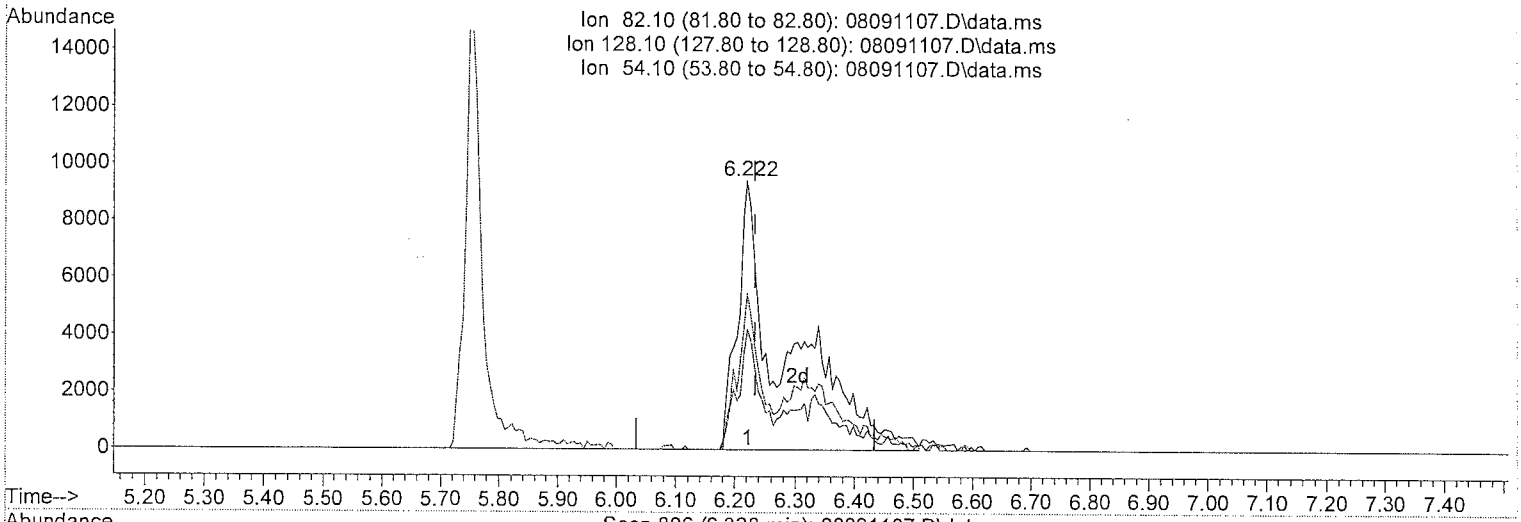
8/10/11

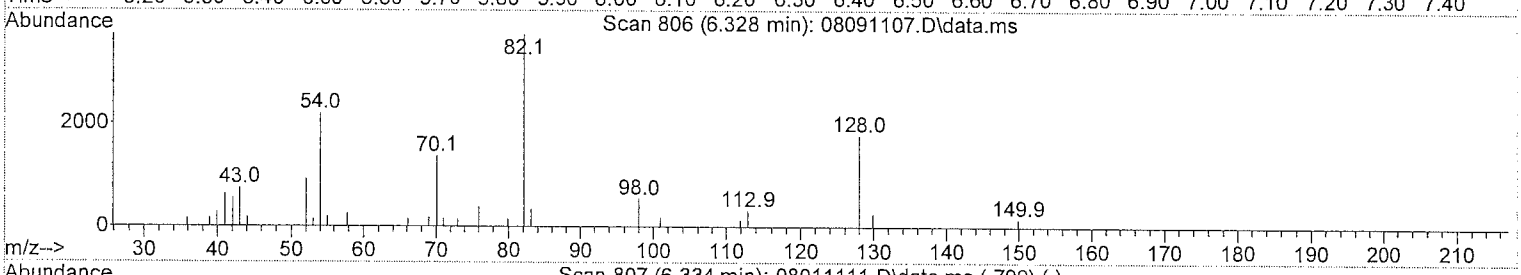
8/10/11

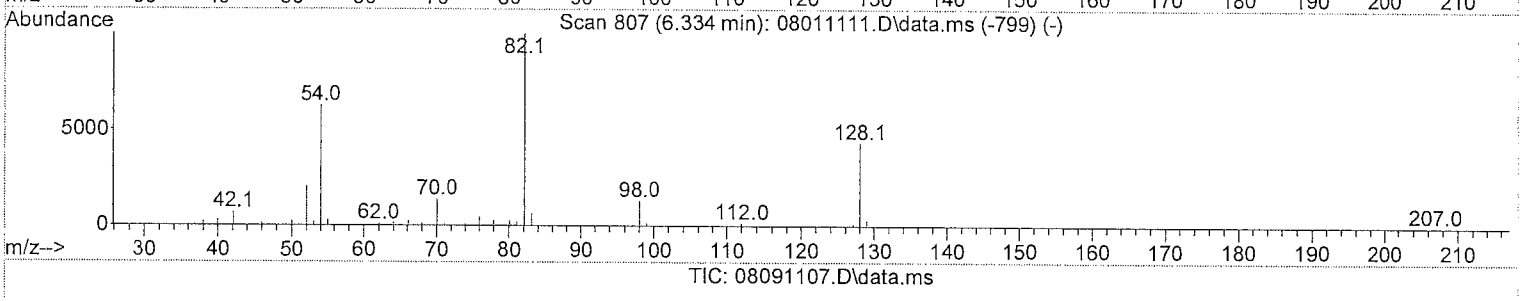
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 15:48:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091107.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.82 ug/mL m

response 52080

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	43.02
54.10	55.70	57.68
0.00	0.00	0.00

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Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 16:23:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.387	96	229872	20.00 ug/mL	-0.04
3) 1,4-Dichlorobenzene-d4	5.757	152	321473	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	99886m	1.67 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.428	88	22933	1.83 ug/mL	96
4) 1,4-Dichlorobenzene	5.769	146	100836	1.81 ug/mL	96
5) N-Nitrosodi-n-propylamine	6.093	70	24678	0.60 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

a 8-10-11

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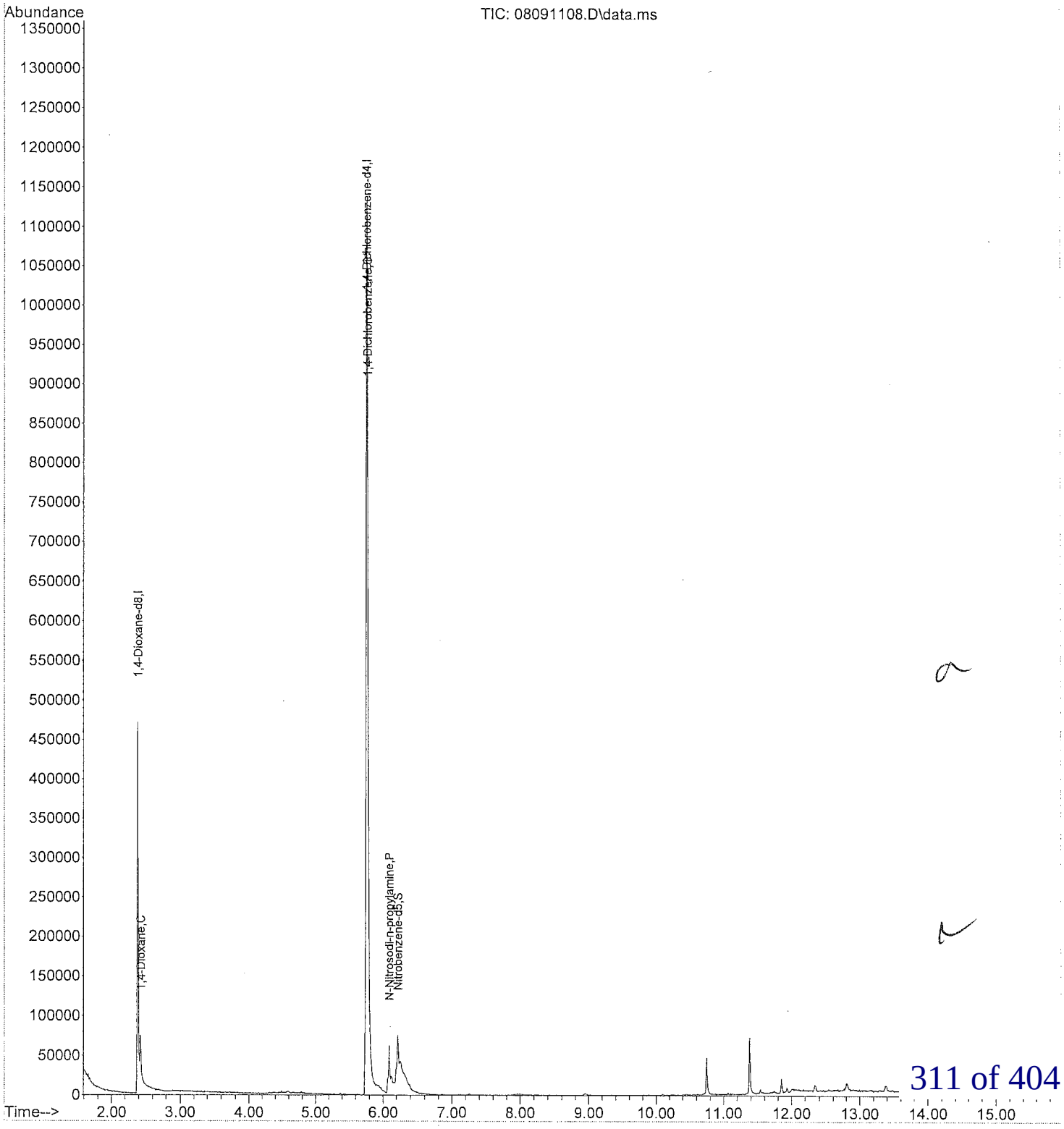
Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

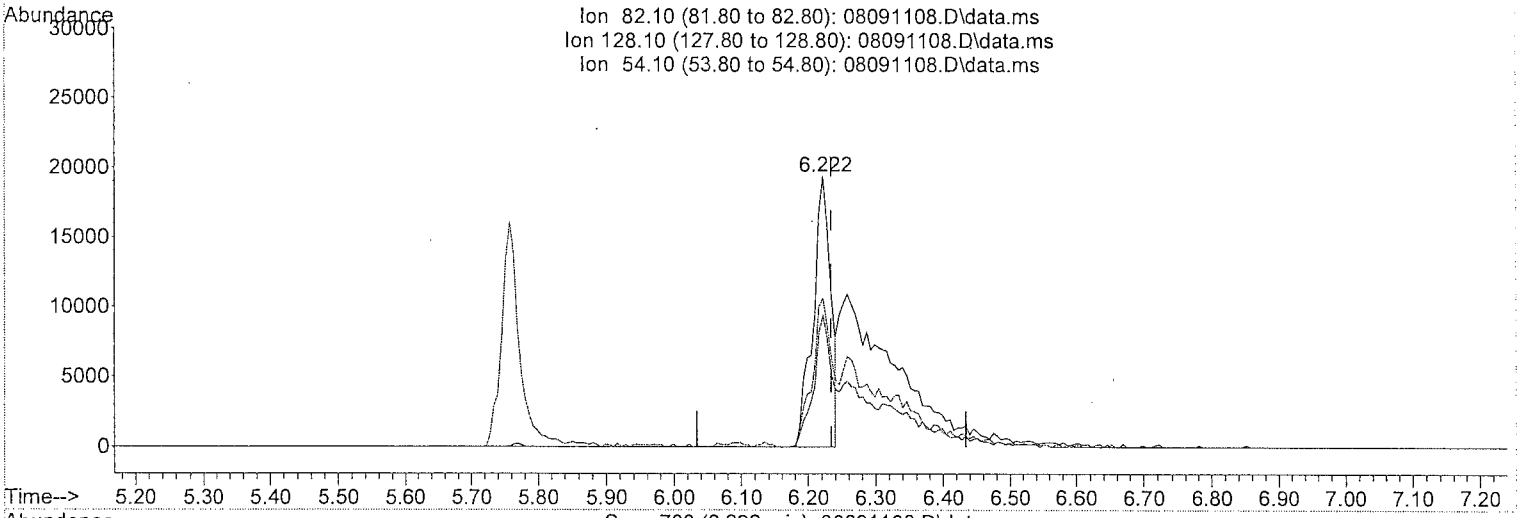
Quant Time: Aug 09 16:23:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

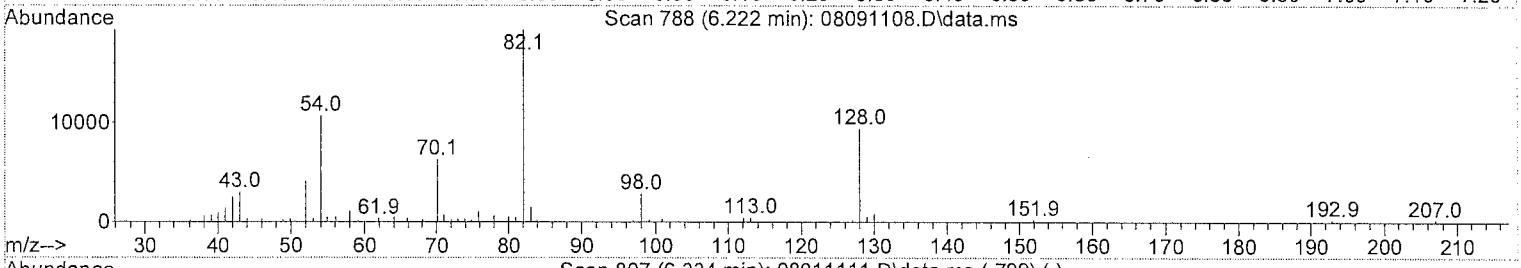


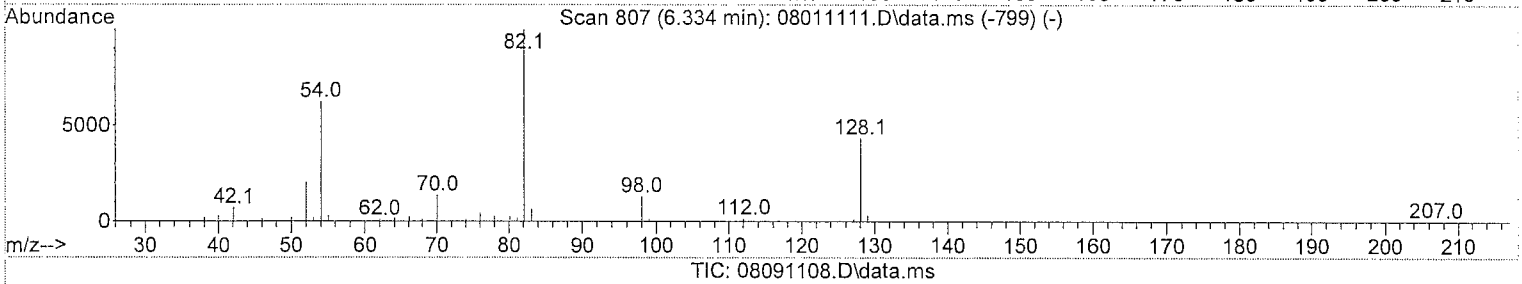
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 15:48:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091108.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.59 ug/mL

response 35163

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	51.88
54.10	55.70	62.97
0.00	0.00	0.00

S

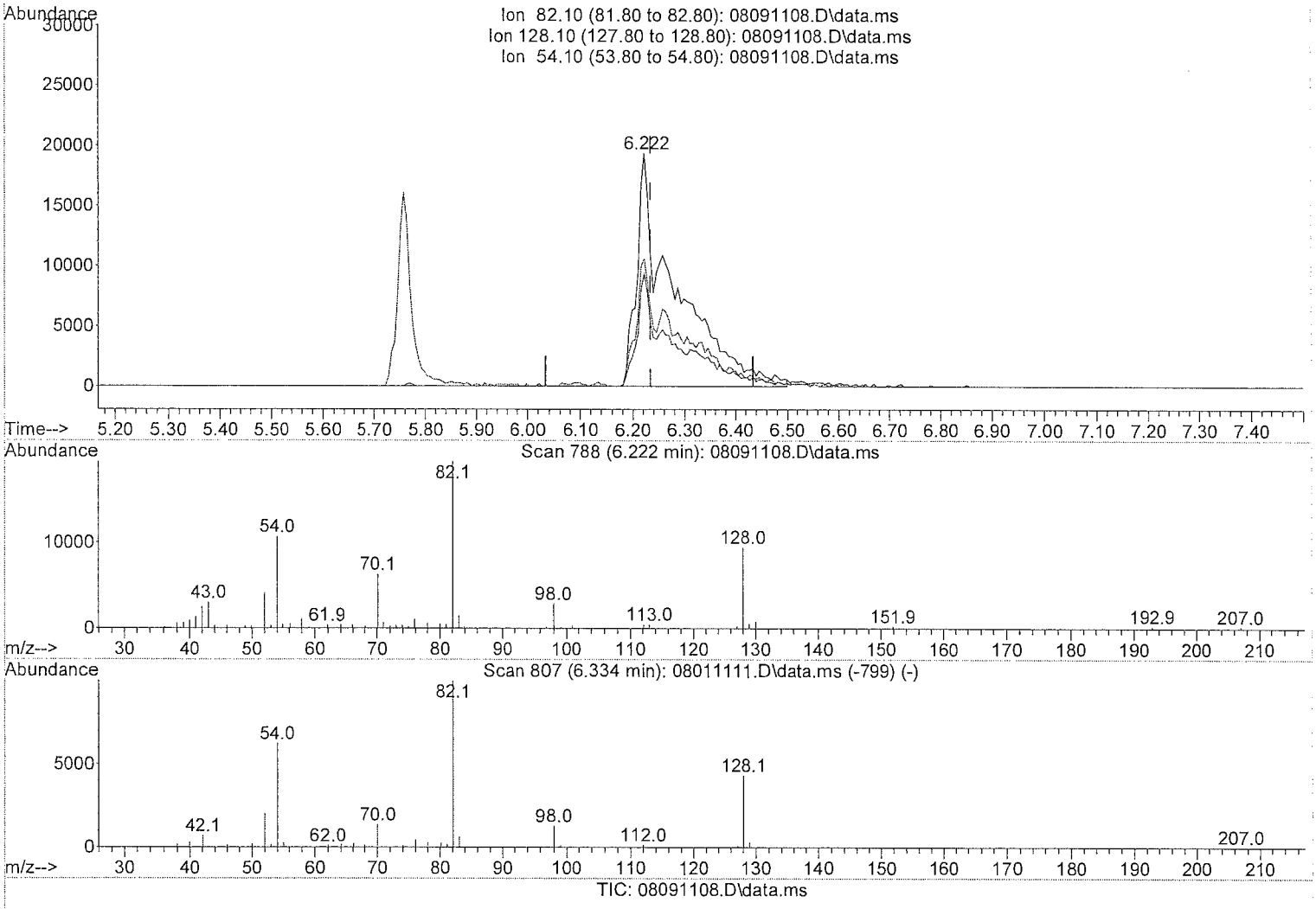
B/ as-10-11

8/10/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 15:48:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 1.67 ug/mL m

response 99886

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	45.54
54.10	55.70	56.99
0.00	0.00	0.00

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Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091109.D
Acq On : 9 Aug 2011 2:07 pm
Operator : CL
Sample : 4.0 ug/mL IC pu02517
Misc :
ALS Vial : 9 Sample Multiplier: 1

8/10/11

Quant Time: Aug 09 15:48:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.445	96	230174	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	313311	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	193696	3.32 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.487	88	47170	3.76 ug/mL	94
4) 1,4-Dichlorobenzene	5.775	146	194532	3.57 ug/mL	97
5) N-Nitrosodi-n-propylamine	6.092	70	91585	2.27 ug/mL	97

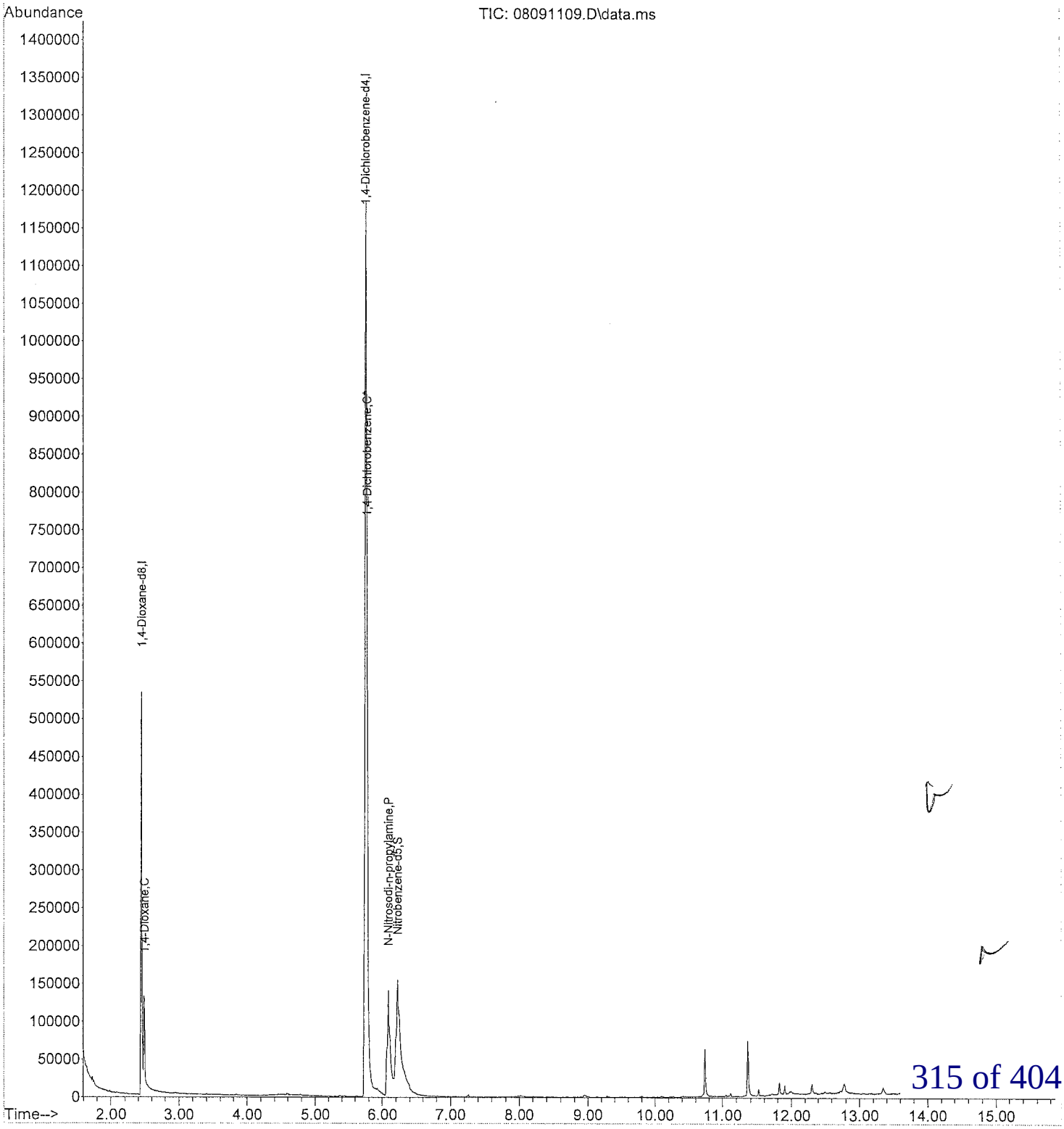
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091109.D
Acq On : 9 Aug 2011 2:07 pm
Operator : CL
Sample : 4.0 ug/mL IC pu02517
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 15:48:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

08/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091110.D
Acq On : 9 Aug 2011 2:33 pm
Operator : CL
Sample : 20 ug/mL IC pu02519
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 15:48:50 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.405	96	260729	20.00 ug/mL	-0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	327090	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.234	82	1040063	17.07 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.452	88	262518	18.45 ug/mL	97
4) 1,4-Dichlorobenzene	5.775	146	1008735	17.75 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.104	70	640262	15.20 ug/mL	98

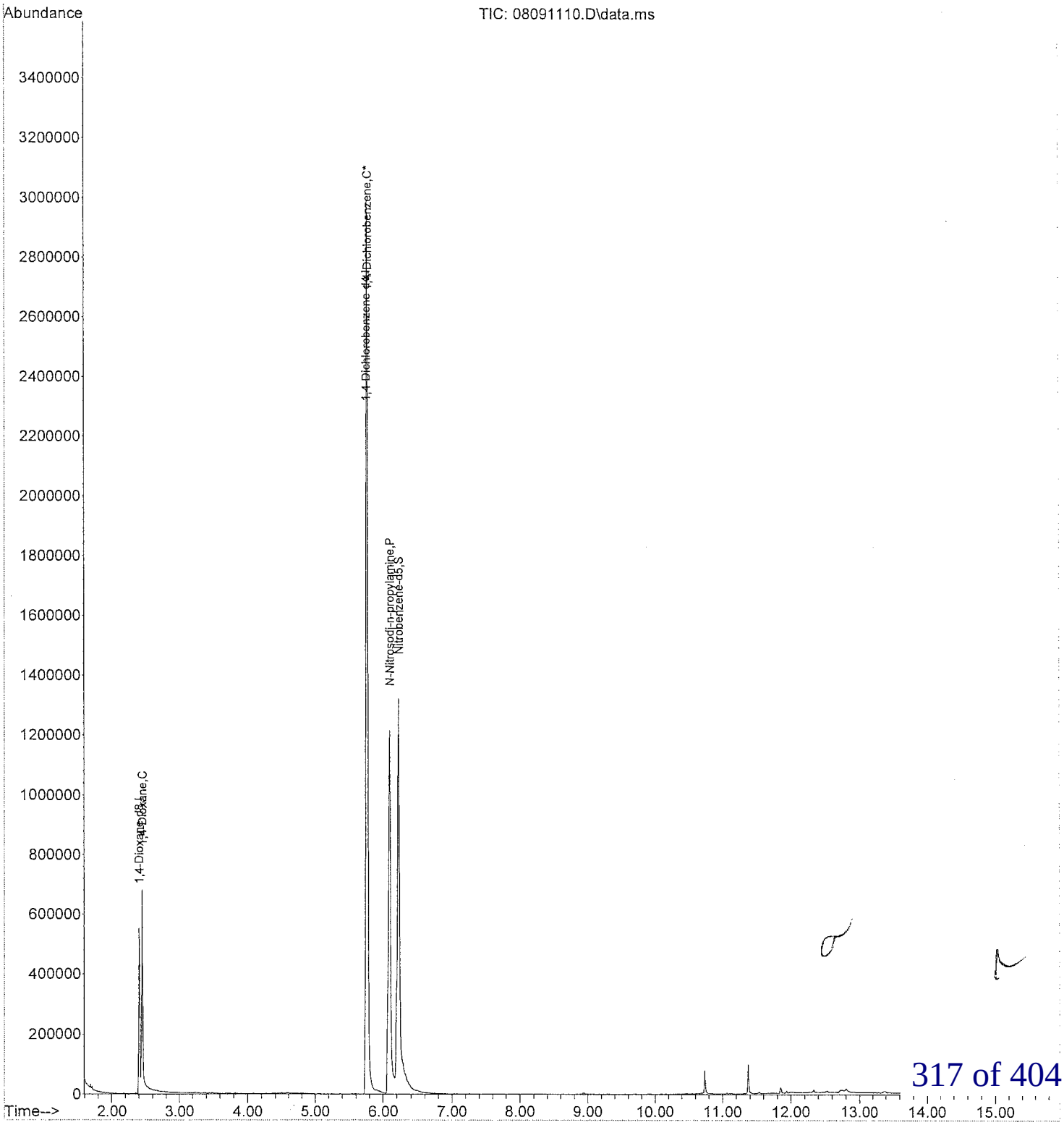
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091110.D
Acq On : 9 Aug 2011 2:33 pm
Operator : CL
Sample : 20 ug/mL IC pu02519
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 15:48:50 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091111.D
Acq On : 9 Aug 2011 2:59 pm
Operator : CL
Sample : 30ug/mL IC pu02520
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 15:48:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

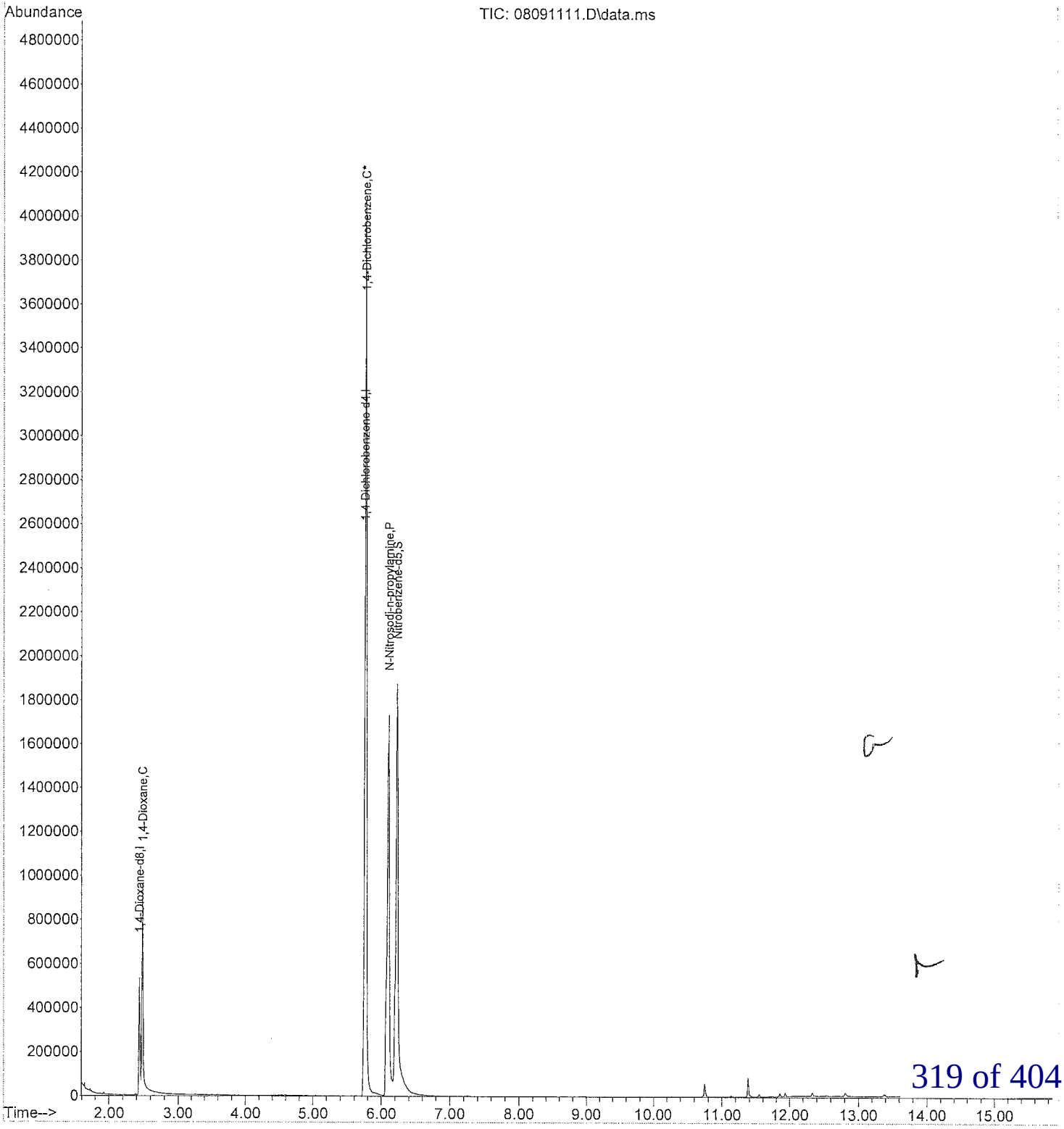
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.440	96	271327	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	317233	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.234	82	1499406	25.38 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.487	88	411576	27.80 ug/mL	98
4) 1,4-Dichlorobenzene	5.775	146	1427021	25.89 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.110	70	925266	22.65 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091111.D
Acq On : 9 Aug 2011 2:59 pm
Operator : CL
Sample : 30ug/mL IC pu02520
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 15:48:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

08/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091112.D
Acq On : 9 Aug 2011 3:25 pm
Operator : CL
Sample : 40ug/mL IC pu02521
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 15:49:02 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.393	96	271773	20.00 ug/mL	-0.03
3) 1,4-Dichlorobenzene-d4	5.763	152	314172	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.240	82	2029771	34.69 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.446	88	546831	36.87 ug/mL	99
4) 1,4-Dichlorobenzene	5.775	146	1899778	34.80 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.110	70	1289134	31.87 ug/mL	97

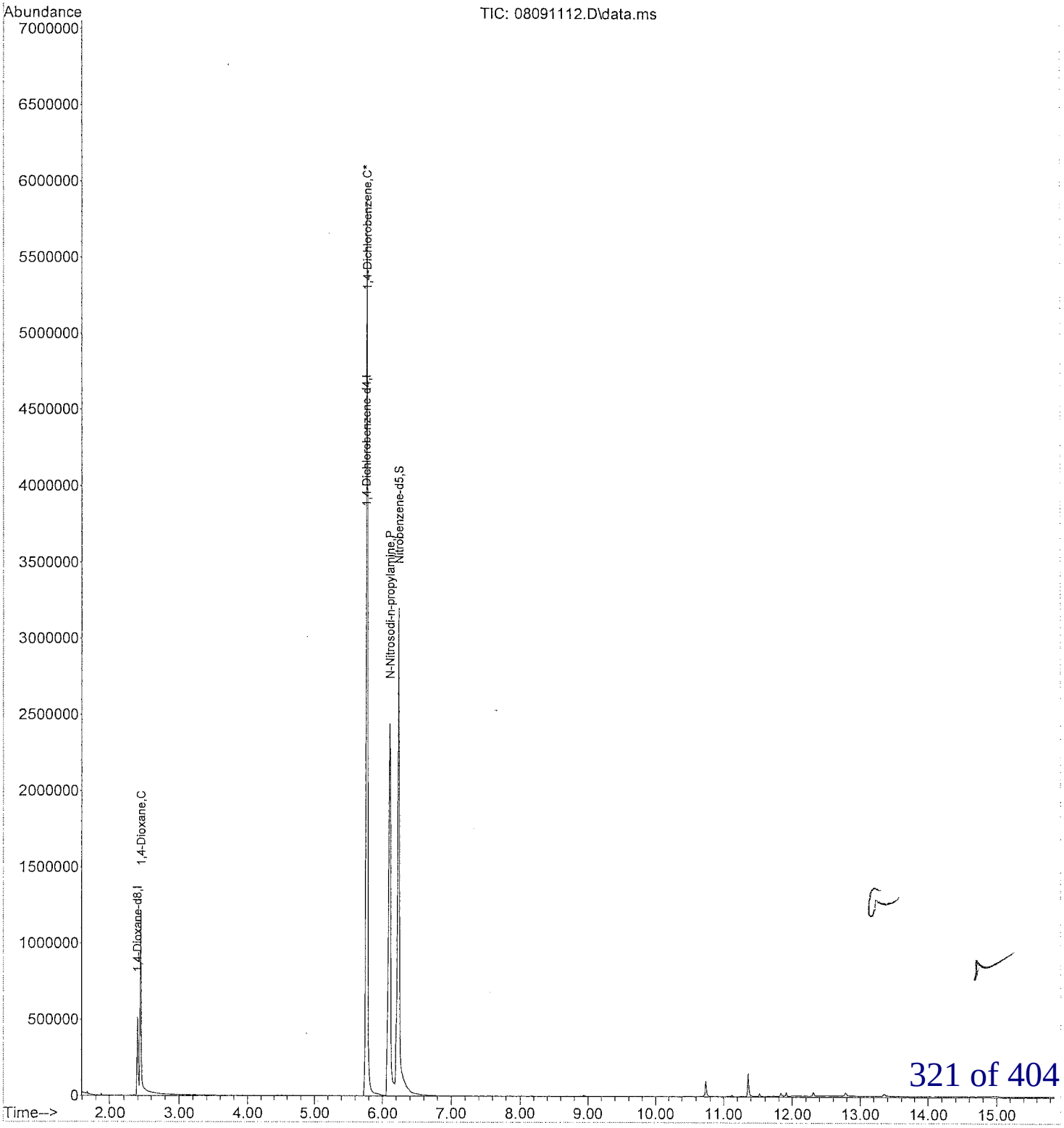
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091112.D
Acq On : 9 Aug 2011 3:25 pm
Operator : CL
Sample : 40ug/mL IC pu02521
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 15:49:02 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

8/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091113.D
Acq On : 9 Aug 2011 3:51 pm
Operator : CL
Sample : 100 ug/mL IC pu02522
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 09 16:16:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.357	96	318230	20.00 ug/mL	-0.06
3) 1,4-Dichlorobenzene-d4	5.763	152	298268	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.251	82	4761888	85.73 ug/mL	0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.422	88	1497003	86.21 ug/mL	99
4) 1,4-Dichlorobenzene	5.781	146	4337866	83.69 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.122	70	3181155	82.83 ug/mL	97

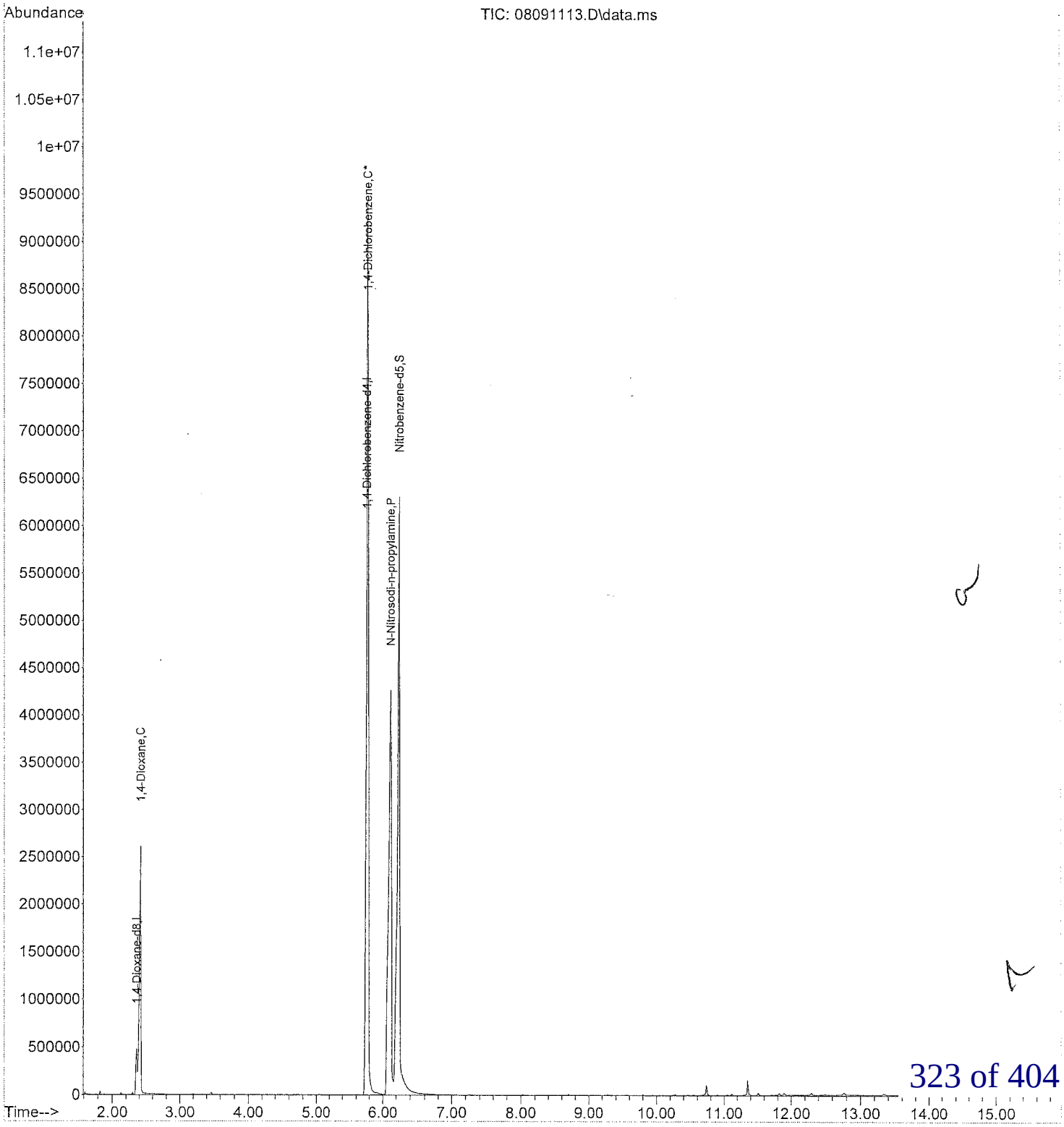
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091113.D
Acq On : 9 Aug 2011 3:51 pm
Operator : CL
Sample : 100 ug/mL IC pu02522
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 09 16:16:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091114.D
Acq On : 9 Aug 2011 4:17 pm
Operator : CL
Sample : qcs 10 ug/mL pu04541
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 10 15:20:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Aug 10 15:17:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.416	96	304018	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.751	152	283031	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	0.000	82	0	0.00 ug/mL	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.457	88	158607	10.23 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

08/10/11

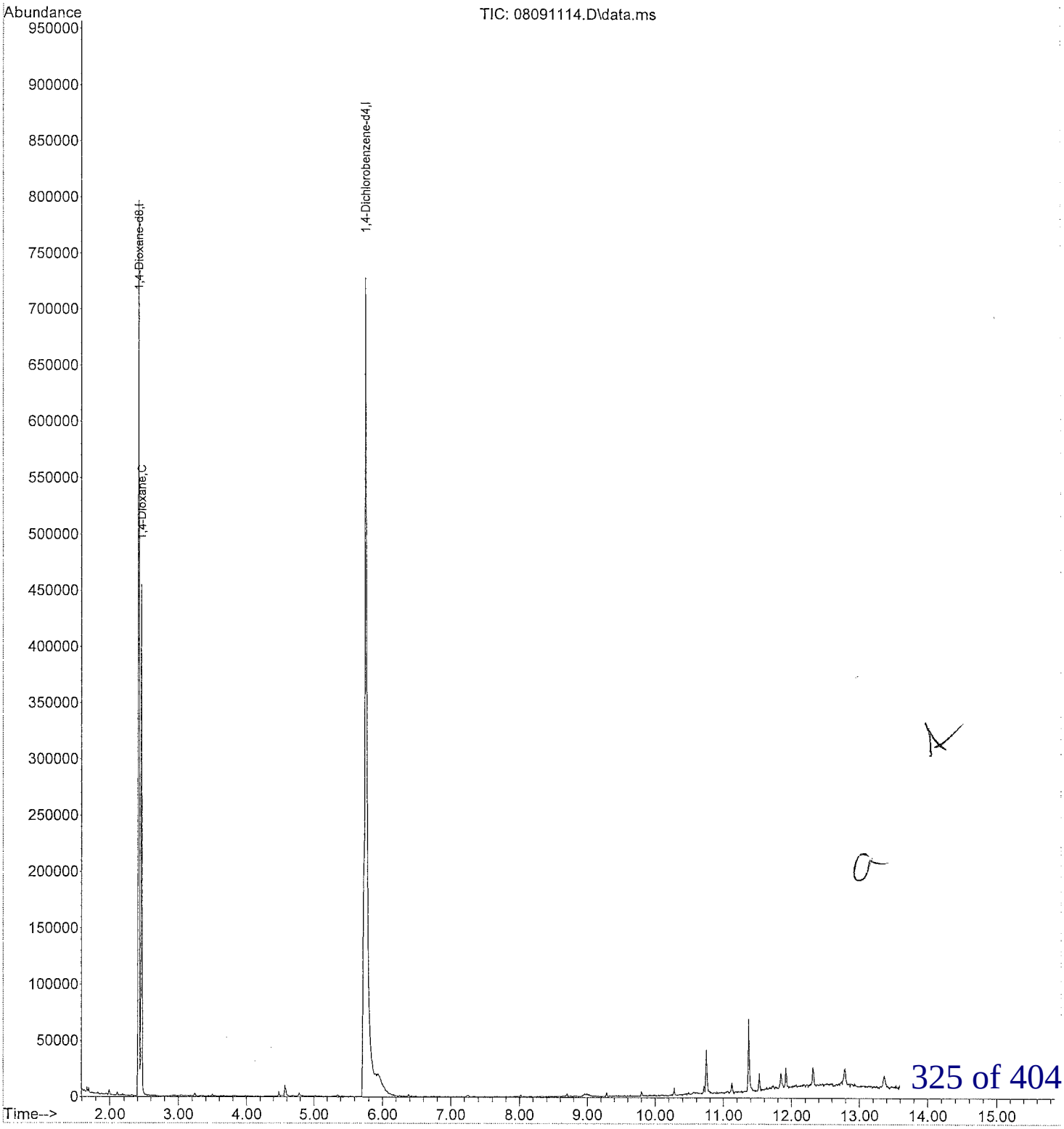
8/10/11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091114.D
Acq On : 9 Aug 2011 4:17 pm
Operator : CL
Sample : qcs 10 ug/mL pu04541
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 10 15:20:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Aug 10 15:17:19 2011
Response via : Initial Calibration



Sample Name qcs 10 ug/mL pu04541
Data File Name 08091114.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 16:17
Misc Info
Instrument Name GCMS14

NAME	QCS ug/mL	true value ug/mL	& Rec	LCL	UCL	PASS/FAIL
1,4-Dioxane	10.23	10.00	**102.3**	70	130	**PASS**

8/10/11

8/10/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: EPA MODIFIED 8270C
(1,4-DIOXANE)

DATE: 09/16/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Lawrie	Batch ID# 11I0534	Date Analyzed: 9/16/11

	Description	Yes	No	NA[1]
1.	Tune 25 ng-20-11 12:57 PM 03.0			
-	DFTPP (50 ng) meets method criteria?	✓		
-	Tailing -- Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)			
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?			
-	CCC 1,4-Dichlorobenzene ≤30%			
-	All compounds RSD ≤20% or linear/quadratic $r^2 \geq 0.99$			
-	QCS recovered ± 30%			
-	Date of Initial Calibration: 080911A Instrument: GCMS14			
3.	Retention Times Updated?		✓	
4.	CCVs all analytes recovered within 20% (includes CCC 1, 4-Dichlorobenzene)?	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	Internal Standard RT ± 0.5 min. from 10~~ppb~~ ug/ml std. in ICAL?	✓		
-	Internal Standard Areas -50% to 200% of 10~~ppb~~ ug/ml std. in ICAL? 9-20-11	✓		
-	Analyte RRTs ± 0.06 from 5~~0ppb~~ 10 ug/ml std. in ICAL?	✓		
5.	Method Blank extracted with batch?	✓		
-	All target analytes recovered <RL?	✓		
6.	LCS/LCSD extracted with batch?	✓		
-	Recoveries within Laboratory Limits?	✓		
-	RPDs ≤ Laboratory Limits?	✓		
7.	MS/MSD extracted with batch?	✓		
-	Recoveries within Historical Limits?	✓		
-	RPDs Laboratory Limits?	✓		
8.	Samples extracted within 7 days from collection?	✓		
-	Samples analyzed within 40 days from extraction?	✓		
-	Internal Standard RT ± 0.5 min. from CCV?	✓		
-	Internal Standard Areas -50% to 200% of 10 ~~ppb~~ ug/ml std. in ~~ICAL~~ CCV? 9-20-11	✓		
-	Maximum of 20 samples in batch?	✓		
-	Surrogate recoveries within Historical Limits?	✓		

Comments: PH02076 (1,4-DCB-d4)

Review Signatures:	Analyst: C. Lawrie	Date: 9/20/11
	Reviewer: Amy L Lawrysh	Date: 9/21/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥091611.s
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091611¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
(X) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info		
1)	Sample	1	09161101	DB5MS14	DCM
2)	Sample	2	09161102	DB5MS14	DCM
3)	Sample	3	09161103	DB5MS14	25ng TUNE pu05415
4)	Sample	4	09161104	DIOXANE	primer 14-diox
5)	Sample	5	09161105	DIOXANE	10ug/mL ccv pu05535
6)	Sample	6	09161106	DIOXANE	blank
7)	Sample	7	09161107	DIOXANE	DCM
8)	Sample	8	09161108	DIOXANE	BLANK
9)	Sample	9	09161109	DIOXANE	11I0534-BLK1
10)	Sample	10	09161110	DIOXANE	11I0534-BS1
11)	Sample	11	09161111	DIOXANE	11I0534-BSD1
12)	Sample	12	09161112	DIOXANE	PUI0764-02
13)	Sample	13	09161113	DIOXANE	11I0534-MS1
14)	Sample	14	09161114	DIOXANE	11I0534-MSD1
15)	Sample	1	09161115	DIOXANE	DCM
16)	Sample	15	09161116	DIOXANE	PUI0650-01
17)	Sample	16	09161117	DIOXANE	PUI0650-02
18)	Sample	17	09161118	DIOXANE	PUI0763-01
19)	Sample	18	09161119	DIOXANE	PUI0763-02
20)	Sample	19	09161120	DIOXANE	PUI0763-03
21)	Sample	20	09161121	DIOXANE	PUI0764-01
22)	Sample	21	09161122	DIOXANE	PUI0766-01
23)	Sample	22	09161123	DIOXANE	PUI0766-02
24)	Sample	23	09161124	DIOXANE	PUI0766-03
25)	Sample	24	09161125	DIOXANE	PUI0766-04

a 9/18/11

① cleanup BLK
no print out
a 9-18-11

a 9.18.11

Sequence Reviewed By: a Date: 9-18-11

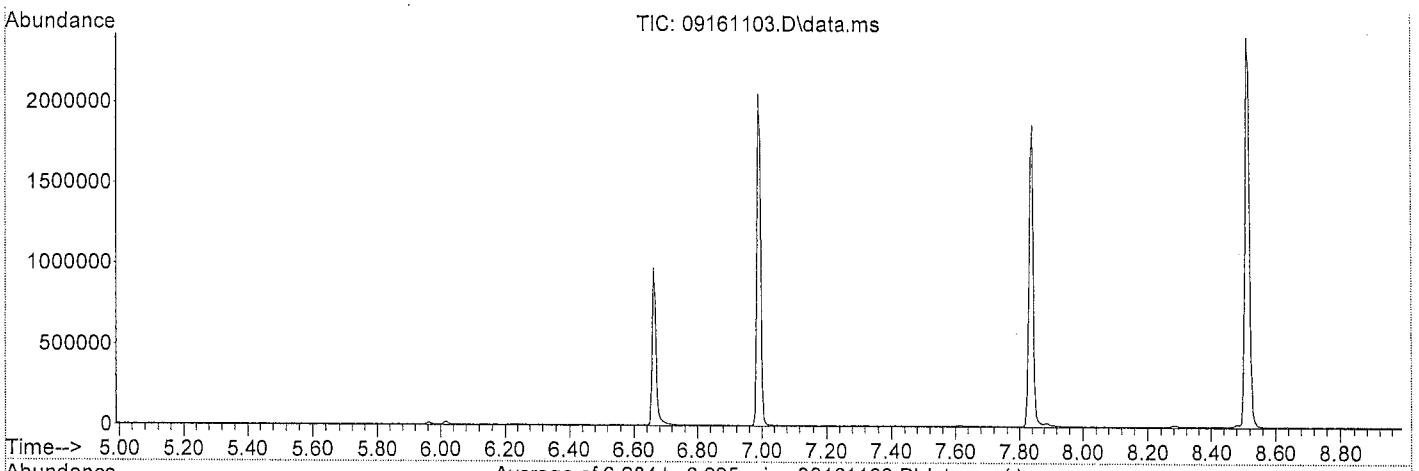
Date Analyzed: 9-18-11 Analyst: a Date Run: 9-16-11

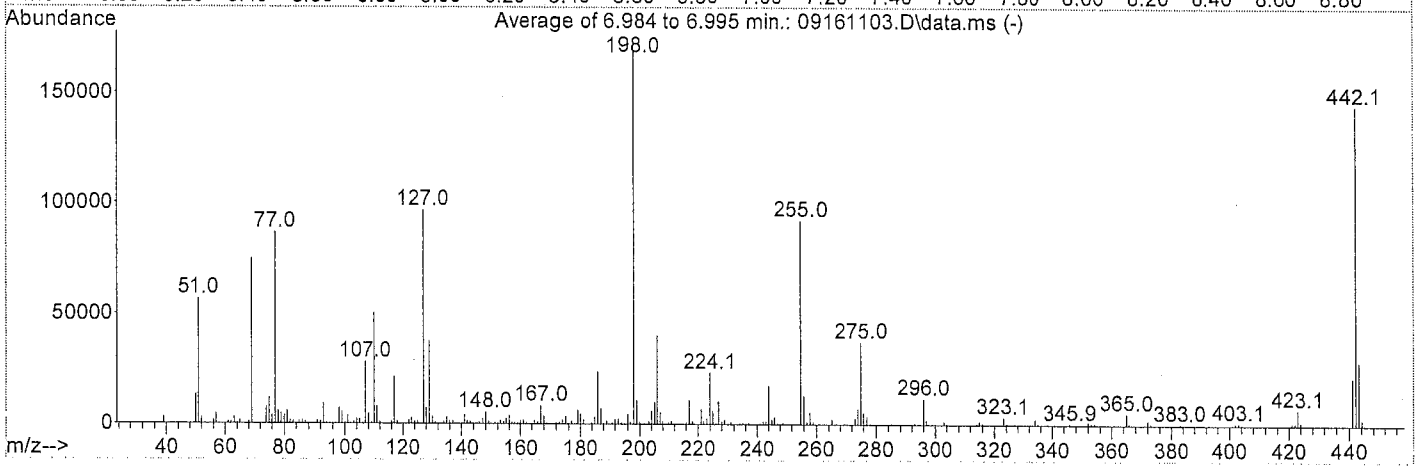
DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161103.D
Acq On : 16 Sep 2011 12:57 pm
Operator : CL
Sample : 25ng TUNE pu05415
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Wed Sep 07 19:00:19 2011





AutoFind: Scans 943, 944, 945; Background Corrected with Scan 938

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.6	56771	PASS
68	69	0.00	2	1.4	1073	PASS
69	198	0.00	100	44.3	74872	PASS
70	69	0.00	2	0.5	358	PASS
127	198	40	60	57.2	96680	PASS
197	198	0.00	1	0.5	839	PASS
198	198	100	100	100.0	168984	PASS
199	198	5	9	6.4	10778	PASS
275	198	10	30	22.1	37278	PASS
365	198	1	100	3.1	5162	PASS
441	443	0.01	100	75.2	21540	PASS
442	198	40	100	85.5	144563	PASS
443	442	17	23	19.8	28652	PASS

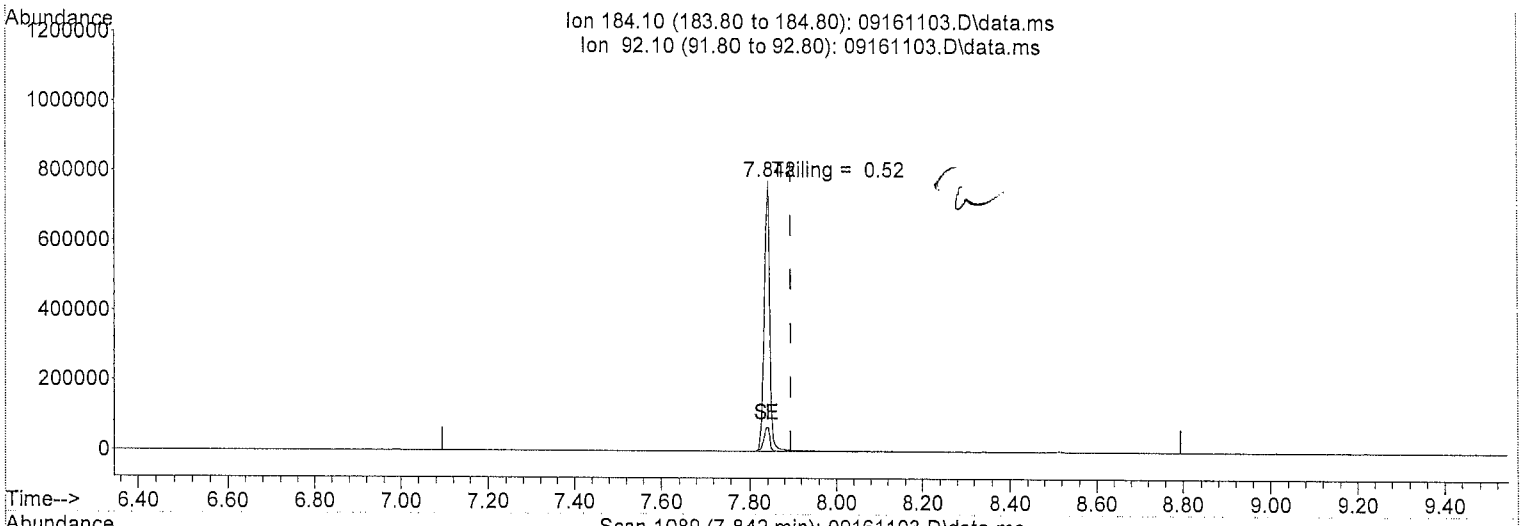
09-16-11

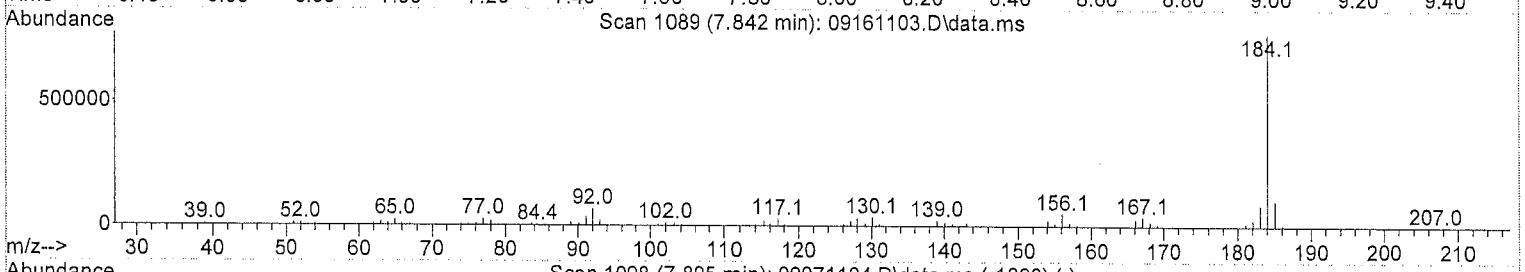
9/21/11

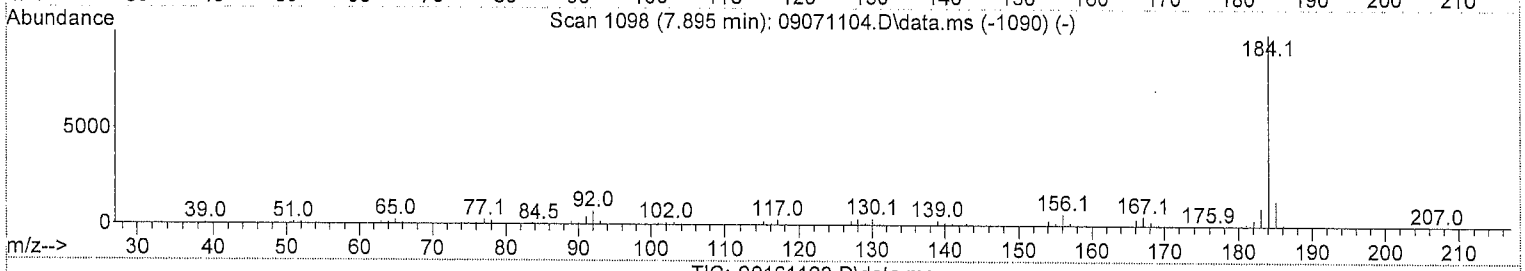
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161103.D
Acq On : 16 Sep 2011 12:57 pm
Operator : CL
Sample : 25ng TUNE pu05415
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 17:50:58 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Wed Sep 07 19:00:19 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥090711¥09071104.D







TIC: 09161103.D\data.ms

(2) Benzidine

7.842min (-0.053) 24.15

response 711059

Ion	Exp%	Act%
184.10	100.00	100.00
92.10	10.20	9.68
0.00	0.00	0.00
0.00	0.00	0.00

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161105.D
Acq On : 16 Sep 2011 1:48 pm
Operator : CL
Sample : 10ug/mL ccv pu05535
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 14:53:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.304	96	199969	20.00 ug/mL	0.09
3) 1,4-Dichlorobenzene-d4	5.687	152	187069	10.00 ug/mL	-0.01
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	314889	10.74 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.346	88	103410	10.1426 ug/mL	99
4) 1,4-Dichlorobenzene	5.698	146	307905	10.8434 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.028	70	204880	14.3095 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

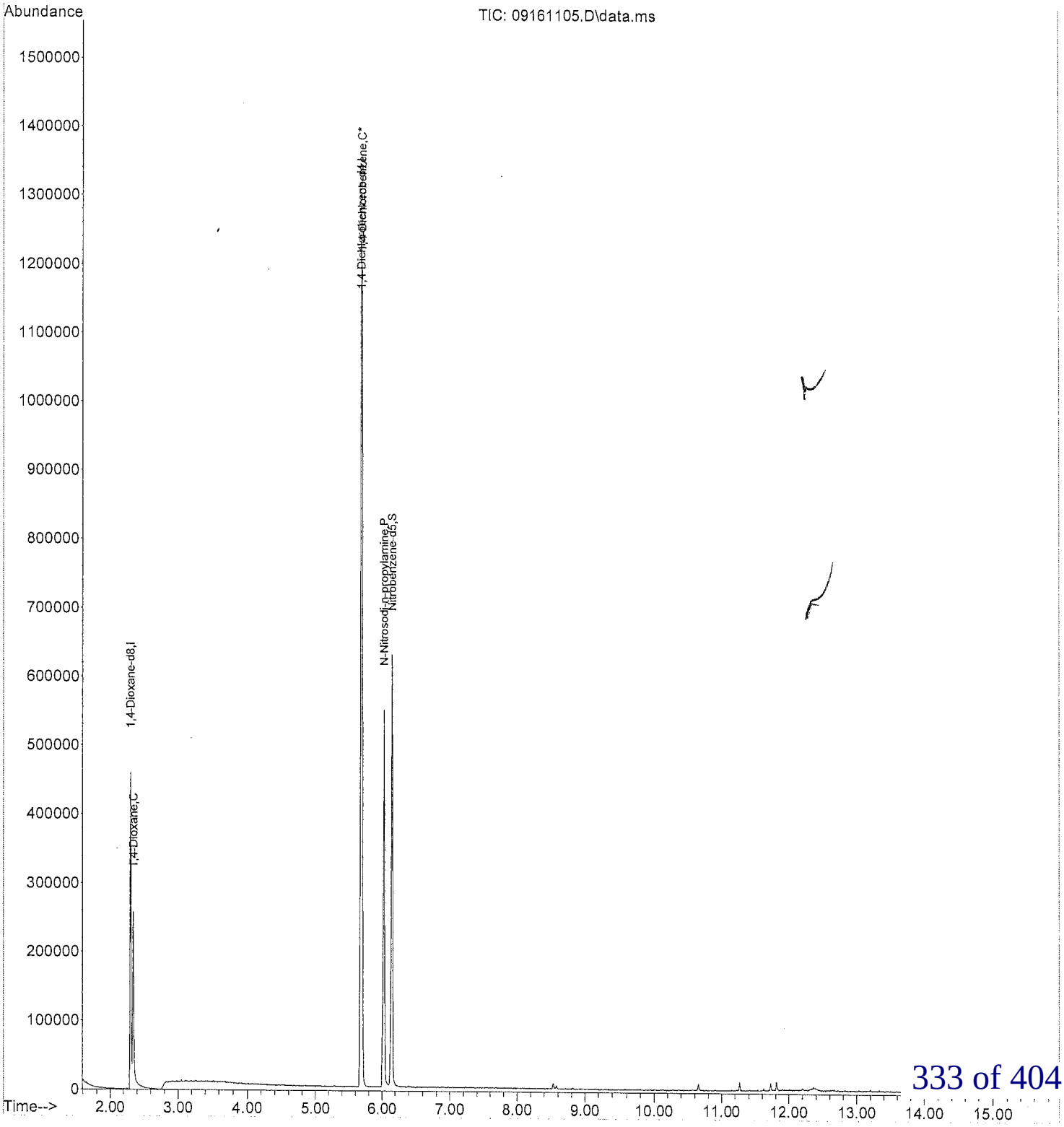
09 16-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161105.D
Acq On : 16 Sep 2011 1:48 pm
Operator : CL
Sample : 10ug/mL ccv pu05535
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 14:53:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161105.D
Acq On : 16 Sep 2011 1:48 pm
Operator : CL
Sample : 10ug/mL ccv pu05535
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 14:53:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 400%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dioxane-d8	1.000	1.000	0.0	70	0.09
2 C	1,4-Dioxane	1.020	1.034	-1.4	69	0.09
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	55	-0.01
4 C*	1,4-Dichlorobenzene	1.518	1.646	-8.4	56	-0.02
5 P	N-Nitrosodi-n-propylamine	0.765	1.095	-43.1#	64	-0.02
6 S	Nitrobenzene-d5	1.567	1.683	-7.4	58	-0.02

09-16-11

(#) = Out of Range SPCC's out = 0 CCC's out = 0

9/21/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.216	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.257	1.019	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	5.698	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	5.716	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.045	1.061	A	1	A	B
6	S	Nitrobenzene-d5	82	6.169	1.083	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

080911A.M Fri Sep 16 14:54:41 2011 GCMS14

9.16.11

L 9/21/11

Sample Name 10ug/mL ccv pu05535
Data File Name 09161105.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 13:48
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

080911.m

Internal Standard	CCV RESPONSE	MID-POINT RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	187069	343235	171617.5	686470	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.687	5.757	5.257	6.257	PASS

09-16-11

9/21/11

Sample Name 10ug/mL ccv pu05535
Data File Name 09161105.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 13:48
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.m	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.304					
	1,4-Dioxane	2.346	1.018	1.019	0.419	1.619	**PASS**
IS	1,4-Dichlorobenzene-d4	5.687					
	1,4-Dichlorobenzene	5.698	1.002	1.003	0.403	1.603	**PASS**
	N-Nitrosodi-n-propylamine	6.028	1.060	1.060	0.46	1.66	**PASS**
	Nitrobenzene-d5	6.151	1.082	1.083	0.483	1.683	**PASS**

09.16.11

9/21/11

Sample Name 10ug/mL ccv pu05535
Data File Name 09161105.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 13:48
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.M	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.304					
	1,4-Dioxane	2.346	1.018	1.019	0.959 *	1.079 *	PASS
IS	1,4-Dichlorobenzene-d4	5.687					
	1,4-Dichlorobenzene	5.698	1.002	1.003	0.943	1.063	PASS
	N-Nitrosodi-n-propylamine	6.028	1.060	1.060	1	1.12	PASS
	Nitrobenzene-d5	6.151	1.082	1.083	1.023	1.143	PASS

* correct values
aq-21-11

Sample Name 10ug/mL ccv pu05535
Data File Name 09161105.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 13:48
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	187069	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.687	5.687	5.187	6.187	PASS

a 9-16-11

9/21/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥
Method File : 091611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Fri Sep 16 17:53:05 2011
Response Via : Continuing Calibration

Calibration Files
1 =09161105.D

Compound	I	Avg	%RSD
1) I 1,4-Dichlorobenzen...	----------ISTD----------		
2) 1,4-Dioxane-d8	0.534	0.534	0.00

(#) = Out of Range

09-16-11

9/21/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 091611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Fri Sep 16 17:53:05 2011
Response Via : Continuing Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	20	10.2	D:\msdchem\1\GCMS14\DATA\091611\09161105.D
2	cc	20	10.2	D:\msdchem\1\GCMS14\DATA\091611\09161105.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Sep 16 17:52 2011	Sep 16 17:52 2011	16 Sep 2011 1:48 pm
2	cc	Sep 16 17:53 2011	Sep 16 17:52 2011	16 Sep 2011 1:48 pm

091611_D8.M Fri Sep 16 17:54:10 2011 GCMS14

09.16.11

9/26/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 091611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Fri Sep 16 17:53:05 2011
Response Via : Continuing Calibration

Total Cpnds : 2

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,4-Dichlorobenzene-d4	152	5.687	1.000	A	0	A	B
2	1,4-Dioxane-d8	96	2.304	0.405	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

091611_D8.M Fri Sep 16 17:54:19 2011 GCMS14

09-16-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161105.D
Acq On : 16 Sep 2011 1:48 pm
Operator : CL
Sample : 10ug/mL ccv pu05535
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 17:53:35 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.687	152	187069	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.304	96	199969	20.0000 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

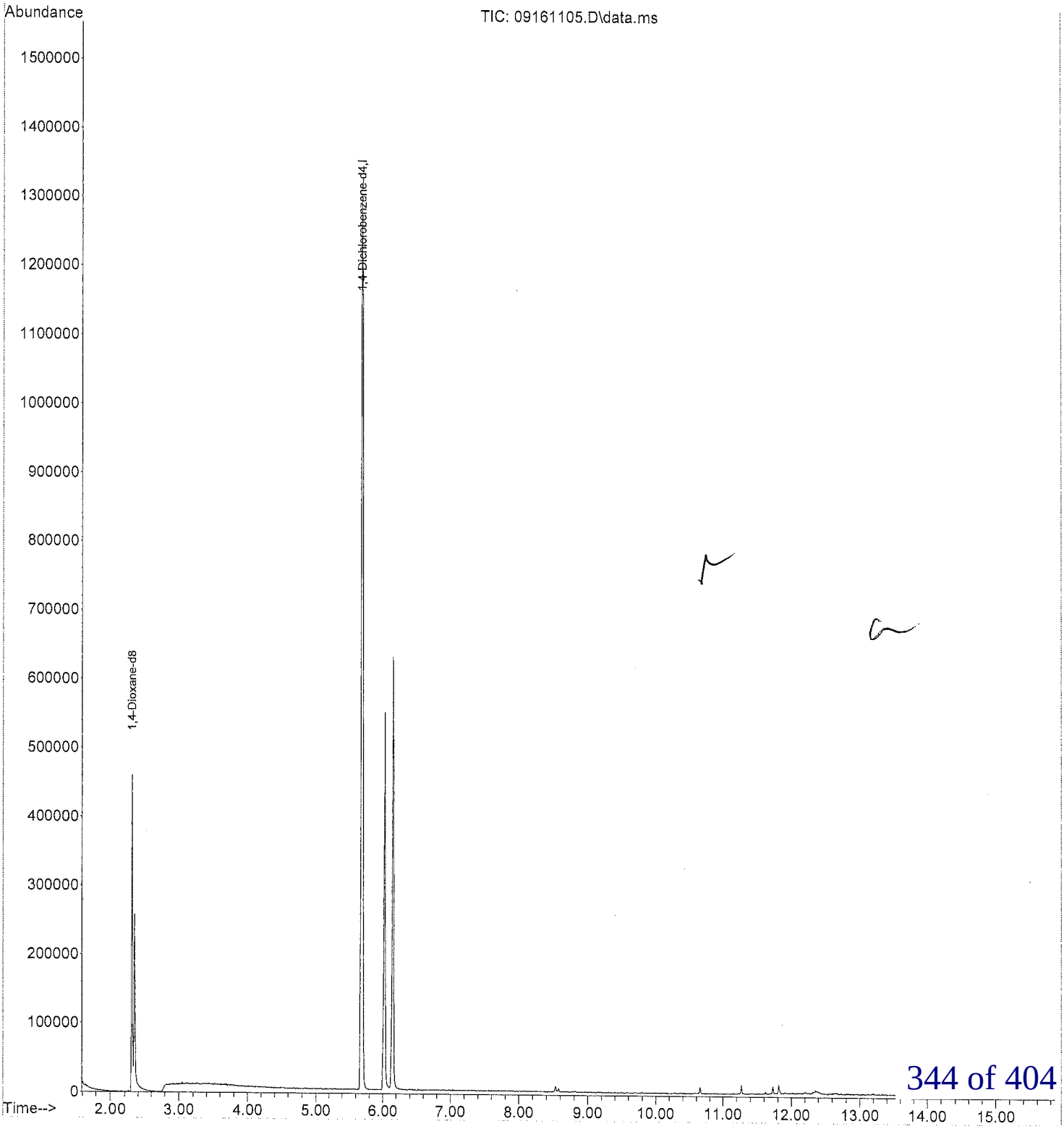
used to update
09-16-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161105.D
Acq On : 16 Sep 2011 1:48 pm
Operator : CL
Sample : 10ug/mL ccv pu05535
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 17:53:35 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



091611_D8.M Fri Sep 16 17:53:55 2011 GCMS14

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161109.D
Acq On : 16 Sep 2011 4:03 pm
Operator : CL
Sample : 11I0534-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 16:21:19 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.381	96	143086m	20.00 ug/mL	0.17
3) 1,4-Dichlorobenzene-d4	5.681	152	173346	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	515464	18.97 ug/mL	-0.02
Target Compounds					Qvalue
4) 1,4-Dichlorobenzene	5.681	146	44	0.0017 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

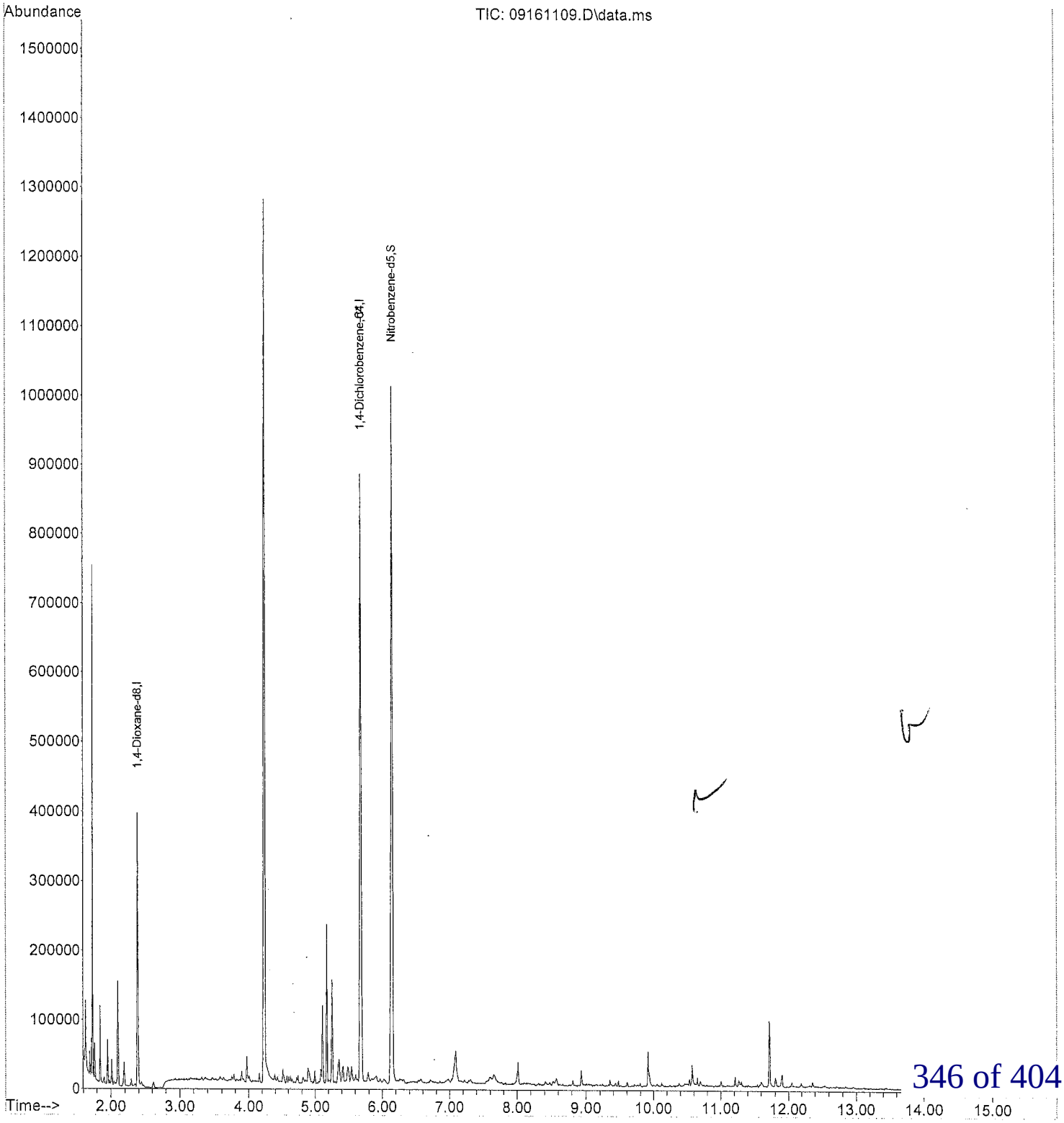
09-20-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161109.D
Acq On : 16 Sep 2011 4:03 pm
Operator : CL
Sample : 11I0534-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 16:21:19 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

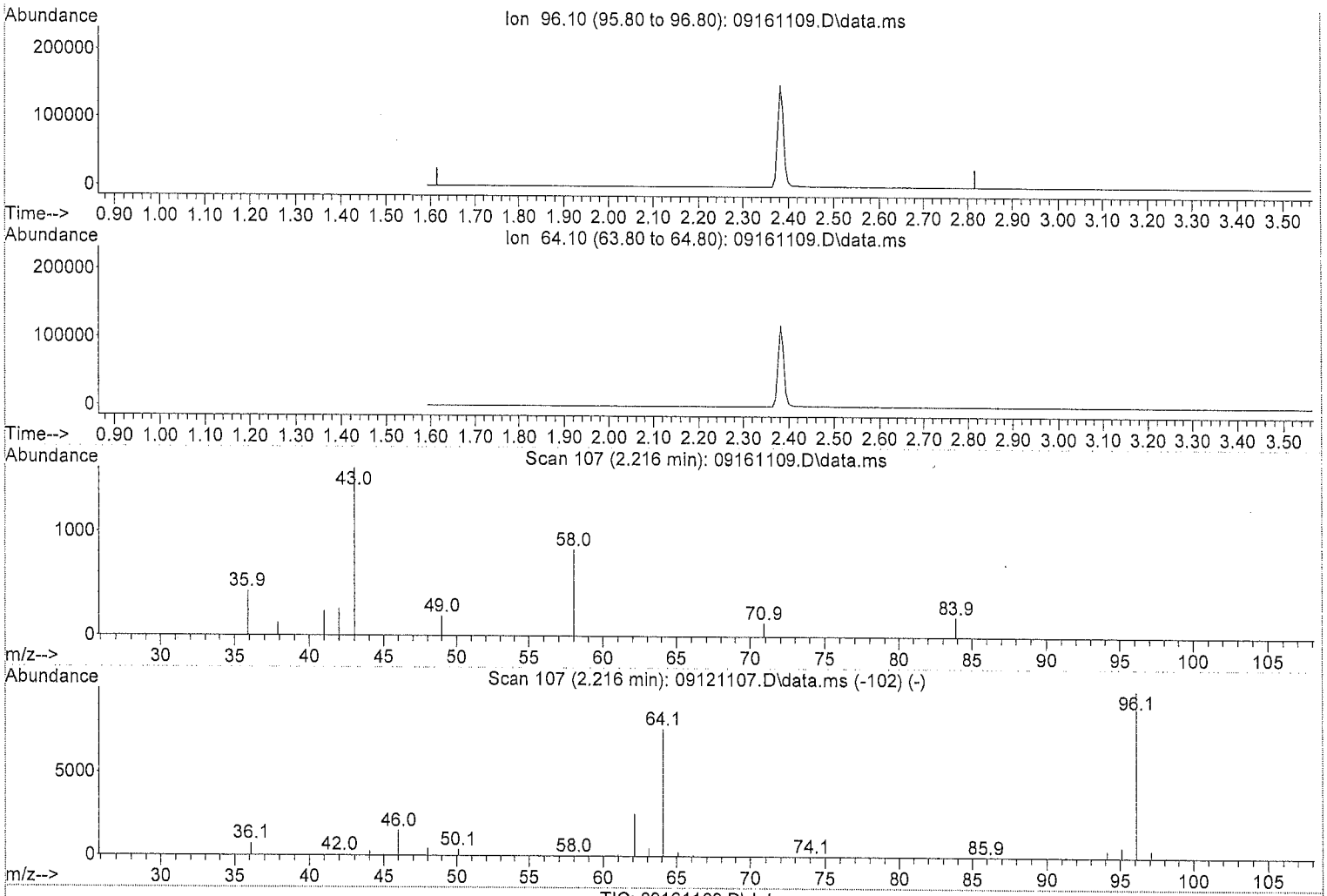


080911A.M Fri Sep 16 16:21:53 2011 GCMS14

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161109.D
Acq On : 16 Sep 2011 4:03 pm
Operator : CL
Sample : 11I0534-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 16:20:49 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



TIC: 09161109.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.216min (-2.216) 0.00 ug/mL

response 0

Ion	Exp%	Act%
96.10	100.00	0.00
64.10	78.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

ID

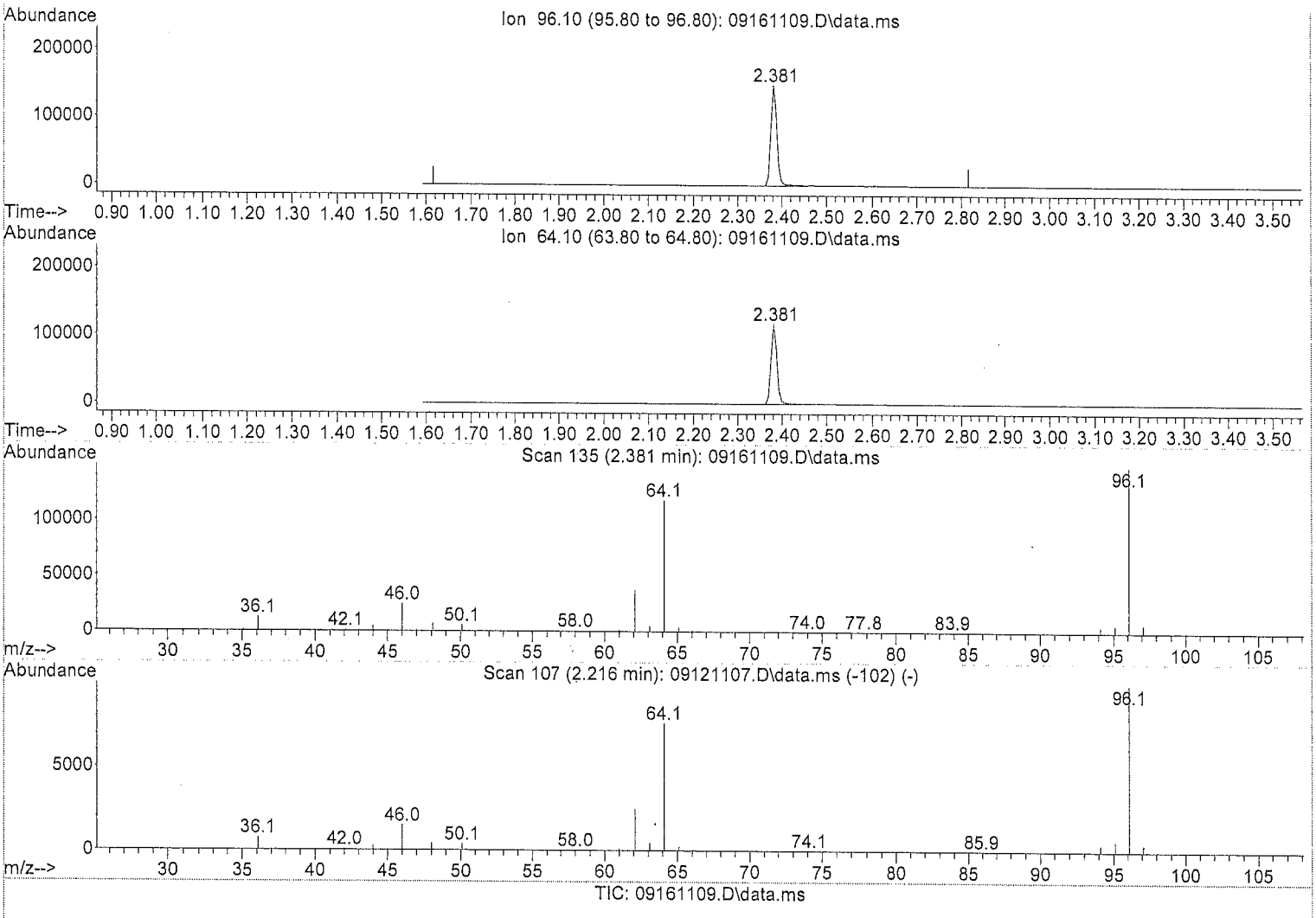
9/21/11

09-29-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161109.D
Acq On : 16 Sep 2011 4:03 pm
Operator : CL
Sample : 11I0534-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 16:20:49 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



TIC: 09161109.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.381min (+ 0.165) 20.00 ug/mL m

response 143086

Ion	Exp%	Act%
96.10	100.00	100.00
64.10	78.50	78.10
0.00	0.00	0.00
0.00	0.00	0.00

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ag. 10-11

Sample Name 11I0534-BLK1
Data File Name 09161109.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 16:03
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	173346	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.687	5.187	6.187	PASS

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161109.D
Acq On : 16 Sep 2011 4:03 pm
Operator : CL
Sample : 11I0534-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 19:03:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

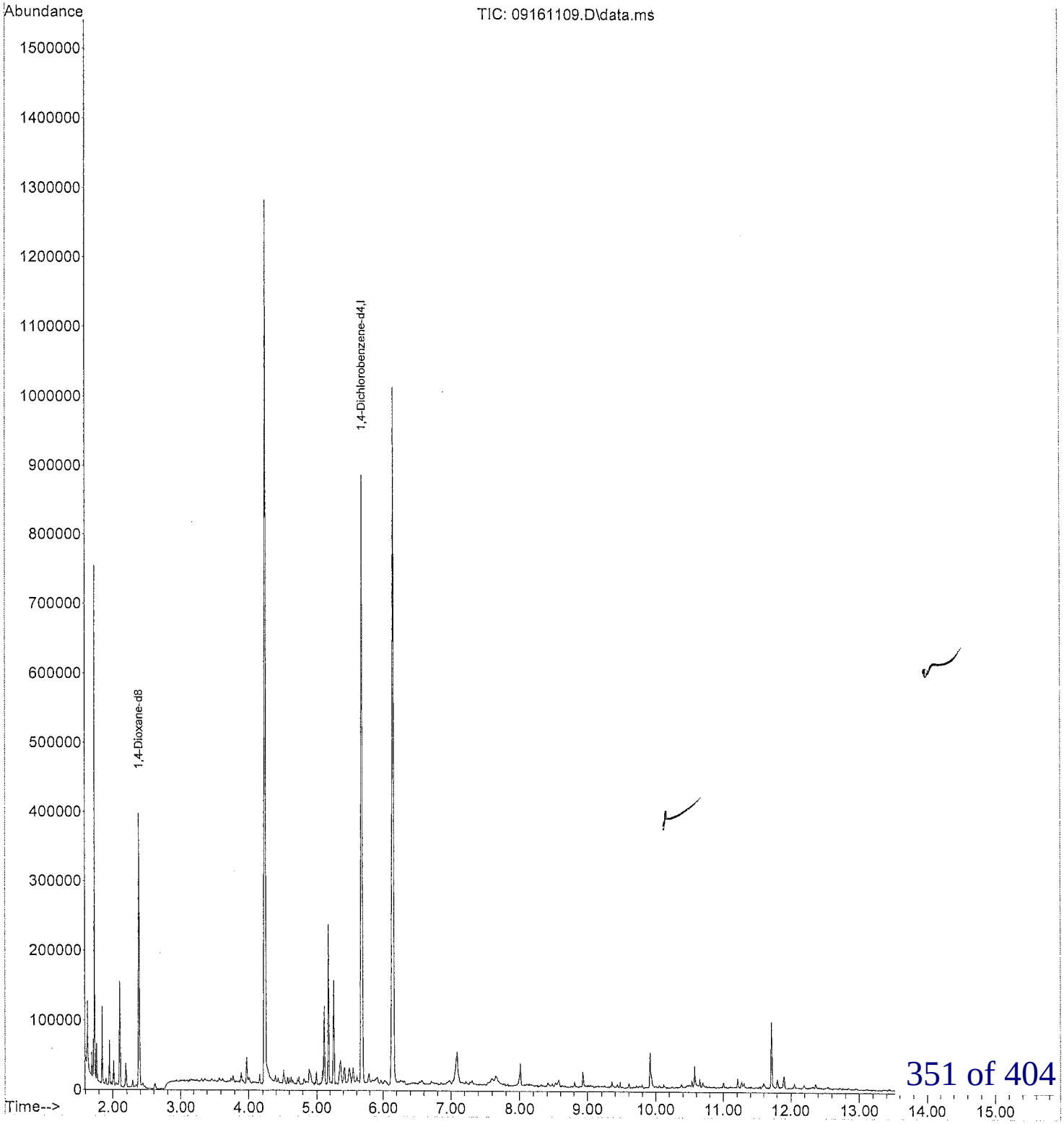
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	173346	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.381	96	142902	15.4239 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161109.D
Acq On : 16 Sep 2011 4:03 pm
Operator : CL
Sample : 11I0534-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 19:03:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 16:51:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.381	96	137370m	20.00 ug/mL	0.16
3) 1,4-Dichlorobenzene-d4	5.681	152	170019	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	499745	18.76 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.428	88	139196m	19.8739 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

04-20-11

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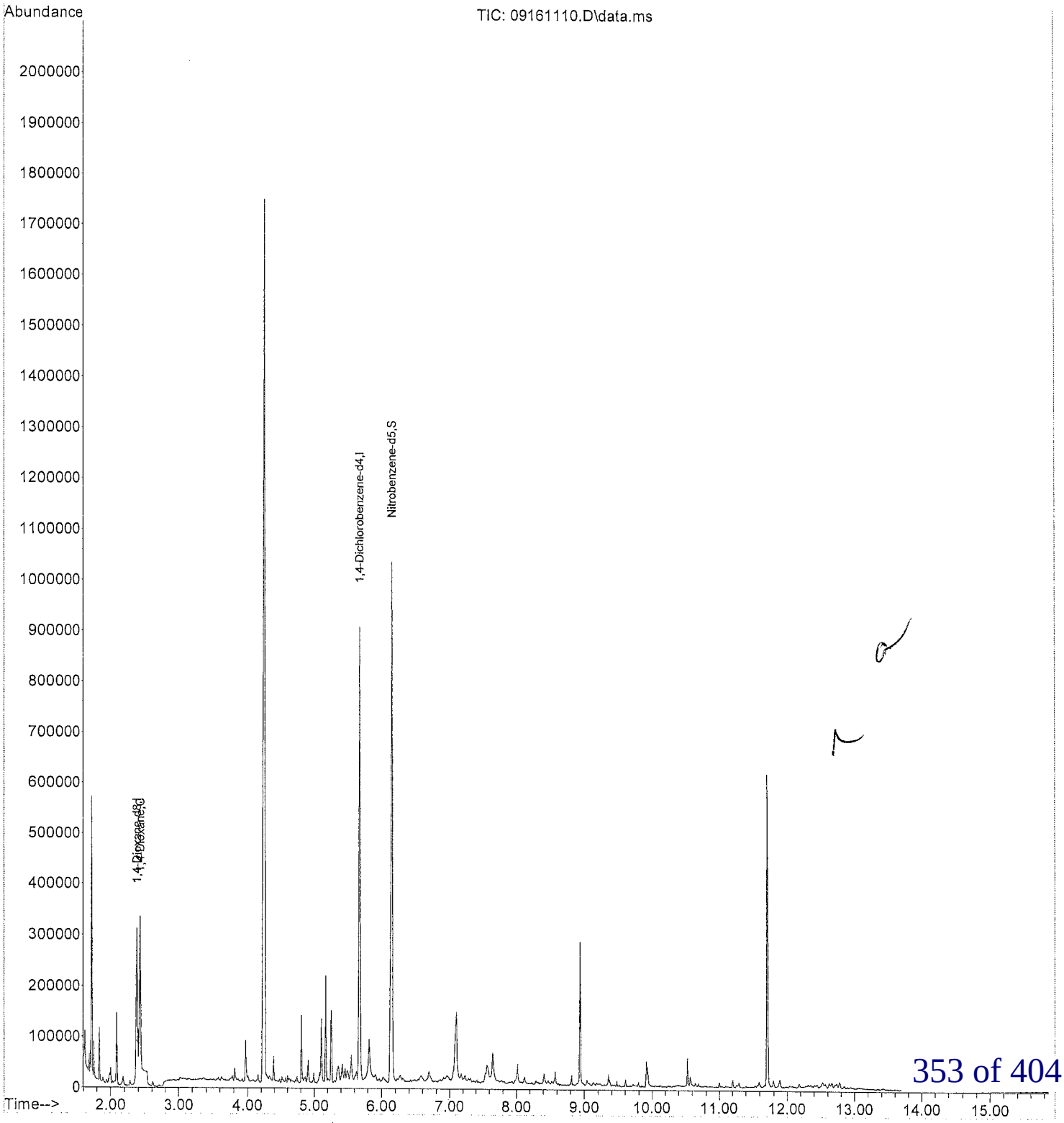
Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

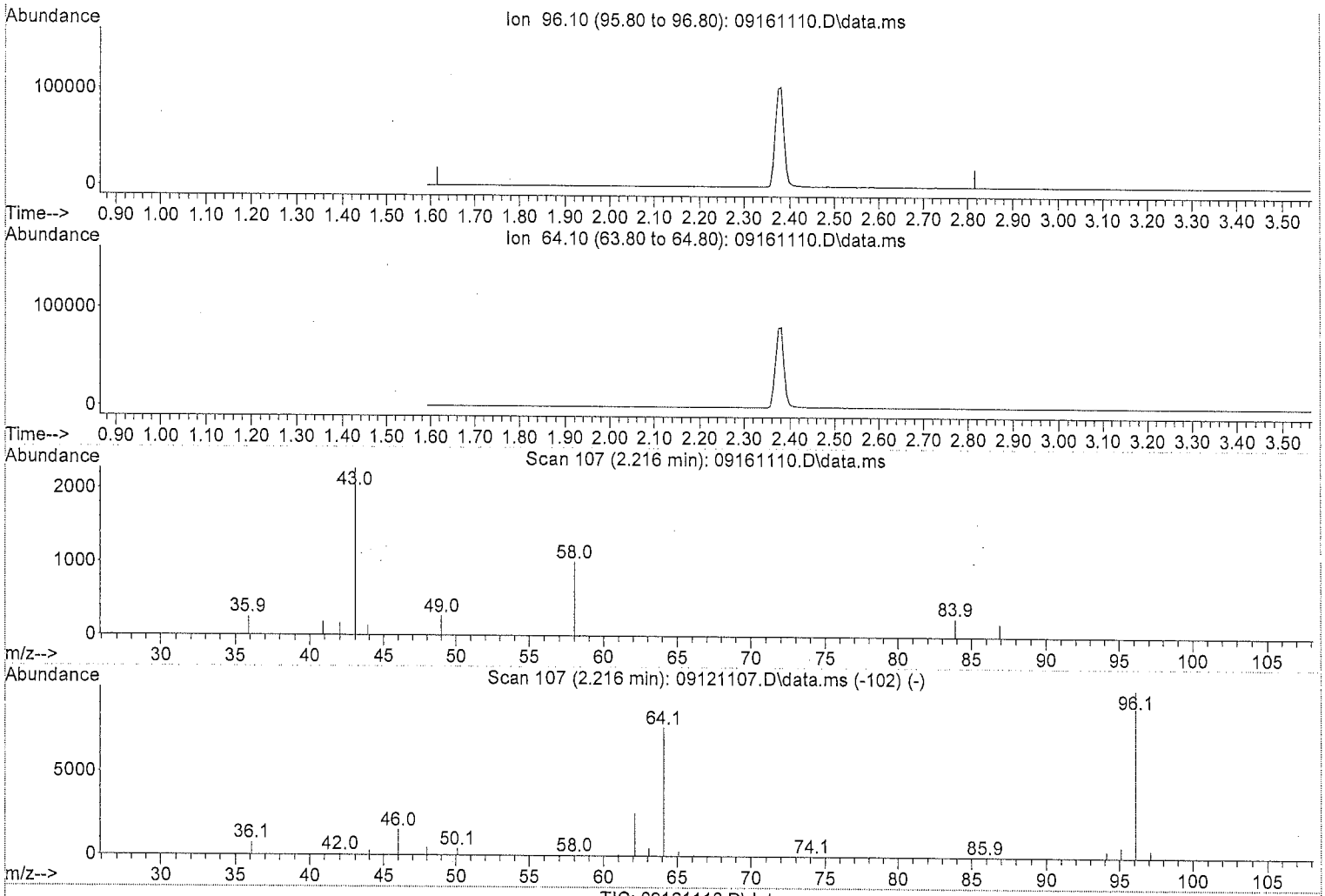
Quant Time: Sep 16 16:51:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 16:50:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



TIC: 09161110.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.216min (-2.216) 0.00 ug/mL

response 0

Ion	Exp%	Act%
96.10	100.00	0.00
64.10	78.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

ID

09-20-11

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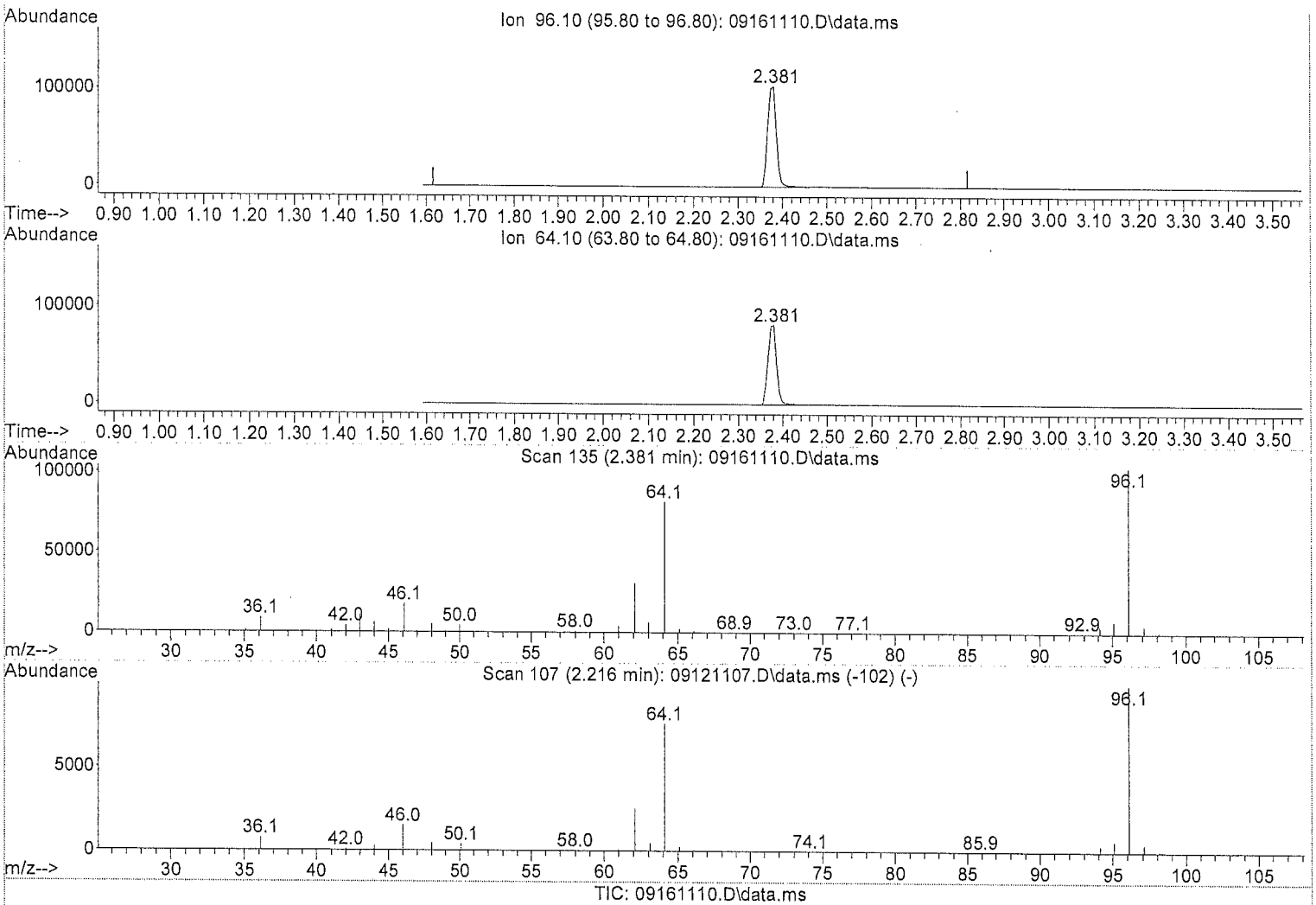
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 16:50:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.381min (+ 0.165) 20.00 ug/mL m

response 137370

Ion	Exp%	Act%
96.10	100.00	100.00
64.10	78.50	78.12
0.00	0.00	0.00
0.00	0.00	0.00

a

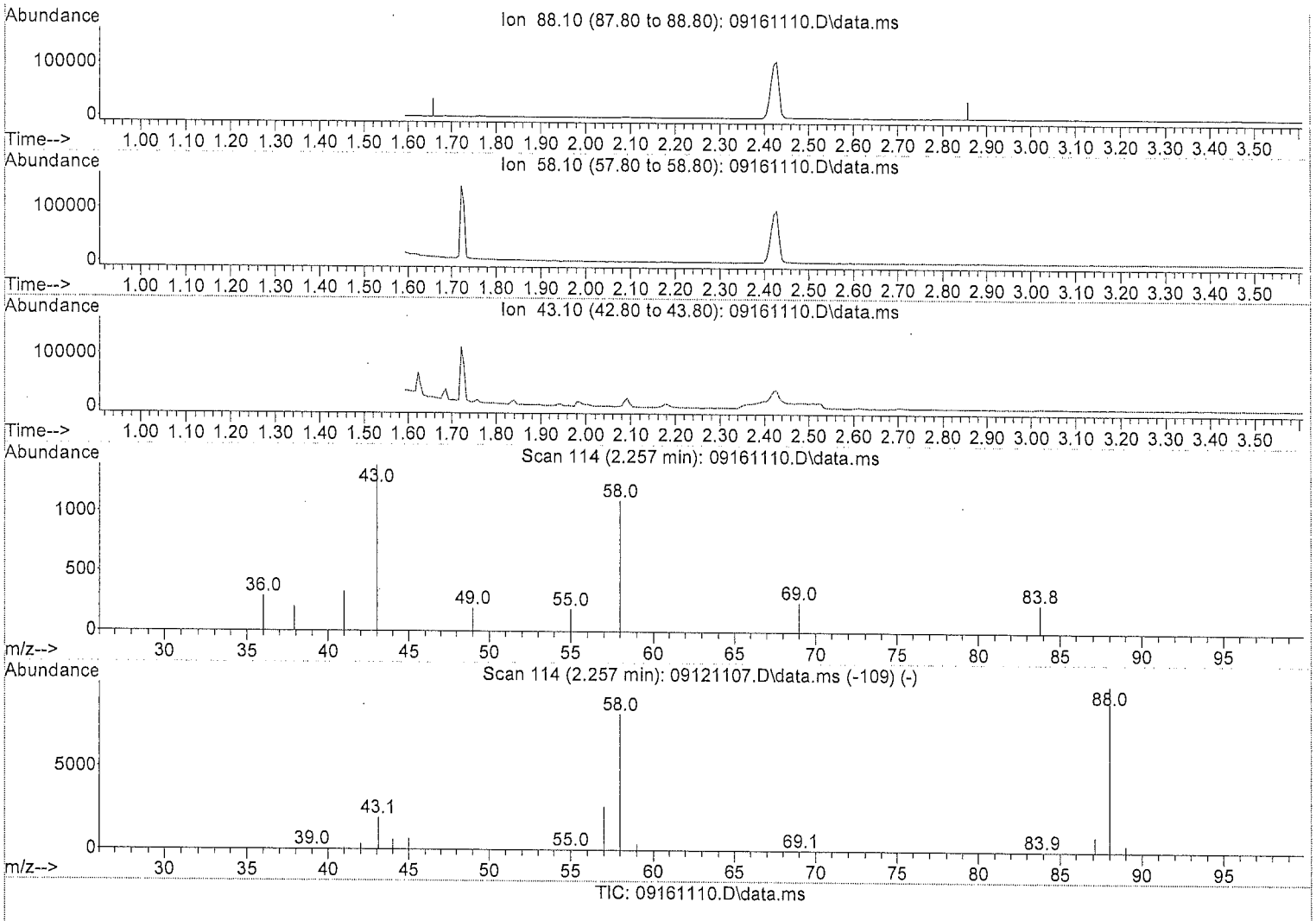
L 9/21/11

09-20-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 16:50:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.257min (-2.257) 0.00 ug/mL

response 0

Ion	Exp%	Act%
88.10	100.00	0.00
58.10	86.00	0.00#
43.10	19.40	0.00
0.00	0.00	0.00

L 9/21/11

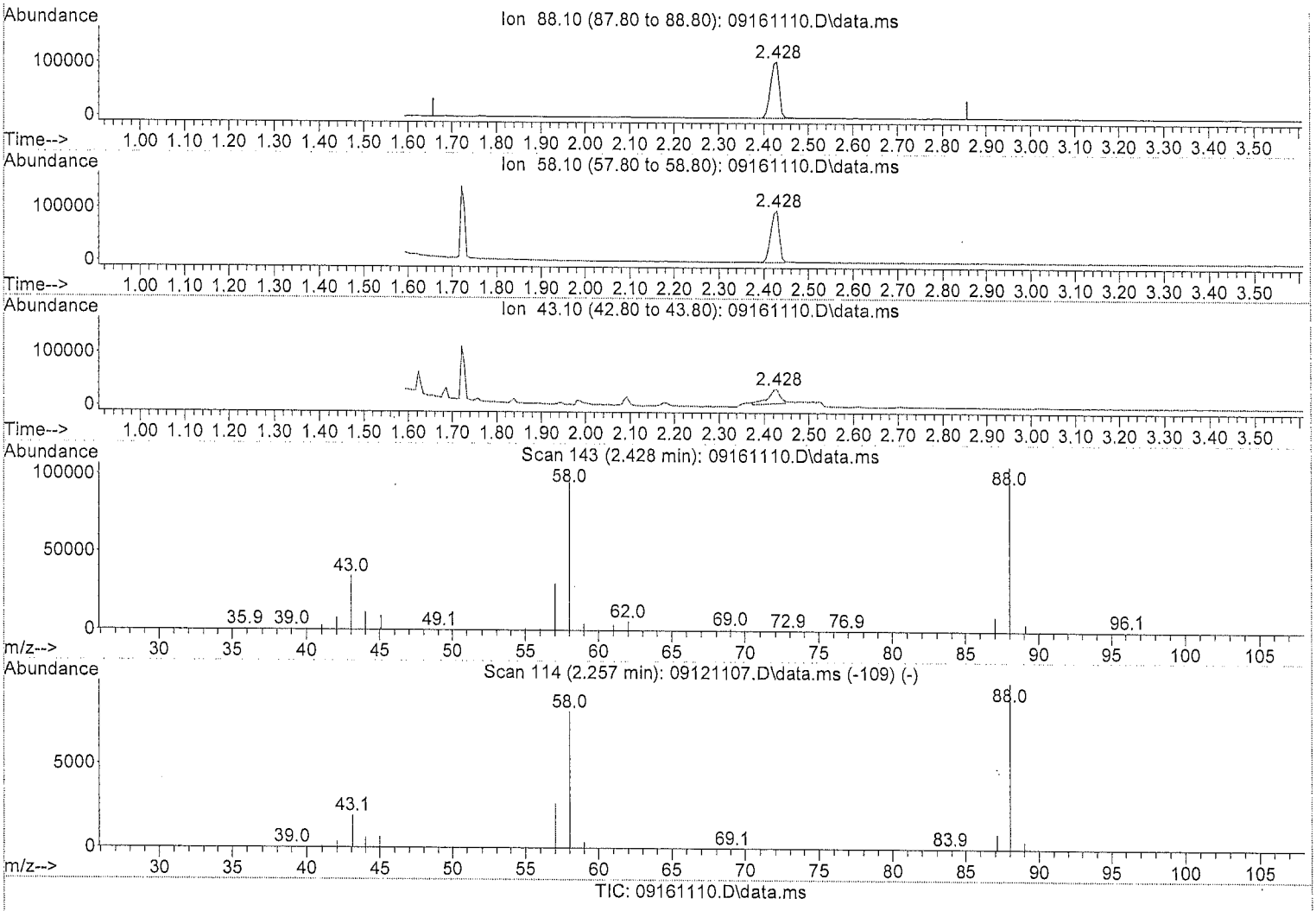
DD

B 9-20-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 16:50:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.428min (+ 0.171) 19.87 ug/mL m

response 139196

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	86.00	89.84
43.10	19.40	36.66
0.00	0.00	0.00

a

9/21/11

a 9.20-11

Sample Name 11I0534-BS1
Data File Name 09161110.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 16:29
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	170019	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.687	5.187	6.187	PASS

9/21/11

Quantitation Report (Not Reviewed)

09-20-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 19:03:54 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	170019	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.381	96	137378	15.1178 ug/mL	98

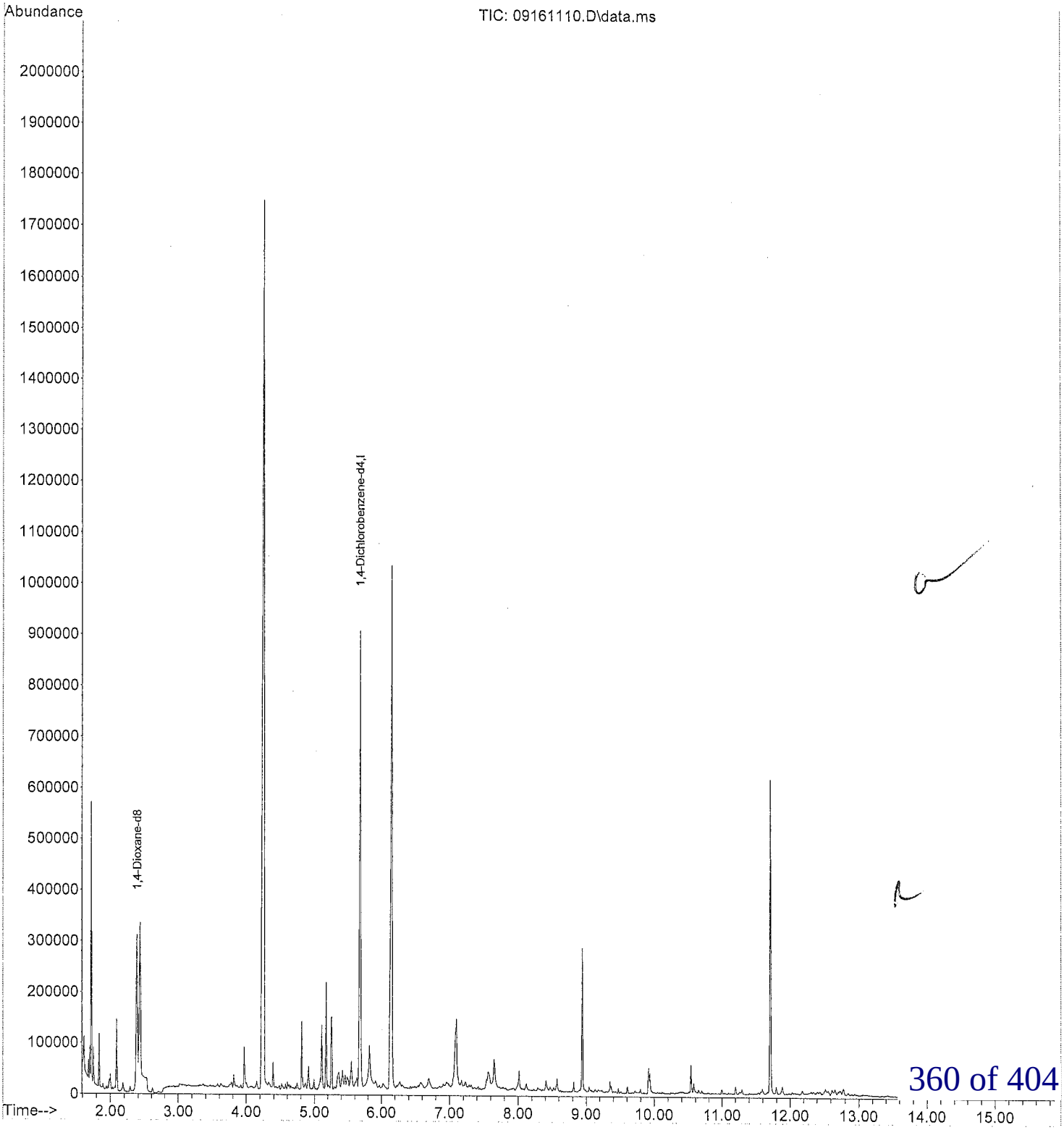
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161110.D
Acq On : 16 Sep 2011 4:29 pm
Operator : CL
Sample : 11I0534-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 19:03:54 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 17:13:27 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.405	96	122795m	20.00 ug/mL	0.19
3) 1,4-Dichlorobenzene-d4	5.681	152	151772	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	445789	18.74 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.446	88	125770m	20.0883 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

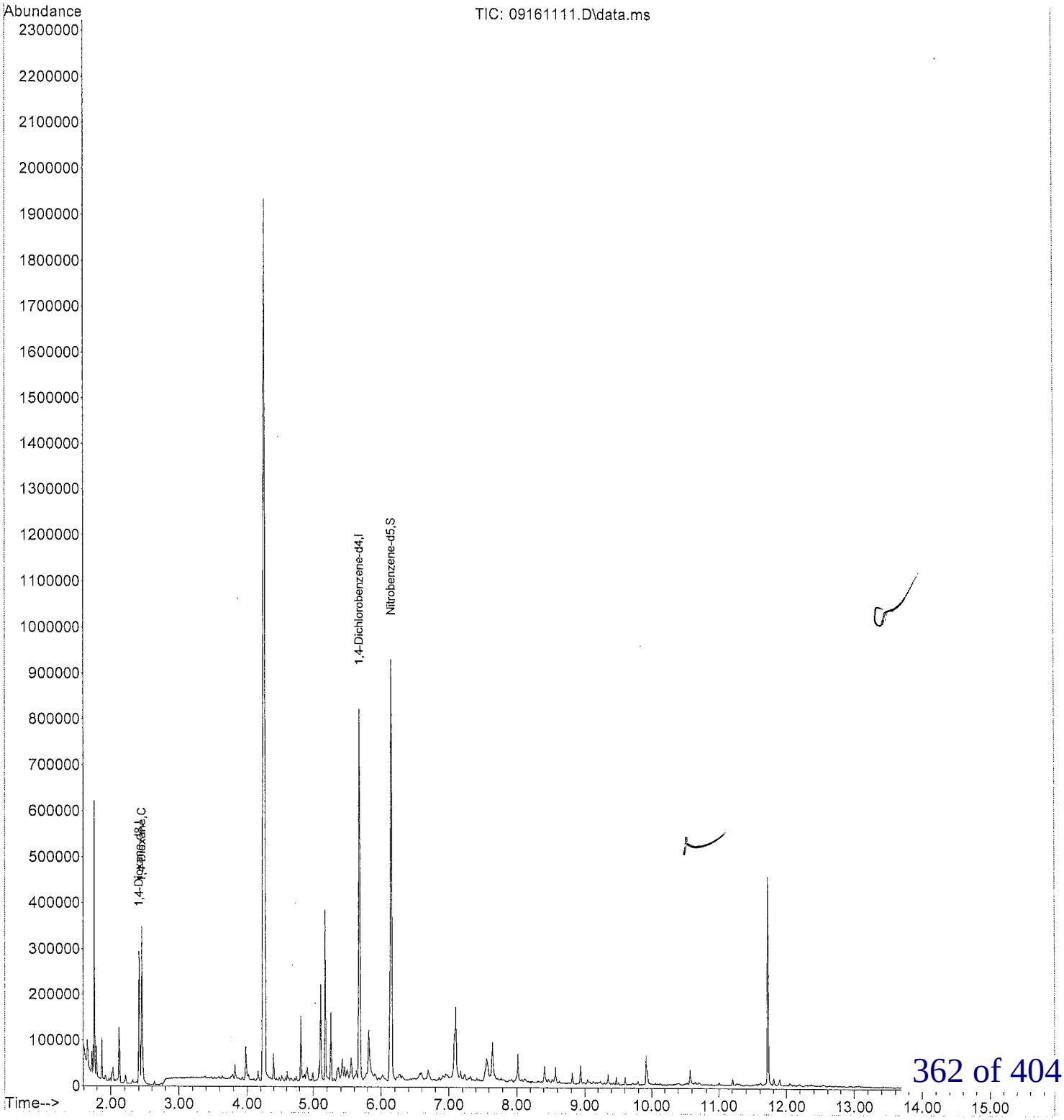
Oh-20-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

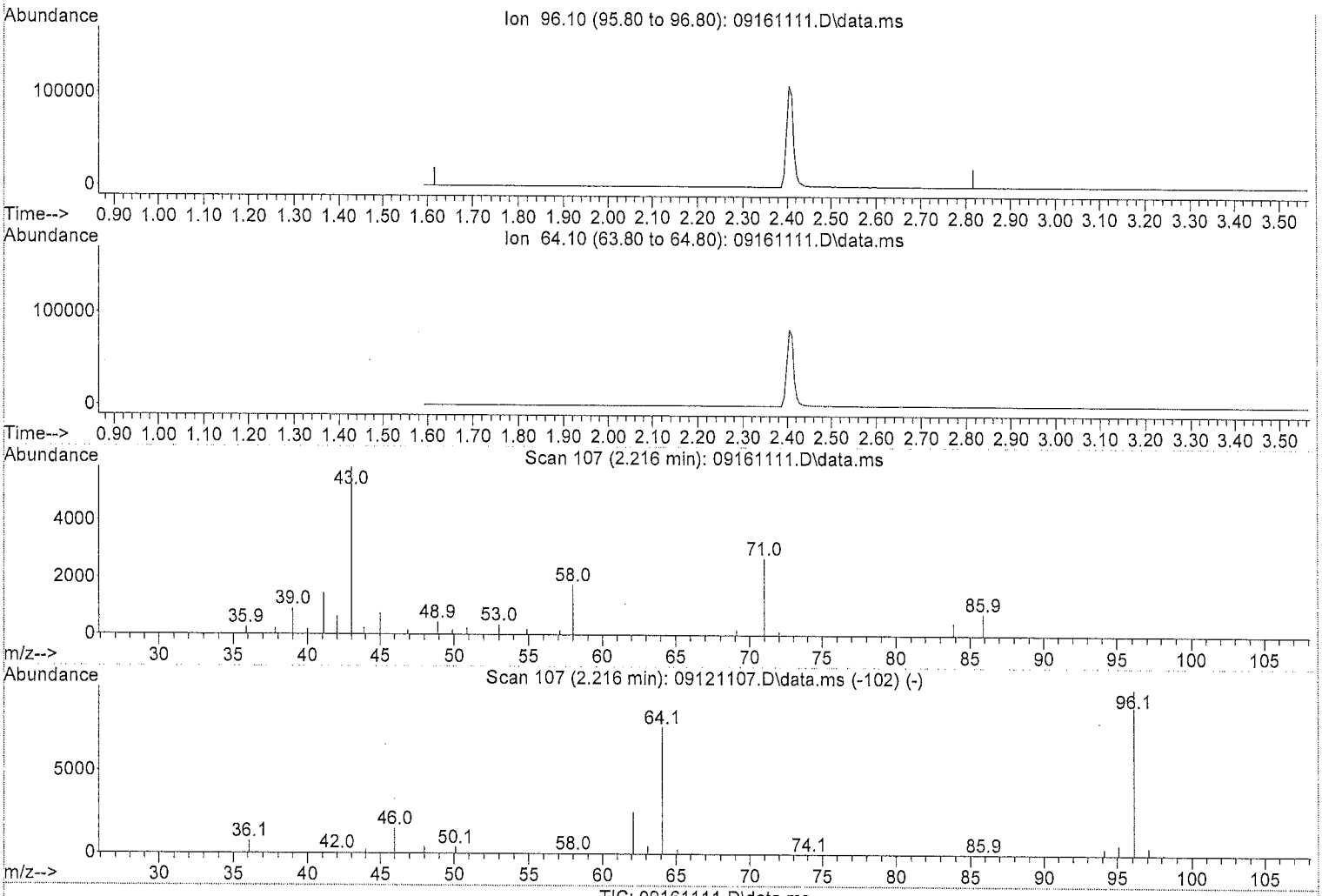
Quant Time: Sep 16 17:13:27 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 17:12:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



TIC: 09161111.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.216min (-2.216) 0.00 ug/mL

response 0

Ion	Exp%	Act%
96.10	100.00	0.00
64.10	78.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

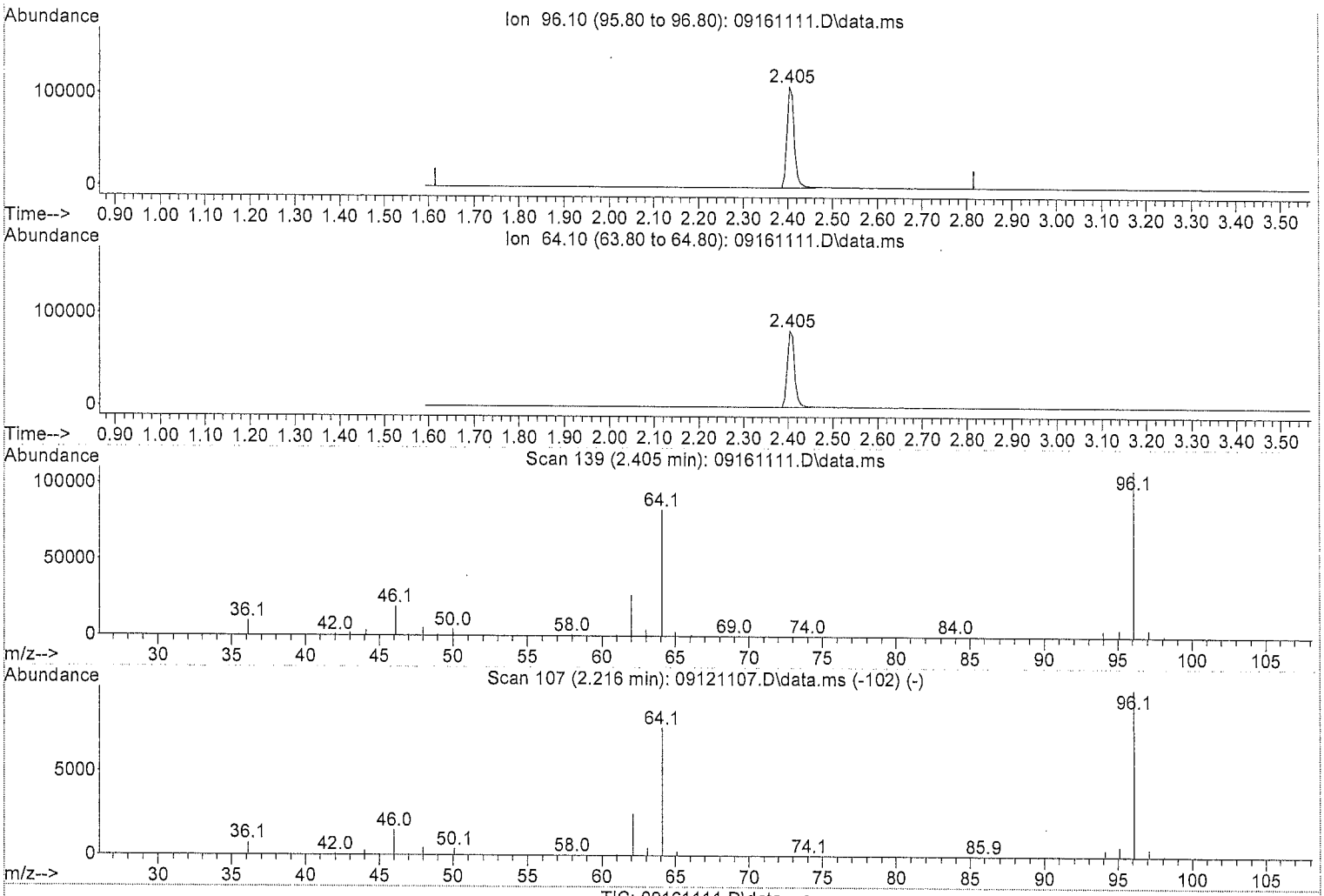
ID B 09-20-11

L 9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 17:12:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.405min (+ 0.189) 20.00 ug/mL m

response 122795

Ion	Exp%	Act%
96.10	100.00	100.00
64.10	78.50	76.19
0.00	0.00	0.00
0.00	0.00	0.00

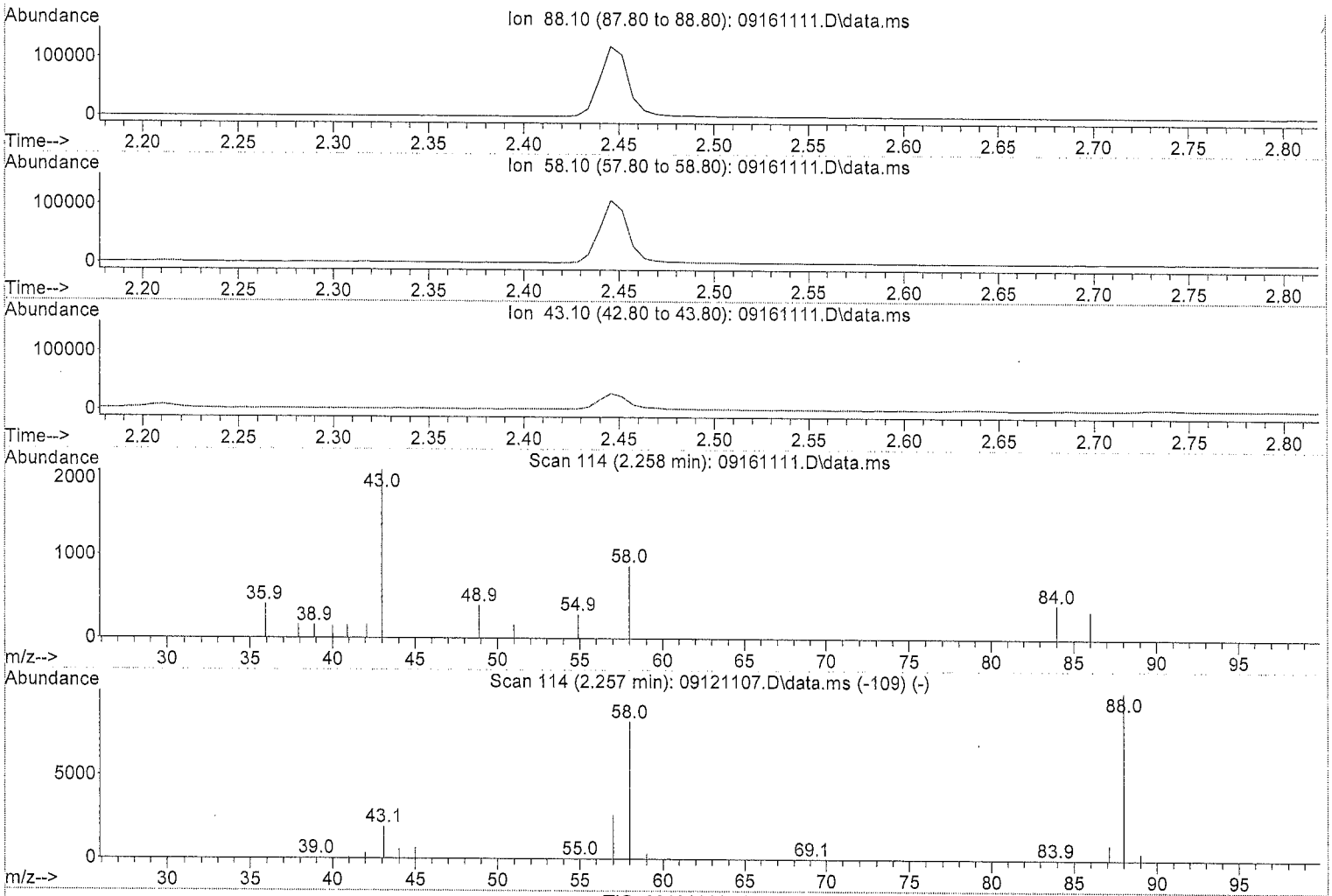
09-22-11

9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 17:12:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.257min (-2.257) 0.00 ug/mL

response 0

Ion	Exp%	Act%
88.10	100.00	0.00
58.10	86.00	0.00#
43.10	19.40	0.00
0.00	0.00	0.00

ID

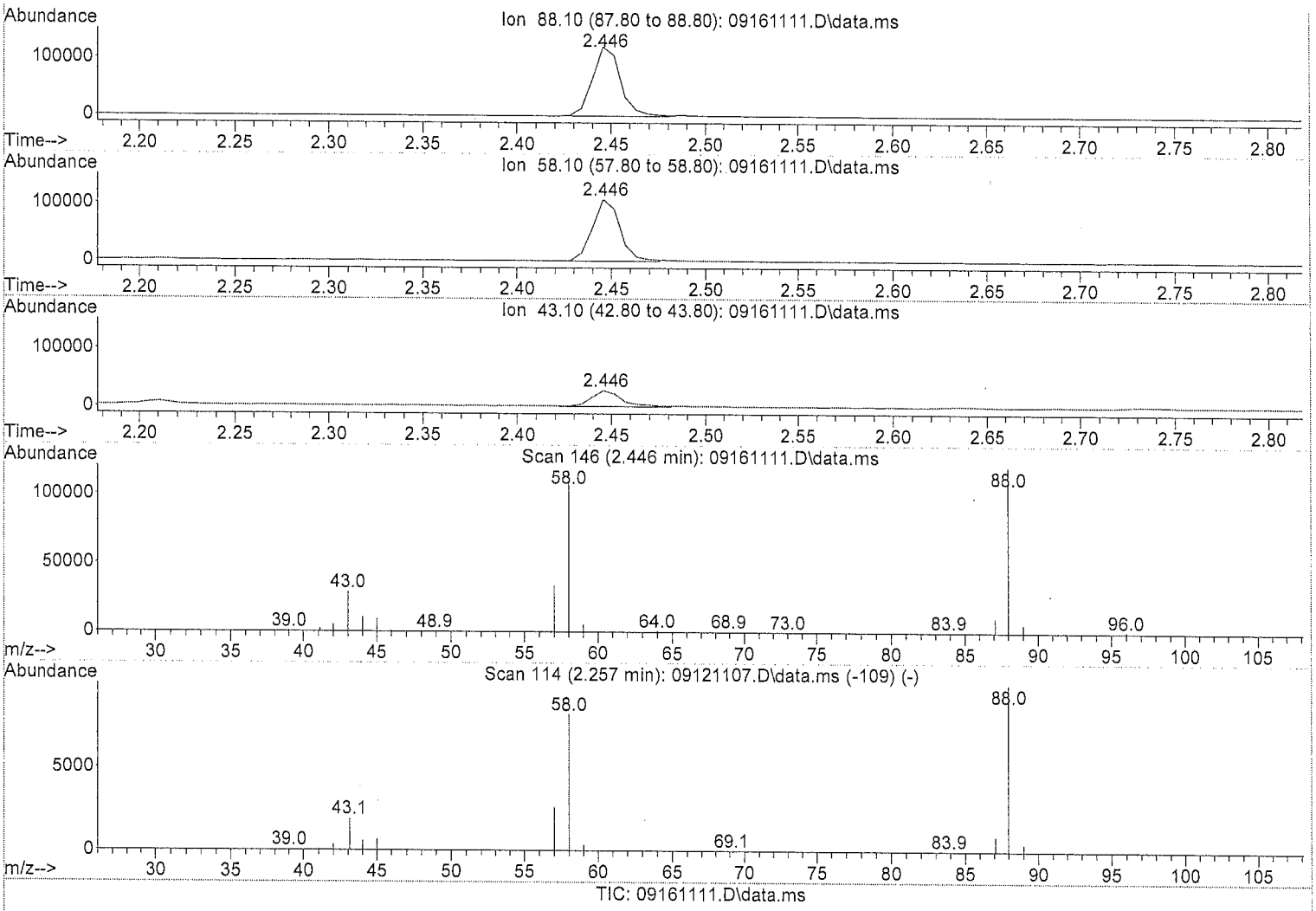
9/21/11

9-9-22-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 17:12:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.446min (+ 0.188) 20.09 ug/mL m

response 125770

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	86.00	87.73
43.10	19.40	25.52
0.00	0.00	0.00

CG. 20-11

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Sample Name 11I0534-BSD1
Data File Name 09161111.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 16:55
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	151772	187069	93534.5	374138	**PASS**
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.687	5.187	6.187	**PASS**

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Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:06:24 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	151772	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.405	96	122510m	15.1025 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

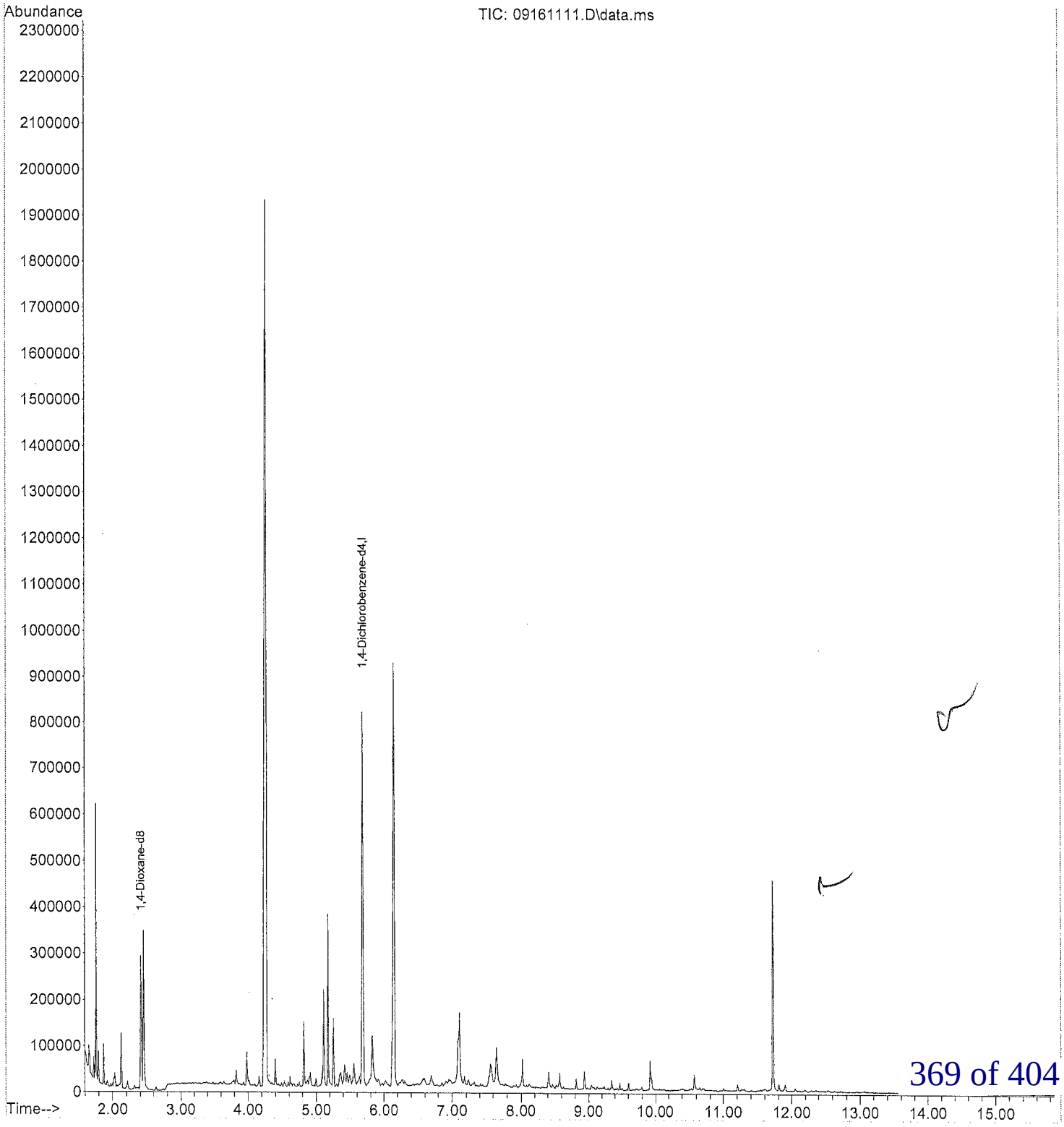
9/21/11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

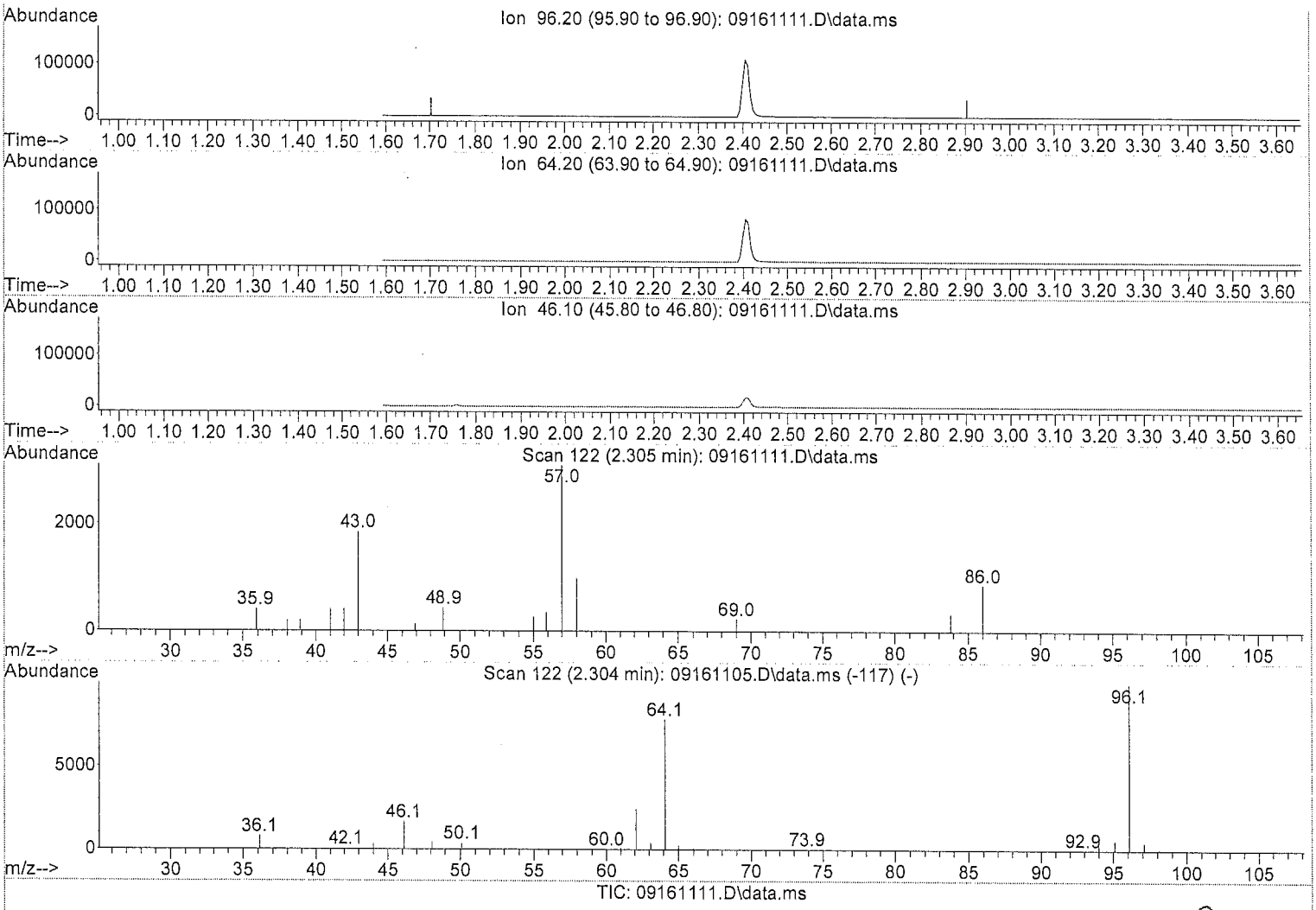
Quant Time: Sep 16 19:06:24 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:03:59 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



(2) 1,4-Dioxane-d8

2.304min (-2.304) 0.00 ug/mL

response 0

Ion	Exp%	Act%
96.20	100.00	0.00
64.20	79.50	0.00#
46.10	16.30	0.00
0.00	0.00	0.00

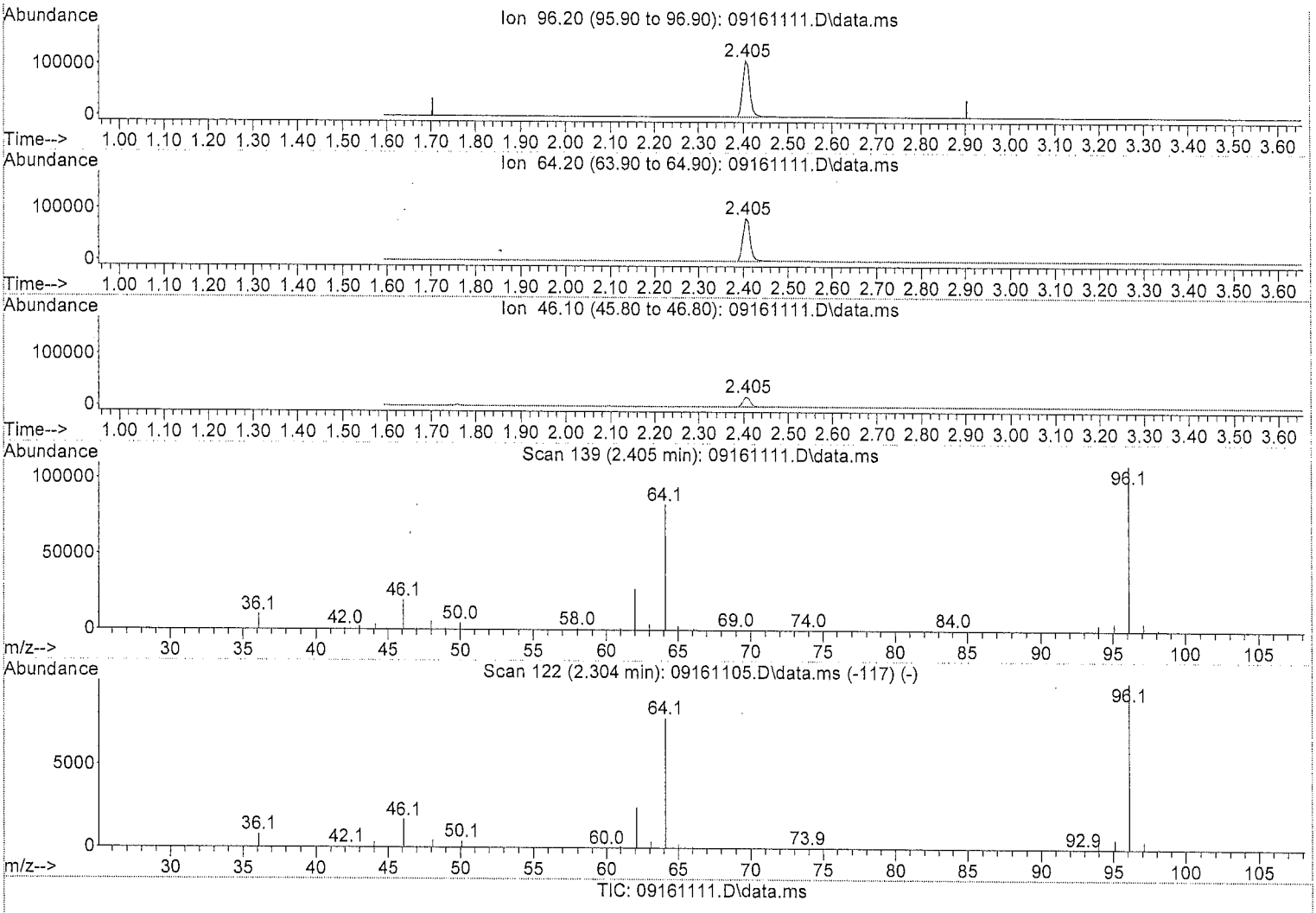
9/21/11

09-20-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161111.D
Acq On : 16 Sep 2011 4:55 pm
Operator : CL
Sample : 11I0534-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:03:59 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



(2) 1,4-Dioxane-d8

2.405min (+ 0.101) 15.10 ug/mL m

response 122510

Ion	Exp%	Act%
96.20	100.00	100.00
64.20	79.50	76.72
46.10	16.30	18.21
0.00	0.00	0.00

9/21/11

9/26-27-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 17:47:43 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.340	96	115224m	20.00 ug/mL	0.12
3) 1,4-Dichlorobenzene-d4	5.692	152	139525	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.175	82	466978	21.36 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.381	88	111768m	19.0249 ug/mL	
4) 1,4-Dichlorobenzene	5.686	146	219	0.0103 ug/mL#	1
5) N-Nitrosodi-n-propylamine	6.045	70	37794	3.5391 ug/mL#	50

(#) = qualifier out of range (m) = manual integration (+) = signals summed

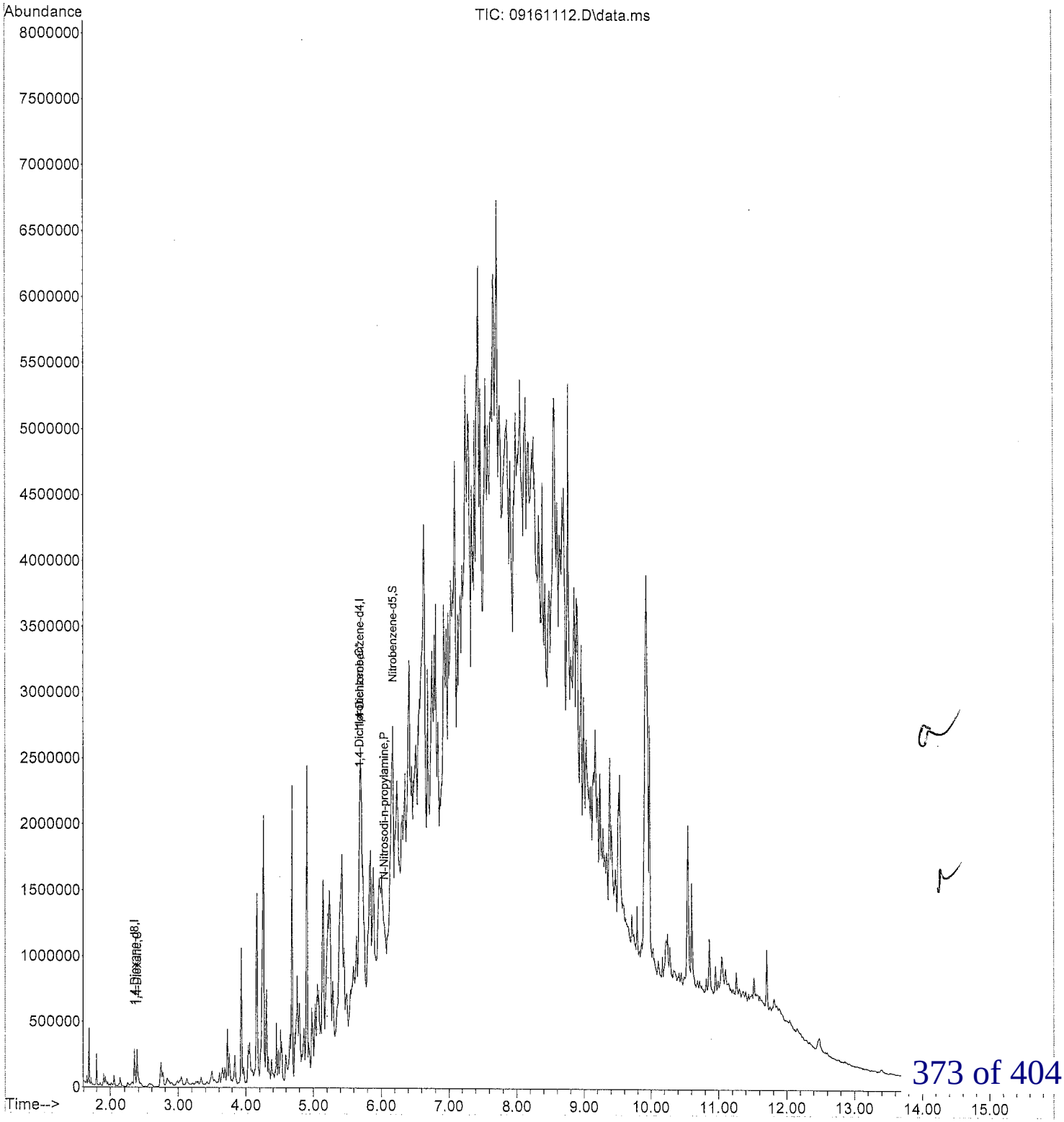
09-20-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 17:47:43 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

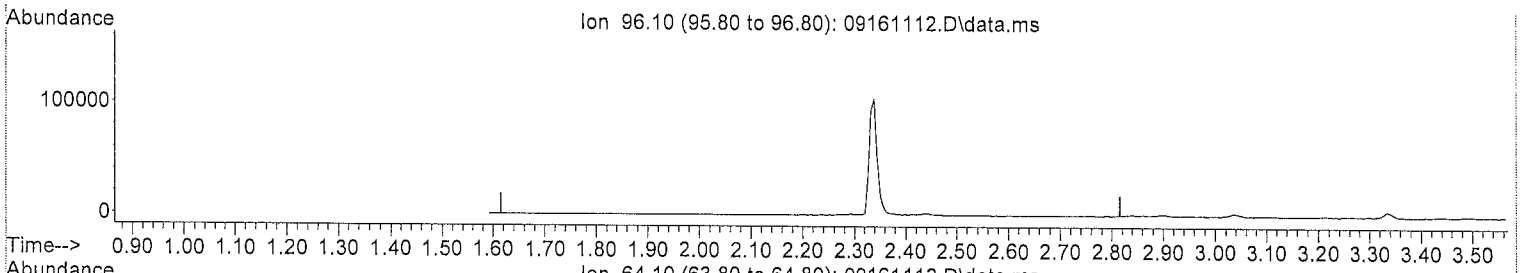


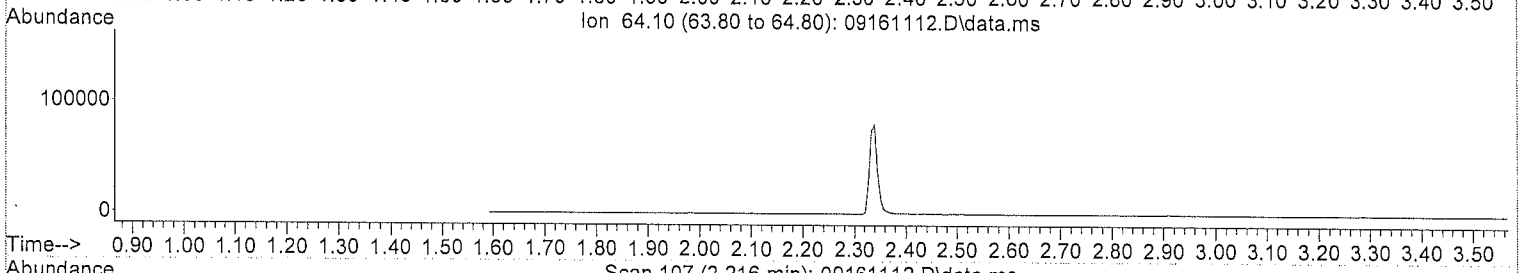
080911A.M Fri Sep 16 17:48:14 2011 GCMS14

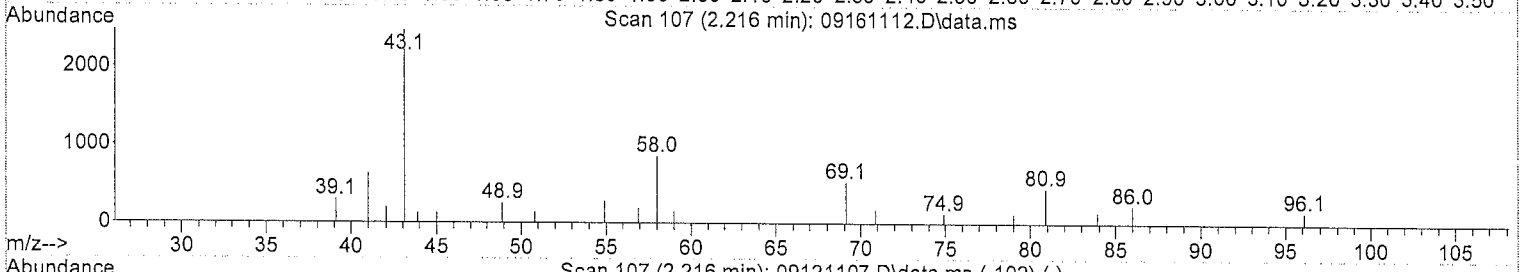
Quantitation Report (Qedit)

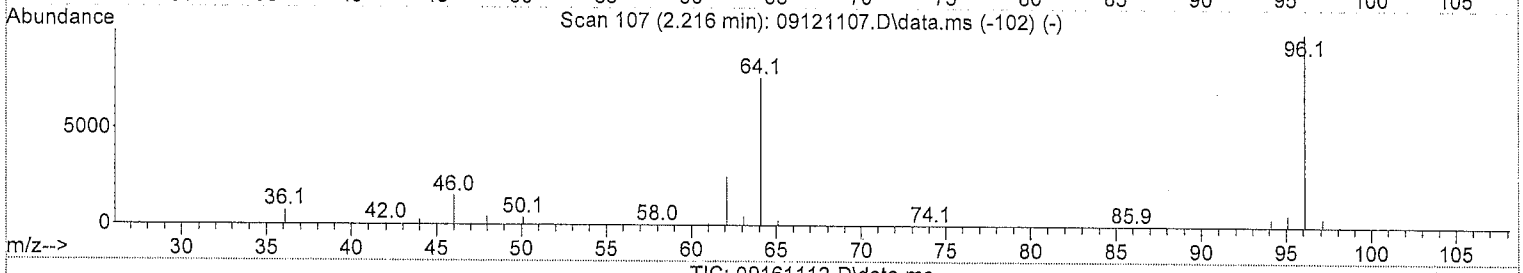
Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 17:46:37 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration









TIC: 09161112.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.216min (-2.216) 0.00 ug/mL

response 0

Ion	Exp%	Act%
96.10	100.00	0.00
64.10	78.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

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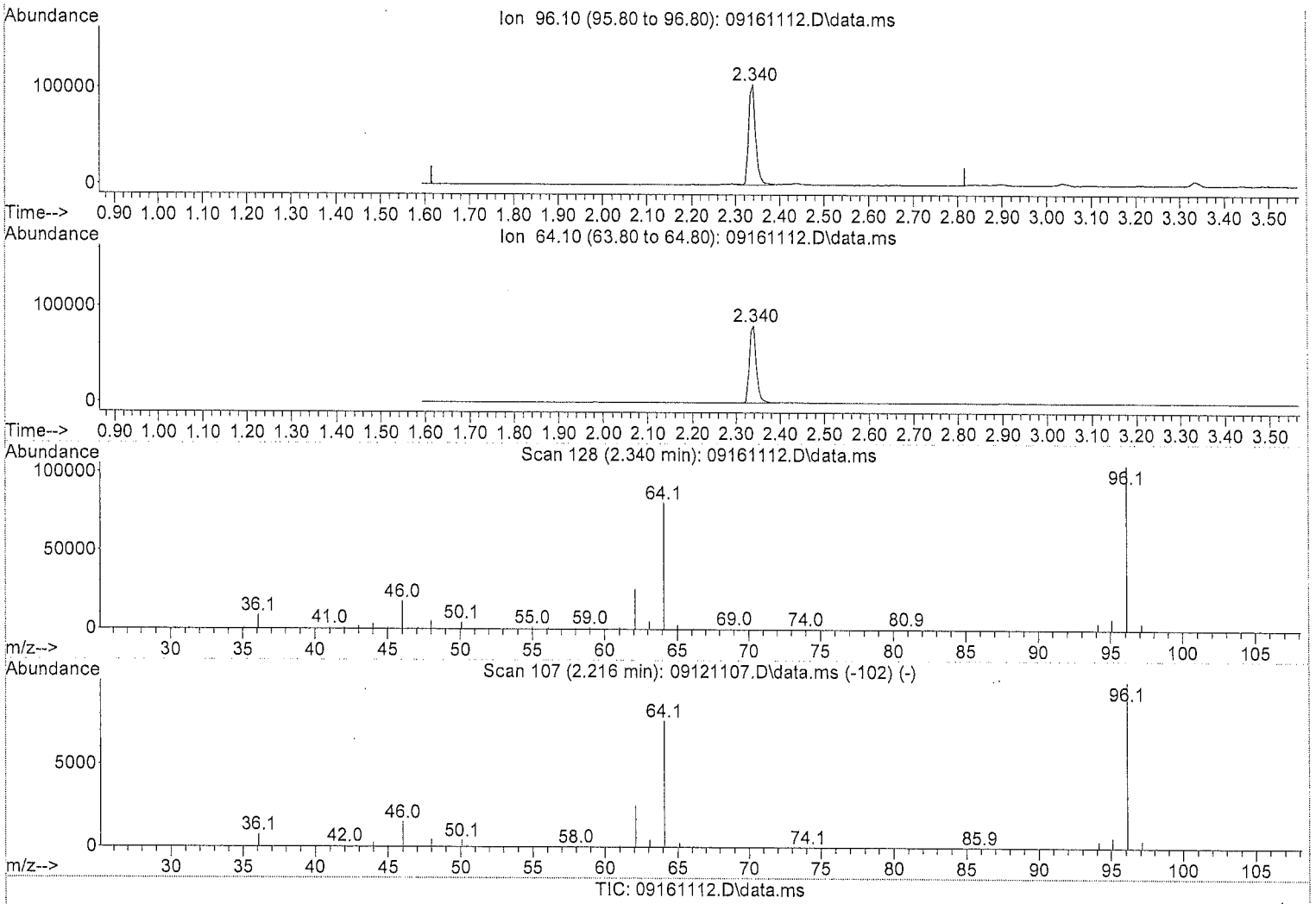
B 09-20-11

K 9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 17:46:37 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.340min (+ 0.124) 20.00 ug/mL m

response 115224

Ion	Exp%	Act%
96.10	100.00	100.00
64.10	78.50	76.54
0.00	0.00	0.00
0.00	0.00	0.00

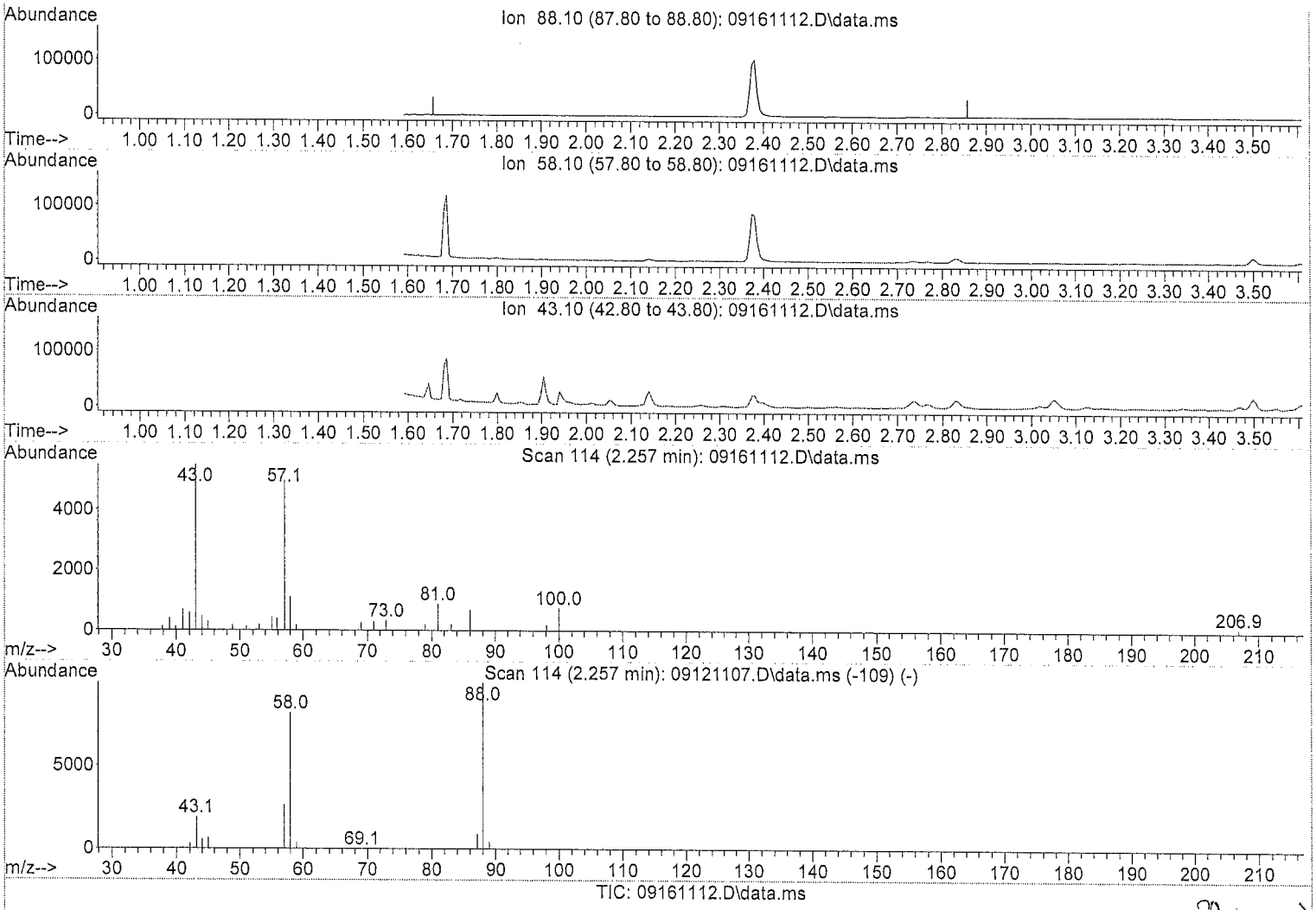
G/ 09-20-11

9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 17:46:37 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.257min (-2.257) 0.00 ug/mL

response 0

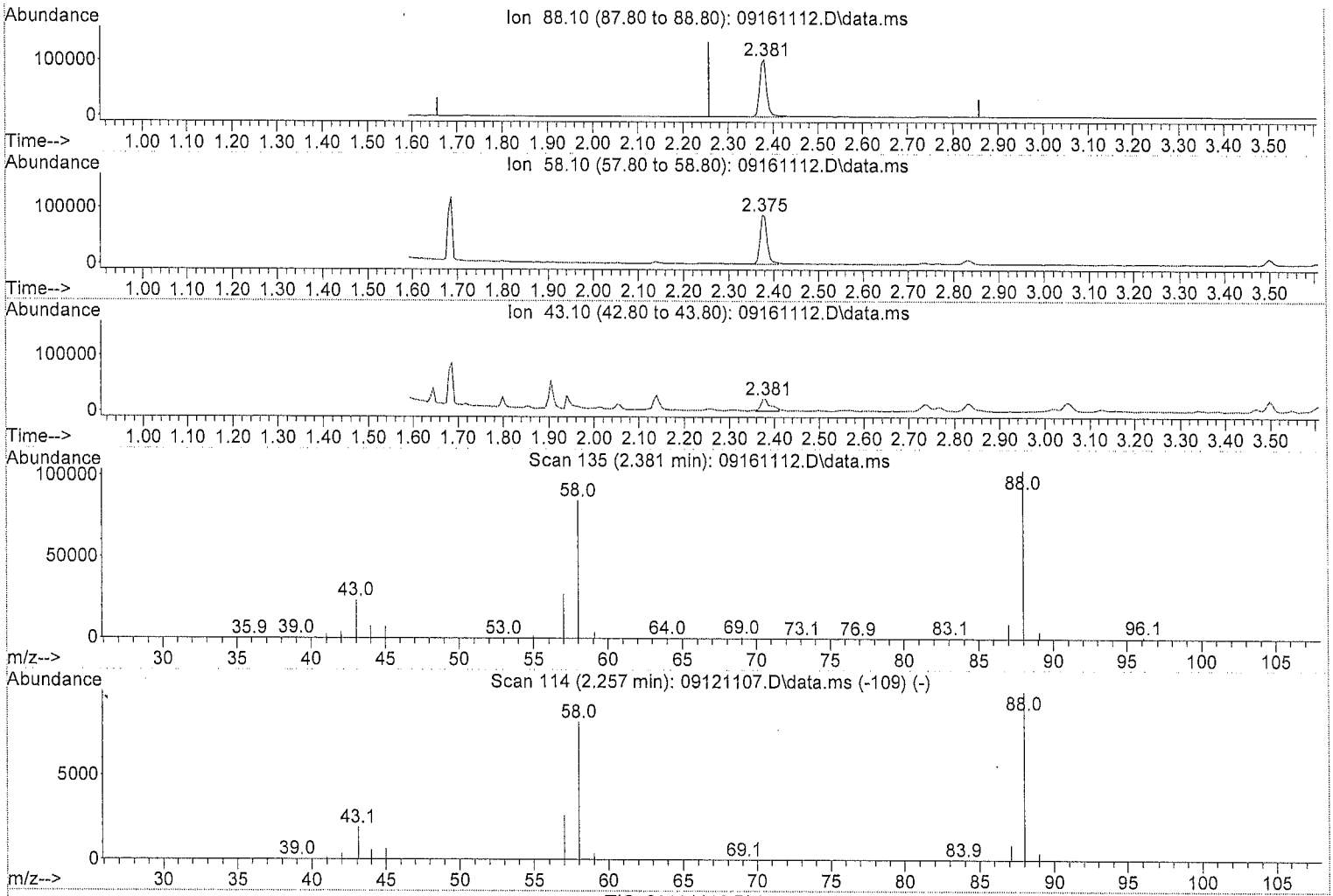
Ion	Exp%	Act%
88.10	100.00	0.00
58.10	86.00	0.00#
43.10	19.40	0.00
0.00	0.00	0.00

9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 17:46:37 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.381min (+ 0.123) 19.02 ug/mL m

response 111768

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	86.00	86.47
43.10	19.40	30.31
0.00	0.00	0.00

9/21/11

Sample Name PUI0764-02
Data File Name 09161112.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 17:21
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	139525	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.692	5.687	5.187	6.187	PASS

9/21/11

Quantitation Report (~~Not~~ Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 19:04:04 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.692	152	139525	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.340	96	112968	15.1486 ug/mL	98

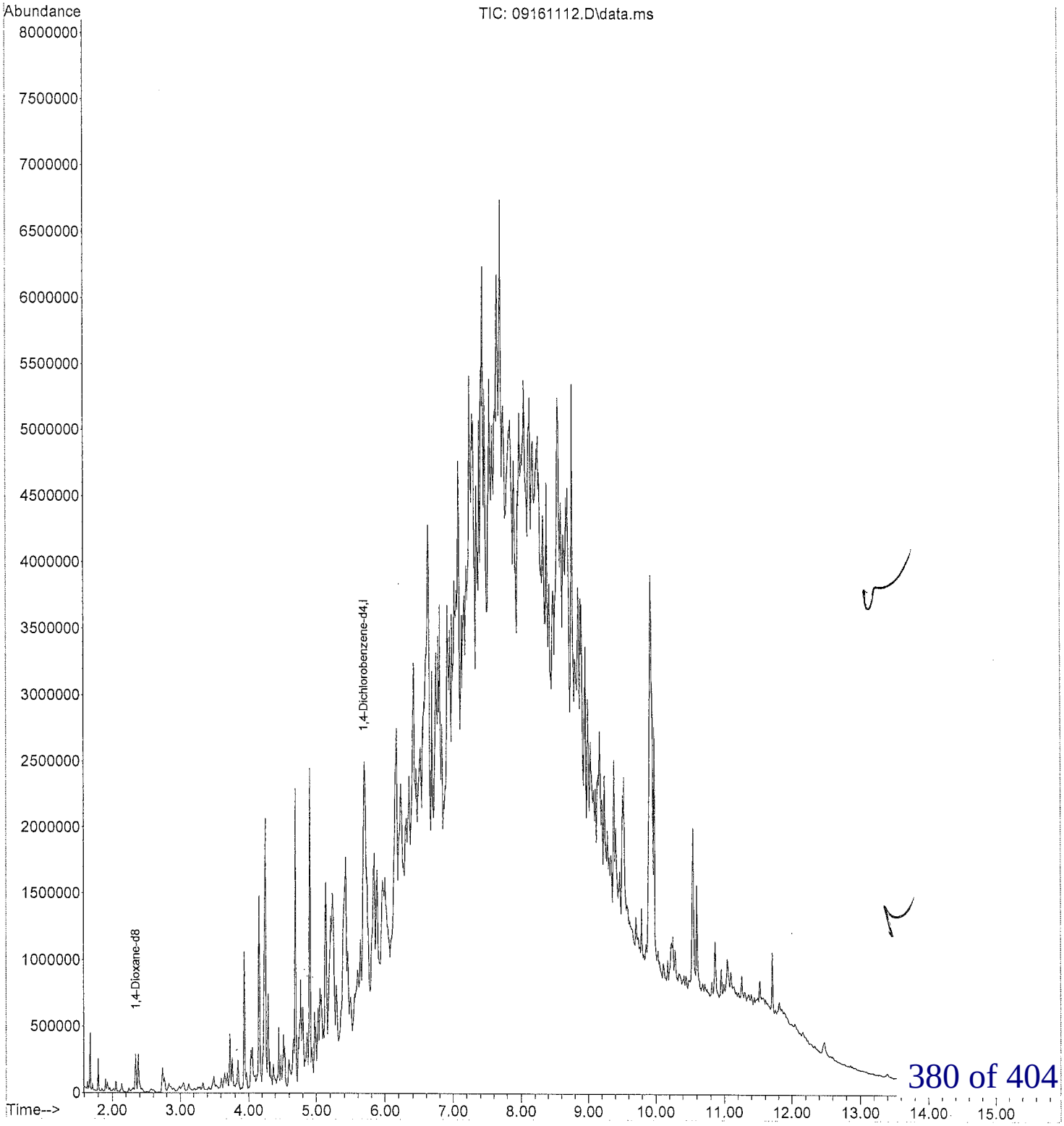
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161112.D
Acq On : 16 Sep 2011 5:21 pm
Operator : CL
Sample : PUI0764-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 19:04:04 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161113.D
Acq On : 16 Sep 2011 5:48 pm
Operator : CL
Sample : 11I0534-MS1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 18:11:24 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.240	96	95348	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	5.692	152	139853	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.175	82	433825	19.79 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.287	88	205004	42.1695 ug/mL	95
4) 1,4-Dichlorobenzene	5.692	146	51	0.0024 ug/mL#	1
5) N-Nitrosodi-n-propylamine	6.051	70	41945	3.9186 ug/mL#	51

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09-20-11

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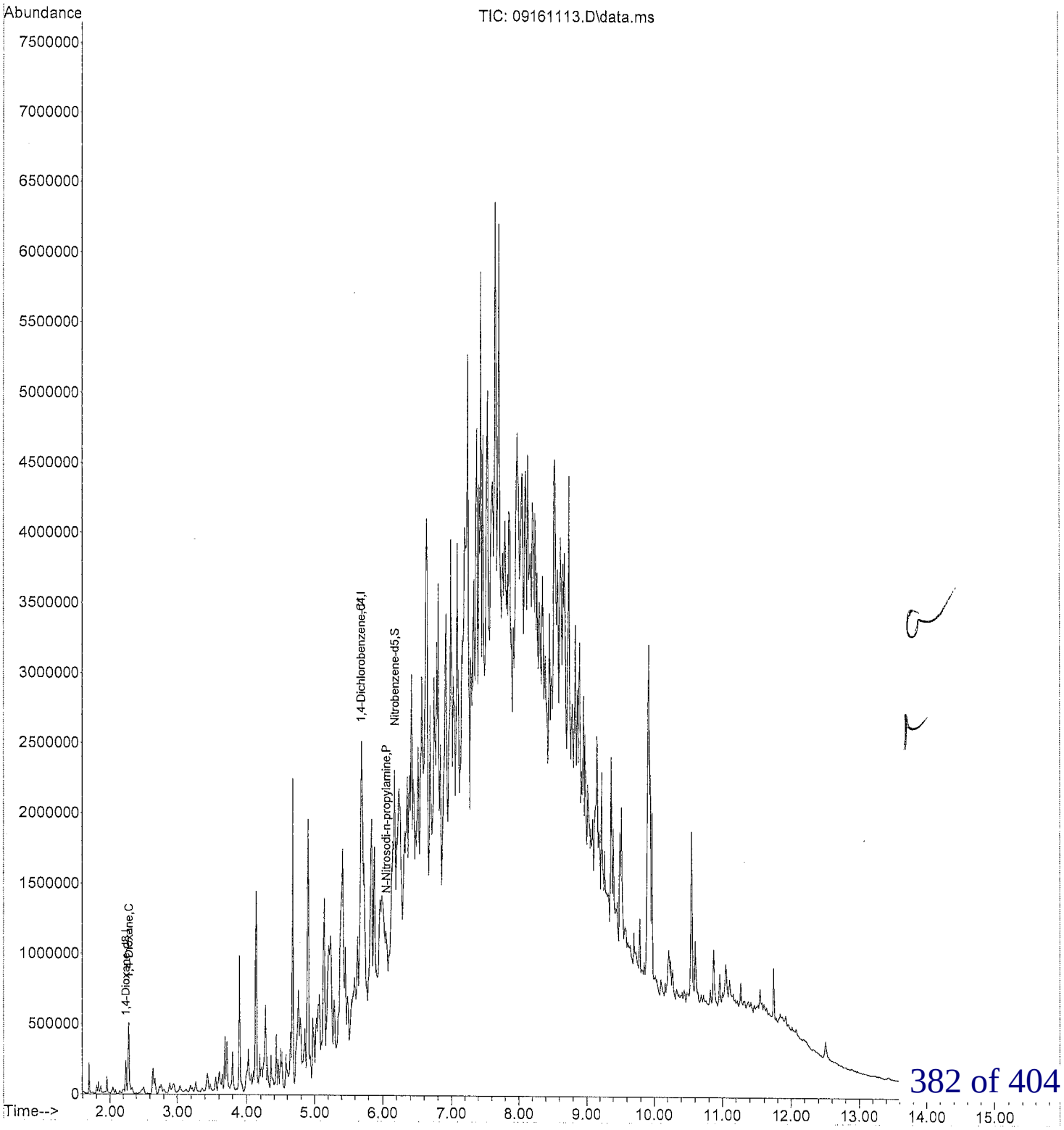
Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161113.D
Acq On : 16 Sep 2011 5:48 pm
Operator : CL
Sample : 11I0534-MS1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 18:11:24 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Sample Name 11I0534-MS1
Data File Name 09161113.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 17:48
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	139853	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.692	5.687	5.187	6.187	PASS

09/21/11

Quantitation Report (Not Reviewed)

09-W-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161113.D
Acq On : 16 Sep 2011 5:48 pm
Operator : CL
Sample : 11I0534-MS1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 19:04:09 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.692	152	139853	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.240	96	95348	12.7558 ug/mL	98

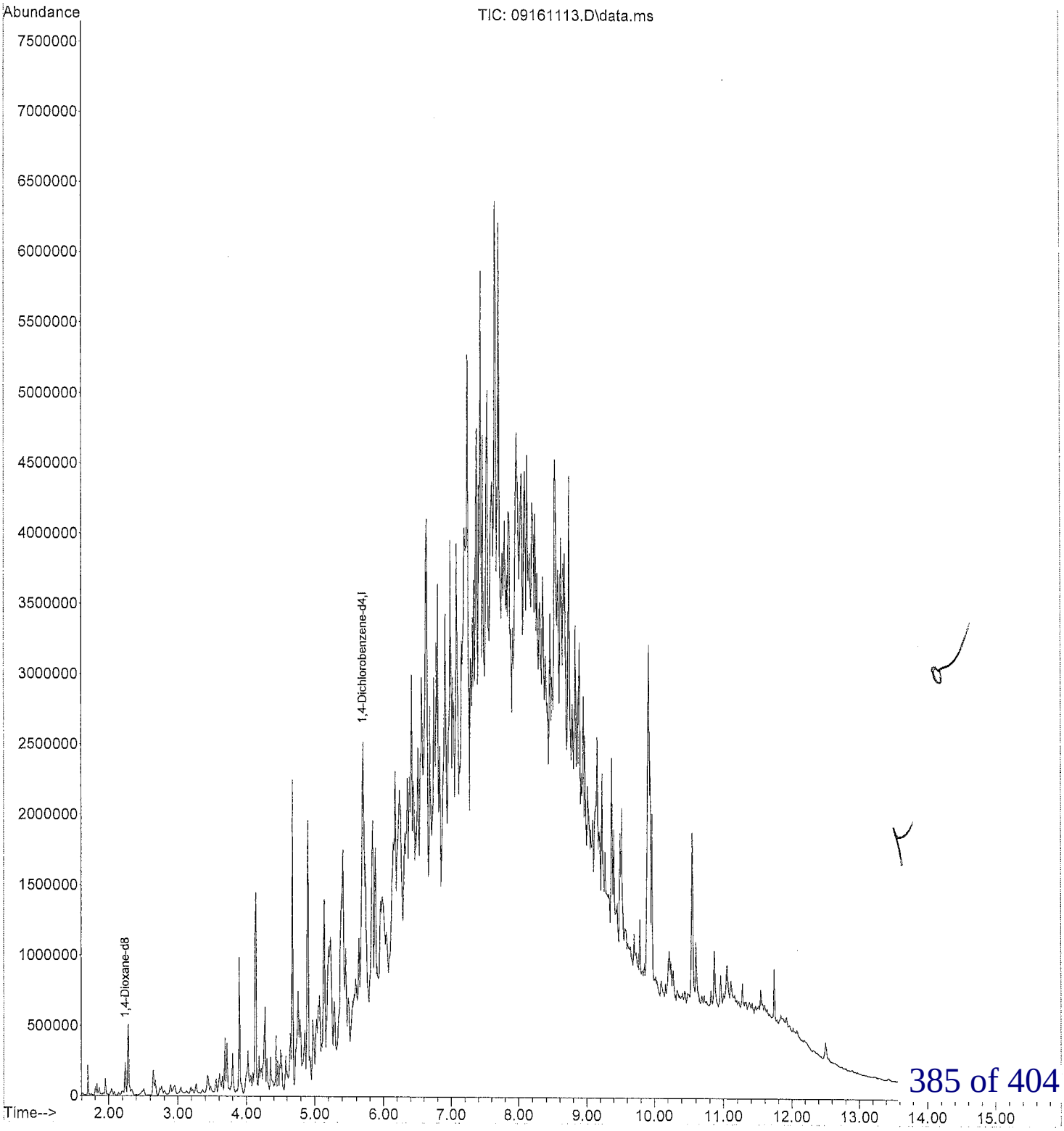
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161113.D
Acq On : 16 Sep 2011 5:48 pm
Operator : CL
Sample : 11I0534-MS1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 19:04:09 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161114.D
Acq On : 16 Sep 2011 6:14 pm
Operator : CL
Sample : 11I0534-MSD1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 18:41:22 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.228	96	110106	20.00 ug/mL	0.01
3) 1,4-Dichlorobenzene-d4	5.692	152	139903	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.181	82	442171	20.17 ug/mL	0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.269	88	231781	41.2871 ug/mL	95
4) 1,4-Dichlorobenzene	5.763	146	93	0.0044 ug/mL	78
5) N-Nitrosodi-n-propylamine	6.051	70	45336	4.2339 ug/mL#	50

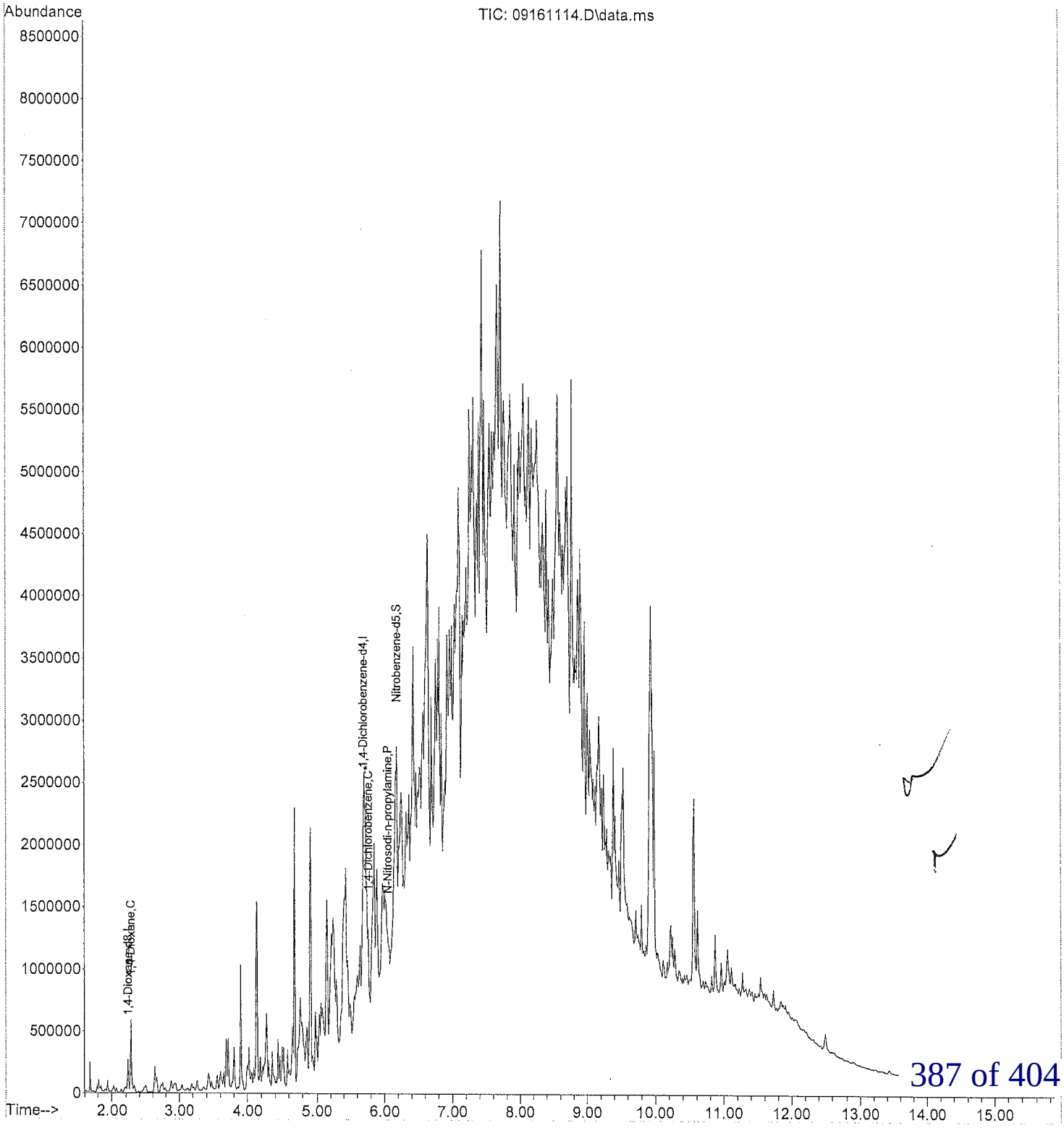
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161114.D
Acq On : 16 Sep 2011 6:14 pm
Operator : CL
Sample : 11I0534-MSD1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 18:41:22 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Sample Name 11I0534-MSD1
Data File Name 09161114.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 18:14
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	139903	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.692	5.687	5.187	6.187	PASS

9/21/11

Quantitation Report (Not Reviewed)

09-20-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161114.D
Acq On : 16 Sep 2011 6:14 pm
Operator : CL
Sample : 11I0534-MSD1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 19:04:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.692	152	139903	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.228	96	110106	14.7249 ug/mL	98

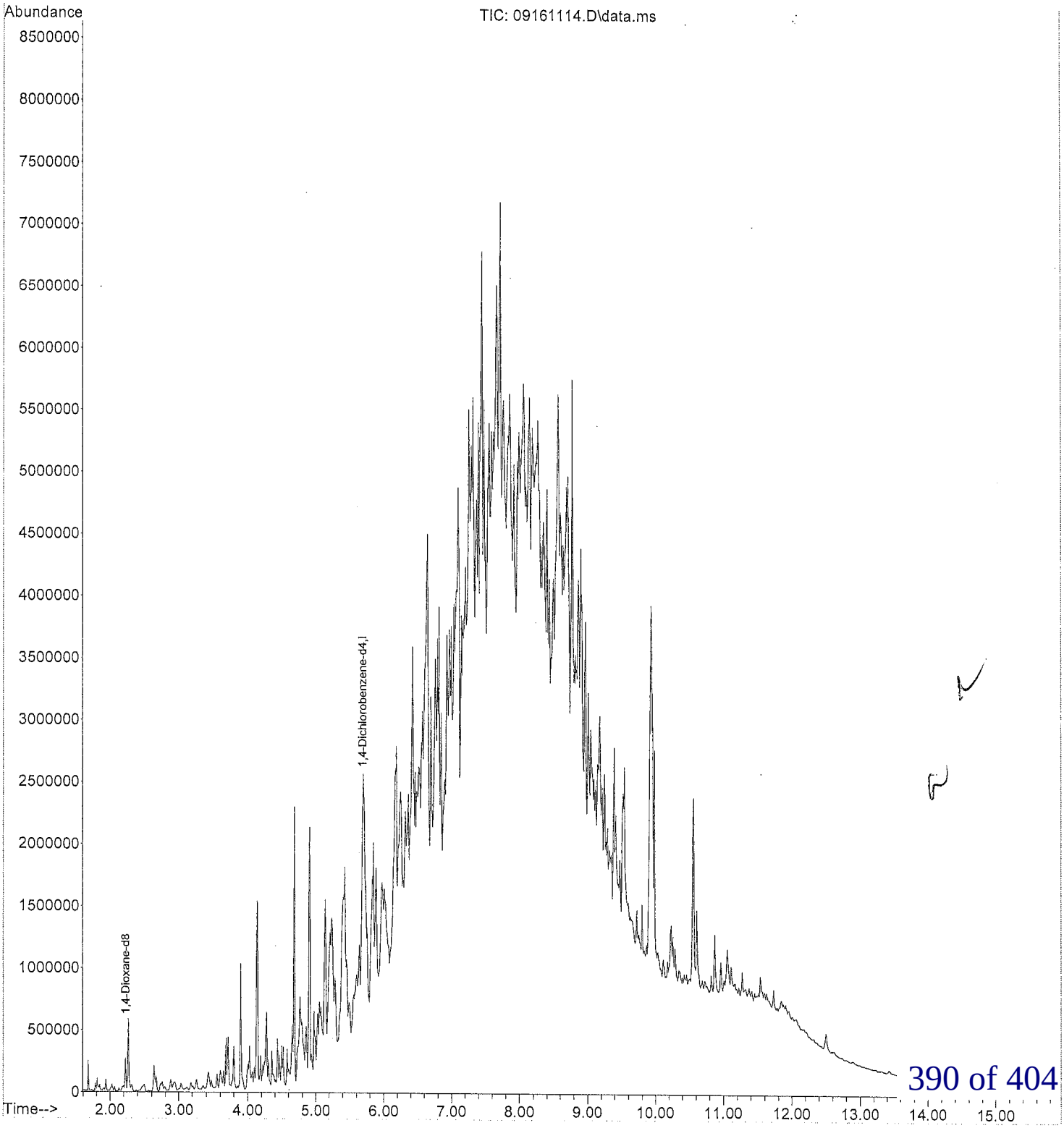
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/20/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161114.D
Acq On : 16 Sep 2011 6:14 pm
Operator : CL
Sample : 11I0534-MSD1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 19:04:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161116.D
Acq On : 16 Sep 2011 7:06 pm
Operator : CL
Sample : PUI0650-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:27:53 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.293	96	119918	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.687	152	159072	10.00 ug/mL	-0.01
System Monitoring Compounds					
6) Nitrobenzene-d5	6.157	82	439204	17.62 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.334	88	582	0.0952 ug/mL#	59
4) 1,4-Dichlorobenzene	5.687	146	97	0.0040 ug/mL#	1

ND

09-19-11

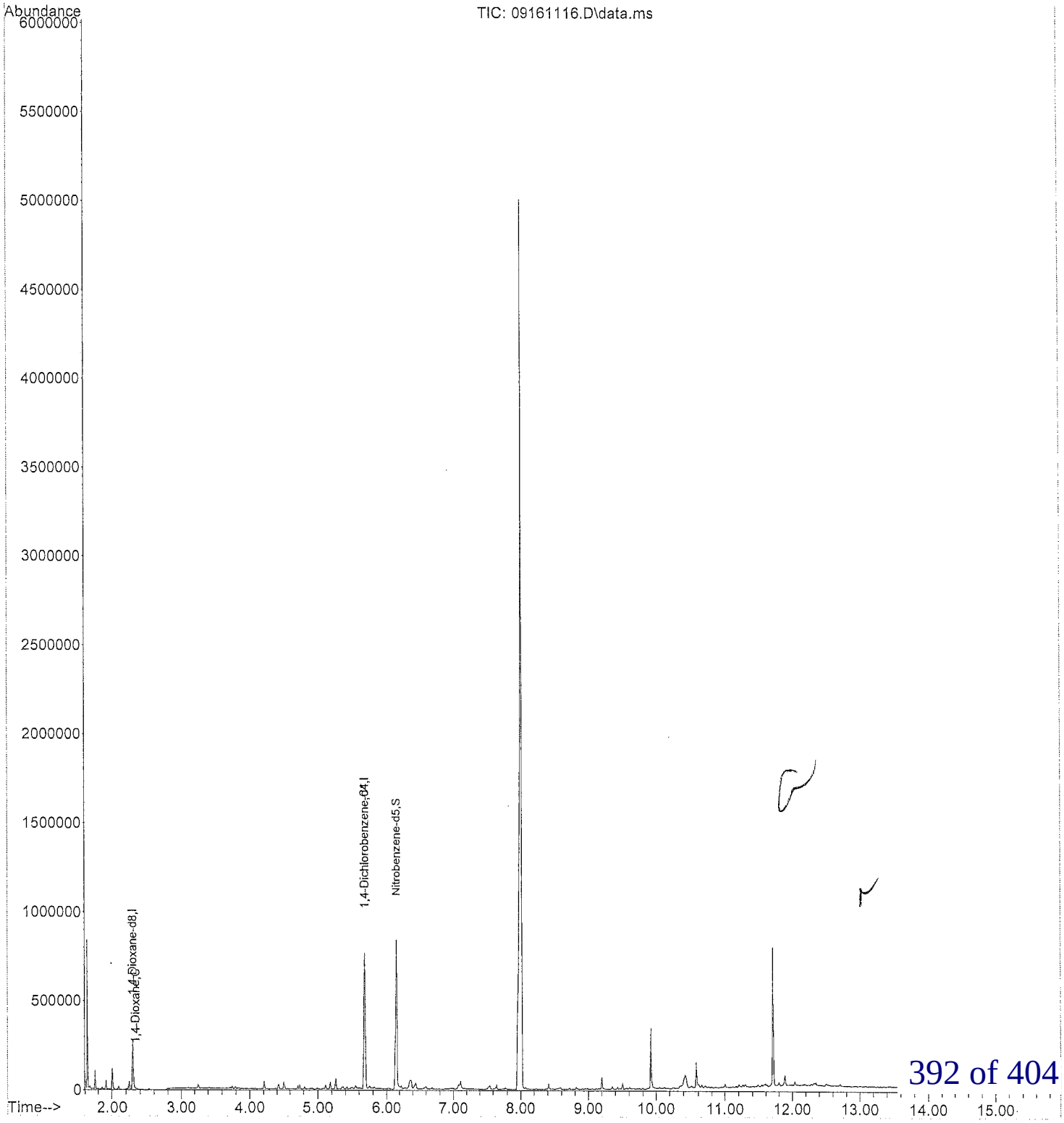
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161116.D
Acq On : 16 Sep 2011 7:06 pm
Operator : CL
Sample : PUI0650-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

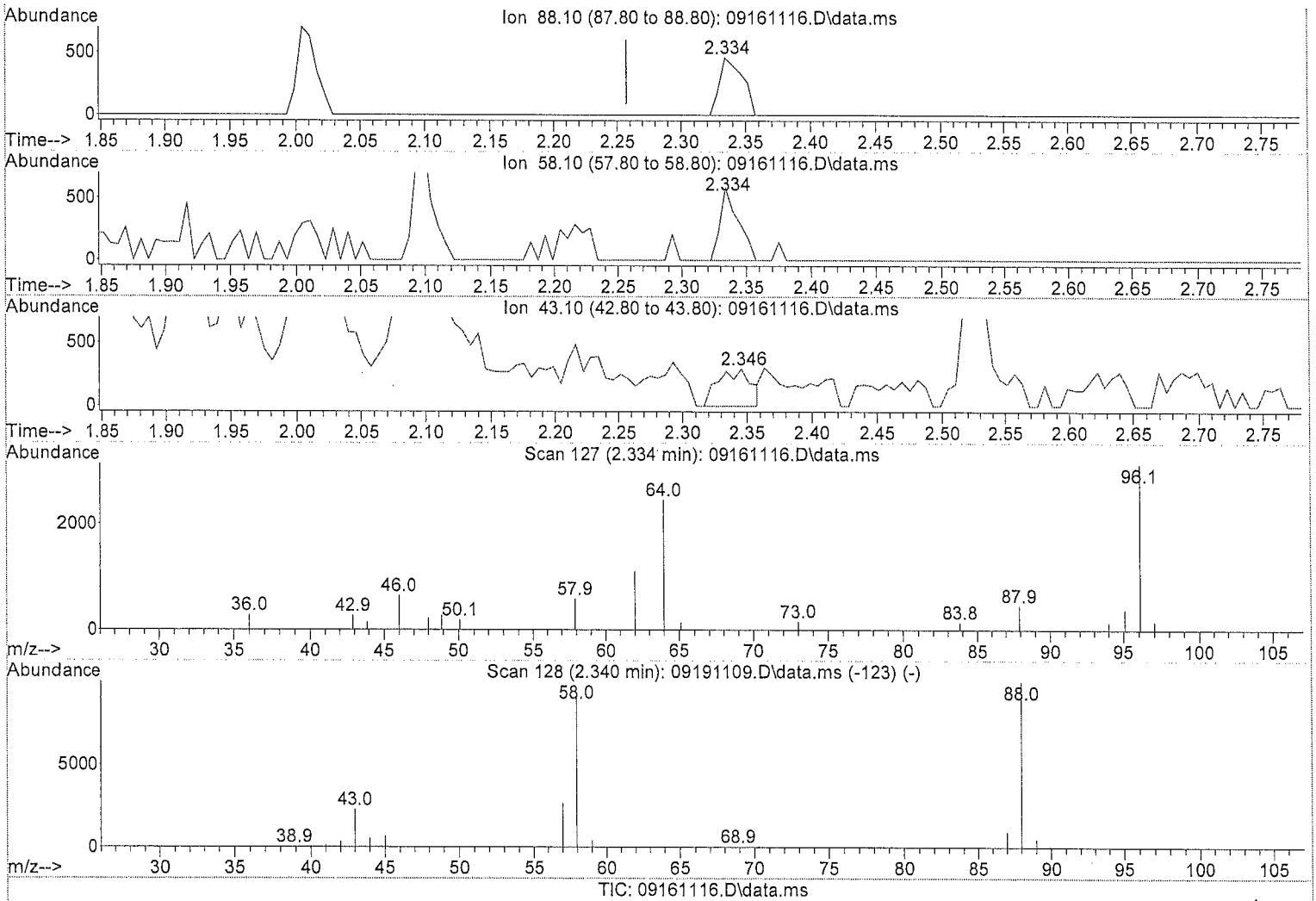
Quant Time: Sep 18 10:27:53 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161116.D
Acq On : 16 Sep 2011 7:06 pm
Operator : CL
Sample : PUI0650-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:27:53 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.334min (+ 0.077) 0.10 ug/mL

response 582

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	86.00	99.83
43.10	19.40	90.89#
0.00	0.00	0.00

MD 09-20-11

9/21/11

Sample Name PUI0650-01
Data File Name 09161116.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 19:06
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	159072	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.687	5.687	5.187	6.187	PASS

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161116.D
Acq On : 16 Sep 2011 7:06 pm
Operator : CL
Sample : PUI0650-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 14:32:13 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

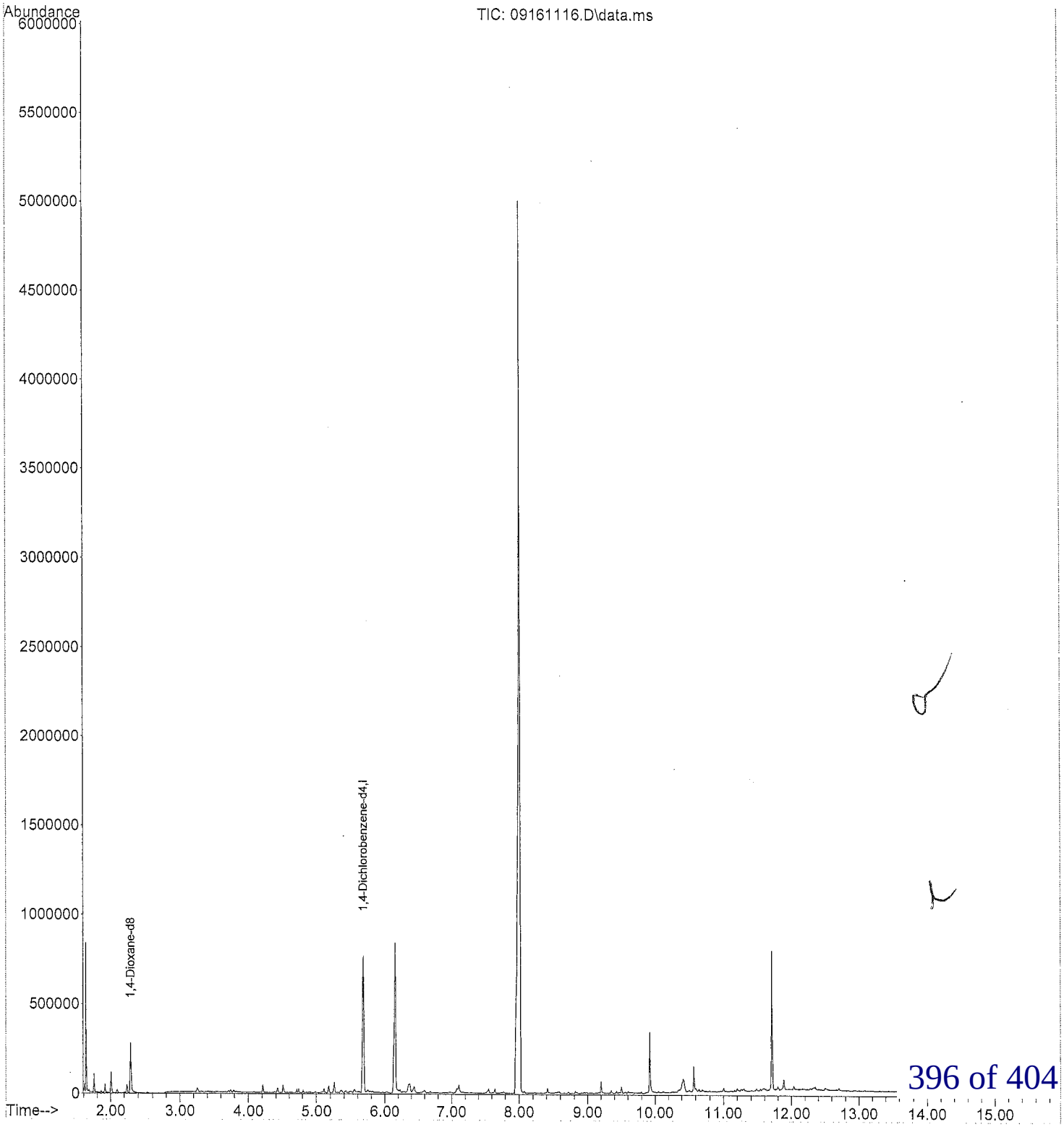
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.687	152	159072	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.293	96	119918	14.1046 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161116.D
Acq On : 16 Sep 2011 7:06 pm
Operator : CL
Sample : PUI0650-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 14:32:13 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:29:29 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.381	96	126072m	20.00 ug/mL	0.16
3) 1,4-Dichlorobenzene-d4	5.681	152	164973	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.157	82	507017	19.61 ug/mL	-0.01
Target Compounds					Qvalue
4) 1,4-Dichlorobenzene	5.687	146	123	0.0049 ug/mL#	1

na

09-19-11

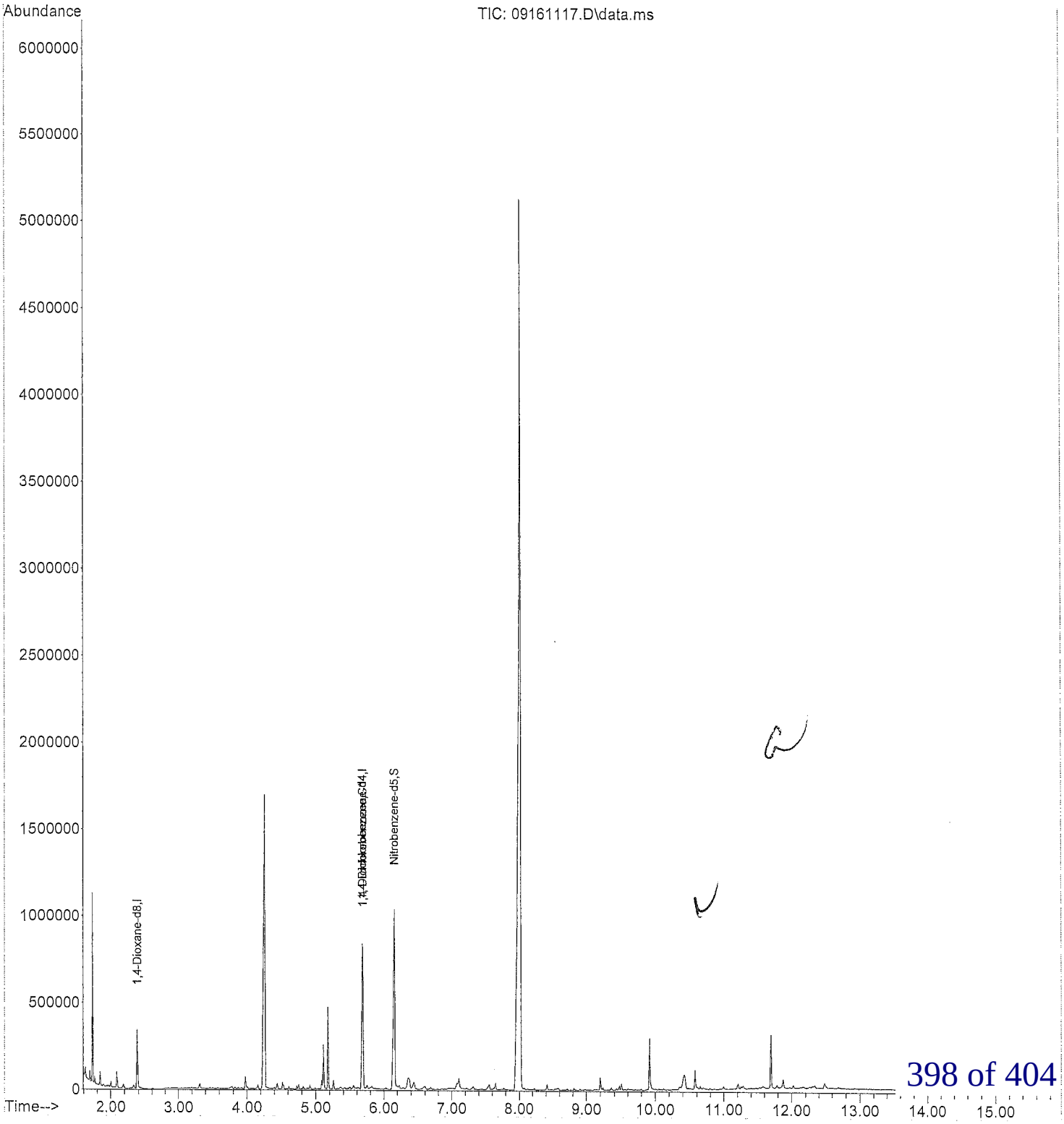
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

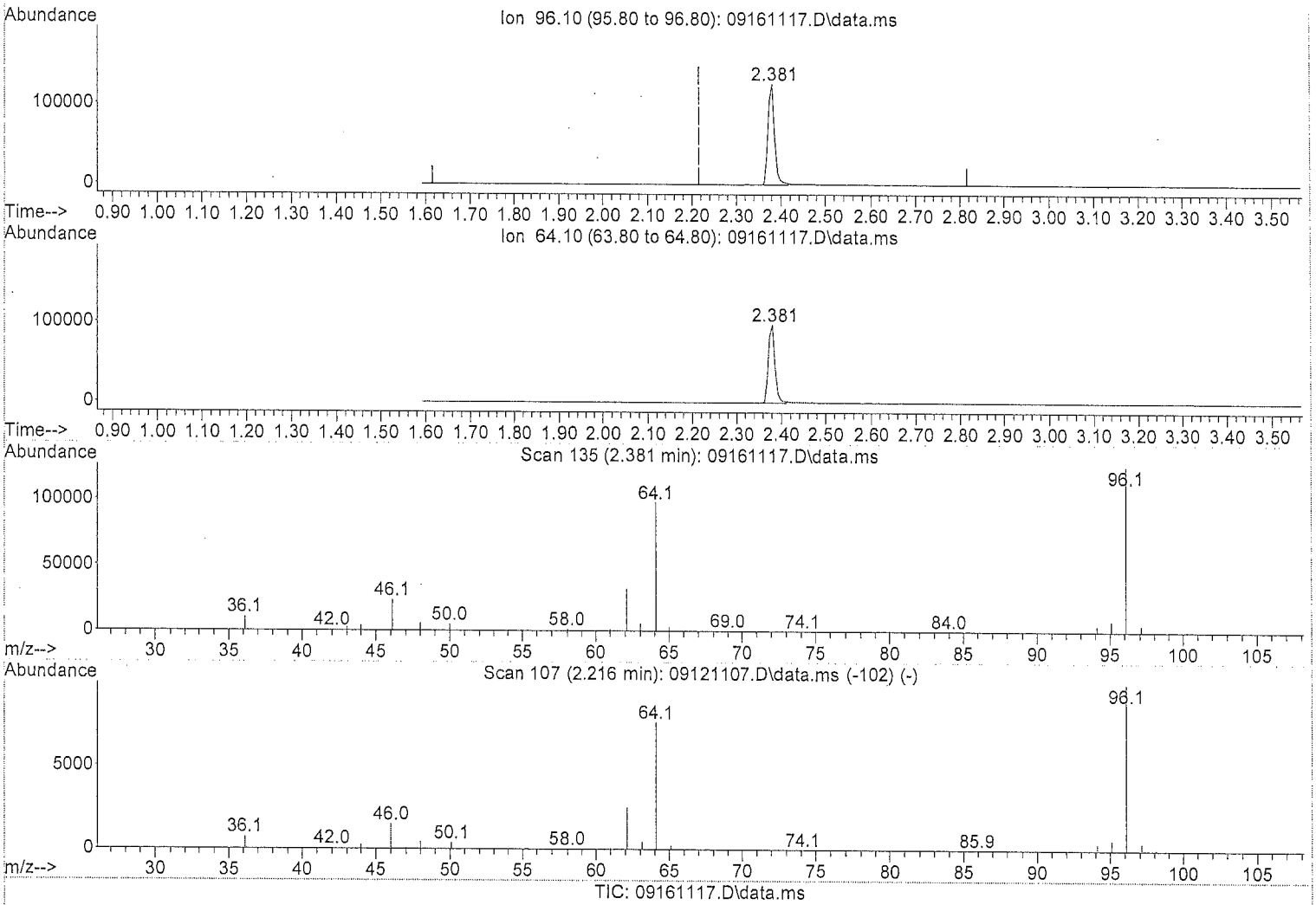
Quant Time: Sep 18 10:29:29 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:29:11 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



TIC: 09161117.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.381min (+ 0.165) 20.00 ug/mL m

response 126072

Ion	Exp%	Act%
96.10	100.00	100.00
64.10	78.50	78.24
0.00	0.00	0.00
0.00	0.00	0.00

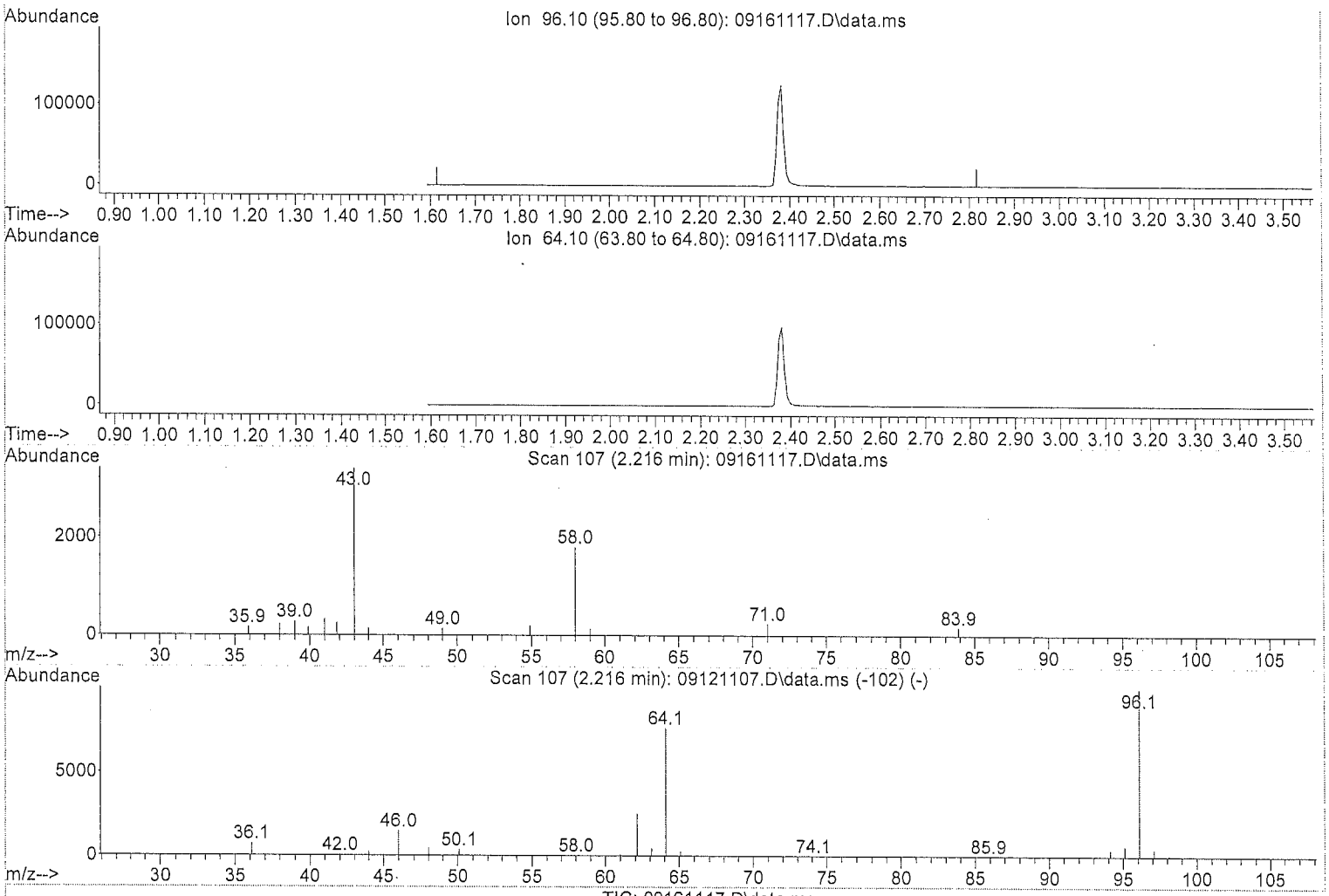
9/21/11

a
09-19-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:29:11 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.216min (-2.216) 0.00 ug/mL

response 0

Ion	Exp%	Act%
96.10	100.00	0.00
64.10	78.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

B

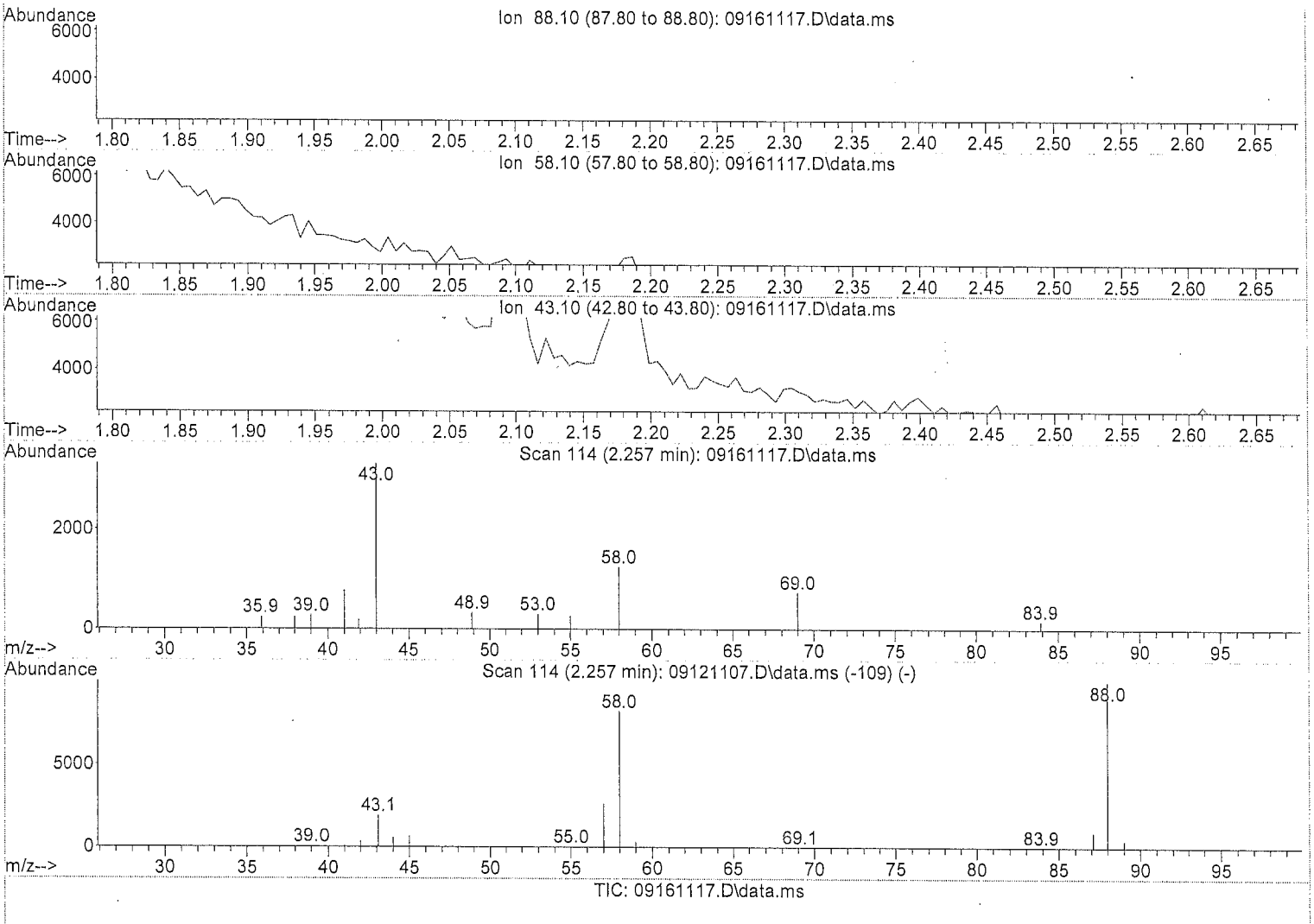
TD 09-1971

9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:29:11 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.257min (-2.257) 0.00 ug/mL

response 0

Ion	Exp%	Act%
88.10	100.00	0.00
58.10	86.00	0.00#
43.10	19.40	0.00
0.00	0.00	0.00

9/21/11 WD 09-19-11

Sample Name PUI0650-02
Data File Name 09161117.D
Data File Path D:\msdchem\1\GCMS14\DATA\091611\
Operator CL
Date Acquired 9/16/2011 19:32
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05535
09161105.D
D:\msdchem\1\GCMS14\DATA\091611\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	164973	187069	93534.5	374138	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.687	5.187	6.187	PASS

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 14:32:19 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	164973	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.381	96	129535	14.6907 ug/mL	98

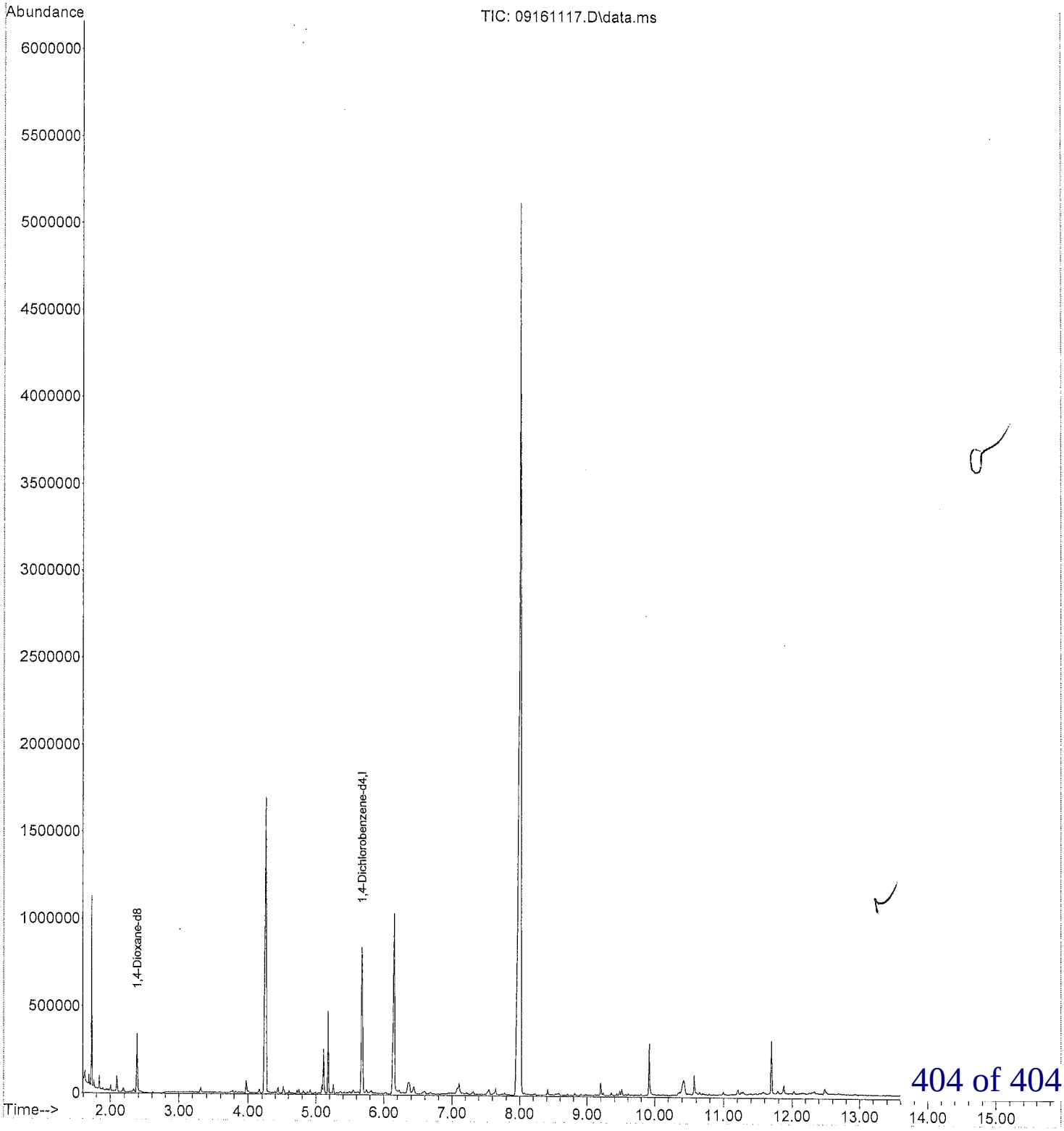
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091611¥
Data File : 09161117.D
Acq On : 16 Sep 2011 7:32 pm
Operator : CL
Sample : PUI0650-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 14:32:19 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Fri Sep 16 17:53:05 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091611¥09161105.D



Level III Data Package

Environmental Resources Management Inc.

TestAmerica Work Order Number:

PUI0741

Prepared for:

Jason Hilker
Environmental Resources Management, Inc.
7272 East Indian School Road, Suite 100
Scottsdale, AZ 85251

QA/QC DATA PACKAGE: LEVEL III

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CHAIN OF CUSTODY.....	4-5
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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3 0096498.030

Sampled: 09/13/11
Received: 09/13/11
Revised: 11/21/11 15:36

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0741-01	OU3-8M2-M-091311	Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.
N1 = Laboratory Control Sample Duplicate recovered low and outside of client acceptance limits for Bromodichloromethane, cis-1,3-Dichloropropene and trans-1,3-Dichloropropene. Recovery was within the laboratory acceptance limits . All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kyli Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

Environmental Resources Management

CHAIN OF CUSTODY RECORD

PUI0741

NO: 30453

5 of 183

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Page 1 of

PROJECT #	PROJECT NAME
0096498.030	003

SAMPLER: (PRINT NAME)	(SIGNATURE)
Adam Nagle	[signature]

RECEIVING LABORATORY: Test America Phoenix, AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESER-VATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	REQUESTED PARAMETERS: VOC (8260B)	REQUESTED PARAMETERS: 1,4-Dioxane (8270C)								
003-BMW-M-091311	9/13/11	1523		x	Pump	HCl / –	Y	40ml / 1L	3 / 2		x		x	x								01

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
[signature] /ERM	9/13	1700			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
			[signature]	9/13/11	1700

FIELD REMARKS: Level III Analysis

3.6°C 24°C

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO: Jason.Hilker@erm.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0741-01 (OU3-8M2-M-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**0.54**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

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Kyli Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0741-01 (OU3-8M2-M-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	**24**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**7.1**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*86 %*				

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0741-01 (OU3-8M2-M-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	ND	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*101 %*				

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QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
Acetone	20.5	10	ug/l	25.0		82	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.2	0.50	ug/l	25.0		93	80-125			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	80-120			
Bromoform	23.4	1.0	ug/l	25.0		94	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150			
n-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	23.3	0.50	ug/l	25.0		93	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
Chloroethane	22.0	1.0	ug/l	25.0		88	70-130			
Chloroform	22.2	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.4	1.0	ug/l	25.0		77	60-140			
2-Chlorotoluene	23.7	0.50	ug/l	25.0		95	80-120			
4-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
Dibromochloromethane	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	50-150			
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120			
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	19.3	0.50	ug/l	25.0		77	60-150			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		89	70-125			
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		83	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

TestAmerica Phoenix

Kyli Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Hexachlorobutadiene	25.1	1.0	ug/l	25.0		100	40-150			
2-Hexanone	18.7	2.5	ug/l	25.0		75	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	26.4	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	24.8	0.50	ug/l	25.0		99	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0		72	60-135			
Methyl-tert-butyl Ether (MTBE)	19.0	0.50	ug/l	25.0		76	70-130			
Naphthalene	21.9	2.5	ug/l	25.0		88	40-150			
n-Propylbenzene	25.0	0.50	ug/l	25.0		100	75-130			
Styrene	22.4	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0		99	75-125			
1,1,2,2-Tetrachloroethane	22.4	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130			
Toluene	24.4	0.50	ug/l	25.0		97	80-120			
1,2,3-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	50-150			
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Trichloroethene	24.9	0.50	ug/l	25.0		99	80-120			
Trichlorofluoromethane	22.0	0.50	ug/l	25.0		88	70-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	19.7	1.0	ug/l	25.0		79	40-150			
Vinyl chloride	22.6	0.50	ug/l	25.0		91	70-130			
Xylenes, Total	49.8	1.5	ug/l	50.0		100	60-140			
Freon 113	23.3	2.0	ug/l	25.0		93	60-140			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*97*	*80-125*			

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Kyli Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
Acetone	20.4	10	ug/l	25.0		82	10-150	0.4	35	
Benzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120	7	15	
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125	3	15	
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120	6	15	*N1*
Bromoform	21.7	1.0	ug/l	25.0		87	75-130	8	20	
Bromomethane	23.4	1.0	ug/l	25.0		94	55-150	0.9	20	
2-Butanone (MEK)	19.6	2.5	ug/l	25.0		79	40-150	4	35	
n-Butylbenzene	22.9	0.50	ug/l	25.0		92	80-130	5	15	
sec-Butylbenzene	23.8	0.50	ug/l	25.0		95	80-125	6	15	
tert-Butylbenzene	23.2	0.50	ug/l	25.0		93	80-120	7	15	
Carbon disulfide	22.7	0.50	ug/l	25.0		91	70-140	3	15	
Carbon tetrachloride	23.9	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
Chloroethane	20.2	1.0	ug/l	25.0		81	70-130	8	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140	5	20	
2-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
4-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	5	15	
Dibromochloromethane	21.6	0.50	ug/l	25.0		86	80-120	4	15	
1,2-Dibromo-3-chloropropane	19.8	2.5	ug/l	25.0		79	50-150	10	35	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Dibromomethane	22.1	0.50	ug/l	25.0		88	75-120	8	15	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	7	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	8	15	
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
Dichlorodifluoromethane	18.6	0.50	ug/l	25.0		74	60-150	4	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		88	70-125	1	15	
1,2-Dichloroethane	19.5	0.50	ug/l	25.0		78	75-130	6	15	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125	1	20	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	80-120	6	15	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120	0.4	15	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	80-120	5	15	
1,3-Dichloropropane	20.0	0.50	ug/l	25.0		80	80-120	11	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
1,1-Dichloropropene	22.2	0.50	ug/l	25.0		89	75-120	2	15	
cis-1,3-Dichloropropene	19.8	0.50	ug/l	25.0		79	80-120	10	15	*N1*
trans-1,3-Dichloropropene	18.8	0.50	ug/l	25.0		75	80-125	9	15	*N1*
Ethylbenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Hexachlorobutadiene	23.5	1.0	ug/l	25.0		94	40-150	6	35	
2-Hexanone	17.8	2.5	ug/l	25.0		71	20-150	5	35	
Iodomethane	31.4	2.5	ug/l	25.0		126	80-130	2	10	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	80-130	6	15	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0		94	80-130	5	15	
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	16.6	2.5	ug/l	25.0		66	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	4	20	
Naphthalene	20.9	2.5	ug/l	25.0		84	40-150	5	30	
n-Propylbenzene	23.6	0.50	ug/l	25.0		95	75-130	6	15	
Styrene	21.4	0.50	ug/l	25.0		86	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	75-125	3	15	
1,1,2,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	80-120	8	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	20	20	
Toluene	23.3	0.50	ug/l	25.0		93	80-120	4	15	
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150	4	35	
1,2,4-Trichlorobenzene	22.9	1.0	ug/l	25.0		91	50-150	8	30	
1,1,1-Trichloroethane	22.2	0.50	ug/l	25.0		89	75-125	6	15	
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120	11	15	
Trichloroethene	23.3	0.50	ug/l	25.0		93	80-120	6	15	
Trichlorofluoromethane	21.9	0.50	ug/l	25.0		88	70-150	0.6	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0		79	70-130	10	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	80-120	6	15	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-130	7	15	
Vinyl Acetate	18.2	1.0	ug/l	25.0		73	40-150	8	25	
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130	8	20	
Xylenes, Total	48.5	1.5	ug/l	50.0		97	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	3	15	
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
Acetone	13.3	10	ug/l	25.0	ND	53	10-150			
Benzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	21.1	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	19.6	0.50	ug/l	25.0	ND	79	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	16.9	2.5	ug/l	25.0	ND	68	15-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
sec-Butylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140			
Chloroform	22.8	0.50	ug/l	25.0	1.18	86	70-130			
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145			
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dibromo-3-chloropropane	19.6	2.5	ug/l	25.0	ND	79	50-150			
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125			
Dibromomethane	20.3	0.50	ug/l	25.0	ND	81	70-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-125			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	5.41	85	70-130			
1,2-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	65-140			
1,1-Dichloroethene	32.3	0.50	ug/l	25.0	9.41	91	70-130			
cis-1,2-Dichloroethene	27.4	0.50	ug/l	25.0	6.93	82	70-125			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	75-125			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	75-125			
1,3-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

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Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
1,1-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	65-130			
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130			
trans-1,3-Dichloropropene	19.2	0.50	ug/l	25.0	ND	77	70-130			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	17.6	1.0	ug/l	25.0	ND	70	40-150			
2-Hexanone	14.8	2.5	ug/l	25.0	ND	59	20-150			
Iodomethane	32.0	2.5	ug/l	25.0	ND	128	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	23.1	1.0	ug/l	25.0	ND	92	65-130			
4-Methyl-2-pentanone (MIBK)	15.8	2.5	ug/l	25.0	ND	63	55-135			
Methyl-tert-butyl Ether (MTBE)	16.8	0.50	ug/l	25.0	ND	67	65-140			
Naphthalene	17.3	2.5	ug/l	25.0	ND	69	40-150			
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	55-135			
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	70-125			
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/l	25.0	ND	82	70-125			
Tetrachloroethene	28.2	0.50	ug/l	25.0	1.94	105	65-130			
Toluene	24.8	0.50	ug/l	25.0	0.370	98	70-125			
1,2,3-Trichlorobenzene	19.9	1.0	ug/l	25.0	ND	80	50-150			
1,2,4-Trichlorobenzene	20.8	1.0	ug/l	25.0	ND	83	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0	ND	83	75-125			
Trichloroethene	56.9	0.50	ug/l	25.0	35.3	87	70-125			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.160	89	65-150			
1,2,3-Trichloropropane	18.9	1.0	ug/l	25.0	ND	76	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125			
1,3,5-Trimethylbenzene	23.6	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	16.8	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	24.6	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-125*			

TestAmerica Phoenix

Kyli Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
Acetone	19.0	10	ug/l	25.0	ND	76	10-150	35	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	4	25	
Bromobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	4	20	
Bromochloromethane	23.6	0.50	ug/l	25.0	ND	94	75-130	11	20	
Bromodichloromethane	20.7	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	65-125	0.6	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150	10	30	
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	30	
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	2	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	2	25	
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145	8	25	
Carbon tetrachloride	24.0	0.50	ug/l	25.0	ND	96	65-135	2	25	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120	6	20	
Chloroethane	21.6	1.0	ug/l	25.0	ND	86	65-140	5	25	
Chloroform	24.3	0.50	ug/l	25.0	1.18	92	70-130	6	20	
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	55-145	3	35	
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125	0.3	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	0.5	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	8	20	
1,2-Dibromo-3-chloropropane	19.2	2.5	ug/l	25.0	ND	77	50-150	2	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dibromomethane	23.0	0.50	ug/l	25.0	ND	92	70-120	12	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	60-150	13	30	
1,1-Dichloroethane	28.1	0.50	ug/l	25.0	5.41	91	70-130	5	20	
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	65-140	7	20	
1,1-Dichloroethene	31.9	0.50	ug/l	25.0	9.41	90	70-130	1	25	
cis-1,2-Dichloroethene	29.0	0.50	ug/l	25.0	6.93	88	70-125	6	20	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	75-125	3	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	6	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-120	9	20	
2,2-Dichloropropane	21.4	1.0	ug/l	25.0	ND	85	65-140	3	25	

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	3	25	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0	ND	89	75-130	10	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	7	20	
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	5	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	36	30	*R4*
2-Hexanone	17.9	2.5	ug/l	25.0	ND	72	20-150	19	30	
Iodomethane	33.4	2.5	ug/l	25.0	ND	134	60-150	4	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	0.4	25	
p-Isopropyltoluene	23.9	0.50	ug/l	25.0	ND	96	70-130	2	30	
Methylene Chloride	23.8	1.0	ug/l	25.0	ND	95	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	17.0	2.5	ug/l	25.0	ND	68	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	9	25	
Naphthalene	20.3	2.5	ug/l	25.0	ND	81	40-150	16	30	
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.1	30	
Styrene	16.5	0.50	ug/l	25.0	ND	66	55-135	19	35	
1,1,1,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125	9	20	
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125	4	25	
Tetrachloroethene	28.8	0.50	ug/l	25.0	1.94	107	65-130	2	25	
Toluene	25.8	0.50	ug/l	25.0	0.370	102	70-125	4	20	
1,2,3-Trichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	50-150	20	35	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	50-150	17	25	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0	ND	92	70-130	2	25	
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	75-125	8	20	
Trichloroethene	56.7	0.50	ug/l	25.0	35.3	86	70-125	0.4	25	
Trichlorofluoromethane	21.1	0.50	ug/l	25.0	0.160	84	65-150	6	25	
1,2,3-Trichloropropane	18.3	1.0	ug/l	25.0	ND	73	70-130	3	25	
1,2,4-Trimethylbenzene	22.4	0.50	ug/l	25.0	ND	90	70-125	3	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	0.3	25	
Vinyl Acetate	17.0	1.0	ug/l	25.0	ND	68	40-150	0.9	30	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140	1	25	
Xylenes, Total	50.6	1.5	ug/l	50.0	ND	101	75-120	7	15	
Freon 113	22.3	2.0	ug/l	25.0	ND	89	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0590 Extracted: 09/16/11										
Blank Analyzed: 09/18/2011 (11I0590-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*18.9*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/18/2011 (11I0590-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.0*		*ug/l*	*20.0*		*100*	*38-125*			
LCS Dup Analyzed: 09/18/2011 (11I0590-BSD1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120	0.2	25	
Surrogate: 1,4-Dioxane-d8	*15.7*		*ug/l*	*20.0*		*79*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.6*		*ug/l*	*20.0*		*103*	*38-125*			

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Attention: Jason Hilker

Project ID: OU3 0096498.030
Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Report Number: PUI0741

Sampled: 09/13/11
Received: 09/13/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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CALIBRATION DATA

METHOD: 8260

DATE: 07/12/2011

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\071211

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	9	07121101.d	1.	BLANK		12 Jul 2011 11:22
2	10	07121102.d	1.	BLANK		12 Jul 2011 11:53
3	11	07121103.d	1.	BLANK		12 Jul 2011 12:23
4	1	07121104.d	1.	tune		12 Jul 2011 12:49
5	1	07121105.d	1.	blank		12 Jul 2011 13:10
6	2	07121106.d	1.	0.5 ppb		12 Jul 2011 13:43
7	3	07121107.d	1.	1.0 ppb		12 Jul 2011 14:14
8	4	07121108.d	1.	2.0 ppb		12 Jul 2011 14:45
9	5	07121109.d	1.	5.0 ppb		12 Jul 2011 15:15
10	6	07121110.d	1.	10 ppb		12 Jul 2011 15:46
11	7	07121111.d	1.	25 ppb		12 Jul 2011 16:17
12	8	07121112.d	1.	50 ppb		12 Jul 2011 16:47
13	9	07121113.d	1.	100 ppb		12 Jul 2011 17:18
14	10	07121114.d	1.	200 ppb		12 Jul 2011 17:49
15	11	07121115.d	1.	25ppb icv/ss		12 Jul 2011 18:20
16	12	07121116.d	1.	20ppb icv/ss		12 Jul 2011 18:50
17	13	07121117.d	1.	tert gas.		12 Jul 2011 19:21
18	14	07121118.d	1.	0.5 ppb mdlv		12 Jul 2011 19:52
19	15	07121119.d	1.	2.0 ppb mdlv		12 Jul 2011 20:23
20	16	07121120.d	1.	10 pb mdlv		12 Jul 2011 20:53
21	1	07121121.d	1.	0.25 ppb mdlv		12 Jul 2011 21:24
22	8	07121122.d	1.	blank		12 Jul 2011 21:55
23	9	07121123.d	1.	blank		12 Jul 2011 22:26
24	10	07121124.d	1.	blank		12 Jul 2011 22:56

MS 7/13/11

7/14/11

TestAmerica
Phoenix

GC/MS 07 DAILY LOG SUMMARY

DATE: 7/12/11 QC BATCH # (s) : NA

ANALYST: NL SEQUENCE FILE: C:\GCMS7\DATA\ 071211.S

CALIBRATION METHOD(S): 071211.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
9	07121101	Blank	✓	NA	8260	H_2O	port clean out.
10	02	↓	✓	↓	↓	↓	↓
11	03	↓	✓	↓	↓	↓	↓
/	04	Tune	2uL			NA	
1	05	Blank	✓			↓	
2	06	0.5 ppb	✓			↓	
3	07	1.0	✓			↓	
4	08	2.0	✓			↓	
5	09	5.0	✓			↓	
6	10	10	✓			↓	
7	11	25	✓			↓	
8	12	50	✓			↓	
9	13	100	✓			↓	
10	14	200	✓			↓	
11	15	25 ppb ICV/SS	✓			↓	
12	16	20 ppb	✓			↓	
13	17	Test. Gas.	✓			Air	18:05 NL 7/13/11
14	18	0.5ppb MDLV	✓			H_2O	1ul CCV std. → 10ml
15	19	2.0	✓			↓	
16	20	10	✓			↓	
1	21	0.25	✓			↓	
8	22	Blank	✓				port clean out
9	23	↓	✓			↓	↓
10	24	↓	✓	↓	↓	↓	↓
	NL 7/12/11						

STANDARD ID NUMBERS

ICV / H_2O LCS: PU03910, 3554

CCV/CALIBRATION STD: 4065, 4066, 4068, 4069 25ppb

Internal Std: 4067

IS/Surrogate/BFB: 4071 / 4086

VOA VIAL LOT #: NA

REQUIRED REVIEWS

PREPARATION: 5ul ICV → 10ml

PREPARATION: 4ul ICV → 10 ml

SEQUENCE REVIEWED By/Date: NL 7/12/11

FINAL REVIEWER / Date: NL 7/12/11 7/27/11

TestAmerica
Phoenix

Instrument ID	GCMS 7
Date:	7/12/11
Analyst	NL
Method(s)	8260
50 ppm Cal. Std.	PU04066
2.5 ppm Cal. Std.	PU04068
500 / 250 ppm EtOH/TBA Cal. Std.	PU04065
50 / 25 ppm EtOH/TBA Cal. Std.	PU04069
50 ppm SS Std.	PU03910
500 / 250 ppm EtOH/TBA SS Std.	PU03854
Tertiary Std.	PT06459

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: [signature] Date: 7/12/11

Calibration Status Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	5	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121106.D
2	1.0	10	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121107.D
3	2.0	20	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121108.D
4	5.0	50	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121109.D
5	10.0	100	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121110.D
6	25.0	250	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121111.D
7	50.0	500	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121112.D
8	100.	1000	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121113.D
9	200.	2000	200	C:\HPCHEM\1\GCMS7\DATA\071211\07121114.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Jul 13 07:45 2011	Jul 12 18:23 2011	12 Jul 2011 1:43 pm
2	1.0	Jul 13 07:45 2011	Jul 12 18:25 2011	12 Jul 2011 2:14 pm
3	2.0	Jul 13 07:45 2011	Jul 12 18:27 2011	12 Jul 2011 2:45 pm
4	5.0	Jul 13 07:45 2011	Jul 12 18:28 2011	12 Jul 2011 3:15 pm
5	10.0	Jul 13 07:45 2011	Jul 13 07:39 2011	12 Jul 2011 3:46 pm
6	25.0	Jul 13 07:45 2011	Jul 12 18:04 2011	12 Jul 2011 4:17 pm
7	50.0	Jul 13 07:46 2011	Jul 12 18:04 2011	12 Jul 2011 4:47 pm
8	100.	Jul 13 07:46 2011	Jul 13 07:42 2011	12 Jul 2011 5:18 pm
9	200.	Jul 13 07:46 2011	Jul 13 07:43 2011	12 Jul 2011 5:49 pm

071211.M Wed Jul 13 12:52:56 2011

NL 7/13/11

M 7/14/11

Response Factor Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

Calibration File
0.5 =07121106.D 1.0 =07121107.D 2.0 =07121108.D 5.0 =07121109.D
25.0 =07121111.D 50.0 =07121112.D 100. =07121113.D 200. =07121114.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD	
I	TBA-d9	ISTD											
T	Ethanol	—	—	—	—	0.232	0.213	0.195	0.210	0.202	0.210	6.65	
T	tert-Butanol (TBA)	—	—	1.647	1.330	1.379	1.515	1.377	1.472	1.440	1.451	7.36	
I	Pentafluorobenzene	ISTD											
T	Dichlorodifluoromethane	1.269	1.212	0.972	1.104	0.979	1.112	1.056	1.088	1.050	1.094	8.93	
TMP	Chloromethane	—	1.787	1.667	1.634	1.709	1.561	1.520	1.569	1.518	1.621	5.93	
TMC	Vinyl chloride	1.273	1.284	1.205	1.193	1.248	1.266	1.232	1.262	—	1.245	2.64	
T	1,3-Butadiene	1.114	1.003	0.904	0.867	0.841	0.904	0.886	0.952	0.926	0.933	8.87	
TM	Bromomethane	—	0.598	0.515	0.497	0.561	0.568	0.595	0.644	0.638	0.577	9.18	
TM	Chloroethane	0.674	0.768	0.716	0.712	0.740	0.682	0.670	0.699	0.655	0.702	5.17	
TM	Trichlorofluoromethane	0.971	1.000	0.816	0.903	0.840	0.933	0.886	0.921	0.905	0.908	6.37	
T	Acetone	—	—	—	—	0.181	0.143	0.123	0.117	0.110	0.135	21.10	L
T	Iodomethane	—	—	0.575	0.642	0.756	0.741	0.727	0.793	0.733	0.709	10.52	
TMC	1,1-Dichloroethene	0.769	0.723	0.643	0.636	0.637	0.645	0.616	0.647	0.640	0.662	7.57	
TM	Methylene chloride	—	1.239	1.074	0.860	0.882	0.771	0.724	0.740	0.719	0.876	21.50	L
	Freon 113	0.700	0.734	0.680	0.672	0.610	0.697	0.675	0.702	0.701	0.686	4.93	
T	Carbon disulfide	—	3.434	5.692	2.698	2.687	2.724	2.593	2.677	2.620	3.141	33.94	L
TM	trans-1,2-Dichloroethene	0.977	0.755	0.807	0.723	0.768	0.731	0.707	0.726	0.716	0.768	10.98	
T	MTBE	1.232	1.216	1.370	1.216	1.530	1.263	1.235	1.223	1.178	1.274	8.63	
TMP	1,1-Dichloroethane	1.484	1.512	1.474	1.471	1.623	1.482	1.431	1.475	1.439	1.488	3.77	
T	Vinyl acetate	—	1.328	1.364	1.326	1.567	1.314	1.279	1.279	1.251	1.338	7.39	
T	n-Hexane	—	0.201	0.197	0.188	0.180	0.213	0.191	0.202	0.198	0.196	5.04	
T	2-Butanone (MEK)	—	—	0.027	0.034	0.054	0.043	0.041	0.039	0.038	0.039#	20.89	L
T	Diisopropylether (DIPE)	3.196	2.997	3.310	2.990	3.611	3.188	3.064	3.134	2.923	3.157	6.61	
T	cis-1,2-Dichloroethene	0.876	0.805	0.793	0.733	0.830	0.742	0.704	0.745	0.719	0.772	7.43	
T	Bromochloromethane	0.315	0.284	0.288	0.258	0.312	0.276	0.265	0.277	0.257	0.281	7.49	
TMC	Chloroform	1.226	1.249	1.249	1.212	1.328	1.227	1.175	1.222	1.172	1.229	3.76	
T	2,2-Dichloropropane	1.212	1.070	1.130	1.087	1.130	1.062	1.021	1.030	1.013	1.084	5.95	
	(ETBE) 2-Ethoxy-2-methyl propane	1.897	1.946	2.104	1.963	2.390	1.999	1.954	1.977	1.873	2.011	7.77	
S	Dibromofluoromethane	0.620	0.577	0.667	0.593	0.707	0.625	0.605	0.632	0.605	0.626	6.37	
	Tetrahydrofuran	—	—	0.079	0.035	0.055	0.039	0.039	0.037	0.035	0.046#	35.79	L
TM	1,2-Dichloroethane	0.703	0.733	0.828	0.742	0.903	0.771	0.749	0.744	0.723	0.766	8.12	
TM	1,1,1-Trichloroethane	0.951	0.977	0.925	0.895	0.970	0.947	0.910	0.929	0.916	0.936	2.94	
	(TAME) tert-Amyl methyl ether	1.203	1.405	1.511	1.420	1.711	1.464	1.393	1.393	1.460	1.440	9.23	
I	1,4-Difluorobenzene	ISTD											
T	1,1-Dichloropropene	0.618	0.584	0.567	0.554	0.558	0.583	0.545	0.562	0.547	0.569	4.05	
TM	Carbon tetrachloride	0.416	0.391	0.397	0.405	0.385	0.414	0.401	0.407	0.385	0.400	2.84	
TM	Benzene	1.592	1.402	1.512	1.404	1.493	1.444	1.412	1.430	1.405	1.455	4.48	

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T	Dibromomethane	0.156	0.151	0.187	0.164	0.194	0.177	0.177	0.175	0.160	0.171	8.60
TMC	1,2-Dichloropropane	0.419	0.407	0.442	0.402	0.449	0.453	0.433	0.440	0.400	0.427	4.81
TM	Trichloroethene	0.356	0.379	0.362	0.357	0.374	0.397	0.376	0.392	0.361	0.373	4.03
TM	Bromodichloromethane	0.479	0.483	0.497	0.431	0.520	0.476	0.457	0.466	0.430	0.471	6.16
T	2-Chlorovinylethylether	—	0.148	0.184	0.148	0.182	0.171	0.160	0.161	0.144	0.162	9.59
TM	cis-1,3-Dichloropropene	0.566	0.568	0.576	0.524	0.650	0.593	0.586	0.584	0.530	0.575	6.42
	4-Methyl-2-pentanone (MIBK)	—	—	0.218	0.242	0.315	0.251	0.247	0.238	0.209	0.246	13.98
TM	trans-1,3-Dichloropropene	0.422	0.370	0.430	0.432	0.495	0.454	0.447	0.447	0.404	0.434	7.96
TM	1,1,2-Trichloroethane	0.212	0.182	0.208	0.207	0.237	0.210	0.198	0.203	0.178	0.204	8.50
S	Toluene-d8	1.109	1.123	1.264	1.192	1.289	1.247	1.253	1.254	1.104	1.204	6.11
TMC	Toluene	0.874	0.847	0.884	0.856	0.931	0.895	0.869	0.894	0.797	0.872	4.29
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.435	0.481	0.467	0.488	0.537	0.506	0.493	0.504	0.501	0.490	5.83
T	2-Hexanone	—	—	0.155	0.186	0.211	0.190	0.185	0.188	0.174	0.184	9.24
TM	Dibromochloromethane	0.276	0.263	0.296	0.268	0.317	0.283	0.292	0.299	0.299	0.288	5.89
T	1,2-Dibromoethane	0.205	0.243	0.250	0.239	0.275	0.240	0.239	0.246	0.248	0.243	7.37
TM	Tetrachloroethene	0.369	0.354	0.323	0.367	0.349	0.360	0.355	0.372	0.390	0.360	5.13
T	1,1,1,2-Tetrachloroethane	0.254	0.301	0.280	0.299	0.326	0.303	0.303	0.309	0.322	0.300	7.33
TMP	Chlorobenzene	0.816	0.934	0.958	0.971	1.065	0.973	0.958	0.987	1.007	0.963	6.93
TMC	Ethylbenzene	1.749	1.791	1.727	1.788	1.932	1.868	1.836	1.883	1.865	1.827	3.69
T	m,p-Xylenes	0.665	0.656	0.656	0.644	0.691	0.678	0.668	0.687	0.679	0.670	2.35
T	Styrene	0.968	0.914	1.047	0.979	1.121	1.051	1.063	1.068	1.047	1.029	6.13
T	o-Xylene	0.593	0.620	0.616	0.601	0.667	0.636	0.636	0.629	0.630	0.625	3.48
S	4-Bromofluorobenzene	0.577	0.465	0.479	0.478	0.545	0.510	0.500	0.504	0.479	0.504	7.20
	1,4-Dichlorobenzene-d4	----------ISTD----------										
TMP	Bromoform	0.187	0.317	0.316	0.286	0.310	0.317	0.324	0.329	0.329	0.302	14.93
TMP	1,1,2,2-Tetrachloroethane	0.684	0.649	0.649	0.633	0.696	0.679	0.652	0.637	0.627	0.656	3.69
T	1,2,3-Trichloropropane	—	0.149	0.165	0.156	0.171	0.156	0.153	0.148	0.146	0.155	5.55
T	trans-1,4-Dichloro-2-butene	—	—	0.257	0.200	0.218	0.211	0.199	0.201	0.197	0.212	10.11
T	Isopropylbenzene	3.523	3.618	3.376	3.509	3.378	3.658	3.514	3.647	3.608	3.537	3.01
T	Bromobenzene	0.682	0.766	0.748	0.730	0.804	0.784	0.791	0.809	0.791	0.767	5.33
T	n-Propylbenzene	5.093	5.073	4.811	4.902	4.752	5.145	4.999	5.176	5.005	4.995	2.94
T	2-Chlorotoluene	2.790	3.031	2.815	2.843	2.930	3.095	2.917	3.000	2.893	2.924	3.50
T	4-Chlorotoluene	2.977	3.035	2.962	2.877	2.974	3.019	2.891	2.991	2.914	2.960	1.86
T	1,3,5-Trimethylbenzene	2.997	3.044	3.020	3.036	2.981	3.184	3.059	3.188	3.135	3.072	2.54
T	tert-Butylbenzene	2.601	2.435	2.475	2.479	2.491	2.650	2.548	2.631	2.621	2.548	3.15
T	1,2,4-Trimethylbenzene	2.980	3.165	2.967	3.019	3.124	3.196	3.082	3.181	3.123	3.093	2.79
T	sec-Butylbenzene	4.267	4.513	4.159	4.202	4.124	4.549	4.289	4.377	4.349	4.314	3.43
TM	1,3-Dichlorobenzene	1.378	1.504	1.594	1.506	1.628	1.621	1.568	1.611	1.597	1.556	5.22
TM	1,4-Dichlorobenzene	1.682	1.620	1.434	1.516	1.628	1.626	1.563	1.580	1.581	1.581	4.60
T	p-Isopropyltoluene	3.345	3.351	3.256	3.196	3.210	3.502	3.331	3.470	3.417	3.342	3.25
TM	1,2-Dichlorobenzene	1.125	1.328	1.337	1.280	1.385	1.374	1.332	1.371	1.347	1.320	6.03
T	n-Butylbenzene	3.807	3.794	3.554	3.515	3.553	3.904	3.699	3.843	3.770	3.716	3.84
T	1,2-Dibromo-3-chloropropane	—	—	0.080	0.088	0.080	0.085	0.084	0.082	0.083	0.083#	3.49
T	1,2,4-Trichlorobenzene	0.794	0.832	0.893	0.857	0.913	0.902	0.884	0.903	0.916	0.877	4.73
T	Naphthalene	1.291	1.366	1.369	1.332	1.425	1.404	1.367	1.356	1.371	1.365	2.82
T	Hexachlorobutadiene	0.586	0.551	0.492	0.511	0.490	0.538	0.507	0.538	0.559	0.530	6.17
T	1,2,3-Trichlorobenzene	0.690	0.715	0.666	0.697	0.765	0.725	0.709	0.722	0.746	0.715	4.15

(#) = Out of Range

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Compound List Report GCMS7

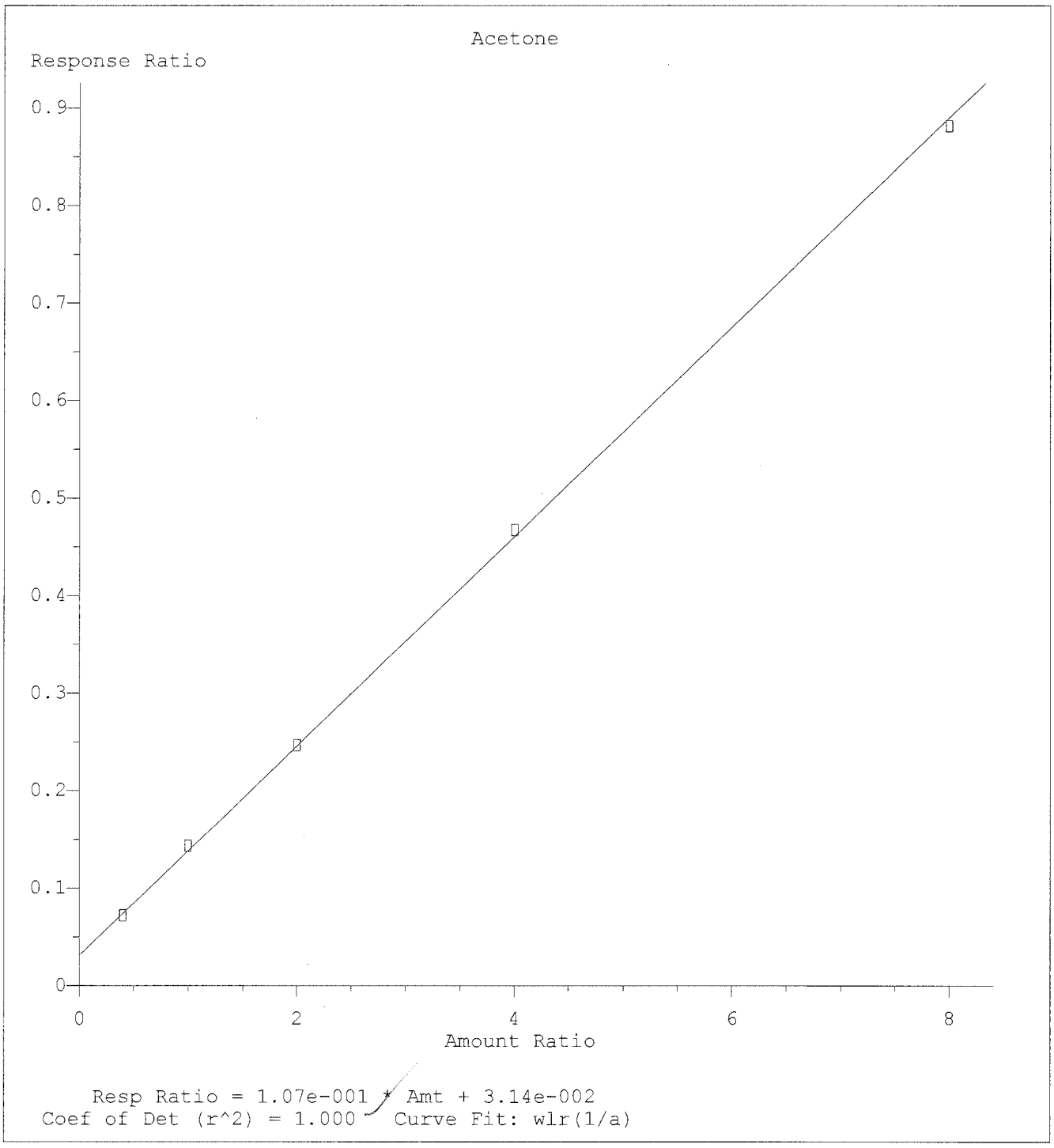
Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
Total Cpnds : 86

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	7.31	1.000	A	0	A	B
2	T	Ethanol	45	5.91	0.808	A	1	A	B
3	T	tert-Butanol (TBA)	59	7.43	1.016	A	1	A	B
4	I	Pentafluorobenzene	168	10.48	1.000	A	0	A	L
5	T	Dichlorodifluoromethane	85	4.51	0.431	A	2	A	B
6	T	Chloromethane	50	4.81	0.459	A	1	A	B
7	T	Vinyl chloride	62	5.09	0.486	A	1	A	B
8	T	1,3-Butadiene	54	5.26	0.502	A	2	A	B
9	T	Bromomethane	94	5.68	0.542	A	1	A	B
10	T	Chloroethane	64	5.88	0.561	A	1	A	B
11	T	Trichlorofluoromethane	101	6.67	0.636	A	1	A	L
12	T	Acetone	43	6.83	0.652	L	1	A	L
13	T	Iodomethane	142	7.46	0.712	A	1	A	B
14	T	1,1-Dichloroethene	96	7.40	0.707	A	2	A	B
15	T	Methylene chloride	84	7.60	0.725	L	2	A	B
16		Freon 113	101	7.66	0.731	A	2	A	B
17	T	Carbon disulfide	76	7.91	0.755	L	2	A	B
18	T	trans-1,2-Dichloroethene	96	8.49	0.810	A	2	A	B
19	T	MTBE	73	8.62	0.823	A	1	A	B
20	T	1,1-Dichloroethane	63	8.81	0.840	A	2	A	B
21	T	Vinyl acetate	43	8.97	0.856	A	1	A	L
22	T	n-Hexane	86	9.32	0.890	A	1	A	B
23	T	2-Butanone (MEK)	72	9.36	0.894	L	1	A	B
24	T	Diisopropylether (DIPE)	45	9.37	0.894	A	3	A	B
25	T	cis-1,2-Dichloroethene	96	9.54	0.911	A	2	A	B
26	T	Bromochloromethane	128	9.76	0.931	A	2	A	B
27	T	Chloroform	83	9.82	0.937	A	1	A	B
28	T	2,2-Dichloropropane	77	9.92	0.947	A	1	A	B
29		(ETBE) 2-Ethoxy-2-methyl propa	59	9.88	0.943	A	2	A	B
30	S	Dibromofluoromethane	113	9.97	0.952	A	0	A	B
31		Tetrahydrofuran	72	10.24	0.977	L	2	A	B
32	T	1,2-Dichloroethane	62	10.66	1.018	A	1	A	B
33	T	1,1,1-Trichloroethane	97	10.79	1.030	A	2	A	B
34		(TAME) tert-Amyl methyl ether	73	11.51	1.098	A	3	A	R
35	I	1,4-Difluorobenzene	114	11.60	1.000	A	1	A	B
36	T	1,1-Dichloropropene	75	11.03	0.950	A	2	A	B
37	T	Carbon tetrachloride	117	11.26	0.971	A	1	A	B
38	T	Benzene	78	11.32	0.975	A	1	A	B
39	T	Dibromomethane	93	12.05	1.039	A	2	A	B
40	T	1,2-Dichloropropane	63	12.09	1.042	A	1	A	B
41	T	Trichloroethene	95	12.14	1.047	A	2	A	B
42	T	Bromodichloromethane	83	12.21	1.052	A	2	A	B
43	T	2-Chlorovinylethylether	63	12.74	1.098	A	1	A	B
44	T	cis-1,3-Dichloropropene	75	13.05	1.125	A	1	A	B
45		4-Methyl-2-pentanone (MIBK)	43	13.19	1.137	A	2	A	B
46	T	trans-1,3-Dichloropropene	75	13.62	1.174	A	1	A	B
47	T	1,1,2-Trichloroethane	83	13.83	1.192	A	2	A	B
48	S	Toluene-d8	98	13.99	1.206	A	0	A	B
49	T	Toluene	92	14.09	1.215	A	1	A	B
50	I	Chlorobenzene-d5	117	15.95	1.000	A	0	A	B
51	T	1,3-Dichloropropane	76	14.15	0.887	A	1	A	B
52	T	2-Hexanone	43	14.36	0.900	A	2	A	B
53	T	Dibromochloromethane	129	14.53	0.911	A	1	A	B
54	T	1,2-Dibromoethane	107	14.86	0.932	A	2	A	B
55	T	Tetrachloroethene	166	15.08	0.945	A	2	A	B
56	T	1,1,1,2-Tetrachloroethane	131	15.89	0.996	A	2	A	B
57	T	Chlorobenzene	112	16.00	1.003	A	2	A	B
58	T	Ethylbenzene	91	16.26	1.019	A	1	A	B
59	T	m,p-Xylenes	106	16.52	1.035	A	1	A	B

60	T	Styrene	104	16.98	1.064	A	1	A	B
61	T	o-Xylene	106	17.08	1.070	A	1	A	B
62	S	4-Bromofluorobenzene	95	17.63	1.105	A	2	A	B
63		1,4-Dichlorobenzene-d4	152	19.43	1.000	A	2	A	B
64	T	Bromoform	173	16.70	0.860	A	1	A	B
65	T	1,1,2,2-Tetrachloroethane	83	17.07	0.879	A	2	A	B
66	T	1,2,3-Trichloropropane	110	17.26	0.889	A	2	A	R
67	T	trans-1,4-Dichloro-2-butene	53	17.29	0.890	A	2	A	B
68	T	Isopropylbenzene	105	17.57	0.905	A	1	A	B
69	T	Bromobenzene	156	17.93	0.923	A	2	A	B
70	T	n-Propylbenzene	91	18.18	0.936	A	1	A	B
71	T	2-Chlorotoluene	91	18.33	0.943	A	1	A	R
72	T	4-Chlorotoluene	91	18.43	0.949	A	1	A	R
73	T	1,3,5-Trimethylbenzene	105	18.58	0.956	A	1	A	B
74	T	tert-Butylbenzene	119	18.98	0.977	A	1	A	B
75	T	1,2,4-Trimethylbenzene	105	19.12	0.984	A	1	A	B
76	T	sec-Butylbenzene	105	19.26	0.992	A	1	A	B
77	T	1,3-Dichlorobenzene	146	19.37	0.997	A	2	A	R
78	T	1,4-Dichlorobenzene	146	19.46	1.002	A	2	A	R
79	T	p-Isopropyltoluene	119	19.50	1.004	A	2	A	B
80	T	1,2-Dichlorobenzene	146	19.91	1.025	A	2	A	B
81	T	n-Butylbenzene	91	20.01	1.030	A	1	A	B
82	T	1,2-Dibromo-3-chloropropane	157	20.47	1.054	A	1	A	B
83	T	1,2,4-Trichlorobenzene	180	22.17	1.141	A	1	A	B
84	T	Naphthalene	128	22.51	1.159	A	1	A	B
85	T	Hexachlorobutadiene	225	22.57	1.162	A	1	A	B
86	T	1,2,3-Trichlorobenzene	180	22.77	1.172	A	1	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

071211.M Wed Jul 13 12:52:50 2011



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Calibration Table Last Updated: Wed Jul 13 08:08:09 2011

NC 7/13/11

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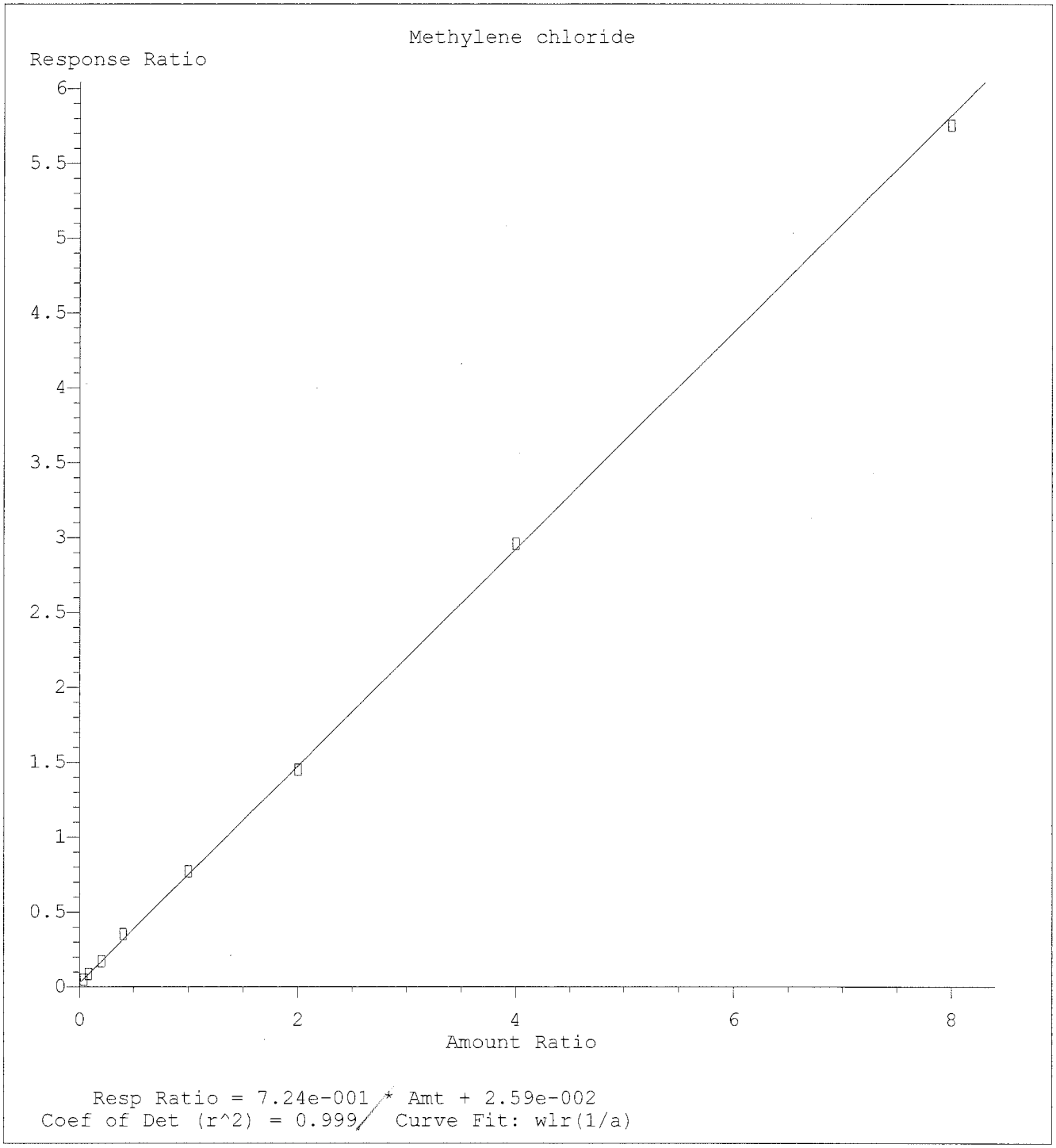

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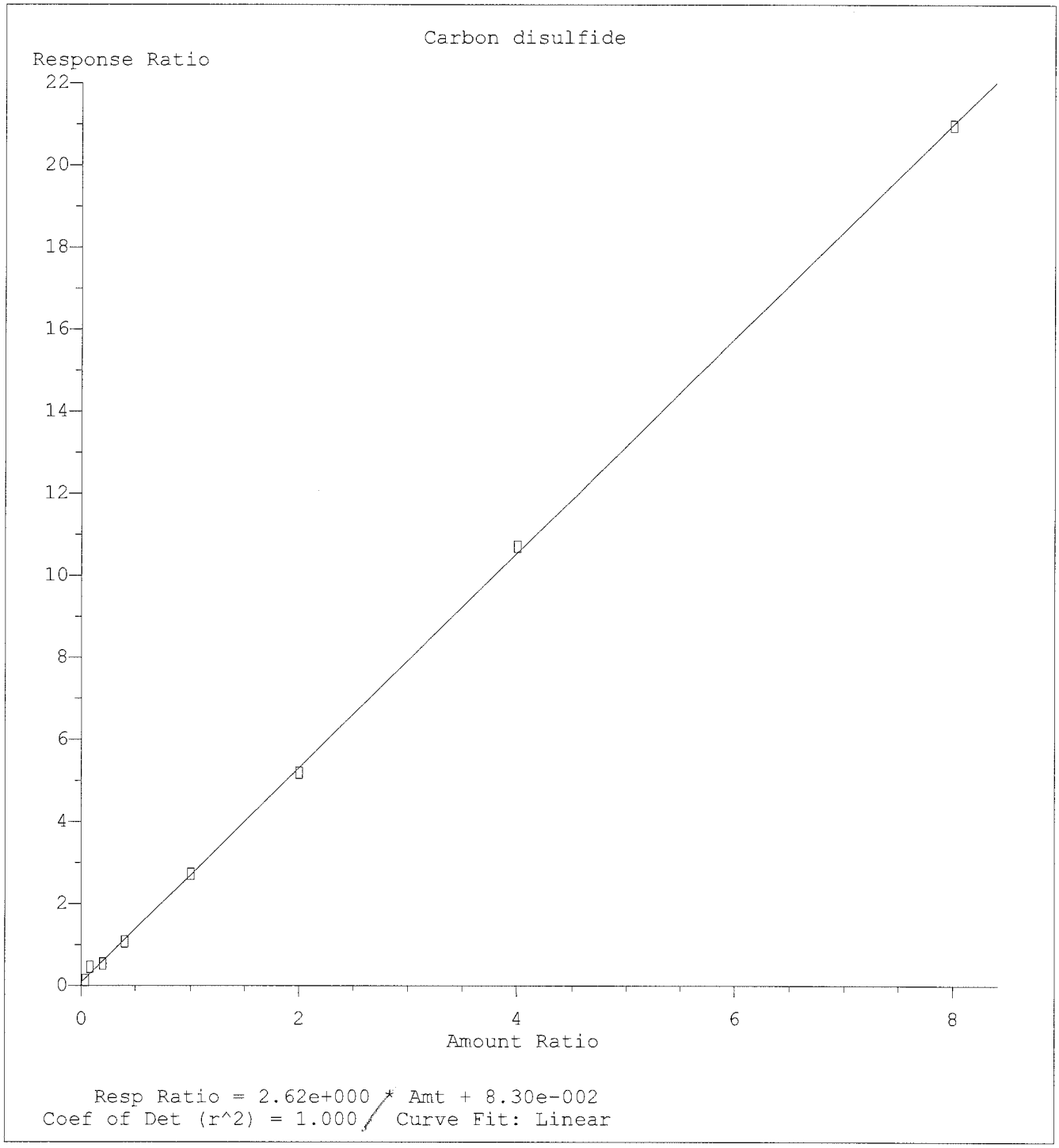
Calibration Table Last Updated: Wed Jul 13 08:08:09 2011

MS 9/13/11

MS 9/14/11



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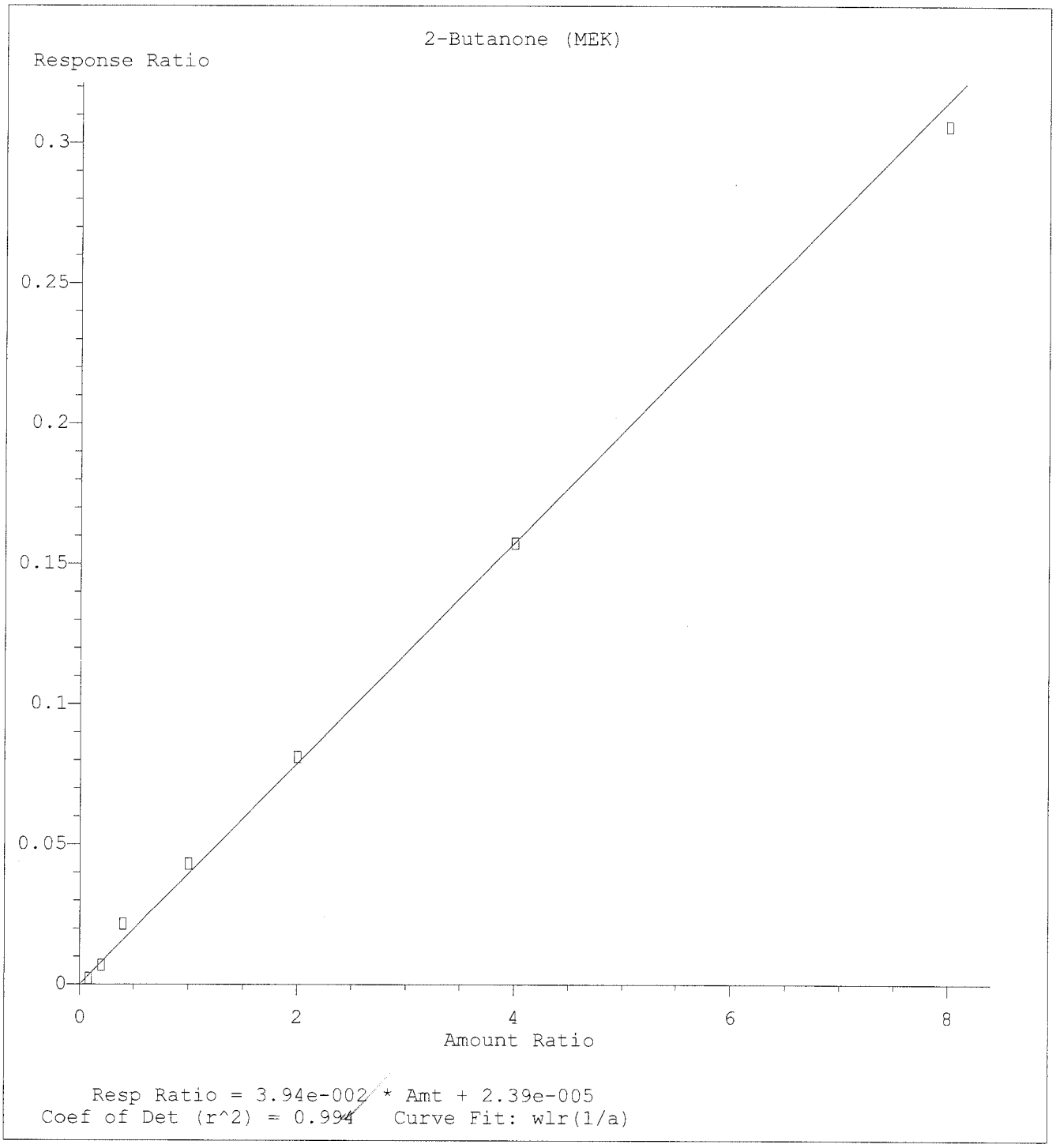
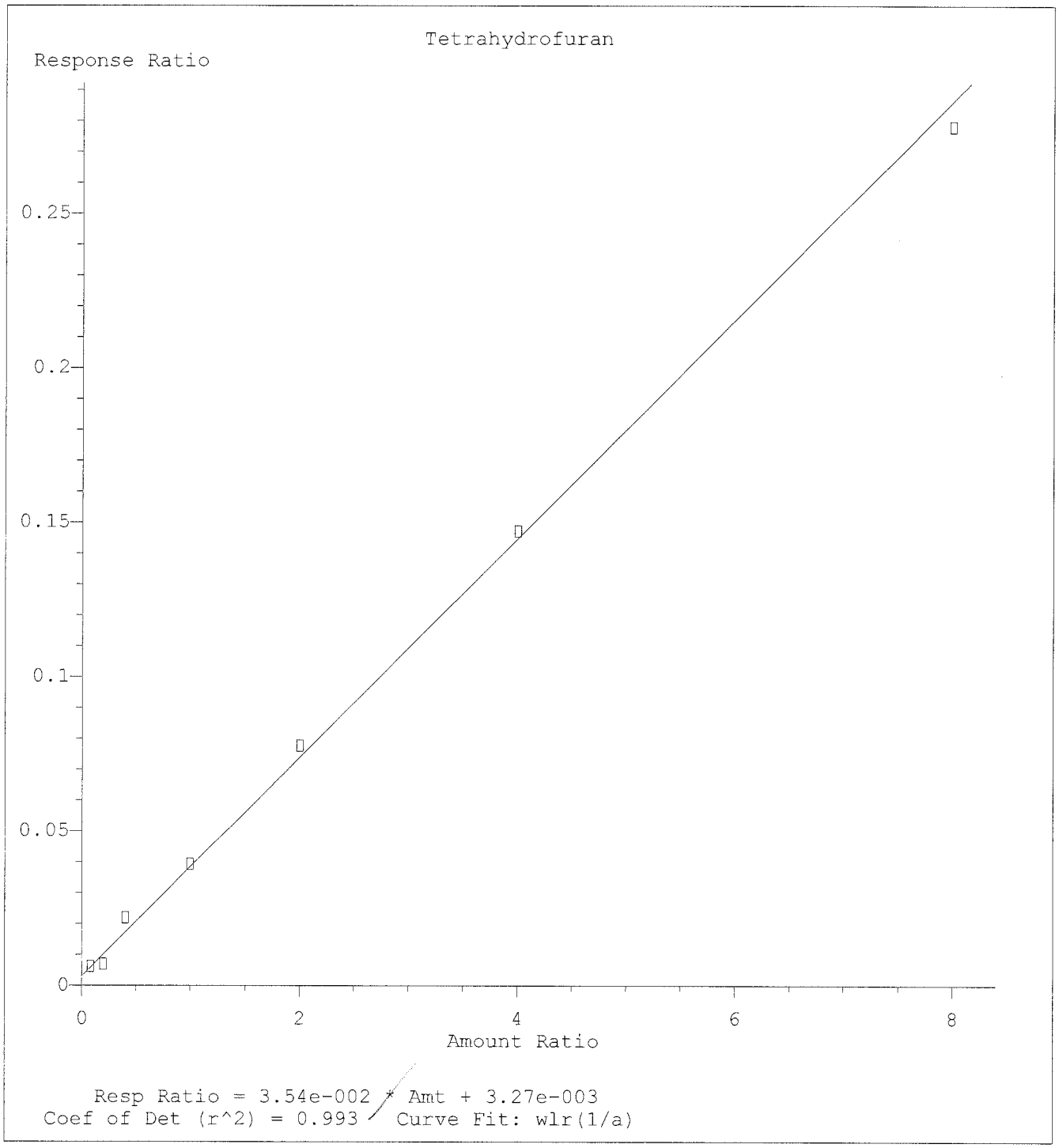
Calibration Table Last Updated: Wed Jul 13 08:08:09 2011

MS 7/13/11

MJ 7/14/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\071211.M
Calibration Table Last Updated: Wed Jul 13 08:08:09 2011



Method Name: C:\HPCHEM\1\GCMS7\METHODS\071211.M
Calibration Table Last Updated: Wed Jul 13 08:08:09 2011

ANALYTICAL DATA

METHOD: 8260

DATE: 09/19/11

WORK ORDER: PUI0741

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\091911

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09191101.d	1.	TUNE		19 Sep 2011 10:28
2	1	09191102.d	1.	TUNE		19 Sep 2011 10:38
3	3	09191103.d	1.	25 PPB CCV		19 Sep 2011 11:02
4	4	09191104.d	1.	11I0653-BS1		19 Sep 2011 11:32
5	5	09191105.d	1.	11I0653-BSD1		19 Sep 2011 12:03
6	6	09191106.d	1.	11I0653-BLK1		19 Sep 2011 12:34
7	7	09191107.d	1.	PUI0739-08		19 Sep 2011 13:06
8	8	09191108.d	1.	PUI0739-01		19 Sep 2011 13:37
9	9	09191109.d	1.	11I0653-MS1		19 Sep 2011 14:07
10	10	09191110.d	1.	11I0653-MSD1		19 Sep 2011 14:38
11	11	09191111.d	1.	BLANK		19 Sep 2011 15:08
12	13	09191112.d	1.	PUI0738-01		19 Sep 2011 15:39
13	14	09191113.d	1.	PUI0739-02		19 Sep 2011 16:09
14	15	09191114.d	1.	PUI0739-03		19 Sep 2011 16:39
15	16	09191115.d	1.	PUI0739-04		19 Sep 2011 17:10
16	1	09191116.d	1.	PUI0739-05		19 Sep 2011 17:40
17	3	09191117.d	1.	PUI0739-06		19 Sep 2011 18:10
18	4	09191118.d	1.	PUI0739-07		19 Sep 2011 18:41
19	5	09191119.d	1.	PUI0739-09		19 Sep 2011 19:11
20	6	09191120.d	1.	PUI0741-01		19 Sep 2011 19:42
21	7	09191121.d	1.	PUI0850-01		19 Sep 2011 20:12
22	8	09191122.d	1.	PUI0849-01		19 Sep 2011 20:43
23	9	09191123.d	1.	PUI0850-02		19 Sep 2011 21:14
24	10	09191124.d	1.	PUI0849-02		19 Sep 2011 21:44

✓ 9/21/11

TestAmerica
Phoenix

GC/MS 07 DAILY LOG SUMMARY

DATE: 9/19/11 QC BATCH # (s) : 11F0653

ANALYST: MJ/TS SEQUENCE FILE: C:\GCMS7\DATA\ 091911.S

CALIBRATION METHOD(S): 071211 M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
	091911 01	TUNE	2 µl	NA	8260	NA	
	02	↓	2 µl	↓	↓	↓	
3	03	25 ppb CCV	✓	↓	↓	H_2O	
4	04	11F0653 - BL1	✓	↓	↓	↓	
5	05	- BL1	✓	↓	↓	↓	
6	06	- BL1	✓	↓	↓	↓	
~~7~~	~~09/19/11~~		~~MJ 9/19/11~~				
7	091911 07	PUI0739-08A (TB) 09/19/11	✓	≤2	8260	H_2O	
8	08	PUI0739-01C 09/19/11	✓	≤2	↓	↓	Source
9	09	~~PUI~~ 09/19/11 11F0653 - MS1	✓	≤2	↓	↓	
10	10	↓ - MSD1	✓	≤2	↓	↓	
11	11	Blank	✓	N/A	↓	↓	DNU - closed out
13	12	PUI0738-01A	✓	≤2	↓	↓	
14	13	PUI0739-02C	✓	≤2	↓	↓	
15	14	PUI0739-03C	✓	≤2	↓	↓	
16	15	PUI0739-04C	✓	≤2	↓	↓	
1	16	PUI0739-05C	✓	≤2	↓	↓	
3	17	PUI0739-06C	✓	≤2	↓	↓	
4 ~~3~~ 09/19/11	18	PUI0739-07C	✓	≤2	↓	↓	
5	19	PUI0739 ~~08C~~ 09C 09/19/11	✓	≤2	↓	↓	
6	20	PUI0741-01A	✓	≤2	↓	↓	
7	21	PUI0850-01A	✓	✓	↓	↓	
8	22	PUI0849-01A	✓	✓	↓	↓	
9	23	PUI0850-02A	✓	✓	↓	↓	
10	24	PUI0849-02A	✓	✓	8260	H_2O	
		~~09/19/11~~					
				~~09/19/11~~			

STANDARD ID NUMBERS

ICV / H_2O LCS: PU05651 / PU05531

CCV/CALIBRATION STD: PU05682 / PU05628

Internal Std: PU05680 / ~~PU05627~~ 9/19/11

IS/Surrogate/BFB: PU05627 / PU05529

VOA VIAL LOT #: NA

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5 µl CCV stds + 5 µl IS → 10 ml

NA PREPARATION: NA

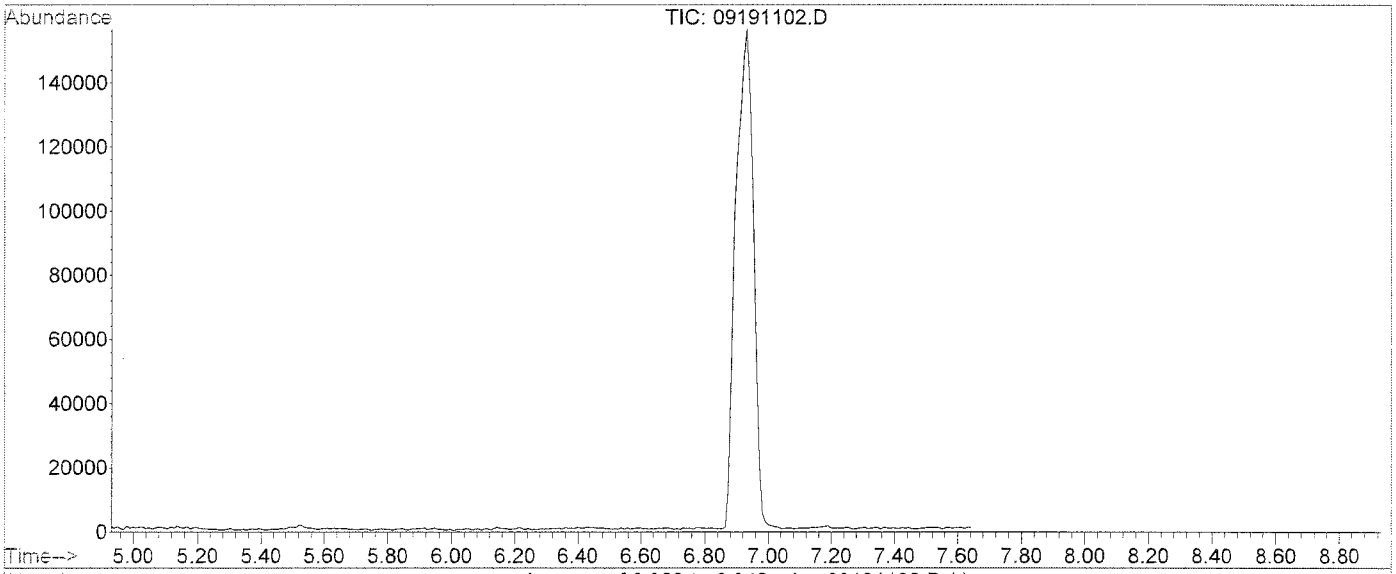
SEQUENCE REVIEWED By/Date: 9/21/11

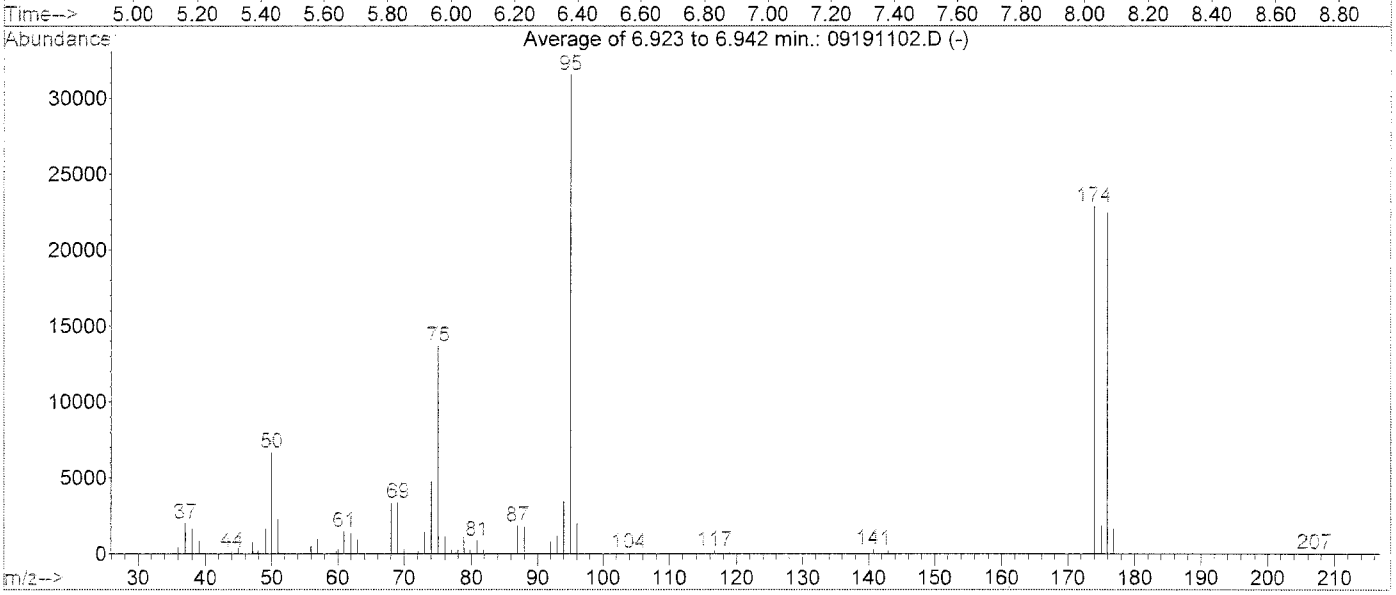
FINAL REVIEWER / Date: 9/21/11

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191102.D Vial: 1
Acq On : 19 Sep 2011 10:38 am Operator: MS
Sample : TUNE Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B

9/21/11





Spectrum Information: Average of 6.923 to 6.942 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	6652	PASS
75	95	30	60	43.3	13656	PASS
95	95	100	100	100.0	31541	PASS
96	95	5	9	6.3	1987	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.5	22867	PASS
175	174	5	9	8.0	1827	PASS
176	174	95	101	98.0	22416	PASS
177	176	5	9	7.2	1619	PASS

09191102.D 071211.M Tue Sep 20 11:54:54 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:57 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.29	65	33650	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.45	168	196976	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	11.58	114	351125	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.93	117	288117	25.00 ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.40	152	131139	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.95	113	130332	26.43 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 105.72%	
48) Toluene-d8	13.97	98	463458	27.41 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 109.64%	
62) 4-Bromofluorobenzene	17.61	95	156831	26.99 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 107.96%	
Target Compounds					Qvalue
2) Ethanol	5.89	45	11102	313.79 ug/L	95
3) tert-Butanol (TBA)	7.40	59	29229	119.69 ug/L #	94
5) Dichlorodifluoromethane	4.50	85	224324m	26.04 ug/L	
6) Chloromethane	4.79	50	317992	24.90 ug/L	100
7) Vinyl chloride	5.07	62	268460	27.37 ug/L	99
8) 1,3-Butadiene	5.24	54	178266	24.25 ug/L	96
9) Bromomethane	5.66	94	132517	29.15 ug/L	98
10) Chloroethane	5.87	64	139826	25.29 ug/L	99
11) Trichlorofluoromethane	6.65	101	181833	25.41 ug/L	99
12) Acetone	6.81	43	25666	23.02 ug/L	93
13) Iodomethane	7.43	142	153883	27.53 ug/L	97
14) 1,1-Dichloroethene	7.37	96	127821	24.51 ug/L	89
15) Methylene chloride	7.57	84	137942	23.28 ug/L	88
16) Freon 113	7.63	101	140843	26.06 ug/L	98
17) Carbon disulfide	7.88	76	435542	20.34 ug/L	98
18) trans-1,2-Dichloroethene	8.45	96	132536	21.91 ug/L	87
19) MTBE	8.60	73	213274	21.25 ug/L	99
20) 1,1-Dichloroethane	8.77	63	291963	24.90 ug/L	99
21) Vinyl acetate	8.94	43	206494	19.58 ug/L	97
22) n-Hexane	9.30	86	40134	25.96 ug/L	94
23) 2-Butanone (MEK)	9.34	72	6581	21.19 ug/L #	100
24) Diisopropylether (DIPE)	9.35	45	539127	21.67 ug/L	95
25) cis-1,2-Dichloroethene	9.52	96	147887	24.32 ug/L	91
26) Bromochloromethane	9.73	128	55808	25.17 ug/L	93
27) Chloroform	9.79	83	237377	24.52 ug/L	99
28) 2,2-Dichloropropane	9.89	77	210800	24.68 ug/L	98
29) (ETBE) 2-Ethoxy-2-methyl p	9.86	59	324683	20.49 ug/L	98
31) Tetrahydrofuran	10.22	72	26345	92.17 ug/L	78
32) 1,2-Dichloroethane	10.63	62	128722	21.32 ug/L	95
33) 1,1,1-Trichloroethane	10.76	97	187075	25.38 ug/L	96
34) (TAME) tert-Amyl methyl et	11.49	73	231691	20.42 ug/L	96
36) 1,1-Dichloropropene	11.00	75	204818	25.64 ug/L	98
37) Carbon tetrachloride	11.24	117	152297	27.10 ug/L	99
38) Benzene	11.29	78	543151	26.58 ug/L	99
39) Dibromomethane	12.03	93	58316	24.23 ug/L	96
40) 1,2-Dichloropropane	12.07	63	139636	23.27 ug/L	99

(#) = qualifier out of range (m) = manual integration
09191103.D 071211.M Tue Sep 20 11:58:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:57 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

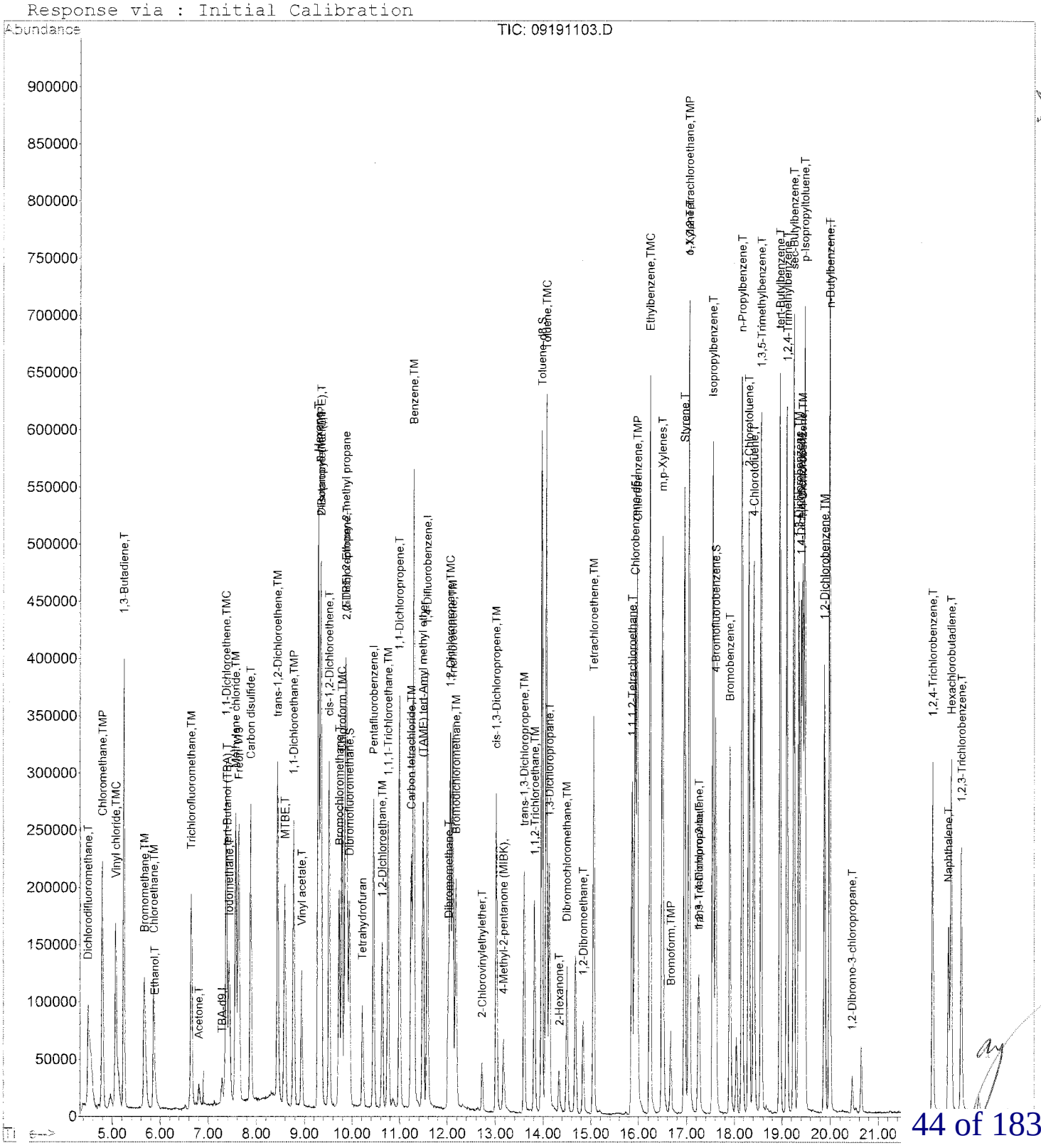
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.12	95	138221	26.42 ug/L	96
42)	Bromodichloromethane	12.19	83	150977	22.82 ug/L	98
43)	2-Chlorovinylethylether	12.73	63	20449	8.98 ug/L	99
44)	cis-1,3-Dichloropropene	13.02	75	186141	23.04 ug/L	97
45)	4-Methyl-2-pentanone (MIBK	13.17	43	65553	19.00 ug/L	100
46)	trans-1,3-Dichloropropene	13.60	75	138998	22.83 ug/L	98
47)	1,1,2-Trichloroethane	13.82	83	69123	24.14 ug/L	96
49)	Toluene	14.07	92	330535	27.00 ug/L	99
51)	1,3-Dichloropropane	14.13	76	145475	25.74 ug/L	99
52)	2-Hexanone	14.34	43	40241	18.96 ug/L	99
53)	Dibromochloromethane	14.50	129	86393	26.01 ug/L	96
54)	1,2-Dibromoethane	14.84	107	75298	26.91 ug/L	100
55)	Tetrachloroethene	15.06	166	126301	30.44 ug/L	96
56)	1,1,1,2-Tetrachloroethane	15.87	131	97864	28.34 ug/L	98
57)	Chlorobenzene	15.98	112	312370	28.14 ug/L	95
58)	Ethylbenzene	16.23	91	589178	27.99 ug/L	99
59)	m,p-Xylenes	16.49	106	221179	28.67 ug/L	94
60)	Styrene	16.95	104	321591	27.13 ug/L	94
61)	o-Xylene	17.05	106	207969	28.86 ug/L	93
64)	Bromoform	16.67	173	41171	26.03 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.04	83	84834	24.65 ug/L	99
66)	1,2,3-Trichloropropane	17.25	110	18169	22.29 ug/L	92
67)	trans-1,4-Dichloro-2-buten	17.26	53	21092	18.97 ug/L	93
68)	Isopropylbenzene	17.55	105	500926	27.00 ug/L	98
69)	Bromobenzene	17.91	156	108544	26.97 ug/L	88
70)	n-Propylbenzene	18.16	91	702555	26.81 ug/L	100
71)	2-Chlorotoluene	18.30	91	387931	25.29 ug/L	93
72)	4-Chlorotoluene	18.41	91	393520	25.34 ug/L	99
73)	1,3,5-Trimethylbenzene	18.56	105	434291	26.95 ug/L	100
74)	tert-Butylbenzene	18.95	119	361644	27.06 ug/L	94
75)	1,2,4-Trimethylbenzene	19.11	105	426275	26.27 ug/L	97
76)	sec-Butylbenzene	19.25	105	624469	27.59 ug/L	99
77)	1,3-Dichlorobenzene	19.35	146	222043	27.20 ug/L	98
78)	1,4-Dichlorobenzene	19.43	146	225439	27.18 ug/L	97
79)	p-Isopropyltoluene	19.48	119	476816	27.20 ug/L	98
80)	1,2-Dichlorobenzene	19.88	146	182449	26.35 ug/L	97
81)	n-Butylbenzene	19.99	91	516937	26.52 ug/L	96
82)	1,2-Dibromo-3-chloropropan	20.46	157	10801	24.73 ug/L	99
83)	1,2,4-Trichlorobenzene	22.15	180	117926	25.63 ug/L	93
84)	Naphthalene	22.48	128	160883	22.48 ug/L	98
85)	Hexachlorobutadiene	22.54	225	81320	29.24 ug/L	98
86)	1,2,3-Trichlorobenzene	22.75	180	95572	25.48 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:57 2011 Quant Results File: 071211.RES

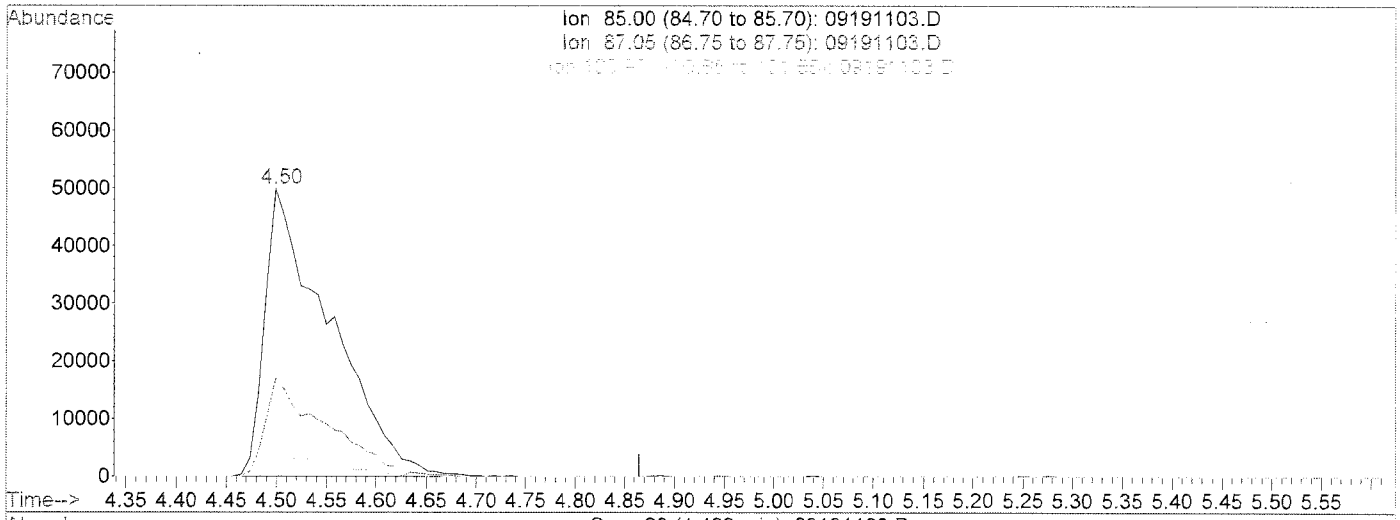
Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

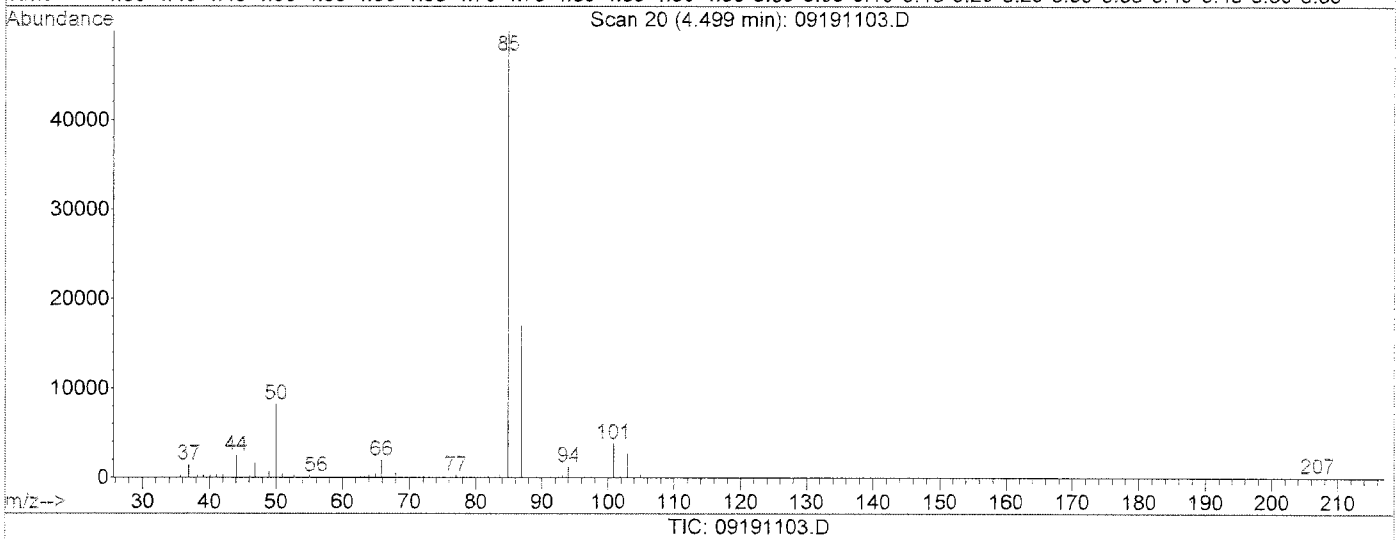


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:57 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Multiple Level Calibration





TIC: 09191103.D

(5) Dichlorodifluoromethane (T)

4.50min 26.04ug/L m

response 224324

Ion	Exp%	Act%
85.00	100	100
87.05	32.70	31.51
100.95	7.60	3.99#
0.00	0.00	0.00

09/21/11

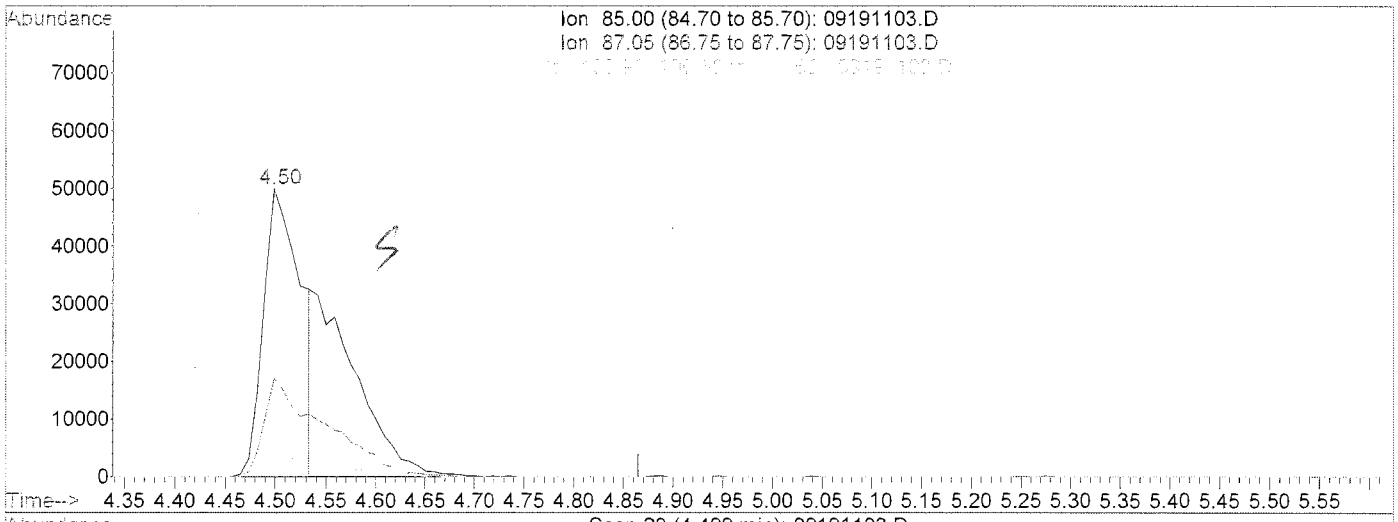
09/20/11

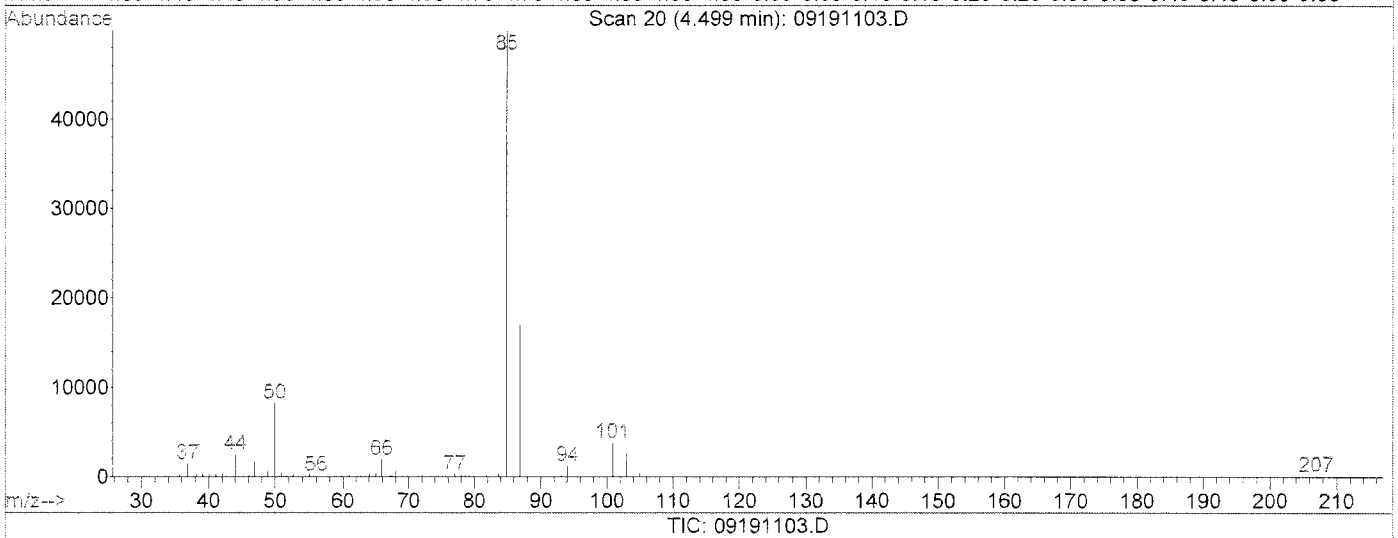
09191103.D 071211.M Tue Sep 20 11:57:16 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:55 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Multiple Level Calibration





TIC: 09191103.D

9/21/11

(5) Dichlorodifluoromethane (T)

4.50min 14.84ug/L

response 127873

Ion	Exp%	Act%
85.00	100	100
87.05	32.70	55.28#
100.95	7.60	6.99
0.00	0.00	0.00

09/21/11

09191103.D 071211.M Tue Sep 20 11:56:23 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Multiple Level Calibration

9/21/11

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	85	-0.02
2	T	Ethanol	0.210	0.264	-25.7	105	-0.02
3	T	tert-Butanol (TBA)	1.451	1.390	4.2	78	-0.03
4	I	Pentafluorobenzene	1.000	1.000	0.0	102	-0.02
5	T	Dichlorodifluoromethane	1.094	1.139	-4.1	104	-0.02
6	TMP	Chloromethane	1.621	1.614	0.4	105	-0.02
7	TMC	Vinyl chloride	1.245	1.363	-9.5	109	-0.02
8	T	1,3-Butadiene	0.933	0.905	3.0	102	-0.02
9	TM	Bromomethane	0.577	0.673	-16.6	120	-0.02
10	TM	Chloroethane	0.702	0.710	-1.1	106	-0.02
11	TM	Trichlorofluoromethane	0.908	0.923	-1.7	101	-0.02
12	T	Acetone	0.135	0.130	3.7	92	-0.02
13	T	Iodomethane	0.709	0.781	-10.2	107	-0.03
14	TMC	1,1-Dichloroethene	0.662	0.649	2.0	102	-0.03
15	TM	Methylene chloride	0.876	0.700	20.1	92	-0.03
16		Freon 113	0.686	0.715	-4.2	104	-0.02
17	T	Carbon disulfide	3.141	2.211	29.6	83	-0.03
18	TM	trans-1,2-Dichloroethene	0.768	0.673	12.4	94	-0.03
19	T	MTBE	1.274	1.083	15.0	87	-0.02
20	TMP	1,1-Dichloroethane	1.488	1.482	0.4	102	-0.03
21	T	Vinyl acetate	1.338	1.048	21.7	81	-0.02
22	T	n-Hexane	0.196	0.204	-4.1	97	-0.02
23	T	2-Butanone (MEK)	0.039	0.033#	15.4	79	-0.02
24	T	Diisopropylether (DIPE)	3.157	2.737	13.3	87	-0.02
25	T	cis-1,2-Dichloroethene	0.772	0.751	2.7	103	-0.02
26	T	Bromochloromethane	0.281	0.283	-0.7	104	-0.03
27	TMC	Chloroform	1.229	1.205	2.0	100	-0.03
28	T	2,2-Dichloropropane	1.084	1.070	1.3	102	-0.03
29		(ETBE) 2-Ethoxy-2-methyl pr	2.011	1.648	18.1	84	-0.02
30	S	Dibromofluoromethane	0.626	0.662	-5.8	108	-0.02
31		Tetrahydrofuran	0.046	0.134	-191.3#	345#	-0.02
32	TM	1,2-Dichloroethane	0.766	0.653	14.8	86	-0.03
33	TM	1,1,1-Trichloroethane	0.936	0.950	-1.5	102	-0.03
34		(TAME) tert-Amyl methyl eth	1.440	1.176	18.3	82	-0.02
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	-0.02
36	T	1,1-Dichloropropene	0.569	0.583	-2.5	98	-0.02
37	TM	Carbon tetrachloride	0.400	0.434	-8.5	102	-0.02
38	TM	Benzene	1.455	1.547	-6.3	104	-0.02
39	T	Dibromomethane	0.171	0.166	2.9	91	-0.02
40	TMC	1,2-Dichloropropane	0.427	0.398	6.8	86	-0.02
41	TM	Trichloroethene	0.373	0.394	-5.6	97	-0.02
42	TM	Bromodichloromethane	0.471	0.430	8.7	88	-0.02
43	T	2-Chlorovinylethylether	0.162	0.058#	64.2#	33#	-0.02
44	TM	cis-1,3-Dichloropropene	0.575	0.530	7.8	87	-0.02
45		4-Methyl-2-pentanone (MIBK)	0.246	0.187	24.0	72	-0.02
46	TM	trans-1,3-Dichloropropene	0.434	0.396	8.8	85	-0.02
47	TM	1,1,2-Trichloroethane	0.204	0.197	3.4	91	-0.02
48	S	Toluene-d8	1.204	1.320	-9.6	103	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191103.D Vial: 3
Acq On : 19 Sep 2011 11:02 am Operator: MS
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	TMC	Toluene	0.872	0.941	-7.9	103	-0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	90	-0.02
51	T	1,3-Dichloropropane	0.490	0.505	-3.1	90	-0.02
52	T	2-Hexanone	0.184	0.140	23.9	66	-0.02
53	TM	Dibromochloromethane	0.288	0.300	-4.2	95	-0.02
54	T	1,2-Dibromoethane	0.243	0.261	-7.4	98	-0.02
55	TM	Tetrachloroethene	0.360	0.438	-21.7	110	-0.02
56	T	1,1,1,2-Tetrachloroethane	0.300	0.340	-13.3	101	-0.02
57	TMP	Chlorobenzene	0.963	1.084	-12.6	101	-0.02
58	TMC	Ethylbenzene	1.827	2.045	-11.9	99	-0.02
59	T	m,p-Xylenes	0.670	0.768	-14.6	102	-0.02
60	T	Styrene	1.029	1.116	-8.5	96	-0.02
61	T	o-Xylene	0.625	0.722	-15.5	102	-0.02
62	S	4-Bromofluorobenzene	0.504	0.544	-7.9	96	-0.02
63		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	-0.02
64	TMP	Bromoform	0.302	0.314	-4.0	94	-0.02
65	TMP	1,1,2,2-Tetrachloroethane	0.656	0.647	1.4	91	-0.02
66	T	1,2,3-Trichloropropane	0.155	0.139	10.3	84	-0.02
67	T	trans-1,4-Dichloro-2-butene	0.212	0.161	24.1	73	-0.02
68	T	Isopropylbenzene	3.537	3.820	-8.0	100	-0.02
69	T	Bromobenzene	0.767	0.828	-8.0	101	-0.02
70	T	n-Propylbenzene	4.995	5.357	-7.2	99	-0.02
71	T	2-Chlorotoluene	2.924	2.958	-1.2	91	-0.02
72	T	4-Chlorotoluene	2.960	3.001	-1.4	95	-0.02
73	T	1,3,5-Trimethylbenzene	3.072	3.312	-7.8	99	-0.02
74	T	tert-Butylbenzene	2.548	2.758	-8.2	99	-0.02
75	T	1,2,4-Trimethylbenzene	3.093	3.251	-5.1	97	-0.02
76	T	sec-Butylbenzene	4.314	4.762	-10.4	100	-0.02
77	TM	1,3-Dichlorobenzene	1.556	1.693	-8.8	99	-0.02
78	TM	1,4-Dichlorobenzene	1.581	1.719	-8.7	101	-0.02
79	T	p-Isopropyltoluene	3.342	3.636	-8.8	99	-0.02
80	TM	1,2-Dichlorobenzene	1.320	1.391	-5.4	96	-0.02
81	T	n-Butylbenzene	3.716	3.942	-6.1	96	-0.02
82	T	1,2-Dibromo-3-chloropropane	0.083	0.082#	1.2	92	-0.02
83	T	1,2,4-Trichlorobenzene	0.877	0.899	-2.5	95	-0.02
84	T	Naphthalene	1.365	1.227	10.1	83	-0.02
85	T	Hexachlorobutadiene	0.530	0.620	-17.0	110	-0.02
86	T	1,2,3-Trichlorobenzene	0.715	0.729	-2.0	96	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

8260 CCV-ICV Custom Report

Data File Name	09191103.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\091911\
Operator	MS
Date Acquired	9/19/2011 11:02
Acq. Method File	8260B
Sample Name	25 PPB CCV
Instrument Name	GCMS7

9/21/11

#	Name	Target Res.	ICAL Res.	Low	High	T/F
1)	TBA-d9	33650	39761	19880.5	79522	TRUE
4)	Pentafluorobenzene	196976	193755	96877.5	387510	TRUE
35)	1,4-Difluorobenzene	351125	360434	180217	720868	TRUE
50)	Chlorobenzene-d5	288117	319459	159729.5	638918	TRUE
63)	1,4-Dichlorobenzene-d4	131139	137636	68818	275272	TRUE

Note: TBA-d9 limits not monitored.

#	Name	Amount	Spike Amt.	% REC.	Low	High	T/F	
2)	Ethanol	313.79	250	126%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	119.69	125	96%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	26.04	25	104%	60%	140%	TRUE	
6)	Chloromethane	24.90	25	100%	48%	144%	TRUE	
7)	Vinyl chloride	27.37	25	109%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	24.25	25	97%	50%	141%	TRUE	
9)	Bromomethane	29.15	25	117%	40%	144%	TRUE	
10)	Chloroethane	25.29	25	101%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.41	25	102%	68%	136%	TRUE	
12)	Acetone	23.02	25	92%	12%	150%	TRUE	
13)	Iodomethane	27.53	25	110%	40%	150%	TRUE	
14)	1,1-Dichloroethene	24.51	25	98%	80%	120%	TRUE	CCC
15)	Methylene chloride	23.28	25	93%	68%	128%	TRUE	
16)	Freon 113	26.06	25	104%	76%	124%	TRUE	
17)	Carbon disulfide	20.34	25	81%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	21.91	25	88%	76%	120%	TRUE	
19)	MTBE	21.25	25	85%	64%	140%	TRUE	
20)	1,1-Dichloroethane	24.90	25	100%	72%	124%	TRUE	
21)	Vinyl acetate	19.58	25	78%	48%	150%	TRUE	
22)	n-Hexane	25.96	25	104%	56%	150%	TRUE	
23)	2-Butanone (MEK)	21.19	25	85%	44%	150%	TRUE	
24)	Diisopropylether (DIPE)	21.67	25	87%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	24.32	25	97%	72%	128%	TRUE	
26)	Bromochloromethane	25.17	25	101%	72%	132%	TRUE	
27)	Chloroform	24.52	25	98%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	24.68	25	99%	64%	140%	TRUE	
29)	(ETBE) 2-Ethoxy-2-methyl p	20.49	25	82%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**26.43**	**25**	**106%**	**80%**	**120%**	**TRUE**	
31)	Tetrahydrofuran	92.17	25	369%	64%	139%	FALSE	NT
32)	1,2-Dichloroethane	21.32	25	85%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	25.38	25	102%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl et	20.42	25	82%	68%	140%	TRUE	
36)	1,1-Dichloropropene	25.64	25	103%	76%	128%	TRUE	
37)	Carbon tetrachloride	27.10	25	108%	72%	136%	TRUE	

38)	Benzene	26.58	25	106%	76%	120%	TRUE	
39)	Dibromomethane	24.23	25	97%	72%	132%	TRUE	
40)	1,2-Dichloropropane	23.27	25	93%	80%	120%	TRUE	CCC
41)	Trichloroethene	26.42	25	106%	80%	120%	TRUE	
42)	Bromodichloromethane	22.82	25	91%	76%	128%	TRUE	
43)	2-Chlorovinylethylether	8.98	25	36%	10%	150%	TRUE	
44)	cis-1,3-Dichloropropene	23.04	25	92%	76%	136%	TRUE	
45)	4-Methyl-2-pentanone (MIB	19.00	25	76%	60%	144%	TRUE	
46)	trans-1,3-Dichloropropene	22.83	25	91%	68%	140%	TRUE	
47)	1,1,2-Trichloroethane	24.14	25	97%	72%	132%	TRUE	
48)	**Toluene-d8**	**27.41**	**25**	**110%**	**80%**	**120%**	**TRUE**	
49)	Toluene	27.00	25	108%	80%	120%	TRUE	CCC
51)	1,3-Dichloropropane	25.74	25	103%	80%	124%	TRUE	
52)	2-Hexanone	18.96	25	76%	52%	150%	TRUE	
53)	Dibromochloromethane	26.01	25	104%	80%	128%	TRUE	
54)	1,2-Dibromoethane	26.91	25	108%	80%	128%	TRUE	
55)	Tetrachloroethene	30.44	25	122%	76%	128%	TRUE	
56)	1,1,1,2-Tetrachloroethane	28.34	25	113%	76%	124%	TRUE	
57)	Chlorobenzene	28.14	25	113%	80%	120%	TRUE	
58)	Ethylbenzene	27.99	25	112%	80%	120%	TRUE	CCC
59)	m,p-Xylenes	28.67	25	115%	80%	120%	TRUE	
60)	Styrene	27.13	25	109%	84%	124%	TRUE	
61)	o-Xylene	28.86	25	115%	72%	128%	TRUE	
62)	**4-Bromofluorobenzene**	**26.99**	**25**	**108%**	**80%**	**120%**	**TRUE**	
64)	Bromoform	26.03	25	104%	68%	132%	TRUE	
65)	1,1,2,2-Tetrachloroethane	24.65	25	99%	68%	132%	TRUE	
66)	1,2,3-Trichloropropane	22.29	25	89%	76%	128%	TRUE	
67)	trans-1,4-Dichloro-2-butene	18.97	25	76%	48%	138%	TRUE	
68)	Isopropylbenzene	27.00	25	108%	76%	132%	TRUE	
69)	Bromobenzene	26.97	25	108%	76%	128%	TRUE	
70)	n-Propylbenzene	26.81	25	107%	76%	132%	TRUE	
71)	2-Chlorotoluene	25.29	25	101%	80%	124%	TRUE	
72)	4-Chlorotoluene	25.34	25	101%	80%	124%	TRUE	
73)	1,3,5-Trimethylbenzene	26.95	25	108%	80%	128%	TRUE	
74)	tert-Butylbenzene	27.06	25	108%	76%	132%	TRUE	
75)	1,2,4-Trimethylbenzene	26.27	25	105%	80%	128%	TRUE	
76)	sec-Butylbenzene	27.59	25	110%	80%	128%	TRUE	
77)	1,3-Dichlorobenzene	27.20	25	109%	80%	124%	TRUE	
78)	1,4-Dichlorobenzene	27.18	25	109%	76%	120%	TRUE	
79)	p-Isopropyltoluene	27.20	25	109%	80%	128%	TRUE	
80)	1,2-Dichlorobenzene	26.35	25	105%	80%	124%	TRUE	
81)	n-Butylbenzene	26.52	25	106%	76%	132%	TRUE	
82)	1,2-Dibromo-3-chloropropa	24.73	25	99%	64%	128%	TRUE	
83)	1,2,4-Trichlorobenzene	25.63	25	103%	76%	128%	TRUE	
84)	Naphthalene	22.48	25	90%	68%	136%	TRUE	
85)	Hexachlorobutadiene	29.24	25	117%	76%	132%	TRUE	
86)	1,2,3-Trichlorobenzene	25.48	25	102%	72%	128%	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 11:32 am Operator: MS
Sample : 11I0653-BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:59 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.30	65	32136	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.45	168	203990	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	11.59	114	360982	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.93	117	311676	25.00 ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.40	152	136992	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.95	113	120077	23.52 ug/L	-0.02
Spiked Amount 25.000			Recovery =	94.08%	
48) Toluene-d8	13.97	98	427260	24.58 ug/L	-0.02
Spiked Amount 25.000			Recovery =	98.32%	
62) 4-Bromofluorobenzene	17.61	95	153041	24.35 ug/L	-0.02
Spiked Amount 25.000			Recovery =	97.40%	

Target Compounds					Qvalue
2) Ethanol	5.88	45	9275	274.50 ug/L	98
3) tert-Butanol (TBA)	7.41	59	27920	119.72 ug/L	98
5) Dichlorodifluoromethane	4.50	85	172295	19.31 ug/L #	78
6) Chloromethane	4.79	50	255872	19.35 ug/L	99
7) Vinyl chloride	5.07	62	229940	22.63 ug/L	99
8) 1,3-Butadiene	5.24	54	200310	26.31 ug/L	93
9) Bromomethane	5.67	94	111306	23.64 ug/L	97
10) Chloroethane	5.86	64	125679	21.95 ug/L	96
11) Trichlorofluoromethane	6.64	101	163227	22.02 ug/L	100
12) Acetone	6.81	43	24347	20.47 ug/L #	84
13) Iodomethane	7.43	142	177513	30.66 ug/L	96
14) 1,1-Dichloroethene	7.37	96	124812	23.11 ug/L	85
15) Methylene chloride	7.57	84	130431	21.18 ug/L	90
16) Freon 113	7.63	101	130440	23.31 ug/L	97
17) Carbon disulfide	7.88	76	514331	23.30 ug/L	97
18) trans-1,2-Dichloroethene	8.45	96	140379	22.40 ug/L	98
19) MTBE	8.60	73	197060	18.96 ug/L	97
20) 1,1-Dichloroethane	8.78	63	271379	22.35 ug/L	99
21) Vinyl acetate	8.94	43	214757	19.66 ug/L	99
22) n-Hexane	9.30	86	33421	20.88 ug/L	87
23) 2-Butanone (MEK)	9.34	72	6065	18.85 ug/L #	100
24) Diisopropylether (DIPE)	9.35	45	502983	19.53 ug/L	96
25) cis-1,2-Dichloroethene	9.53	96	137370	21.81 ug/L	89
26) Bromochloromethane	9.74	128	53254	23.19 ug/L	95
27) Chloroform	9.79	83	222646	22.21 ug/L	99
28) 2,2-Dichloropropane	9.90	77	186118	21.04 ug/L	97
29) (ETBE) 2-Ethoxy-2-methyl p	9.86	59	298594	18.19 ug/L	98
31) Tetrahydrofuran	10.23	72	6543	20.35 ug/L #	89
32) 1,2-Dichloroethane	10.64	62	129079	20.65 ug/L	96
33) 1,1,1-Trichloroethane	10.77	97	180413	23.63 ug/L	94
34) (TAME) tert-Amyl methyl et	11.49	73	230847	19.65 ug/L	95
36) 1,1-Dichloropropene	11.00	75	185279	22.56 ug/L	97
37) Carbon tetrachloride	11.24	117	144031	24.93 ug/L	99
38) Benzene	11.29	78	520409	24.77 ug/L	99
39) Dibromomethane	12.03	93	58888	23.80 ug/L	97
40) 1,2-Dichloropropane	12.07	63	139673	22.64 ug/L	99

(#) = qualifier out of range (m) = manual integration
09191104.D 071211.M Tue Sep 20 12:01:07 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 11:32 am Operator: MS
Sample : 11I0653-BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:59 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

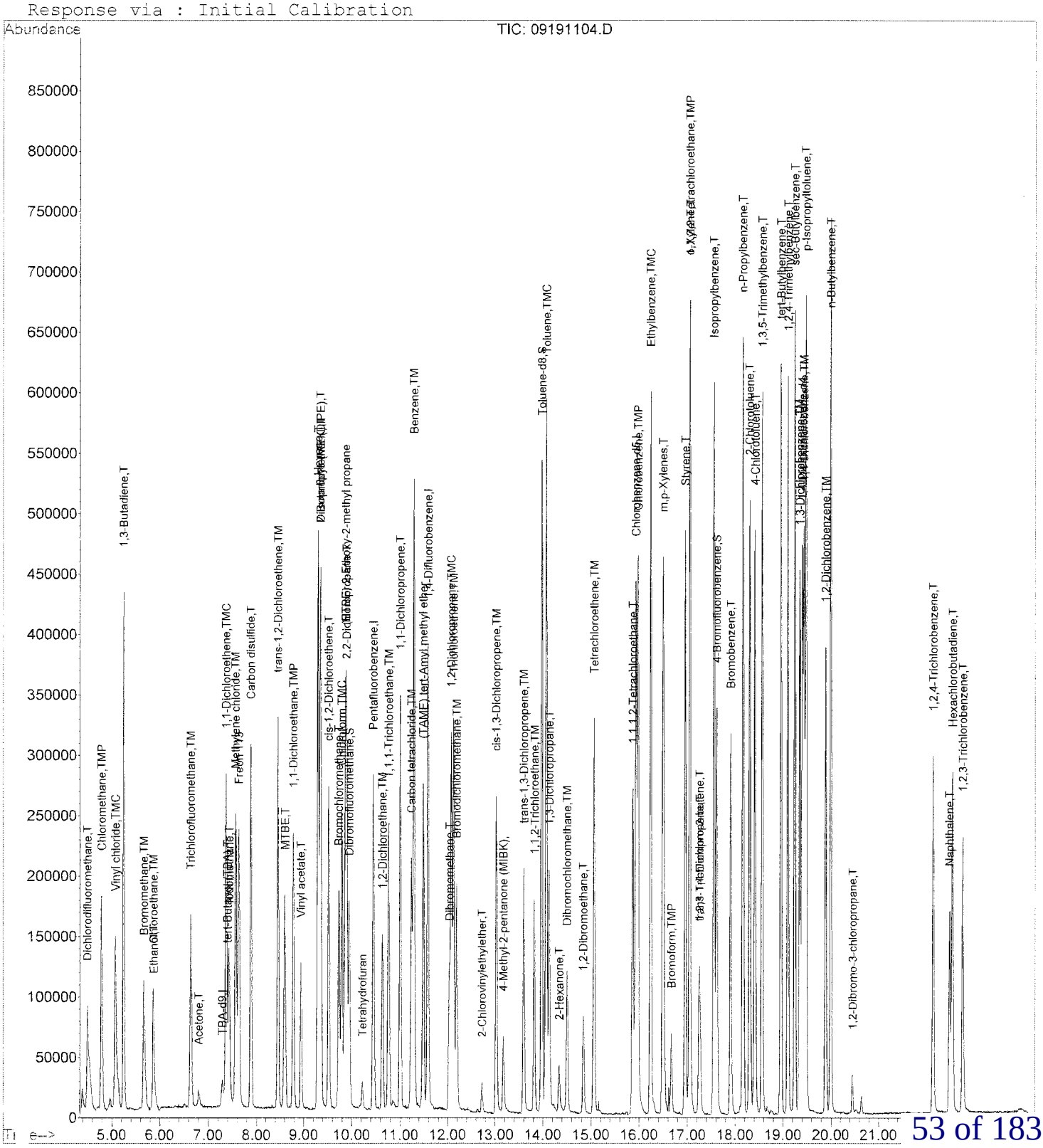
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.12	95	133775	24.87 ug/L	96
42) Bromodichloromethane	12.19	83	142842	21.00 ug/L	99
43) 2-Chlorovinylethylether	12.73	63	12545	5.36 ug/L	99
44) cis-1,3-Dichloropropene	13.02	75	182003	21.91 ug/L	98
45) 4-Methyl-2-pentanone (MIBK	13.18	43	63933	18.02 ug/L	97
46) trans-1,3-Dichloropropene	13.60	75	128455	20.52 ug/L	98
47) 1,1,2-Trichloroethane	13.82	83	67550	22.95 ug/L	98
49) Toluene	14.07	92	306462	24.35 ug/L	99
51) 1,3-Dichloropropane	14.13	76	135725	22.20 ug/L	100
52) 2-Hexanone	14.34	43	42965	18.72 ug/L	99
53) Dibromochloromethane	14.51	129	80905	22.52 ug/L	99
54) 1,2-Dibromoethane	14.84	107	69492	22.96 ug/L	94
55) Tetrachloroethene	15.06	166	121855	27.15 ug/L	97
56) 1,1,1,2-Tetrachloroethane	15.87	131	92241	24.69 ug/L	98
57) Chlorobenzene	15.98	112	308373	25.68 ug/L	93
58) Ethylbenzene	16.24	91	564142	24.77 ug/L	98
59) m,p-Xylenes	16.50	106	204749	24.53 ug/L	96
60) Styrene	16.95	104	287600	22.43 ug/L	94
61) o-Xylene	17.05	106	197016	25.27 ug/L	92
64) Bromoform	16.67	173	38750	23.45 ug/L	97
65) 1,1,2,2-Tetrachloroethane	17.04	83	80569	22.41 ug/L	97
66) 1,2,3-Trichloropropane	17.26	110	18560	21.79 ug/L	93
67) trans-1,4-Dichloro-2-buten	17.26	53	21052	18.13 ug/L	96
68) Isopropylbenzene	17.55	105	510726	26.35 ug/L	99
69) Bromobenzene	17.91	156	106305	25.29 ug/L	90
70) n-Propylbenzene	18.16	91	685694	25.05 ug/L	98
71) 2-Chlorotoluene	18.30	91	379896	23.71 ug/L	95
72) 4-Chlorotoluene	18.41	91	379582	23.40 ug/L	98
73) 1,3,5-Trimethylbenzene	18.56	105	420129	24.96 ug/L	100
74) tert-Butylbenzene	18.95	119	346422	24.81 ug/L	96
75) 1,2,4-Trimethylbenzene	19.11	105	416763	24.59 ug/L	99
76) sec-Butylbenzene	19.25	105	597724	25.28 ug/L	99
77) 1,3-Dichlorobenzene	19.35	146	221565	25.98 ug/L	96
78) 1,4-Dichlorobenzene	19.43	146	220958	25.50 ug/L	99
79) p-Isopropyltoluene	19.48	119	454196	24.80 ug/L	98
80) 1,2-Dichlorobenzene	19.88	146	181390	25.08 ug/L	98
81) n-Butylbenzene	19.99	91	487504	23.94 ug/L	97
82) 1,2-Dibromo-3-chloropropan	20.46	157	9957	21.83 ug/L	99
83) 1,2,4-Trichlorobenzene	22.15	180	119142	24.79 ug/L	96
84) Naphthalene	22.48	128	163691	21.89 ug/L	98
85) Hexachlorobutadiene	22.54	225	72891	25.09 ug/L	95
86) 1,2,3-Trichlorobenzene	22.75	180	96030	24.51 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191104.D Vial: 4
Acq On : 19 Sep 2011 11:32 am Operator: MS
Sample : 11I0653-BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 11:59 2011 Quant Results File: 071211.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 12:03 pm Operator: MS
Sample : 11I0653-BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 12:02 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.30	65	30369	200.00	ug/L	-0.01
4) Pentafluorobenzene	10.46	168	203247	25.00	ug/L	-0.02
35) 1,4-Difluorobenzene	11.59	114	359083	25.00	ug/L	-0.01
50) Chlorobenzene-d5	15.93	117	316340	25.00	ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.40	152	141722	25.00	ug/L	-0.02
System Monitoring Compounds						
30) Dibromofluoromethane	9.95	113	117693	23.13	ug/L	-0.02
Spiked Amount 25.000			Recovery = 92.52%			
48) Toluene-d8	13.97	98	419437	24.26	ug/L	-0.02
Spiked Amount 25.000			Recovery = 97.04%			
62) 4-Bromofluorobenzene	17.61	95	154429	24.21	ug/L	-0.02
Spiked Amount 25.000			Recovery = 96.84%			

Target Compounds						Qvalue
2) Ethanol	5.90	45	8840	276.85	ug/L	91
3) tert-Butanol (TBA)	7.41	59	26661	120.97	ug/L #	94
5) Dichlorodifluoromethane	4.50	85	165488	18.61	ug/L	99
6) Chloromethane	4.79	50	242620	18.41	ug/L	100
7) Vinyl chloride	5.08	62	212473	20.99	ug/L	97
8) 1,3-Butadiene	5.24	54	186808	24.63	ug/L	92
9) Bromomethane	5.67	94	109892	23.43	ug/L	99
10) Chloroethane	5.86	64	115362	20.22	ug/L	97
11) Trichlorofluoromethane	6.65	101	161680	21.89	ug/L	100
12) Acetone	6.82	43	24194	20.39	ug/L	96
13) Iodomethane	7.43	142	181296	31.43	ug/L	98
14) 1,1-Dichloroethene	7.38	96	126020	23.42	ug/L	89
15) Methylene chloride	7.58	84	139542	22.81	ug/L	86
16) Freon 113	7.64	101	133343	23.91	ug/L	95
17) Carbon disulfide	7.89	76	499033	22.67	ug/L	97
18) trans-1,2-Dichloroethene	8.46	96	139352	22.32	ug/L	94
19) MTBE	8.61	73	188543	18.21	ug/L	97
20) 1,1-Dichloroethane	8.78	63	267367	22.10	ug/L	99
21) Vinyl acetate	8.94	43	198040	18.20	ug/L	98
22) n-Hexane	9.30	86	32349	20.28	ug/L	90
23) 2-Butanone (MEK)	9.35	72	6294	19.64	ug/L #	100
24) Diisopropylether (DIPE)	9.35	45	482967	18.82	ug/L	97
25) cis-1,2-Dichloroethene	9.53	96	128251	20.44	ug/L	92
26) Bromochloromethane	9.74	128	51269	22.41	ug/L	98
27) Chloroform	9.79	83	209274	20.95	ug/L	95
28) 2,2-Dichloropropane	9.90	77	181749	20.63	ug/L	98
29) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	282858	17.30	ug/L	98
31) Tetrahydrofuran	10.23	72	5551	16.98	ug/L	93
32) 1,2-Dichloroethane	10.64	62	121380	19.48	ug/L	98
33) 1,1,1-Trichloroethane	10.77	97	169024	22.22	ug/L	94
34) (TAME) tert-Amyl methyl et	11.49	73	209569	17.90	ug/L	94
36) 1,1-Dichloropropene	11.01	75	181031	22.16	ug/L	98
37) Carbon tetrachloride	11.24	117	137192	23.87	ug/L	100
38) Benzene	11.29	78	501027	23.98	ug/L	99
39) Dibromomethane	12.03	93	54301	22.06	ug/L	97
40) 1,2-Dichloropropane	12.07	63	132393	21.58	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 12:03 pm Operator: MS
Sample : 11I0653-BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 12:02 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

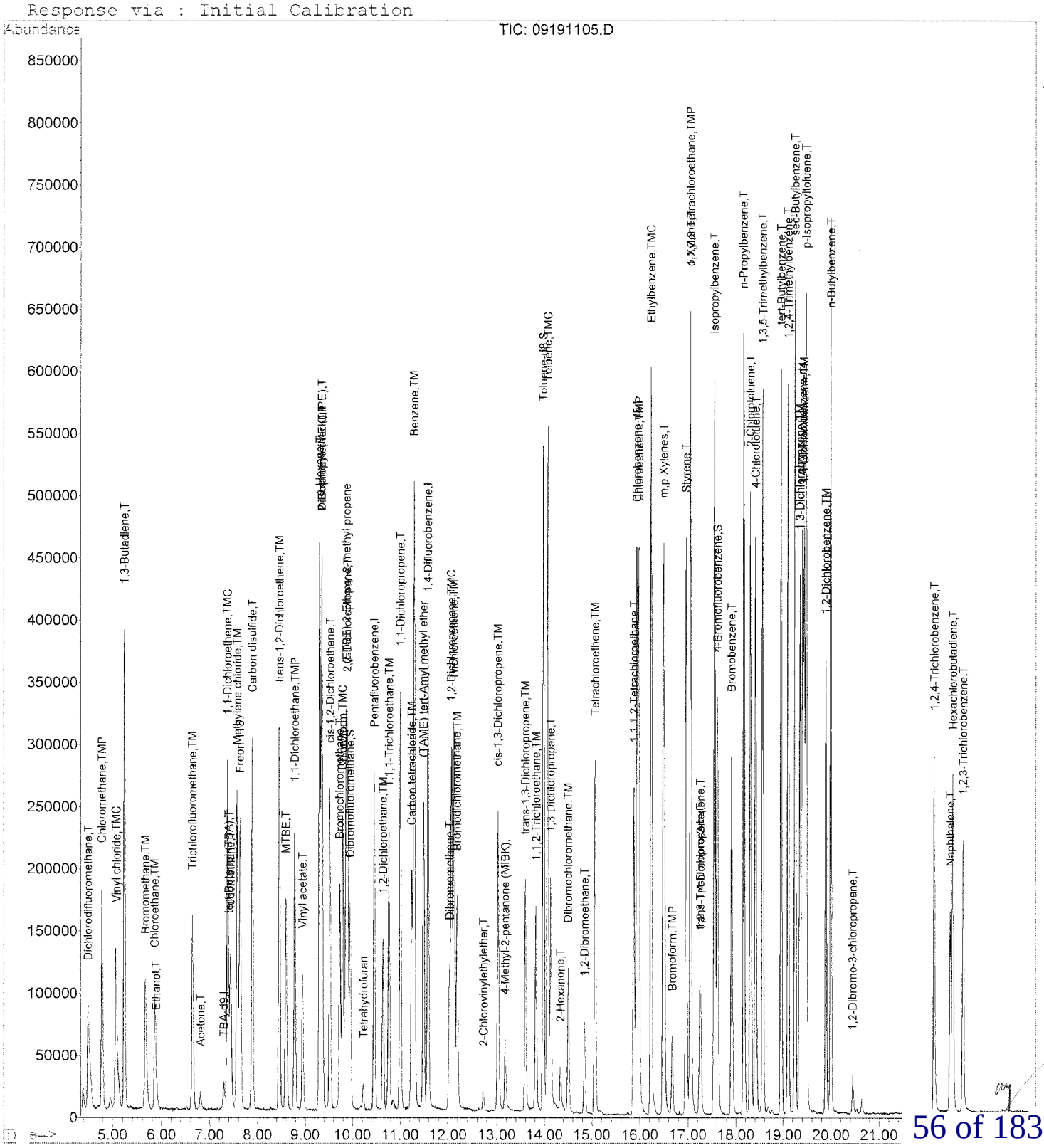
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.12	95	124862	23.34 ug/L	93
42)	Bromodichloromethane	12.19	83	133398	19.71 ug/L	98
43)	2-Chlorovinylethylether	12.73	63	7534	3.23 ug/L	92
44)	cis-1,3-Dichloropropene	13.03	75	164033	19.85 ug/L	97
45)	4-Methyl-2-pentanone (MIBK	13.18	43	58570	16.60 ug/L	99
46)	trans-1,3-Dichloropropene	13.60	75	117032	18.79 ug/L	99
47)	1,1,2-Trichloroethane	13.82	83	60048	20.51 ug/L	94
49)	Toluene	14.07	92	291906	23.31 ug/L	98
51)	1,3-Dichloropropane	14.13	76	123864	19.96 ug/L	98
52)	2-Hexanone	14.33	43	41503	17.81 ug/L	94
53)	Dibromochloromethane	14.50	129	78821	21.62 ug/L	95
54)	1,2-Dibromoethane	14.84	107	69351	22.57 ug/L	98
55)	Tetrachloroethene	15.05	166	101325m	22.25 ug/L	
56)	1,1,1,2-Tetrachloroethane	15.87	131	90874	23.97 ug/L	96
57)	Chlorobenzene	15.98	112	307611	25.24 ug/L	94
58)	Ethylbenzene	16.24	91	565659	24.47 ug/L	97
59)	m,p-Xylenes	16.50	106	204221	24.11 ug/L	93
60)	Styrene	16.95	104	279233	21.45 ug/L	93
61)	o-Xylene	17.05	106	192983	24.39 ug/L	91
64)	Bromoform	16.67	173	37059	21.68 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.05	83	77200	20.75 ug/L	99
66)	1,2,3-Trichloropropane	17.25	110	17304	19.64 ug/L	95
67)	trans-1,4-Dichloro-2-buten	17.27	53	19570	16.29 ug/L	95
68)	Isopropylbenzene	17.55	105	497292	24.80 ug/L	99
69)	Bromobenzene	17.92	156	102769	23.63 ug/L	88
70)	n-Propylbenzene	18.16	91	669675	23.65 ug/L	98
71)	2-Chlorotoluene	18.31	91	368519	22.23 ug/L	94
72)	4-Chlorotoluene	18.41	91	372337	22.19 ug/L	97
73)	1,3,5-Trimethylbenzene	18.57	105	406622	23.35 ug/L	100
74)	tert-Butylbenzene	18.96	119	334682	23.17 ug/L	96
75)	1,2,4-Trimethylbenzene	19.11	105	405640	23.13 ug/L	100
76)	sec-Butylbenzene	19.25	105	583347	23.85 ug/L	99
77)	1,3-Dichlorobenzene	19.35	146	212009	24.03 ug/L	98
78)	1,4-Dichlorobenzene	19.44	146	212488	23.71 ug/L	98
79)	p-Isopropyltoluene	19.48	119	445290	23.50 ug/L	98
80)	1,2-Dichlorobenzene	19.88	146	175477	23.45 ug/L	99
81)	n-Butylbenzene	19.99	91	481921	22.88 ug/L	98
82)	1,2-Dibromo-3-chloropropan	20.46	157	9330	19.77 ug/L	96
83)	1,2,4-Trichlorobenzene	22.15	180	113708	22.87 ug/L	97
84)	Naphthalene	22.49	128	161550	20.88 ug/L	98
85)	Hexachlorobutadiene	22.55	225	70710	23.53 ug/L	97
86)	1,2,3-Trichlorobenzene	22.76	180	95121	23.47 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 12:03 pm Operator: MS
Sample : 11I0653-BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 12:02 2011 Quant Results File: 071211.RES

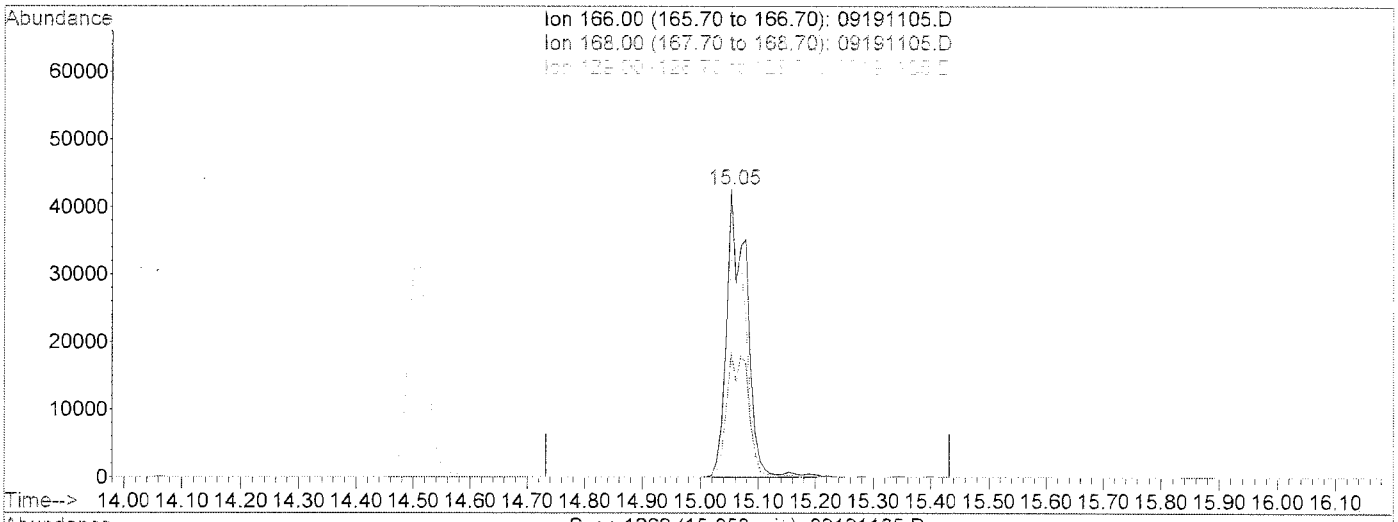
Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

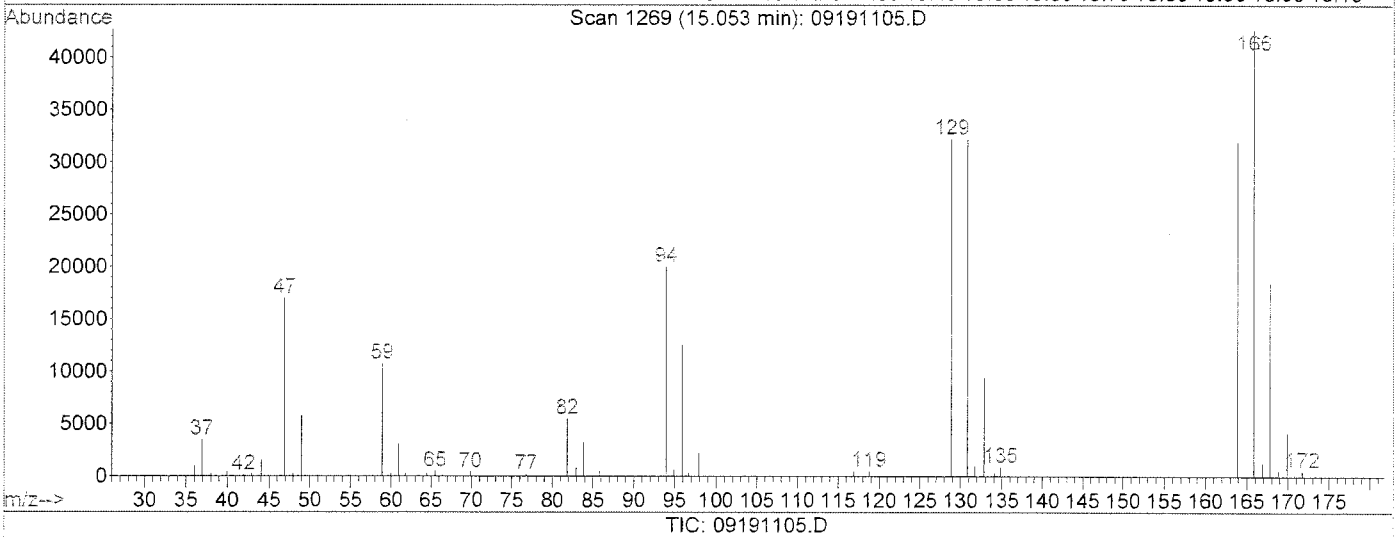


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 12:03 pm Operator: MS
Sample : 11I0653-BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 12:02 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Multiple Level Calibration





TIC: 09191105.D

(55) Tetrachloroethene (TM)

15.05min 22.25ug/L m

response 101325

Ion	Exp%	Act%
166.00	100	100
168.00	47.70	24.44#
129.00	78.50	80.97
0.00	0.00	0.00

9/21/11

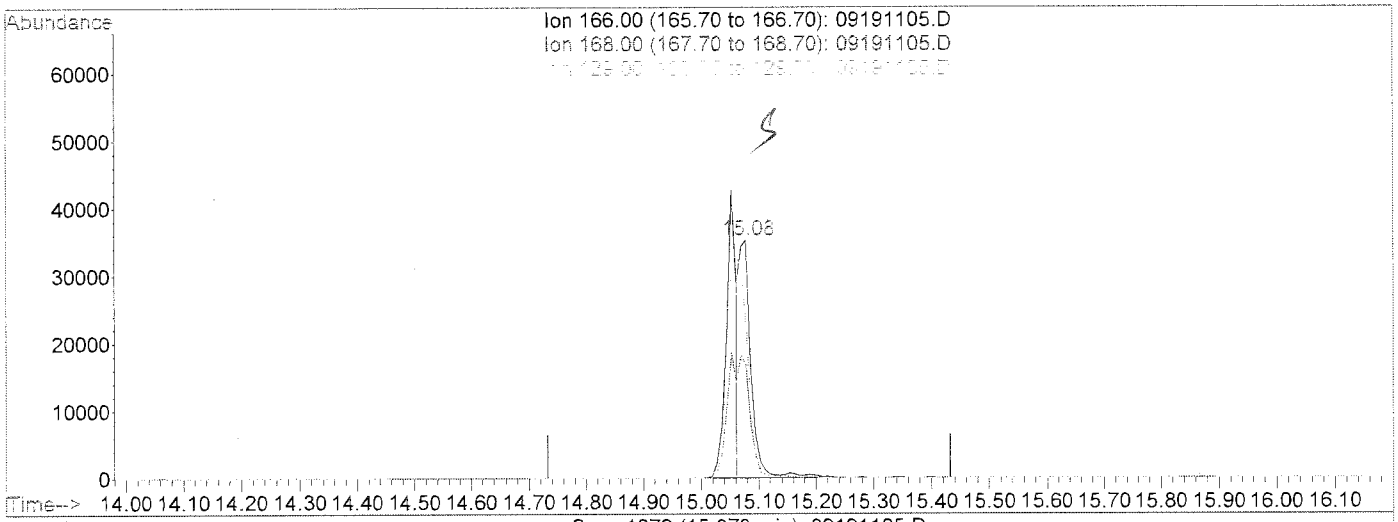
9/20/11

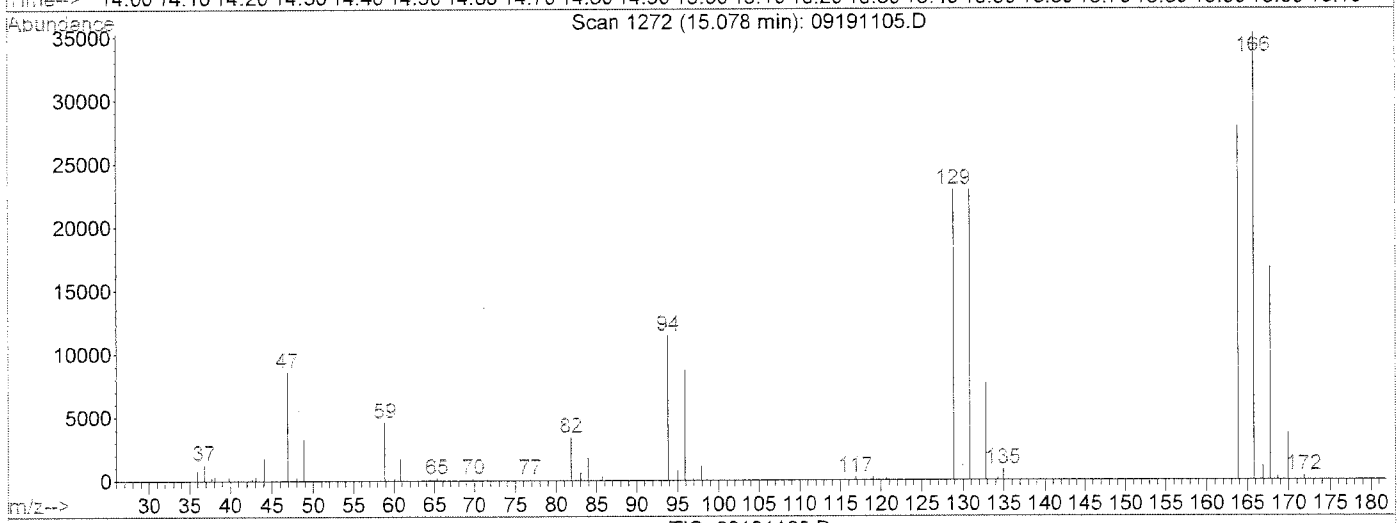
09191105.D 071211.M Tue Sep 20 12:02:38 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191105.D Vial: 5
Acq On : 19 Sep 2011 12:03 pm Operator: MS
Sample : 11I0653-BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 12:30 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Multiple Level Calibration





TIC: 09191105.D

(55) Tetrachloroethene (TM)

15.08min 10.82ug/L

response 49270

Ion	Exp%	Act%
166.00	100	100
168.00	47.70	50.26
129.00	78.50	166.52#
0.00	0.00	0.00

9/21/11

09191105.D 071211.M Tue Sep 20 12:02:07 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 12:34 pm Operator: MS
Sample : 11I0653-BLK1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 16:22 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.30	65	31894	200.00	ug/L	-0.02
4) Pentafluorobenzene	10.46	168	199649	25.00	ug/L	-0.02
35) 1,4-Difluorobenzene	11.59	114	356204	25.00	ug/L	-0.02
50) Chlorobenzene-d5	15.94	117	303968	25.00	ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.41	152	128123	25.00	ug/L	-0.02
System Monitoring Compounds						
30) Dibromofluoromethane	9.96	113	118889	23.79	ug/L	-0.02
Spiked Amount 25.000			Recovery =	95.16%		
48) Toluene-d8	13.98	98	426877	24.89	ug/L	-0.02
Spiked Amount 25.000			Recovery =	99.56%		
62) 4-Bromofluorobenzene	17.62	95	139463	22.75	ug/L	-0.02
Spiked Amount 25.000			Recovery =	91.00%		

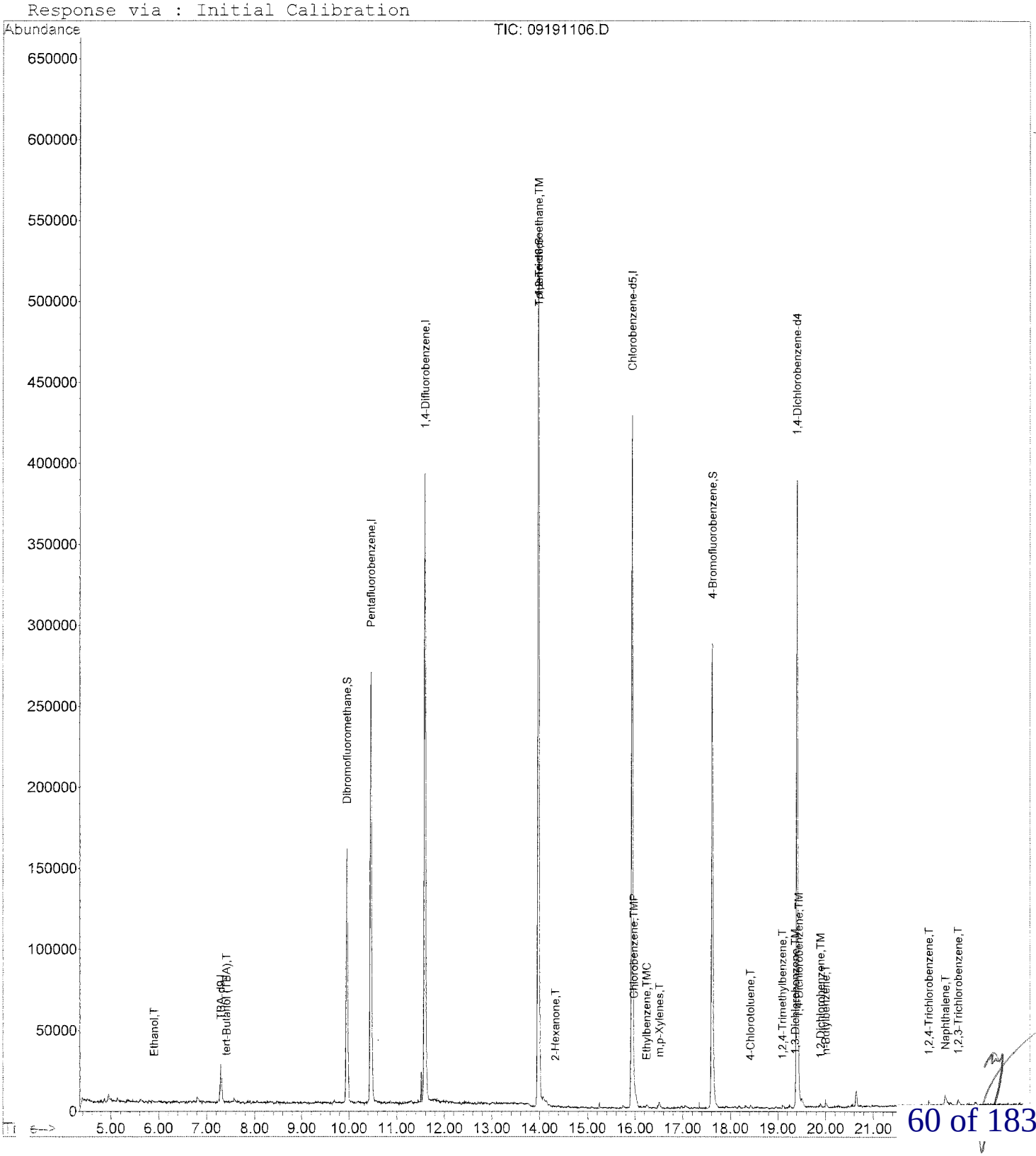
Target Compounds						Qvalue	
2) Ethanol	5.90	45	785	23.41	ug/L	99	NT
3) tert-Butanol (TBA)	7.41	59	145	0.63	ug/L #	81	↓
12) Acetone	6.81	43	5741	Below Cal	#	72	<RL
15) Methylene chloride	7.58	84	1500	Below Cal	#	84	
17) Carbon disulfide	7.89	76	284	Below Cal	#	1	
31) Tetrahydrofuran	10.24	72	240	Below Cal	#	43	
47) 1,1,2-Trichloroethane	13.97	83	388	0.13	ug/L #	7	
52) 2-Hexanone	14.34	43	388	0.17	ug/L #	37	
57) Chlorobenzene	15.98	112	2181	0.19	ug/L	96	
58) Ethylbenzene	16.24	91	2564	0.12	ug/L #	74	
59) m,p-Xylenes	16.50	106	1641	0.20	ug/L	90	
72) 4-Chlorotoluene	18.43	91	1748	0.12	ug/L	96	
75) 1,2,4-Trimethylbenzene	19.11	105	1777	0.11	ug/L	99	
77) 1,3-Dichlorobenzene	19.36	146	1351	0.17	ug/L #	83	
78) 1,4-Dichlorobenzene	19.45	146	1372	0.17	ug/L #	70	
80) 1,2-Dichlorobenzene	19.90	146	1043	0.15	ug/L #	81	
81) n-Butylbenzene	20.01	91	3144	0.17	ug/L	99	
83) 1,2,4-Trichlorobenzene	22.16	180	748	0.17	ug/L #	18	
84) Naphthalene	22.51	128	8371	1.20	ug/L	98	
86) 1,2,3-Trichlorobenzene	22.76	180	853	0.23	ug/L	88	

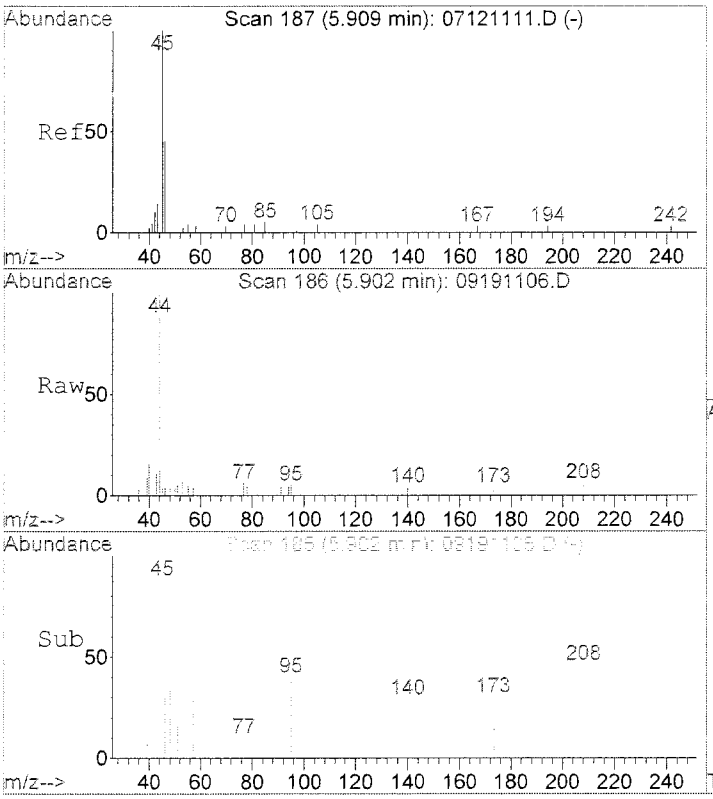
(#) = qualifier out of range (m) = manual integration
09191106.D 071211.M Tue Sep 20 16:22:24 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191106.D Vial: 6
Acq On : 19 Sep 2011 12:34 pm Operator: MS
Sample : 11I0653-BLK1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 16:22 2011 Quant Results File: 071211.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

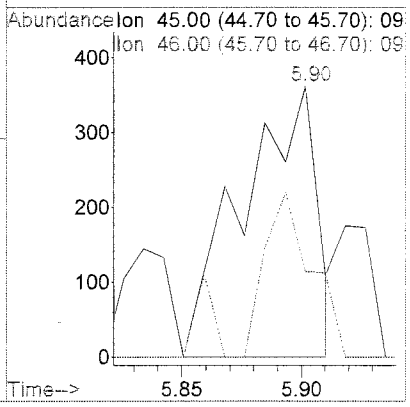


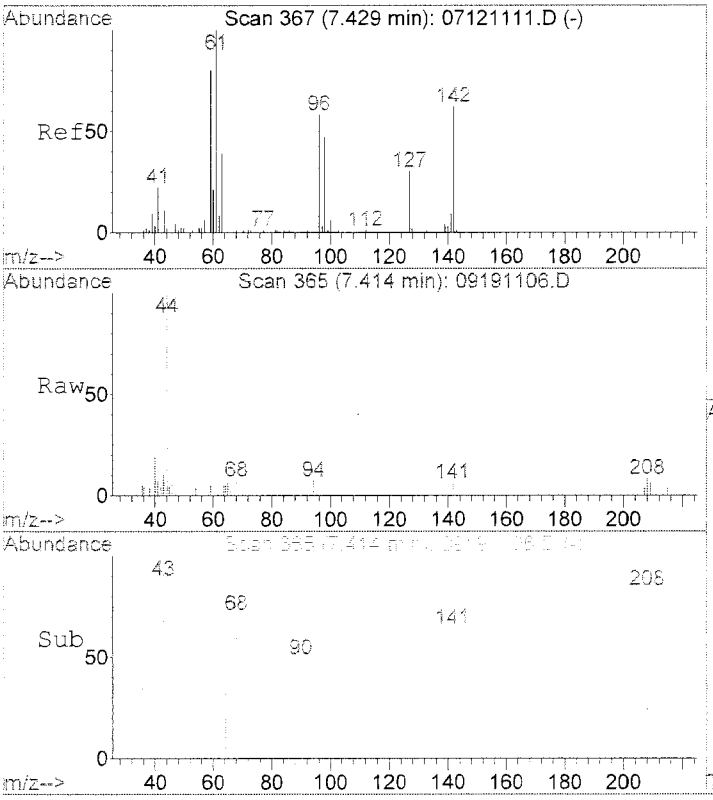


#2
Ethanol
Concen: 23.41 ug/L
RT: 5.90 min Scan# 186
Delta R.T. -0.01 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 45 Resp: 785

Ion	Ratio	Lower	Upper
45	100		
46	38.3	31.3	46.9

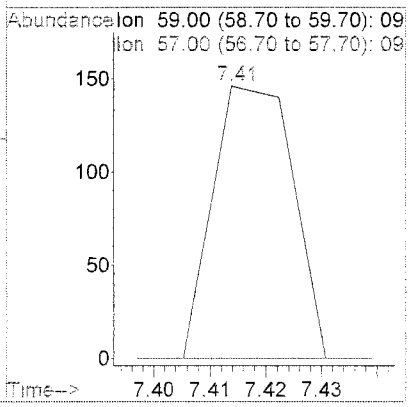


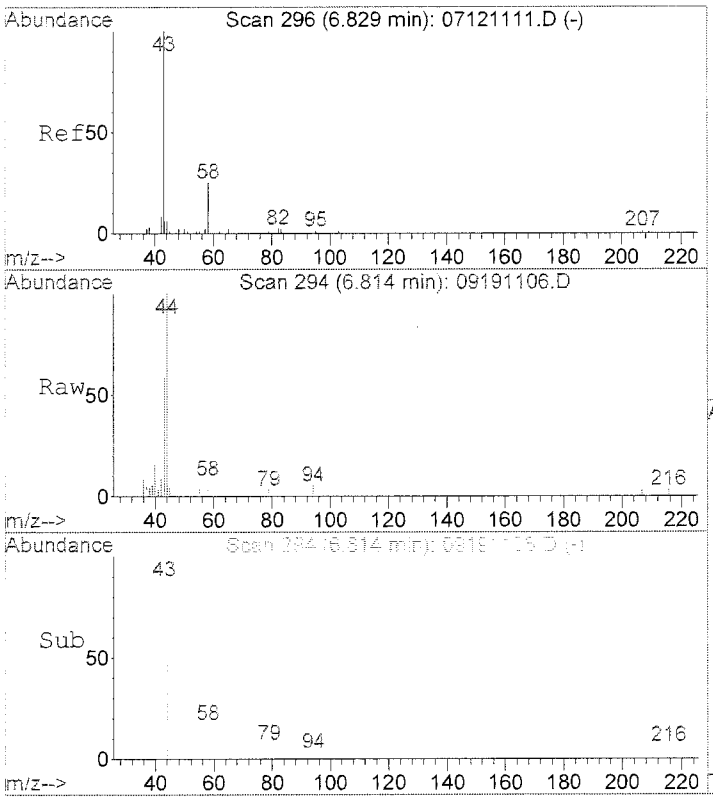


#3
tert-Butanol (TBA)
Concen: 0.63 ug/L
RT: 7.41 min Scan# 365
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 59 Resp: 145

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.0	7.6#

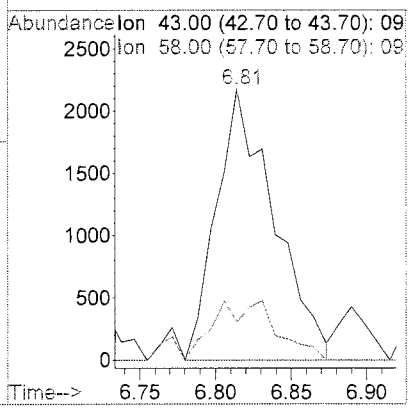


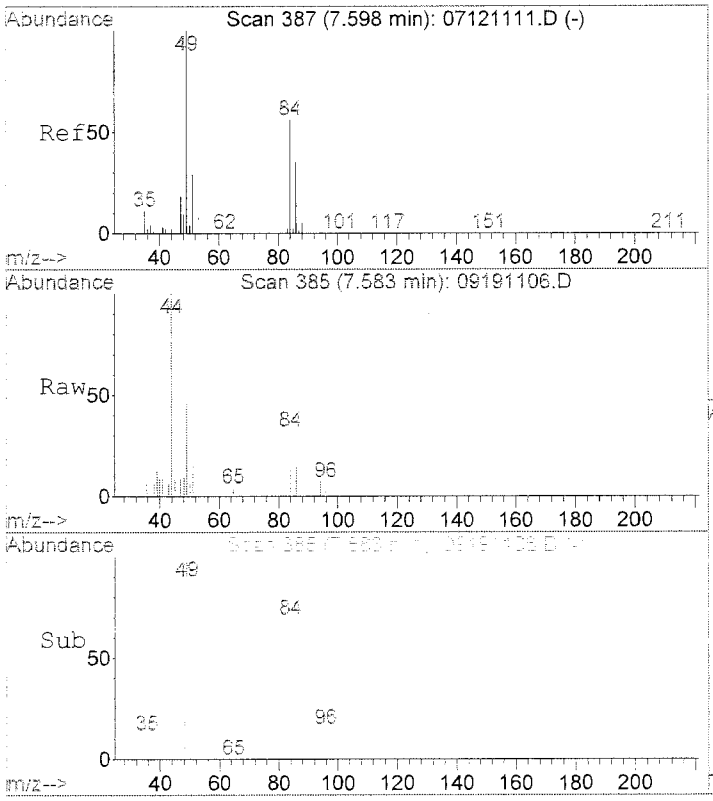


#12
Acetone
Concen: Below Cal
RT: 6.81 min Scan# 294
Delta R.T. -0.01 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 43 Resp: 5741

Ion	Ratio	Lower	Upper
43	100		
58	10.5	19.8	29.6#

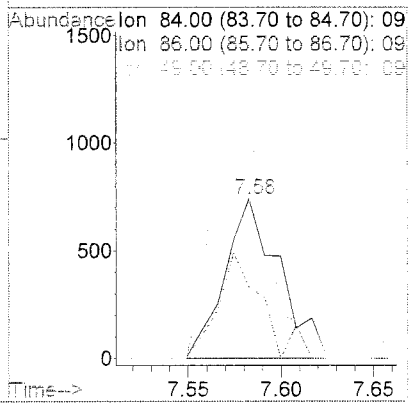


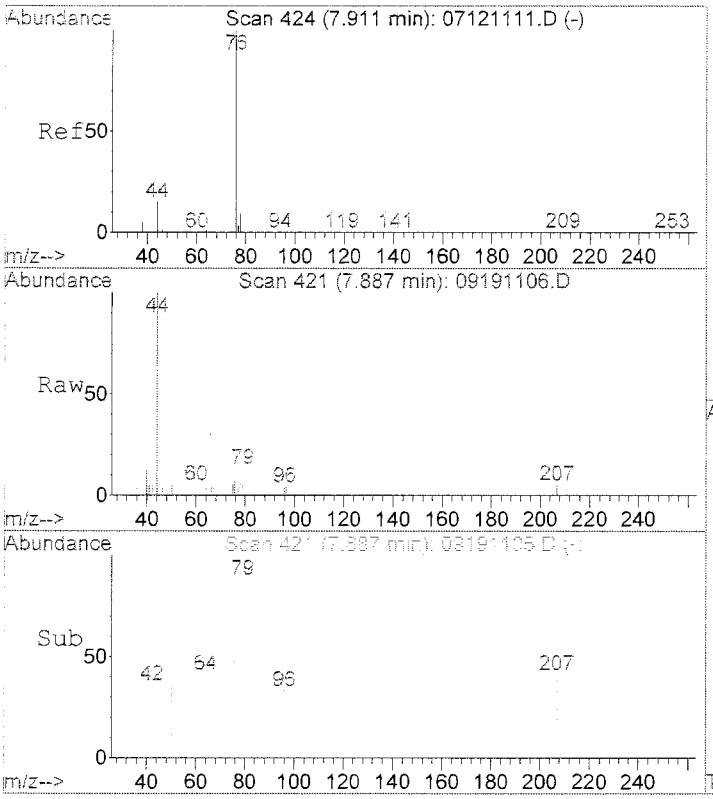


#15
Methylene chloride
Concen: Below Cal
RT: 7.58 min Scan# 385
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 84 Resp: 1500

Ion	Ratio	Lower	Upper
84	100		
86	48.5	48.6	72.8#
49	154.2	141.1	211.7

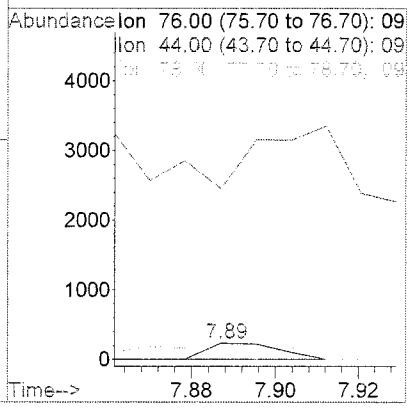


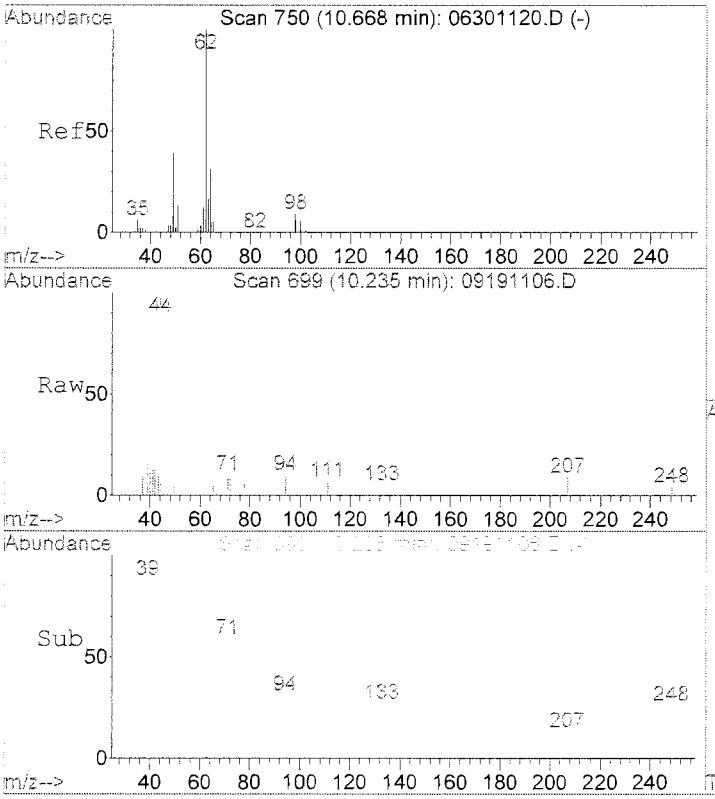


#17
Carbon disulfide
Concen: Below Cal
RT: 7.89 min Scan# 421
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 76 Resp: 284

Ion	Ratio	Lower	Upper
76	100		
44	0.0	0.0	35.9
78	107.4	0.0	29.3#

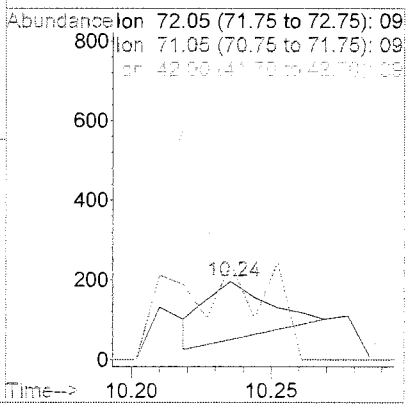


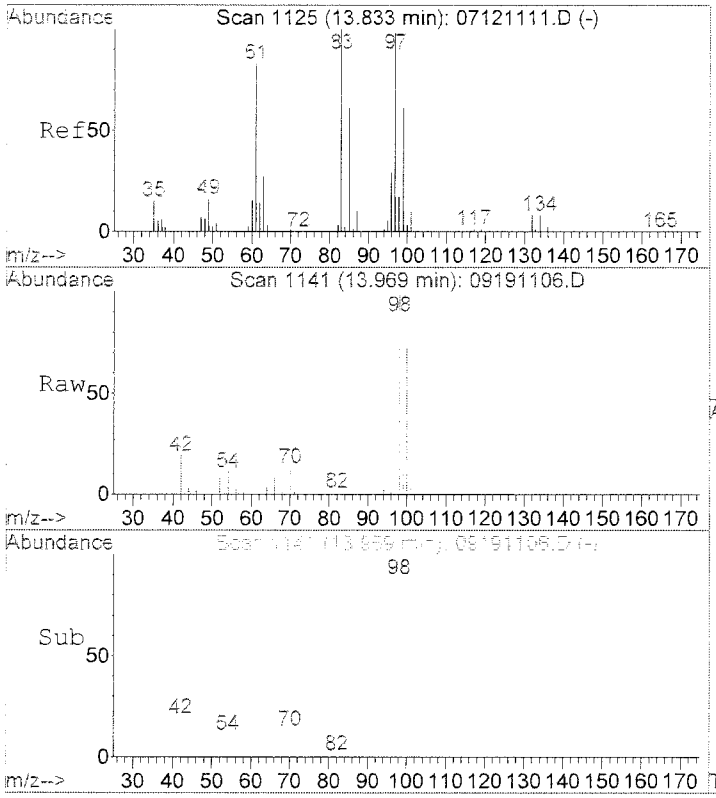


#31
Tetrahydrofuran
Concen: Below Cal
RT: 10.24 min Scan# 699
Delta R.T. -0.01 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 72 Resp: 240

Ion	Ratio	Lower	Upper
72	100		
71	72.5	78.6	117.8#
42	197.5	269.4	404.0#

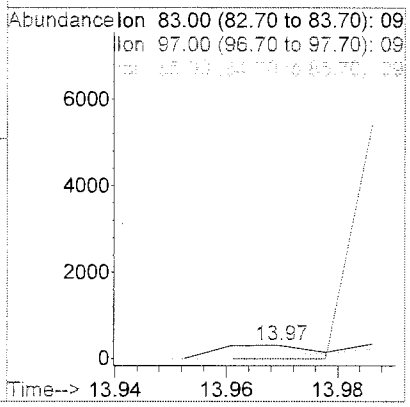


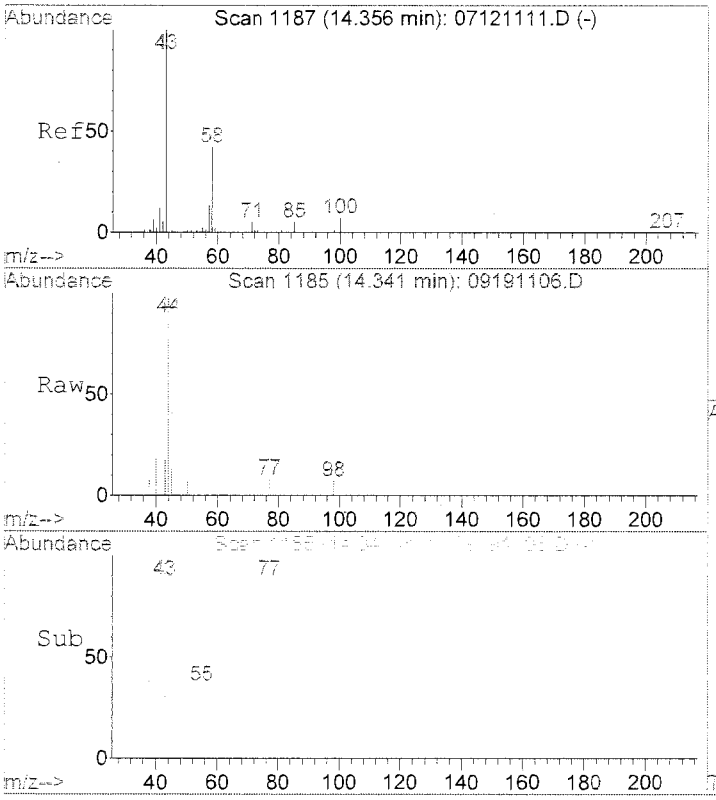


#47
1,1,2-Trichloroethane
Concen: 0.13 ug/L
RT: 13.97 min Scan# 1141
Delta R.T. 0.14 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 83 Resp: 388

Ion	Ratio	Lower	Upper
83	100		
97	0.0	81.0	121.6#
85	0.0	49.6	74.4#

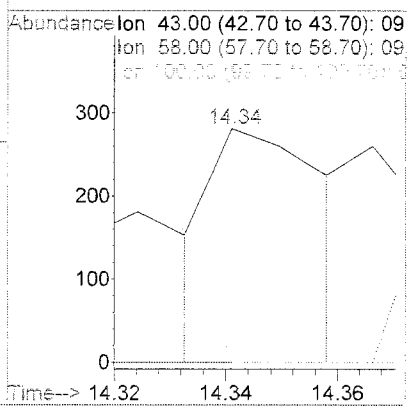


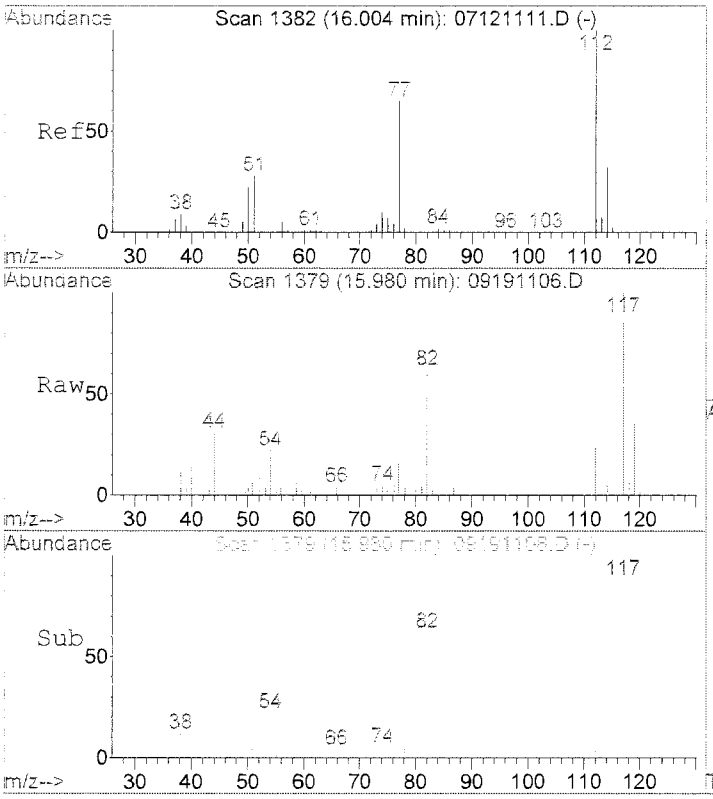


#52
2-Hexanone
Concen: 0.17 ug/L
RT: 14.34 min Scan# 1185
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 43 Resp: 388

Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.1	55.7#
100	0.0	6.1	9.1#

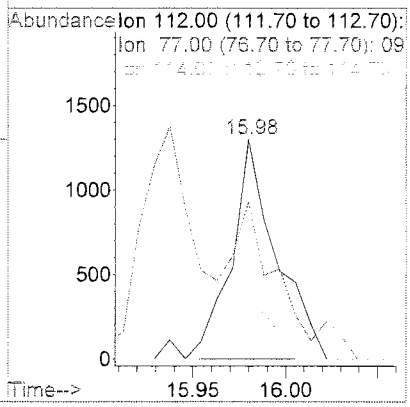


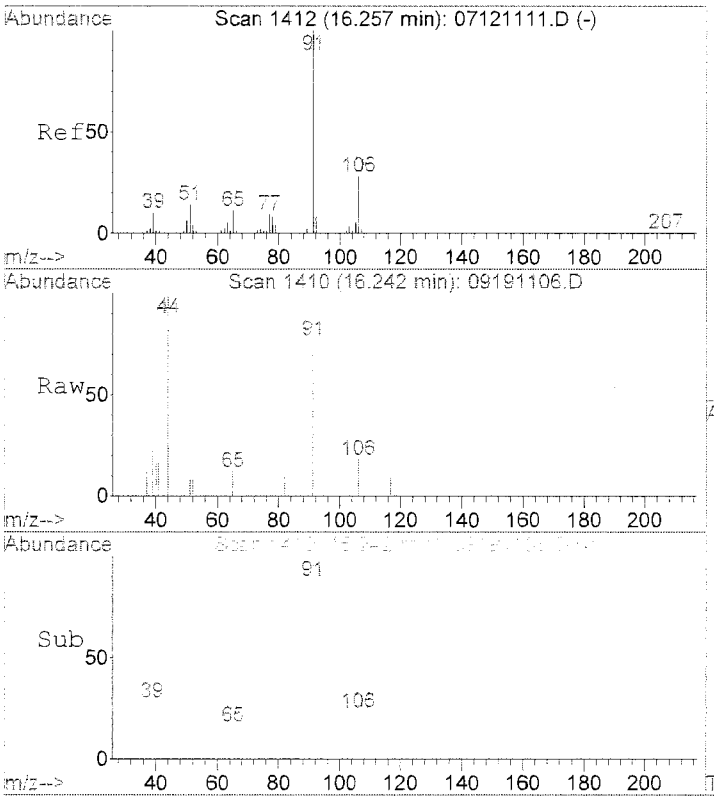


#57
Chlorobenzene
Concen: 0.19 ug/L
RT: 15.98 min Scan# 1379
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:112 Resp: 2181

Ion	Ratio	Lower	Upper
112	100		
77	68.3	57.0	85.6
114	30.2	25.9	38.9

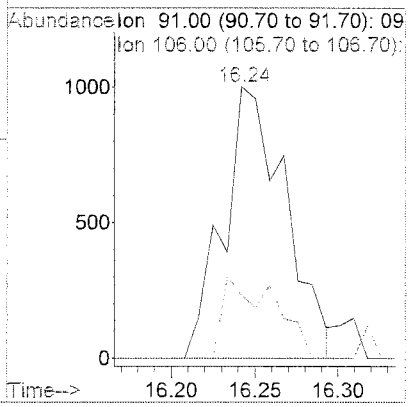


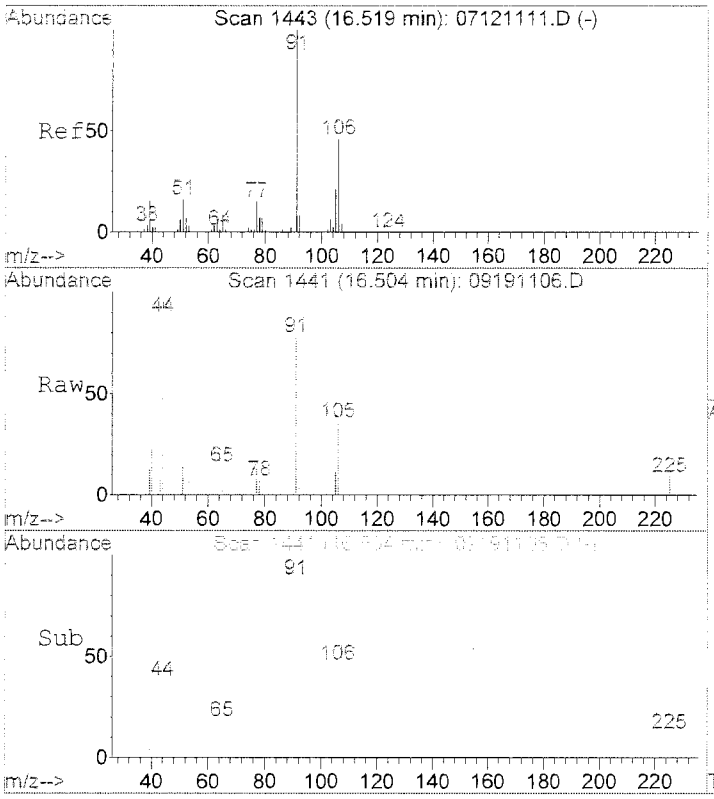


#58
Ethylbenzene
Concen: 0.12 ug/L
RT: 16.24 min Scan# 1410
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 91 Resp: 2564

Ion	Ratio	Lower	Upper
91	100		
106	14.3	22.3	33.5#

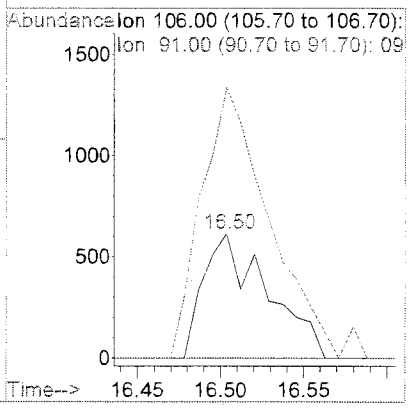


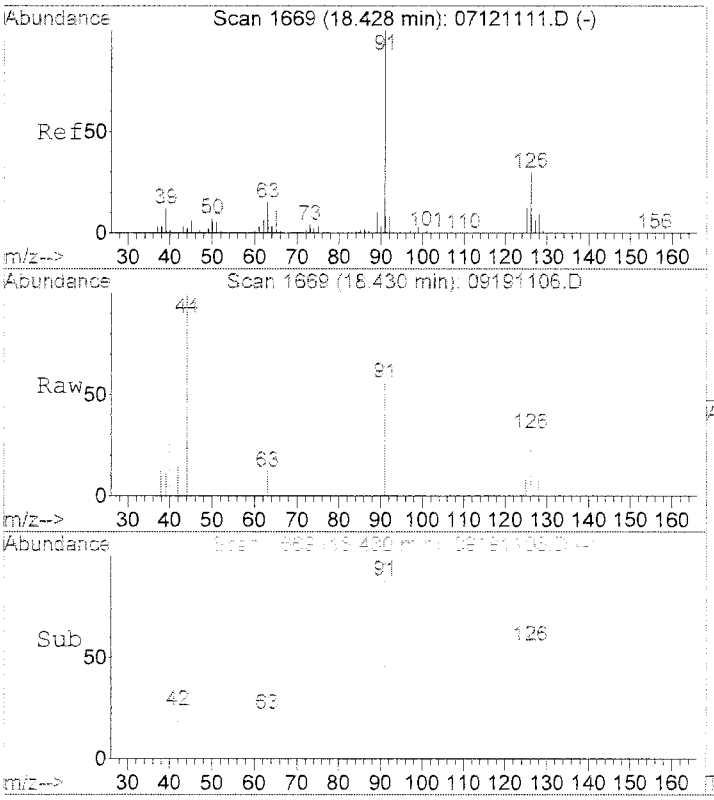


#59
m,p-Xylenes
Concen: 0.20 ug/L
RT: 16.50 min Scan# 1441
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:106 Resp: 1641

Ion	Ratio	Lower	Upper
106	100		
91	229.4	171.0	256.6

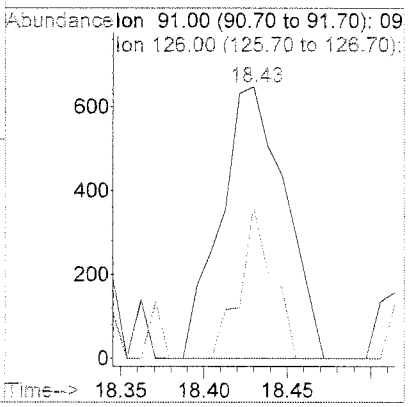


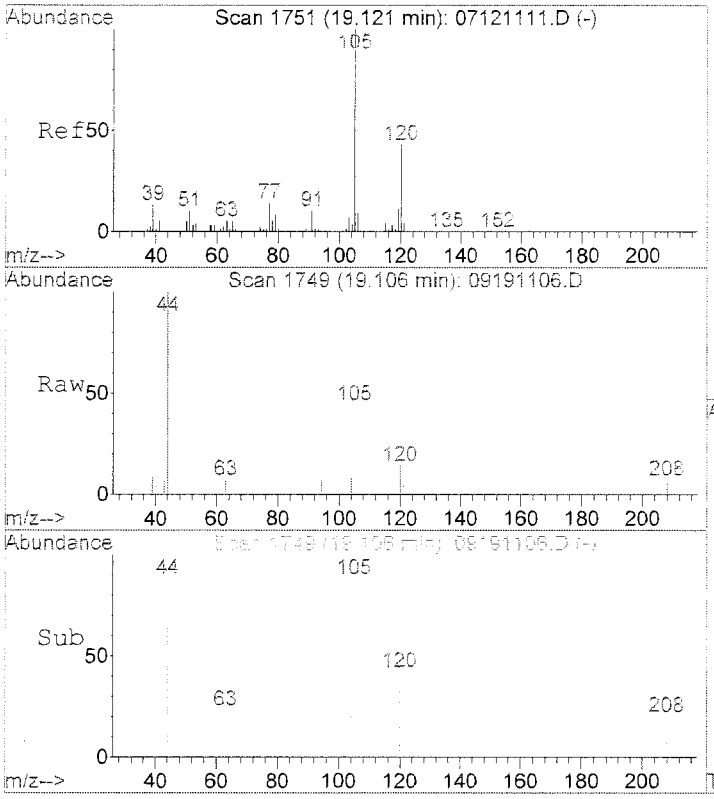


#72
4-Chlorotoluene
Concen: 0.12 ug/L
RT: 18.43 min Scan# 1669
Delta R.T. 0.00 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 91 Resp: 1748

Ion	Ratio	Lower	Upper
91	100		
126	28.3	24.3	36.5

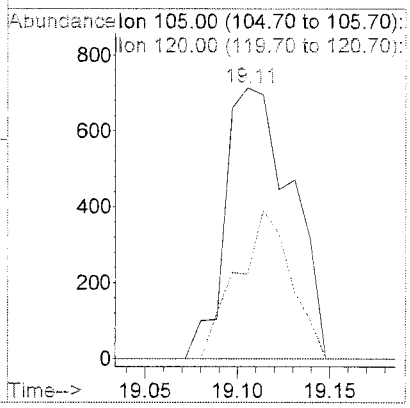


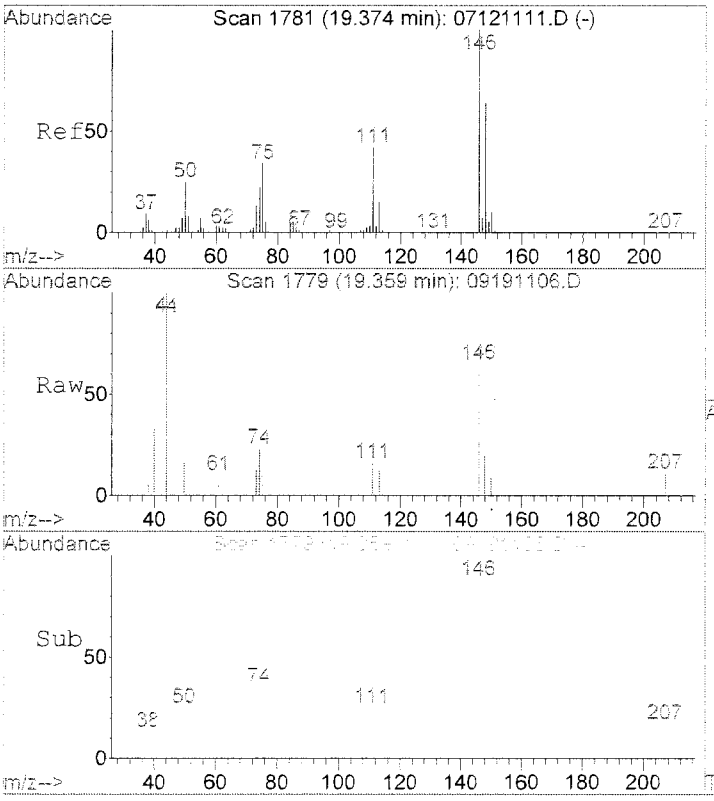


#75
1,2,4-Trimethylbenzene
Concen: 0.11 ug/L
RT: 19.11 min Scan# 1749
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:105 Resp: 1777

Ion	Ratio	Lower	Upper
105	100		
120	44.7	36.6	54.8

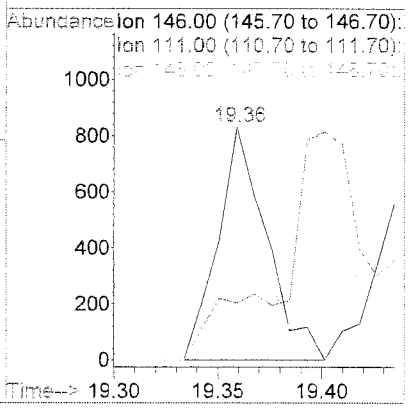


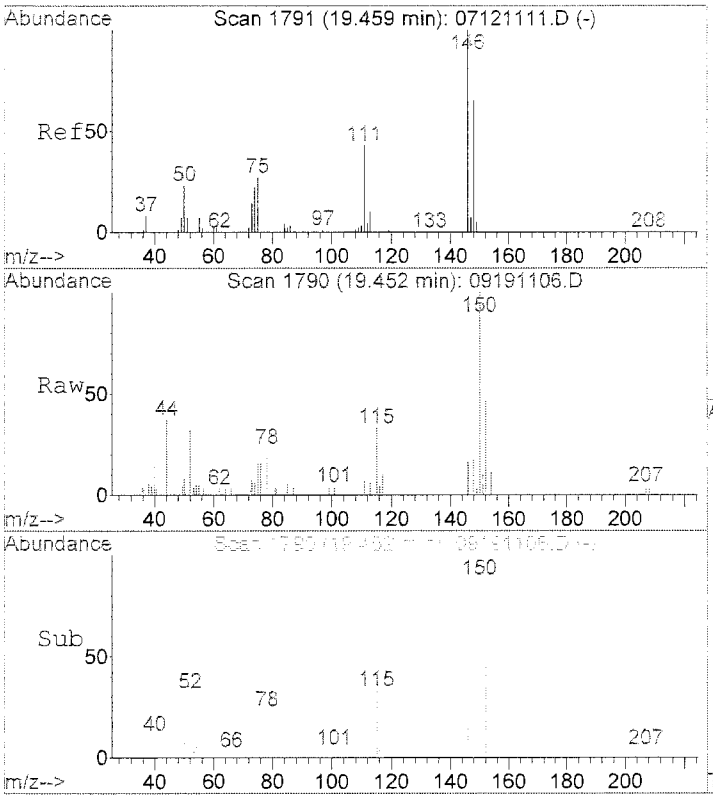


#77
1,3-Dichlorobenzene
Concen: 0.17 ug/L
RT: 19.36 min Scan# 1779
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:146 Resp: 1351

Ion	Ratio	Lower	Upper
146	100		
111	36.3	35.0	52.6
148	46.2	50.2	75.4#

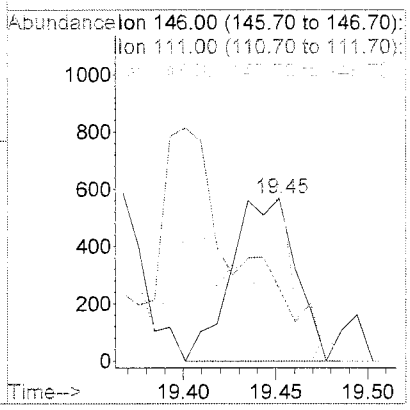


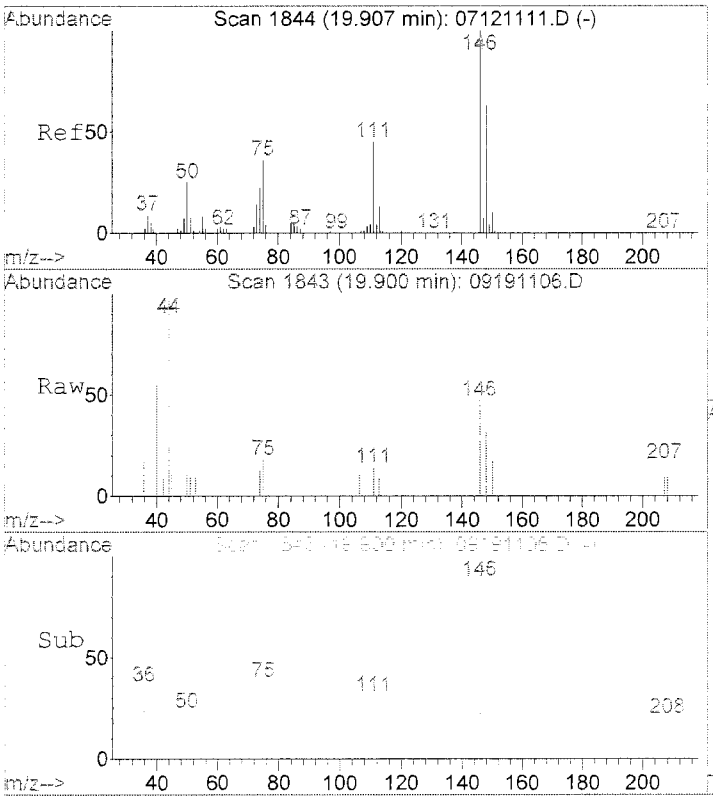


#78
1,4-Dichlorobenzene
Concen: 0.17 ug/L
RT: 19.45 min Scan# 1790
Delta R.T. -0.01 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:146 Resp: 1372

Ion	Ratio	Lower	Upper
146	100		
111	48.5	33.4	50.0
148	30.8	50.9	76.3#

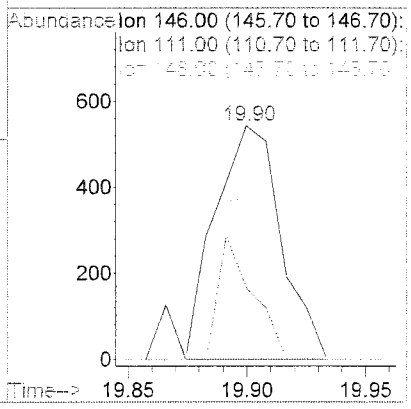


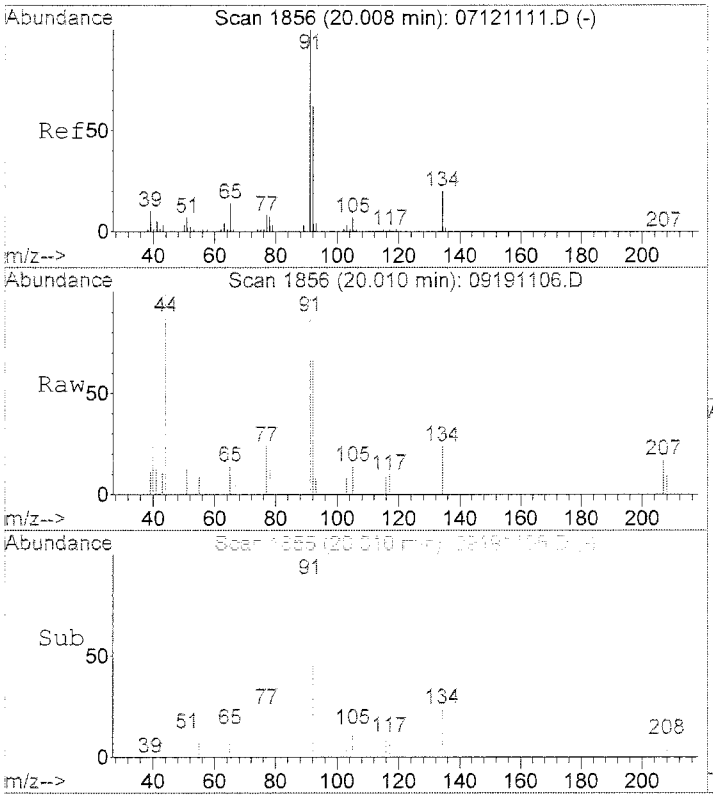


#80
1,2-Dichlorobenzene
Concen: 0.15 ug/L
RT: 19.90 min Scan# 1843
Delta R.T. -0.01 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:146 Resp: 1043

Ion	Ratio	Lower	Upper
146	100		
111	27.8	36.7	55.1#
148	53.3	50.8	76.2

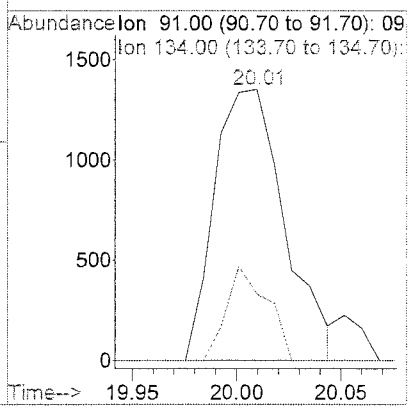


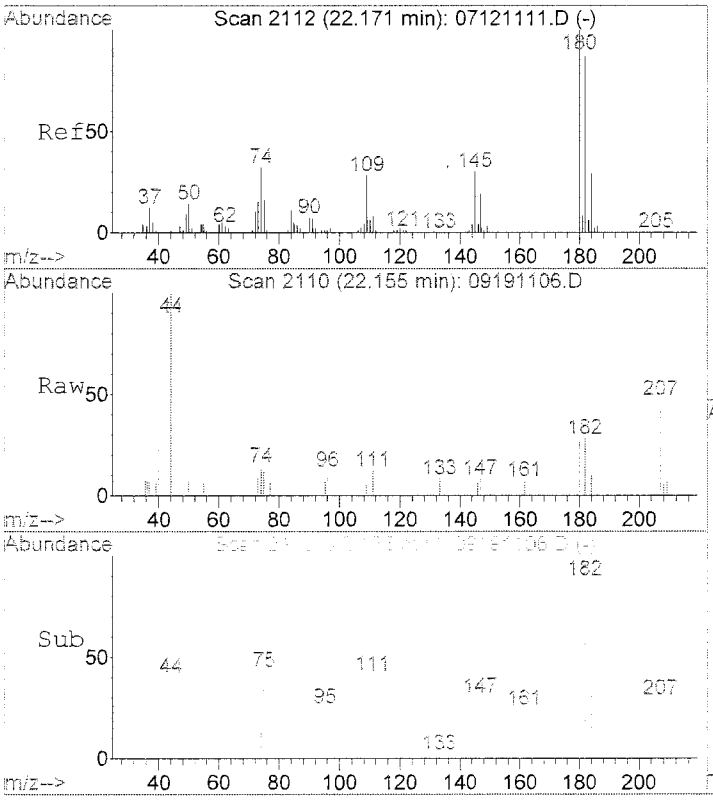


#81
n-Butylbenzene
Concen: 0.17 ug/L
RT: 20.01 min Scan# 1856
Delta R.T. 0.00 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion: 91 Resp: 3144

Ion	Ratio	Lower	Upper
91	100		
134	20.2	16.4	24.6

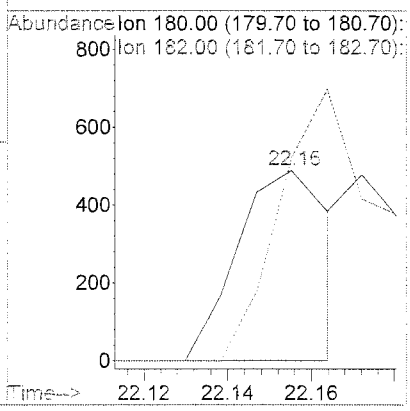


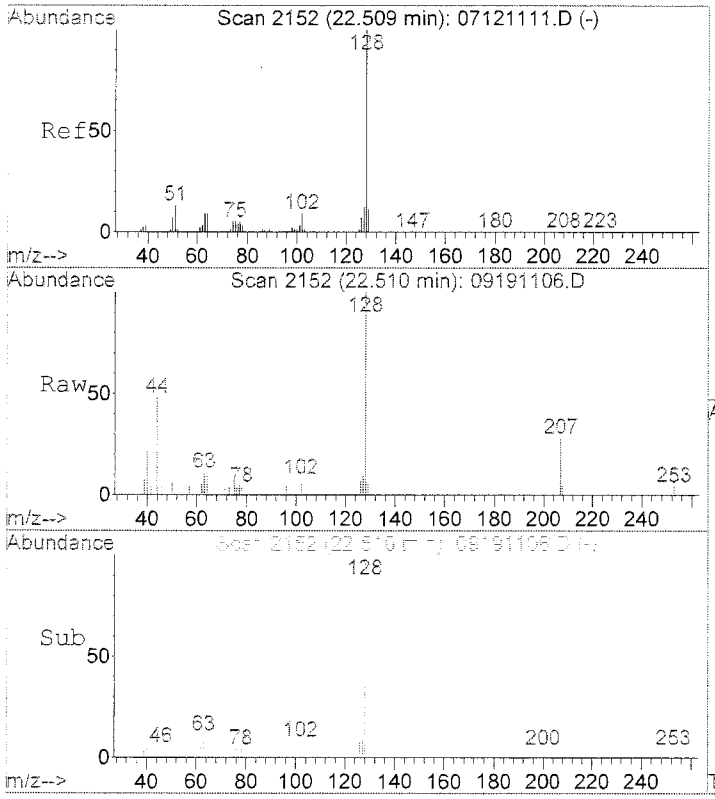


#83
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 22.16 min Scan# 2110
Delta R.T. -0.02 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:180 Resp: 748

Ion	Ratio	Lower	Upper
180	100		
182	170.1	73.8	110.6#

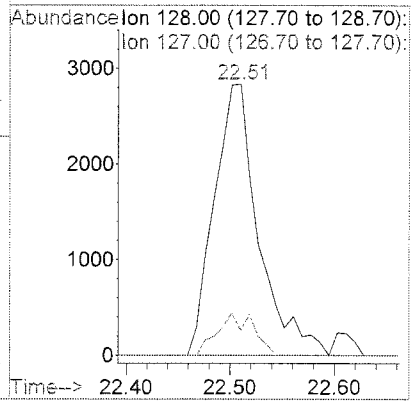


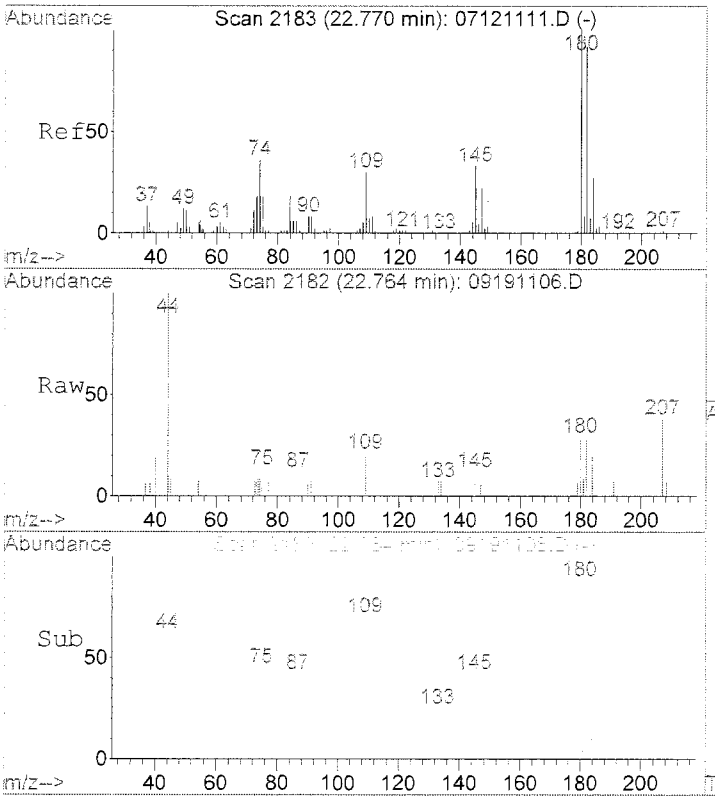


#84
Naphthalene
Concen: 1.20 ug/L
RT: 22.51 min Scan# 2152
Delta R.T. 0.00 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:128 Resp: 8371

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	32.0

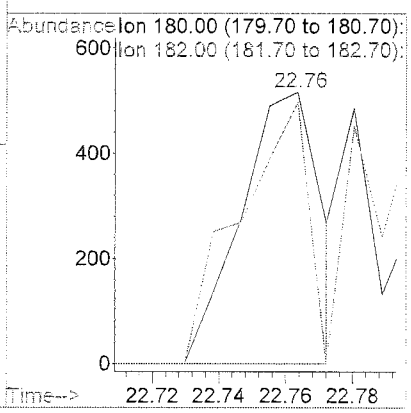




#86
1,2,3-Trichlorobenzene
Concen: 0.23 ug/L
RT: 22.76 min Scan# 2182
Delta R.T. -0.01 min
Lab File: 09191106.D
Acq: 19 Sep 2011 12:34 pm

Tgt Ion:180 Resp: 853

Ion	Ratio	Lower	Upper
180	100		
182	83.5	75.8	113.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191108.D Vial: 8
Acq On : 19 Sep 2011 1:37 pm Operator: MS
Sample : PUI0739-01 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 15:15 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.30	65	29221	200.00 ug/L	0.00
4) Pentafluorobenzene	10.46	168	188066	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	11.59	114	322027	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.94	117	277195	25.00 ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.41	152	116202	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.95	113	108659	23.08 ug/L	-0.02
Spiked Amount 25.000			Recovery =	92.32%	
48) Toluene-d8	13.98	98	395915	25.53 ug/L	-0.02
Spiked Amount 25.000			Recovery =	102.12%	
62) 4-Bromofluorobenzene	17.62	95	129943	23.25 ug/L	-0.02
Spiked Amount 25.000			Recovery =	93.00%	

Target Compounds					Qvalue	
2) Ethanol	5.90	45	395	12.86 ug/L #	75	NT
3) tert-Butanol (TBA)	7.39	59	2642	12.46 ug/L #	81	↓
11) Trichlorofluoromethane	6.67	101	1081	0.16 ug/L	98	<RL
12) Acetone	6.81	43	2676	Below Cal #	83	↓
14) 1,1-Dichloroethene	7.39	96	46827	9.41 ug/L	89	
15) Methylene chloride	7.58	84	682	Below Cal #	63	<RL
16) Freon 113	7.64	101	837	0.16 ug/L #	70	
17) Carbon disulfide	7.89	76	10075	Below Cal	87	
18) trans-1,2-Dichloroethene	8.46	96	877	0.15 ug/L #	59	↓
20) 1,1-Dichloroethane	8.79	63	60514	5.41 ug/L	99	
23) 2-Butanone (MEK)	9.53	72	146	0.48 ug/L #	100	<RL
25) cis-1,2-Dichloroethene	9.53	96	40236	6.93 ug/L	90	
27) Chloroform	9.80	83	10949	1.18 ug/L	90	
32) 1,2-Dichloroethane	10.66	62	961	0.17 ug/L #	76	<RL
34) (TAME) tert-Amyl methyl et	11.58	73	3809	0.35 ug/L #	62	↓
41) Trichloroethene	12.13	95	169270	35.28 ug/L	96	
45) 4-Methyl-2-pentanone (MIBK	13.19	43	755	0.24 ug/L #	49	<RL
47) 1,1,2-Trichloroethane	13.99	83	490	0.19 ug/L #	1	
49) Toluene	14.08	92	4165	0.37 ug/L	89	↓
55) Tetrachloroethene	15.07	166	7749	1.94 ug/L	90	
84) Naphthalene	22.52	128	1597	0.25 ug/L #	69	<RL

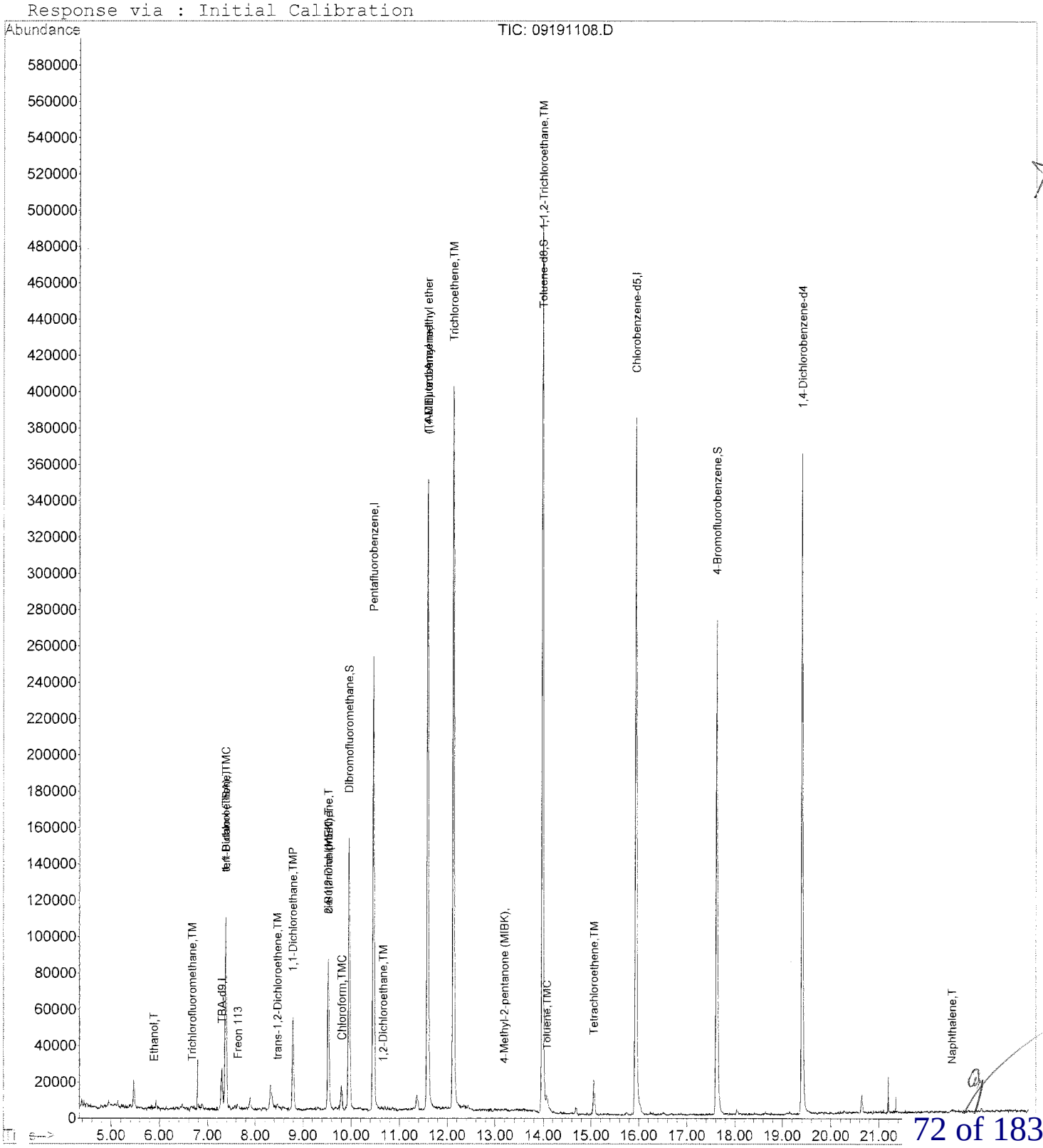
mf 9/20/11

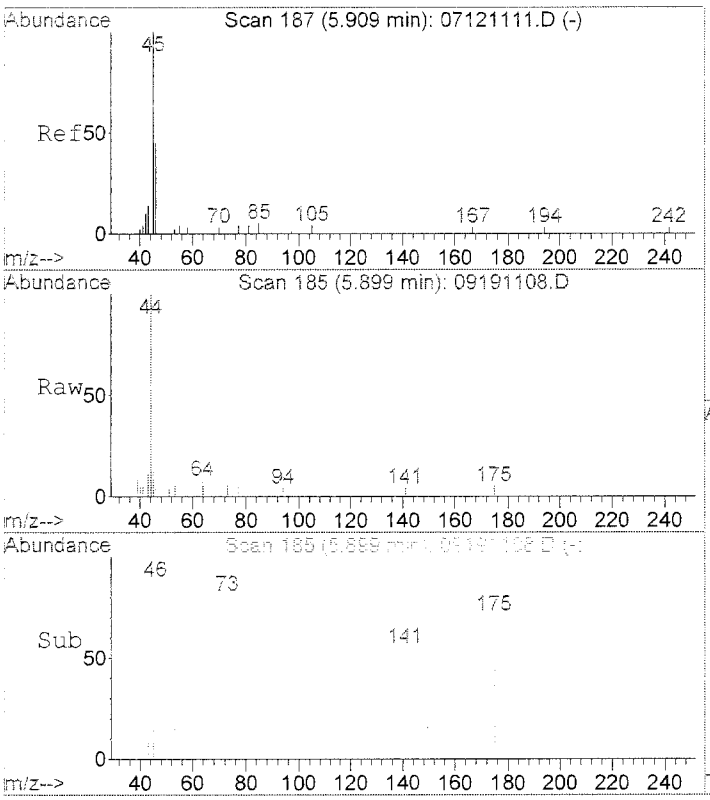
(#) = qualifier out of range (m) = manual integration
09191108.D 071211.M Tue Sep 20 12:05:48 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191108.D Vial: 8
Acq On : 19 Sep 2011 1:37 pm Operator: MS
Sample : PUI0739-01 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 15:15 2011 Quant Results File: 071211.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

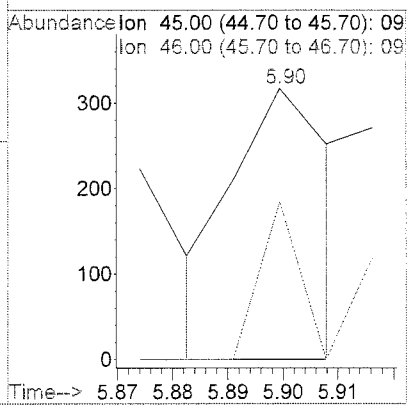


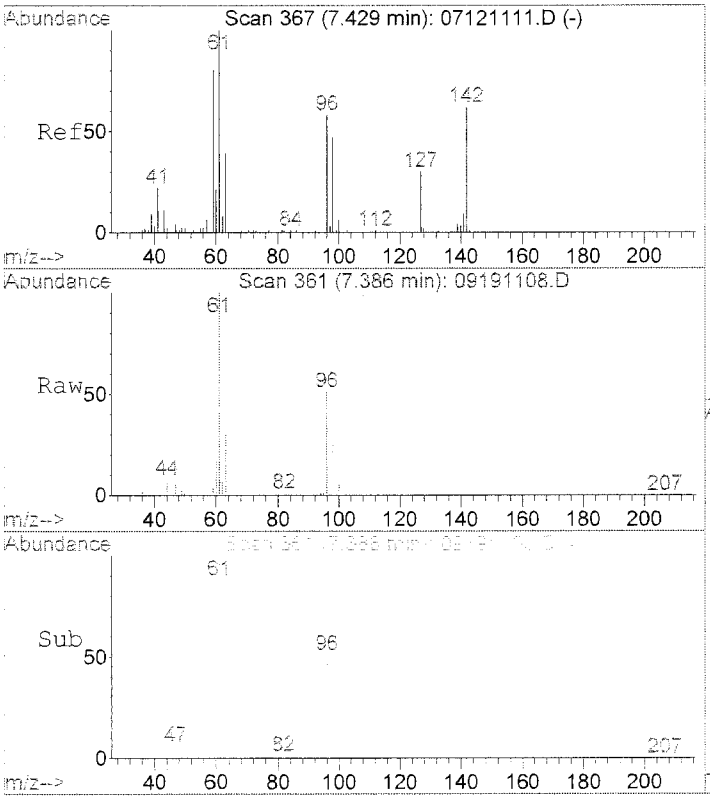


#2
Ethanol
Concen: 12.86 ug/L
RT: 5.90 min Scan# 185
Delta R.T. -0.01 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 45 Resp: 395

Ion	Ratio	Lower	Upper
45	100		
46	23.8	31.3	46.9#

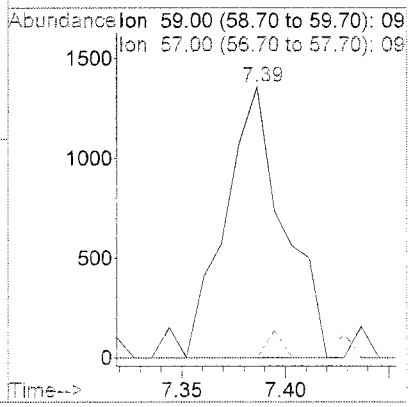


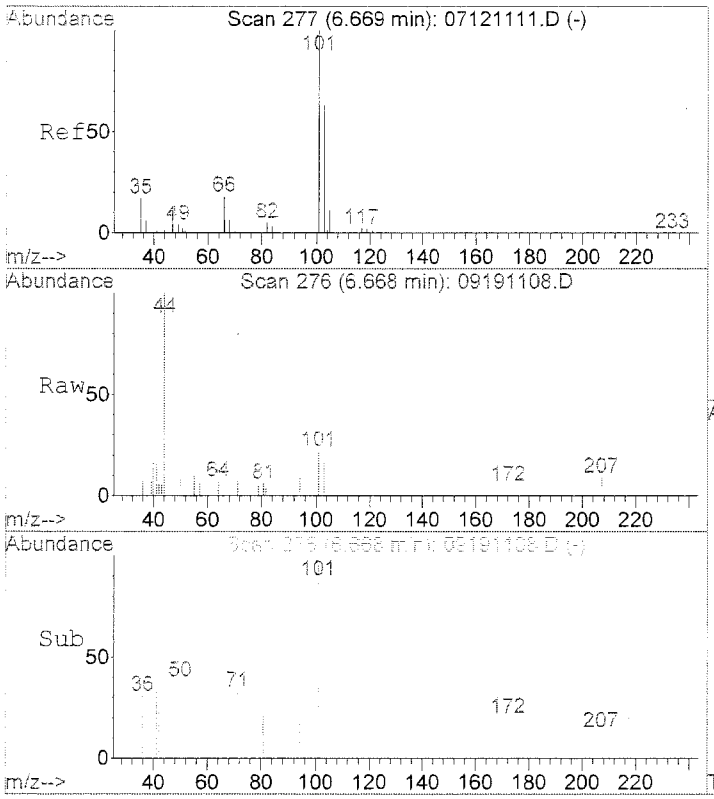


#3
tert-Butanol (TBA)
Concen: 12.46 ug/L
RT: 7.39 min Scan# 361
Delta R.T. -0.04 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 59 Resp: 2642

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.0	7.6#

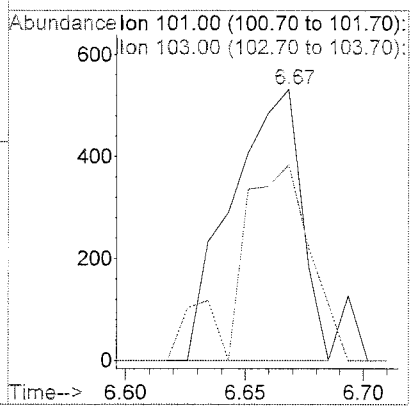


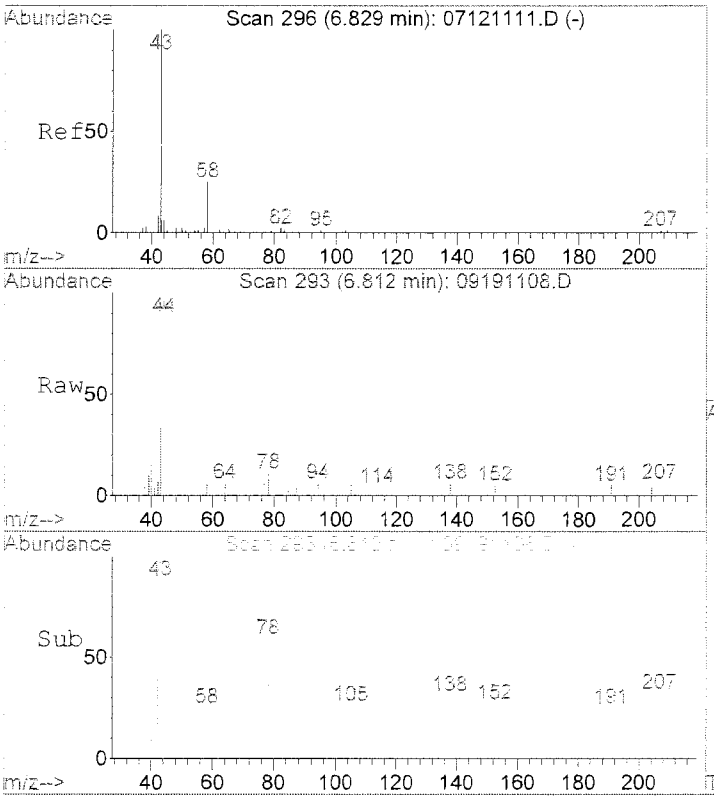


#11
Trichlorofluoromethane
Concen: 0.16 ug/L
RT: 6.67 min Scan# 276
Delta R.T. -0.00 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion:101 Resp: 1081

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.0	76.4

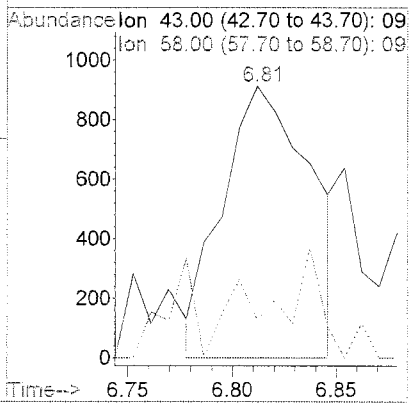


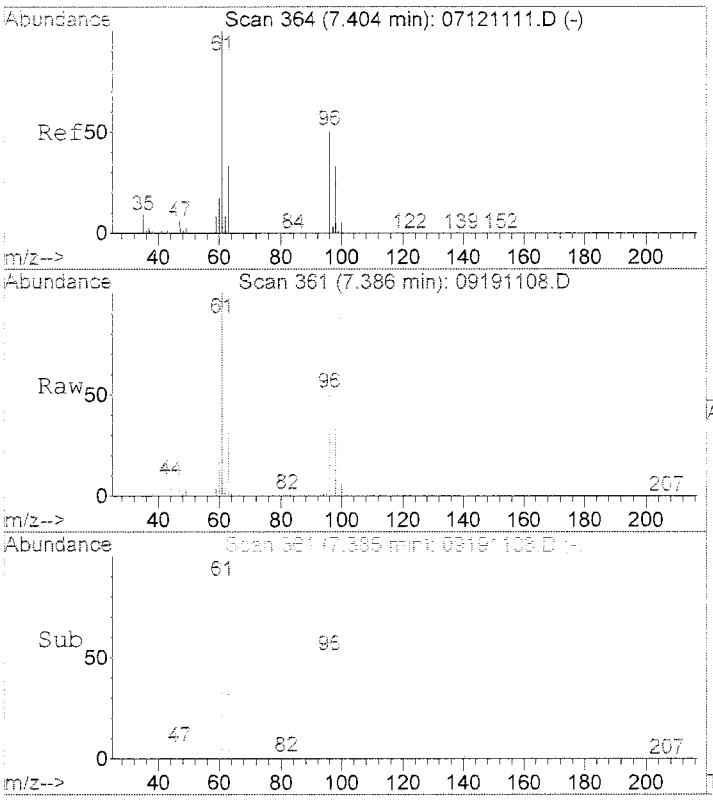


#12
Acetone
Concen: Below Cal
RT: 6.81 min Scan# 293
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 43 Resp: 2676

Ion	Ratio	Lower	Upper
43	100		
58	16.0	19.8	29.6#

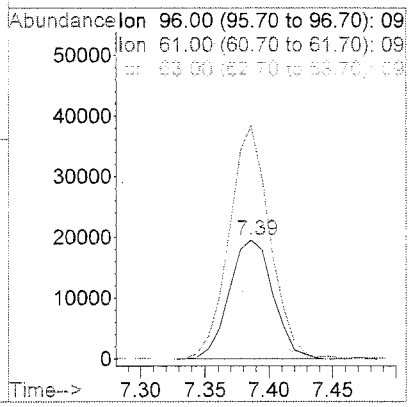


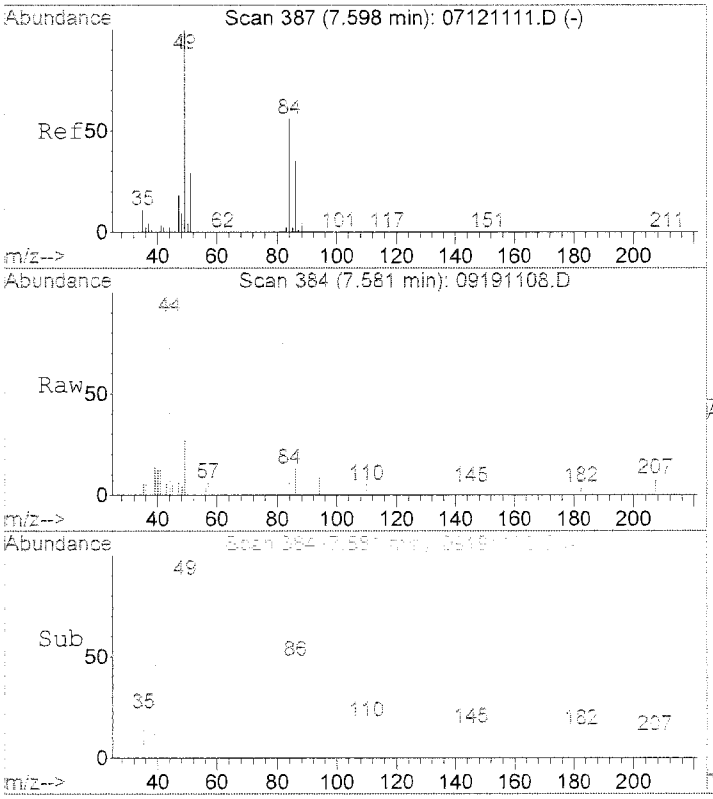


#14
1,1-Dichloroethene
Concen: 9.41 ug/L
RT: 7.39 min Scan# 361
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 96 Resp: 46827

Ion	Ratio	Lower	Upper
96	100		
61	182.0	160.9	241.3
63	58.3	51.5	77.3

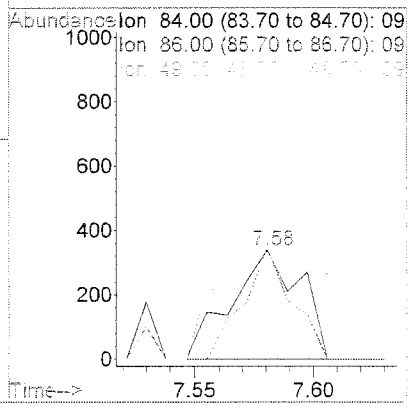


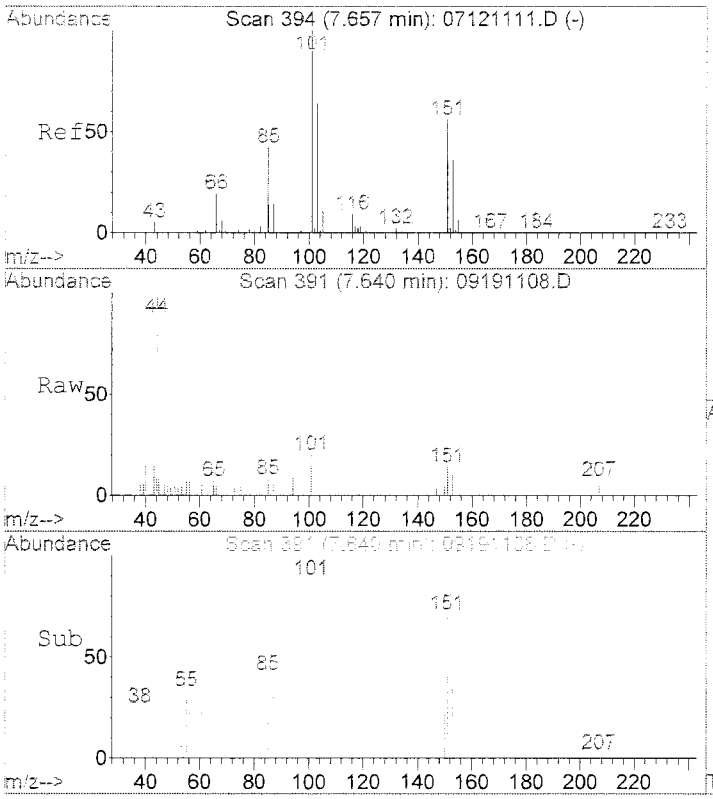


#15
Methylene chloride
Concen: Below Cal
RT: 7.58 min Scan# 384
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 84 Resp: 682

Ion	Ratio	Lower	Upper
84	100		
86	72.1	48.6	72.8
49	239.4	141.1	211.7#

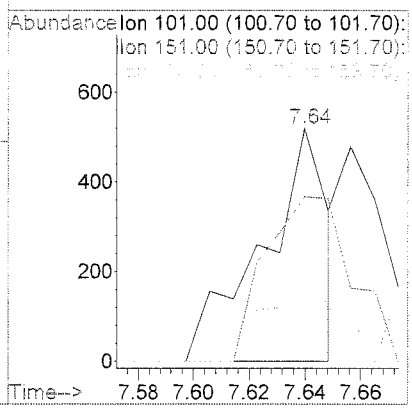


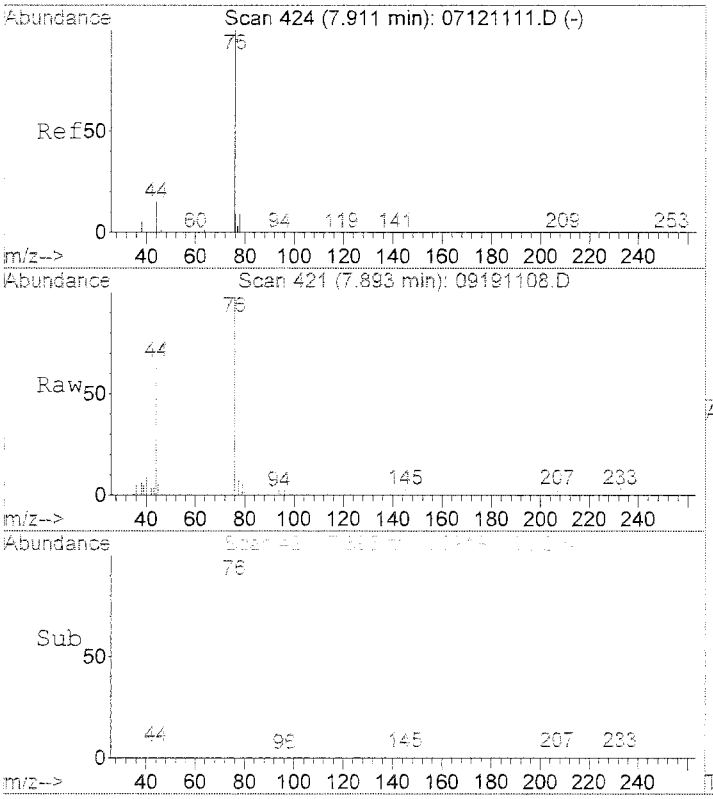


#16
Freon 113
Concen: 0.16 ug/L
RT: 7.64 min Scan# 391
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion:101 Resp: 837

Ion	Ratio	Lower	Upper
101	100		
151	94.4	47.0	70.6#
153	42.3	31.5	47.3

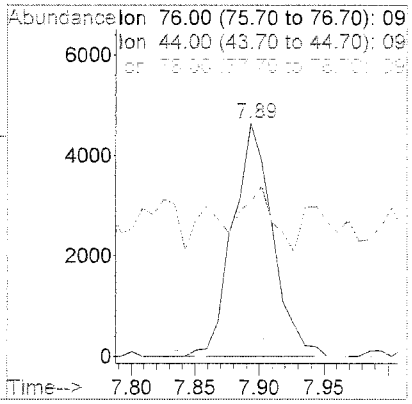


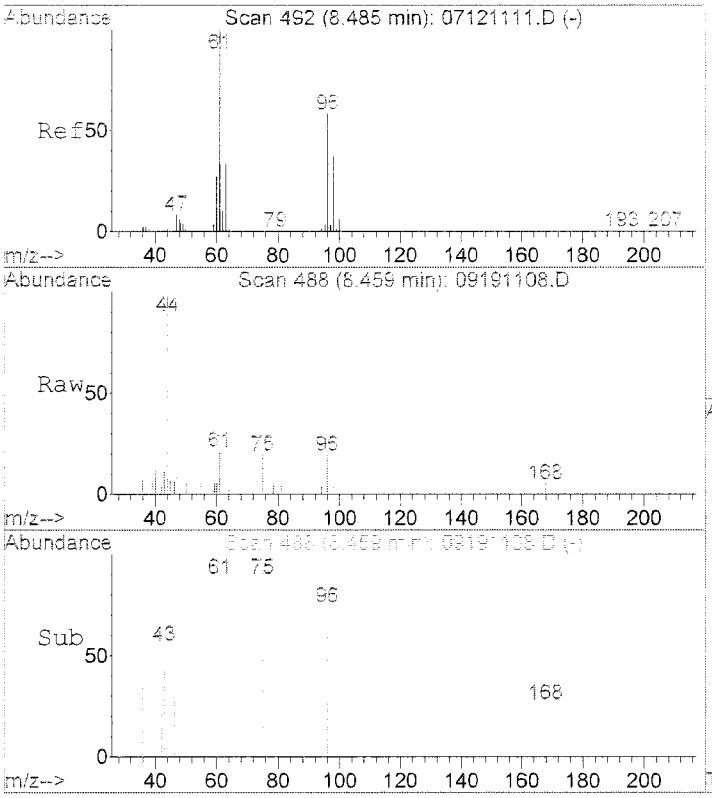


#17
Carbon disulfide
Concen: Below Cal
RT: 7.89 min Scan# 421
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 76 Resp: 10075

Ion	Ratio	Lower	Upper
76	100		
44	20.6	0.0	35.9
78	3.5	0.0	29.3

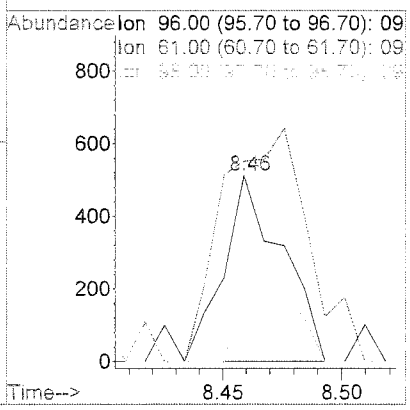


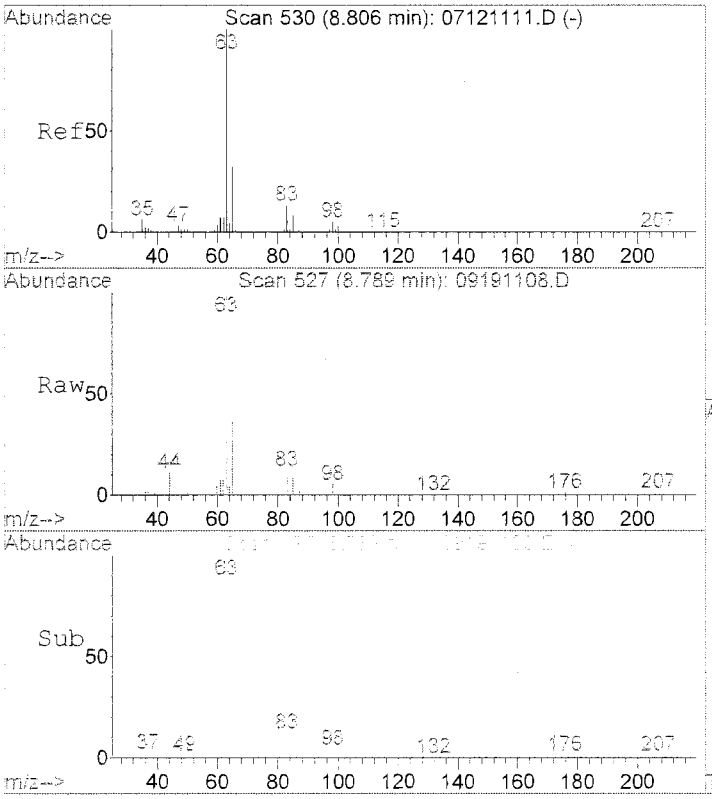


#18
trans-1,2-Dichloroethene
Concen: 0.15 ug/L
RT: 8.46 min Scan# 488
Delta R.T. -0.03 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 96 Resp: 877

Ion	Ratio	Lower	Upper
96	100		
61	107.6	137.4	206.0#
98	43.3	51.4	77.0#

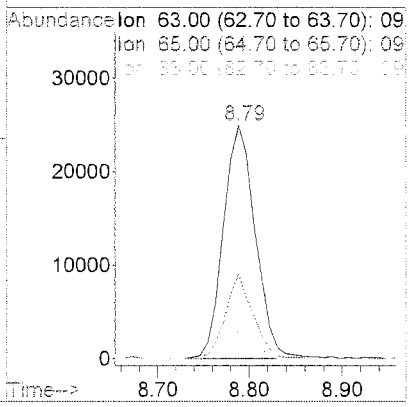


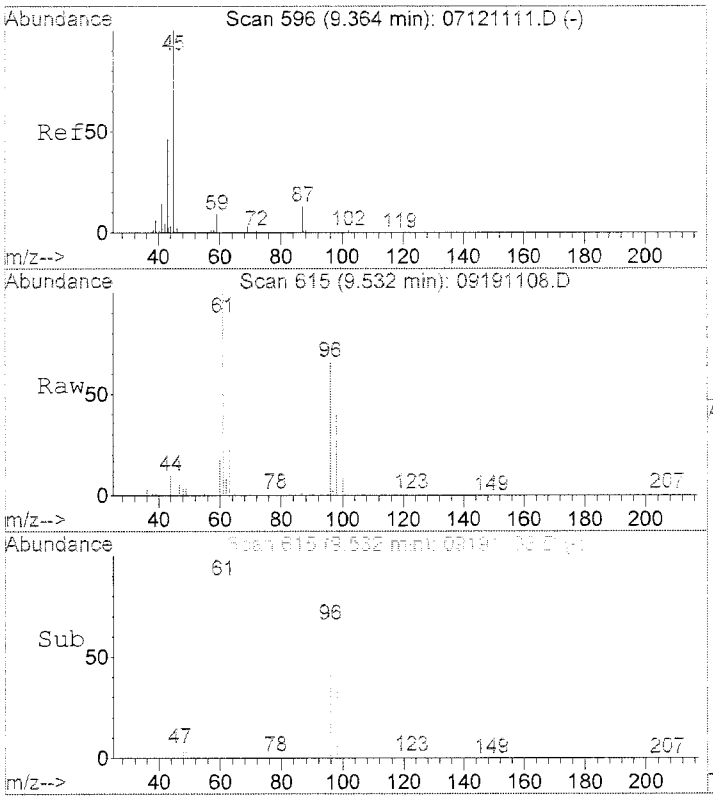


#20
1,1-Dichloroethane
Concen: 5.41 ug/L
RT: 8.79 min Scan# 527
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 63 Resp: 60514

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.4	38.0
83	11.1	9.6	14.4

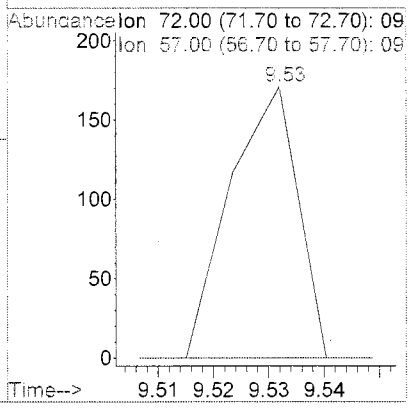




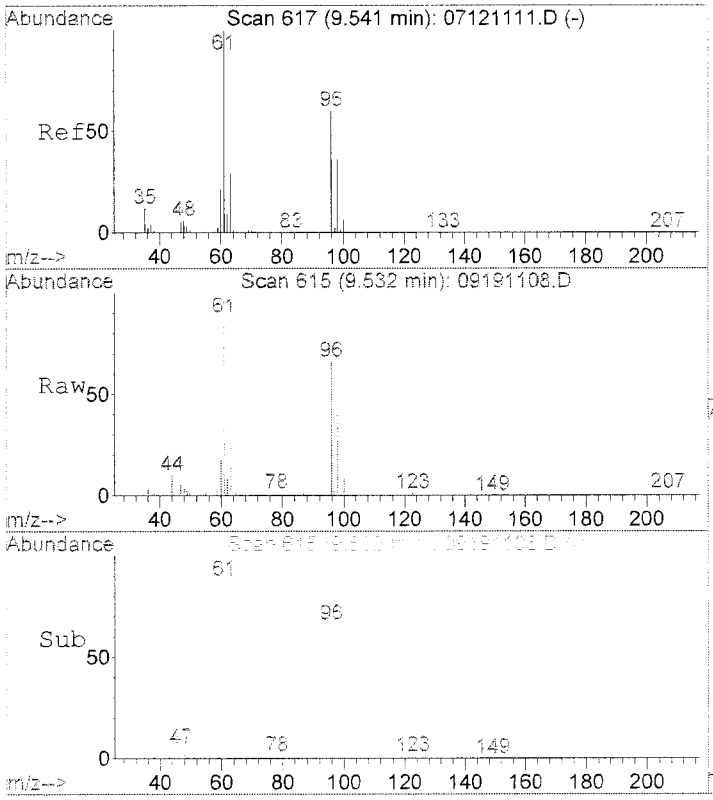
#23
2-Butanone (MEK)
Concen: 0.48 ug/L
RT: 9.53 min Scan# 615
Delta R.T. 0.17 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 72 Resp: 146

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0



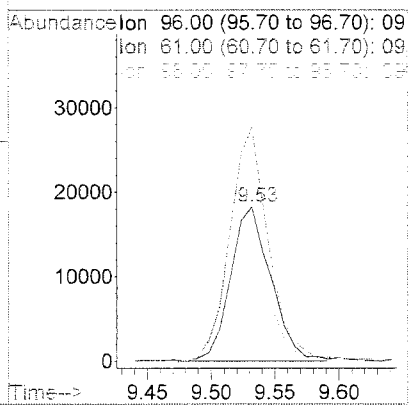
7

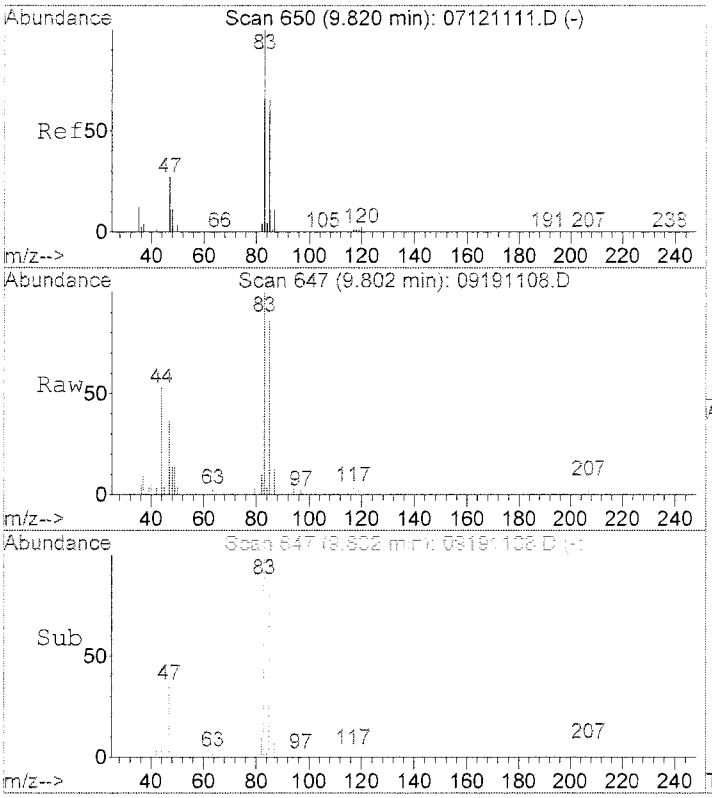


#25
cis-1,2-Dichloroethene
Concen: 6.93 ug/L
RT: 9.53 min Scan# 615
Delta R.T. -0.01 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 96 Resp: 40236

Ion	Ratio	Lower	Upper
96	100		
61	145.3	131.3	196.9
98	63.9	50.8	76.2

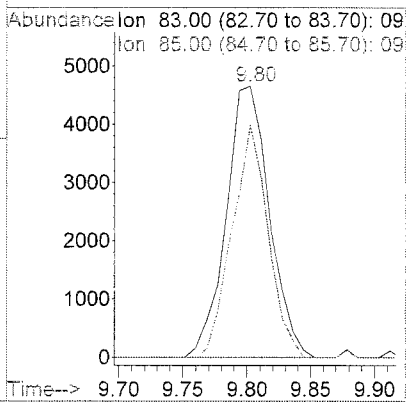


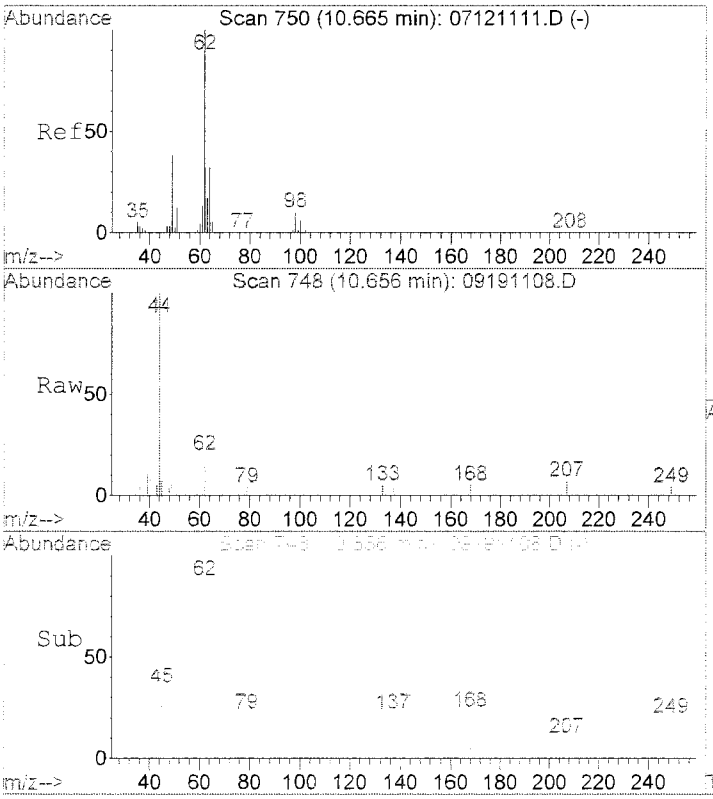


#27
Chloroform
Concen: 1.18 ug/L
RT: 9.80 min Scan# 647
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 83 Resp: 10949

Ion	Ratio	Lower	Upper
83	100		
85	71.2	50.9	76.3

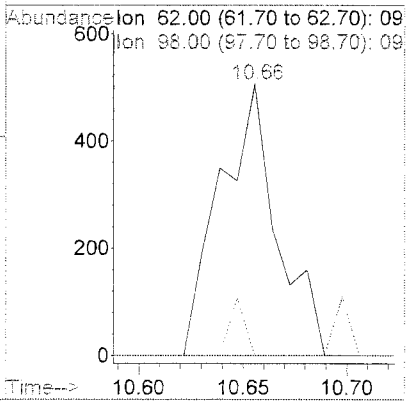


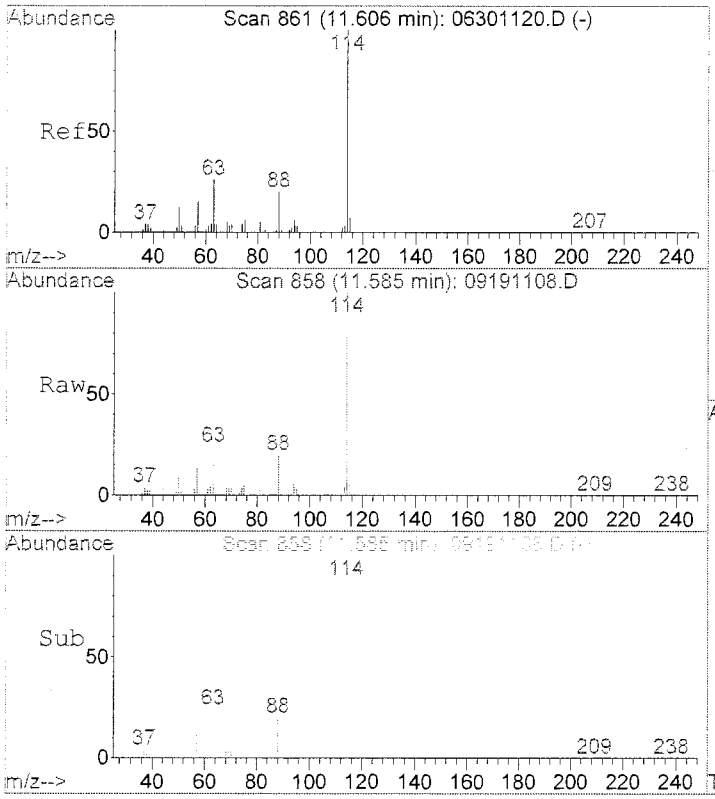


#32
1,2-Dichloroethane
Concen: 0.17 ug/L
RT: 10.66 min Scan# 748
Delta R.T. -0.01 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 62 Resp: 961

Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.9	10.3#

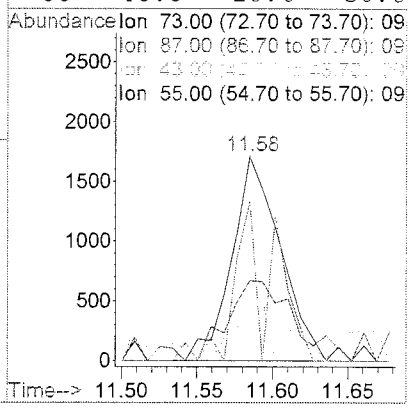


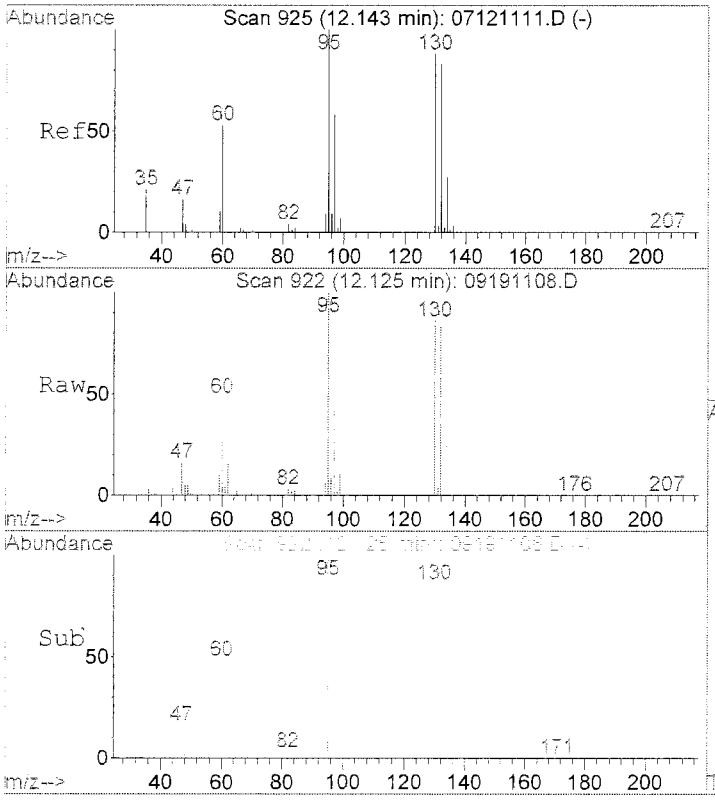


#34
(TAME) tert-Amyl methyl ether
Concen: 0.35 ug/L
RT: 11.58 min Scan# 858
Delta R.T. 0.08 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 73 Resp: 3809

Ion	Ratio	Lower	Upper
73	100		
87	29.3	15.6	23.4#
43	18.6	36.9	55.3#
55	48.8	20.6	30.8#

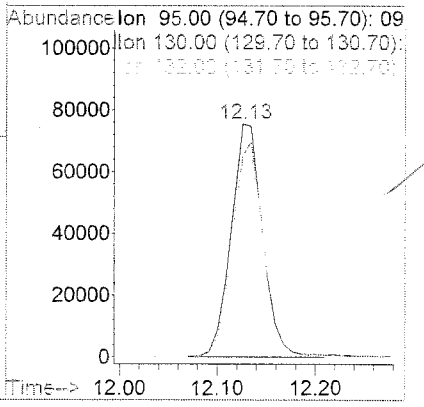


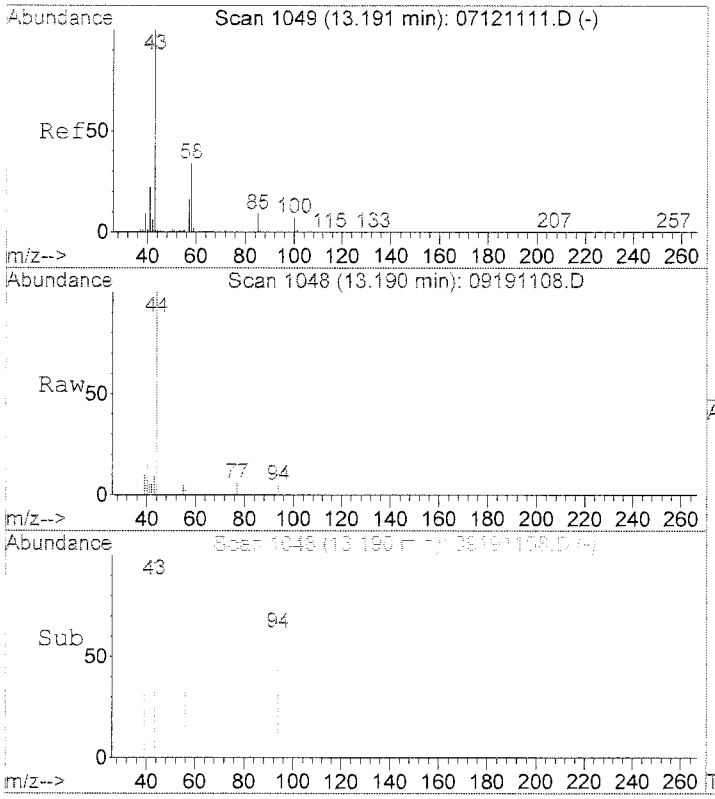


#41
Trichloroethene
Concen: 35.28 ug/L
RT: 12.13 min Scan# 922
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 95 Resp: 169270

Ion	Ratio	Lower	Upper
95	100		
130	92.9	71.8	107.8
132	89.0	67.7	101.5

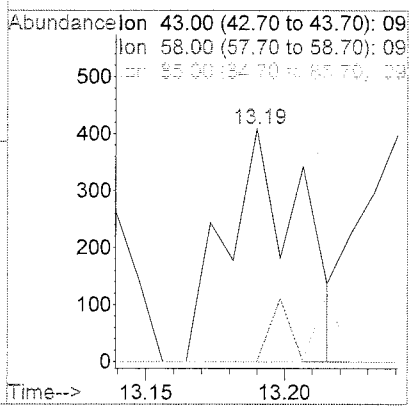


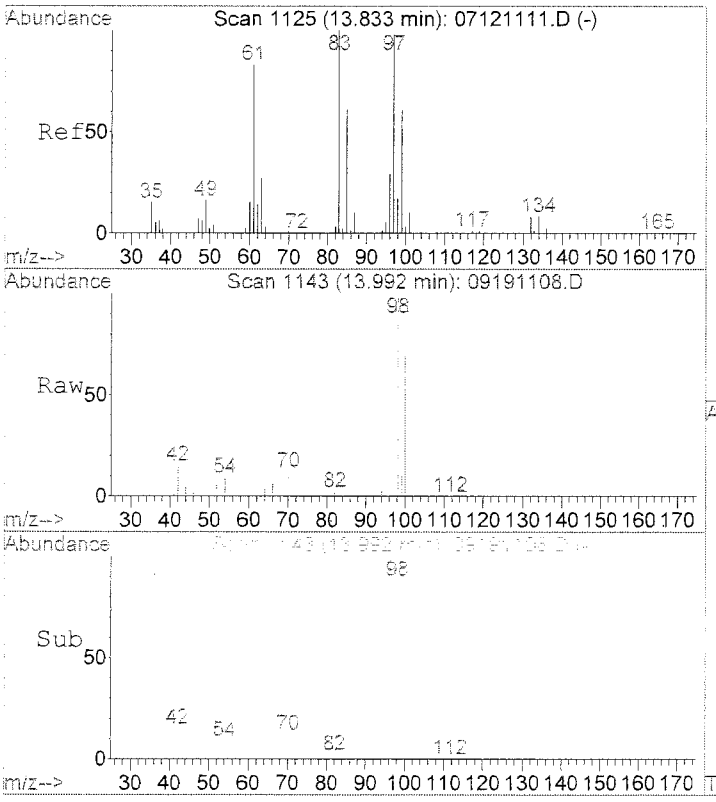


#45
4-Methyl-2-pentanone (MIBK)
Concen: 0.24 ug/L
RT: 13.19 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 43 Resp: 755

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.7	40.1#
85	0.0	7.8	11.8#

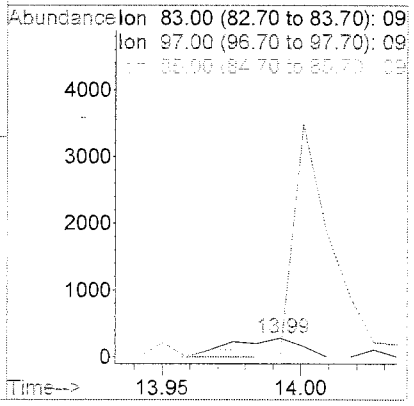


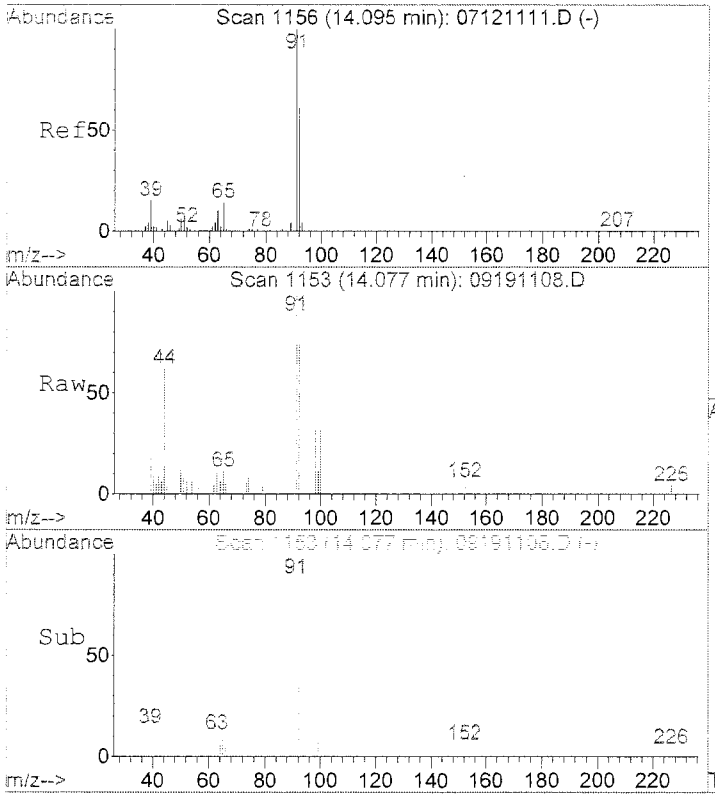


#47
1,1,2-Trichloroethane
Concen: 0.19 ug/L
RT: 13.99 min Scan# 1143
Delta R.T. 0.16 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 83 Resp: 490

Ion	Ratio	Lower	Upper
83	100		
97	687.1	81.0	121.6#
85	0.0	49.6	74.4#

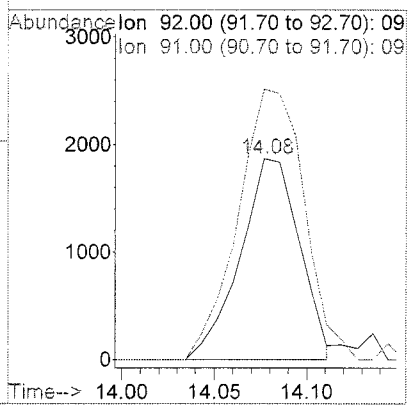


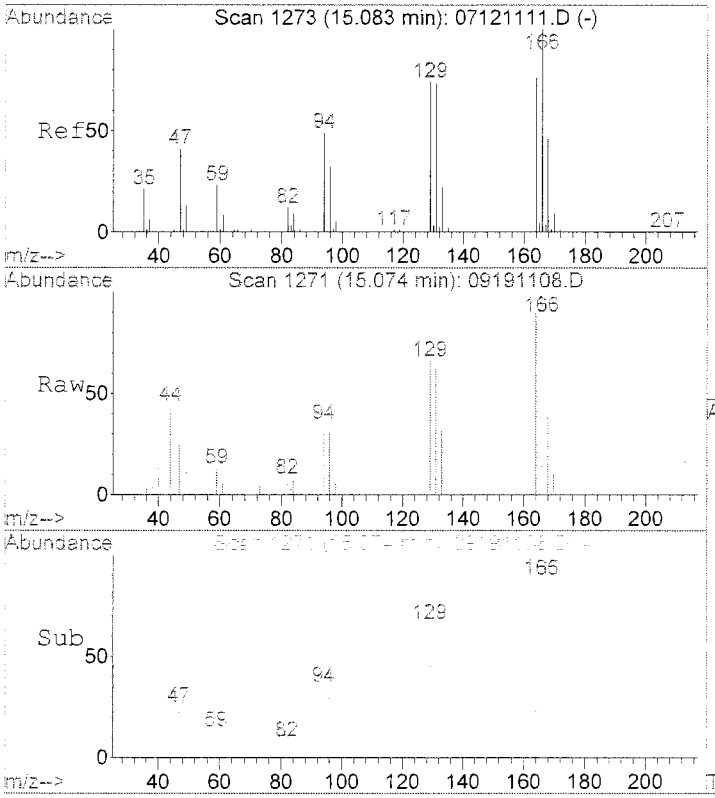


#49
Toluene
Concen: 0.37 ug/L
RT: 14.08 min Scan# 1153
Delta R.T. -0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion: 92 Resp: 4165

Ion	Ratio	Lower	Upper
92	100		
91	150.6	132.3	198.5

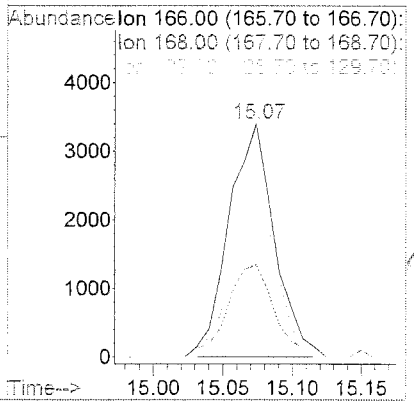


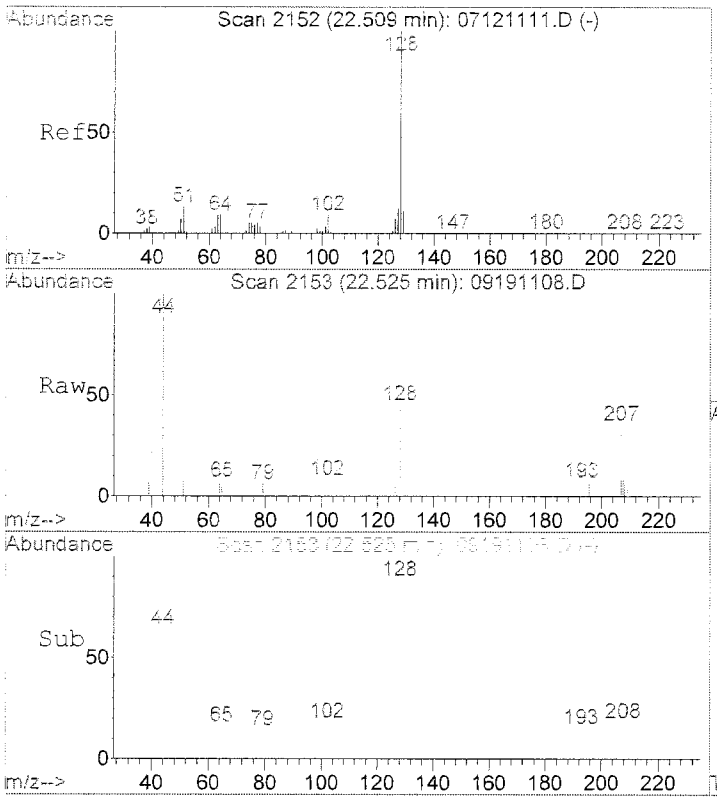


#55
Tetrachloroethene
Concen: 1.94 ug/L
RT: 15.07 min Scan# 1271
Delta R.T. -0.01 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion:166 Resp: 7749

Ion	Ratio	Lower	Upper
166	100		
168	40.2	38.2	57.2
129	71.0	62.8	94.2

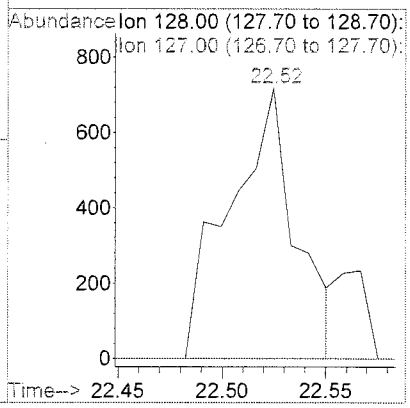




#84
Naphthalene
Concen: 0.25 ug/L
RT: 22.52 min Scan# 2153
Delta R.T. 0.02 min
Lab File: 09191108.D
Acq: 19 Sep 2011 1:37 pm

Tgt Ion:128 Resp: 1597

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	32.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191109.D Vial: 9
Acq On : 19 Sep 2011 2:07 pm Operator: MS
Sample : 11I0653-MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 15:55 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.30	65	28954	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	202425	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.59	114	355011	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.93	117	308043	25.00 ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.41	152	132553	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.95	113	118047	23.30 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 93.20%	
48) Toluene-d8	13.98	98	432870	25.32 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.28%	
62) 4-Bromofluorobenzene	17.62	95	149531	24.07 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 96.28%	

Target Compounds					Qvalue
2) Ethanol	5.91	45	8396	275.79 ug/L	90
3) tert-Butanol (TBA)	7.41	59	27939	132.96 ug/L #	95
5) Dichlorodifluoromethane	4.50	85	168620	19.04 ug/L	100
6) Chloromethane	4.80	50	236675	18.04 ug/L	99
7) Vinyl chloride	5.09	62	216089	21.43 ug/L	98
8) 1,3-Butadiene	5.25	54	181148	23.98 ug/L	95
9) Bromomethane	5.67	94	112598	24.10 ug/L	100
10) Chloroethane	5.87	64	117162	20.62 ug/L	100
11) Trichlorofluoromethane	6.66	101	164353	22.35 ug/L	99
12) Acetone	6.81	43	17935	13.31 ug/L #	86
13) Iodomethane	7.44	142	183646	31.97 ug/L	97
14) 1,1-Dichloroethene	7.39	96	172938	32.27 ug/L	89
15) Methylene chloride	7.58	84	140488	23.06 ug/L	90
16) Freon 113	7.65	101	136443	24.57 ug/L	98
17) Carbon disulfide	7.89	76	506191	23.10 ug/L	98
18) trans-1,2-Dichloroethene	8.47	96	138748	22.31 ug/L	91
19) MTBE	8.61	73	173031	16.78 ug/L	96
20) 1,1-Dichloroethane	8.79	63	321130	26.65 ug/L	100
21) Vinyl acetate	8.96	43	182491	16.84 ug/L	98
22) n-Hexane	9.31	86	32164	20.25 ug/L	95
23) 2-Butanone (MEK)	9.35	72	5388	16.88 ug/L #	100
24) Diisopropylether (DIPE)	9.35	45	454267	17.77 ug/L	96
25) cis-1,2-Dichloroethene	9.53	96	171278	27.41 ug/L	91
26) Bromochloromethane	9.74	128	48176	21.14 ug/L	97
27) Chloroform	9.80	83	226602	22.77 ug/L	99
28) 2,2-Dichloropropane	9.90	77	182314	20.77 ug/L	98
29) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	264331	16.23 ug/L	98
31) Tetrahydrofuran	10.22	72	4792	14.41 ug/L	94
32) 1,2-Dichloroethane	10.65	62	119380	19.24 ug/L	96
33) 1,1,1-Trichloroethane	10.77	97	172002	22.71 ug/L	97
34) (TAME) tert-Amyl methyl et	11.49	73	201779	17.31 ug/L	94
36) 1,1-Dichloropropene	11.01	75	176353	21.83 ug/L	98
37) Carbon tetrachloride	11.25	117	138358	24.35 ug/L	98
38) Benzene	11.31	78	491551	23.79 ug/L	99
39) Dibromomethane	12.03	93	49459	20.33 ug/L	92
40) 1,2-Dichloropropane	12.07	63	129807	21.40 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191109.D Vial: 9
Acq On : 19 Sep 2011 2:07 pm Operator: MS
Sample : 11I0653-MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 15:55 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

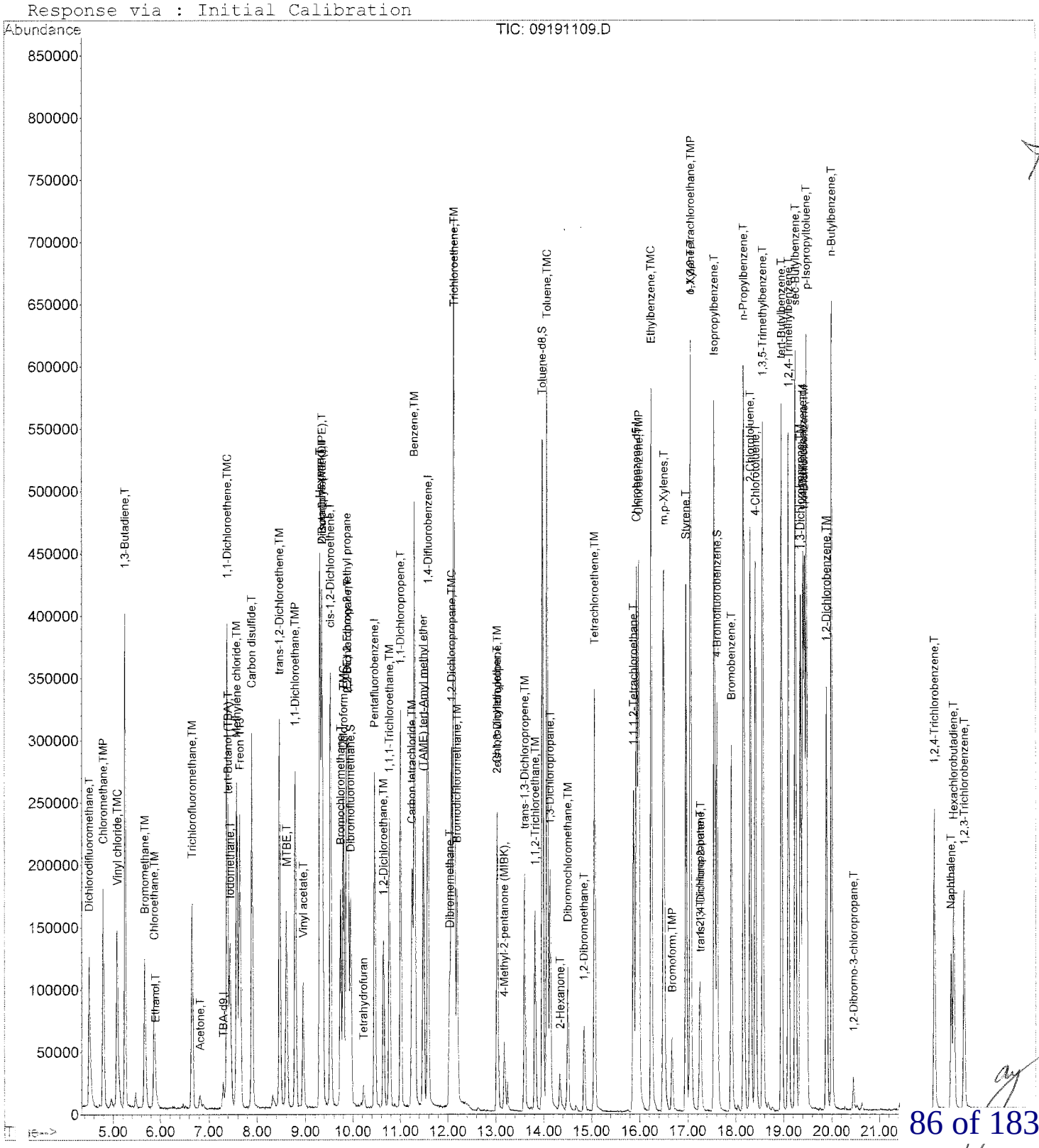
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.13	95	301123	56.92 ug/L	96
42)	Bromodichloromethane	12.19	83	131341	19.63 ug/L	98
43)	2-Chlorovinylethylether	13.02	63	622	0.27 ug/L #	56
44)	cis-1,3-Dichloropropene	13.04	75	163911	20.07 ug/L	96
45)	4-Methyl-2-pentanone (MIBK	13.18	43	55043	15.78 ug/L	99
46)	trans-1,3-Dichloropropene	13.60	75	118273	19.21 ug/L	99
47)	1,1,2-Trichloroethane	13.82	83	59794	20.65 ug/L	95
49)	Toluene	14.08	92	307178	24.81 ug/L	98
51)	1,3-Dichloropropane	14.14	76	129519	21.44 ug/L	99
52)	2-Hexanone	14.34	43	33654	14.83 ug/L	98
53)	Dibromochloromethane	14.51	129	72992	20.56 ug/L	97
54)	1,2-Dibromoethane	14.85	107	63556	21.24 ug/L	100
55)	Tetrachloroethene	15.07	166	125025	28.19 ug/L	94
56)	1,1,1,2-Tetrachloroethane	15.88	131	86242	23.36 ug/L	97
57)	Chlorobenzene	15.99	112	294259	24.80 ug/L	93
58)	Ethylbenzene	16.25	91	542936	24.12 ug/L	97
59)	m,p-Xylenes	16.51	106	190646	23.11 ug/L	98
60)	Styrene	16.96	104	252461	19.92 ug/L	93
61)	o-Xylene	17.06	106	185521	24.08 ug/L	92
64)	Bromoform	16.68	173	34997	21.89 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.05	83	71021	20.41 ug/L	98
66)	1,2,3-Trichloropropane	17.25	110	15573	18.90 ug/L	90
67)	trans-1,4-Dichloro-2-buten	17.28	53	18541	16.50 ug/L	97
68)	Isopropylbenzene	17.56	105	476529	25.41 ug/L	99
69)	Bromobenzene	17.91	156	97311	23.92 ug/L	90
70)	n-Propylbenzene	18.17	91	642758	24.27 ug/L	99
71)	2-Chlorotoluene	18.31	91	356051	22.97 ug/L	96
72)	4-Chlorotoluene	18.42	91	358479	22.84 ug/L	100
73)	1,3,5-Trimethylbenzene	18.57	105	385180	23.65 ug/L	99
74)	tert-Butylbenzene	18.96	119	318030	23.54 ug/L	96
75)	1,2,4-Trimethylbenzene	19.11	105	379839	23.16 ug/L	100
76)	sec-Butylbenzene	19.25	105	544379	23.80 ug/L	99
77)	1,3-Dichlorobenzene	19.36	146	196127	23.77 ug/L	98
78)	1,4-Dichlorobenzene	19.44	146	195008	23.26 ug/L	99
79)	p-Isopropyltoluene	19.48	119	413764	23.35 ug/L	97
80)	1,2-Dichlorobenzene	19.89	146	161092	23.02 ug/L	99
81)	n-Butylbenzene	20.00	91	442782	22.48 ug/L	98
82)	1,2-Dibromo-3-chloropropan	20.46	157	8672	19.65 ug/L	89
83)	1,2,4-Trichlorobenzene	22.15	180	96944	20.85 ug/L	97
84)	Naphthalene	22.49	128	124997	17.28 ug/L	97
85)	Hexachlorobutadiene	22.55	225	49405	17.57 ug/L	92
86)	1,2,3-Trichlorobenzene	22.76	180	75520	19.92 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191109.D Vial: 9
Acq On : 19 Sep 2011 2:07 pm Operator: MS
Sample : 11I0653-MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 15:55 2011 Quant Results File: 071211.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191110.D Vial: 10
Acq On : 19 Sep 2011 2:38 pm Operator: MS
Sample : 11I0653-MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 16:34 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

R, Hexachlorobutadiene 9/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.30	65	28107	200.00 ug/L	0.00
4) Pentafluorobenzene	10.46	168	180812	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	11.60	114	318697	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.94	117	272311	25.00 ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.41	152	124559	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.96	113	106336	23.50 ug/L	-0.02
Spiked Amount 25.000			Recovery = 94.00%		
48) Toluene-d8	13.98	98	395103	25.75 ug/L	-0.02
Spiked Amount 25.000			Recovery = 103.00%		
62) 4-Bromofluorobenzene	17.62	95	136768	24.91 ug/L	-0.02
Spiked Amount 25.000			Recovery = 99.64%		

Target Compounds					Qvalue
2) Ethanol	5.90	45	7899	267.29 ug/L	87
3) tert-Butanol (TBA)	7.41	59	26308	128.98 ug/L #	95
5) Dichlorodifluoromethane	4.51	85	132748	16.78 ug/L	99
6) Chloromethane	4.80	50	218295	18.62 ug/L	99
7) Vinyl chloride	5.08	62	191081	21.22 ug/L	99
8) 1,3-Butadiene	5.25	54	132991	19.71 ug/L	95
9) Bromomethane	5.67	94	103558	24.81 ug/L	100
10) Chloroethane	5.88	64	109583	21.59 ug/L	96
11) Trichlorofluoromethane	6.66	101	138799	21.13 ug/L	98
12) Acetone	6.82	43	20457	19.02 ug/L	98
13) Iodomethane	7.45	142	171610	33.44 ug/L	97
14) 1,1-Dichloroethene	7.39	96	152721	31.91 ug/L	89
15) Methylene chloride	7.58	84	129097	23.75 ug/L	92
16) Freon 113	7.64	101	110571	22.29 ug/L	95
17) Carbon disulfide	7.90	76	488238	25.01 ug/L	98
18) trans-1,2-Dichloroethene	8.47	96	127419	22.94 ug/L	95
19) MTBE	8.60	73	168877	18.33 ug/L	98
20) 1,1-Dichloroethane	8.79	63	302841	28.14 ug/L	99
21) Vinyl acetate	8.95	43	164562	17.00 ug/L	97
22) n-Hexane	9.31	86	27796	19.59 ug/L	98
23) 2-Butanone (MEK)	9.35	72	5306	18.61 ug/L #	100
24) Diisopropylether (DIPE)	9.36	45	453280	19.85 ug/L	98
25) cis-1,2-Dichloroethene	9.53	96	161878	29.00 ug/L	91
26) Bromochloromethane	9.75	128	47968	23.57 ug/L	95
27) Chloroform	9.80	83	215664	24.27 ug/L	99
28) 2,2-Dichloropropane	9.91	77	167430	21.36 ug/L	99
29) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	258896	17.80 ug/L	98
31) Tetrahydrofuran	10.23	72	4918	16.90 ug/L	88
32) 1,2-Dichloroethane	10.65	62	113831	20.54 ug/L	97
33) 1,1,1-Trichloroethane	10.78	97	156333	23.10 ug/L	96
34) (TAME) tert-Amyl methyl et	11.49	73	195930	18.81 ug/L	95
36) 1,1-Dichloropropene	11.01	75	163222	22.51 ug/L	99
37) Carbon tetrachloride	11.25	117	122235	23.96 ug/L	100
38) Benzene	11.30	78	460798	24.85 ug/L	99
39) Dibromomethane	12.03	93	50317	23.04 ug/L	96
40) 1,2-Dichloropropane	12.08	63	124267	22.82 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191110.D Vial: 10
Acq On : 19 Sep 2011 2:38 pm Operator: MS
Sample : 11I0653-MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 16:34 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

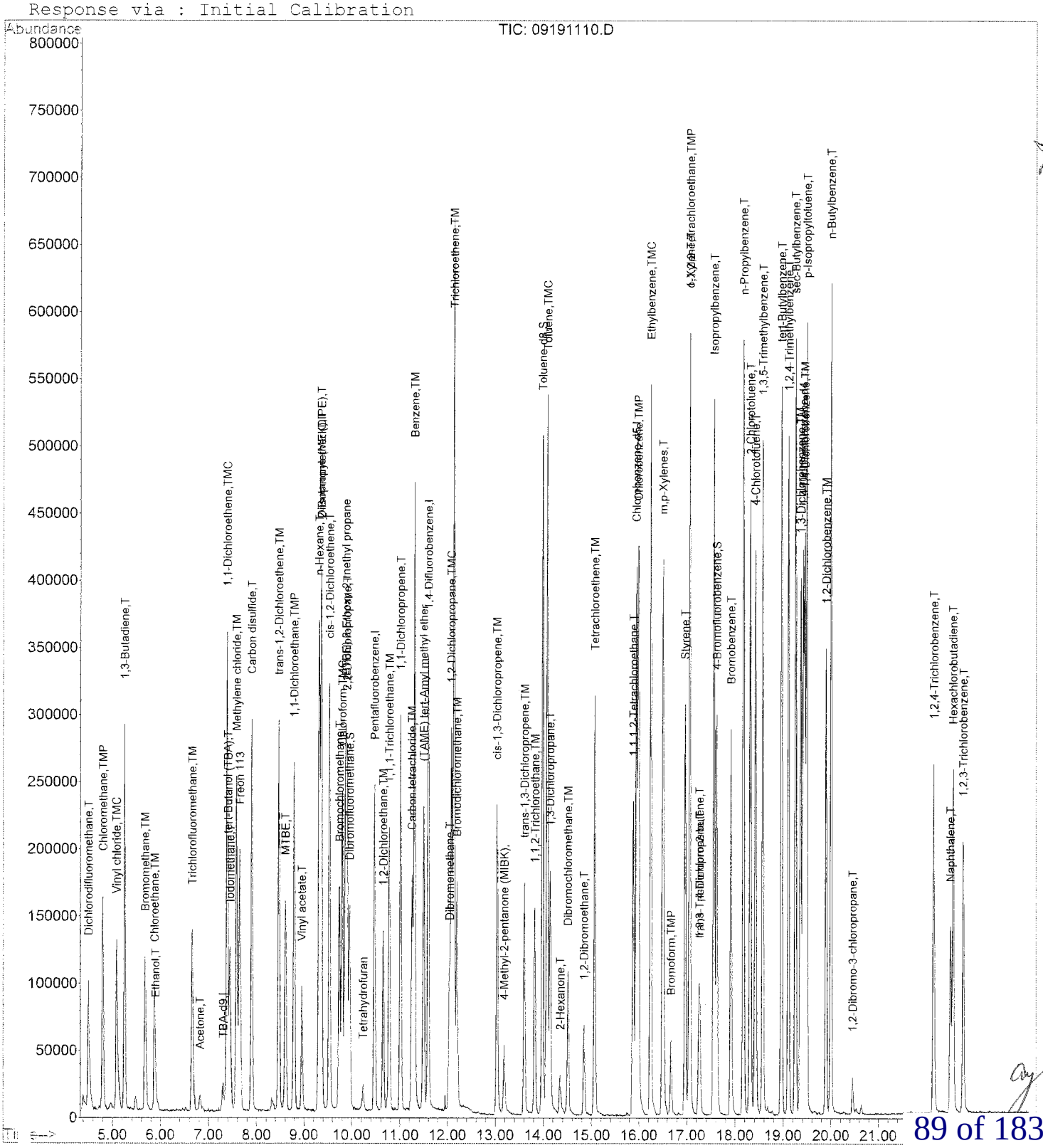
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Trichloroethene	12.13	95	269361	56.72	ug/L		94
42)	Bromodichloromethane	12.19	83	124462	20.72	ug/L		99
44)	cis-1,3-Dichloropropene	13.03	75	162335	22.14	ug/L		97
45)	4-Methyl-2-pentanone (MIBK	13.18	43	53266	17.01	ug/L		99
46)	trans-1,3-Dichloropropene	13.61	75	114246	20.67	ug/L		98
47)	1,1,2-Trichloroethane	13.82	83	58065	22.34	ug/L		95
49)	Toluene	14.08	92	287236	25.85	ug/L		98
51)	1,3-Dichloropropane	14.14	76	124750	23.36	ug/L		97
52)	2-Hexanone	14.34	43	35855	17.88	ug/L		94
53)	Dibromochloromethane	14.51	129	69612	22.18	ug/L		99
54)	1,2-Dibromoethane	14.85	107	60363	22.82	ug/L		98
55)	Tetrachloroethene	15.07	166	112788	28.77	ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.88	131	83228	25.50	ug/L		100
57)	Chlorobenzene	15.99	112	274948	26.21	ug/L		96
58)	Ethylbenzene	16.24	91	504559	25.36	ug/L		98
59)	m,p-Xylenes	16.50	106	182063	24.97	ug/L		94
60)	Styrene	16.96	104	184431	16.46	ug/L		94
61)	o-Xylene	17.06	106	174668	25.64	ug/L		94
64)	Bromoform	16.68	173	33086	22.02	ug/L		96
65)	1,1,2,2-Tetrachloroethane	17.05	83	69583	21.28	ug/L		99
66)	1,2,3-Trichloropropane	17.26	110	14169	18.30	ug/L	#	88
67)	trans-1,4-Dichloro-2-buten	17.27	53	17053	16.15	ug/L		99
68)	Isopropylbenzene	17.56	105	445995	25.31	ug/L		98
69)	Bromobenzene	17.91	156	94748	24.79	ug/L		90
70)	n-Propylbenzene	18.17	91	604795	24.30	ug/L		98
71)	2-Chlorotoluene	18.31	91	333509	22.89	ug/L		95
72)	4-Chlorotoluene	18.41	91	338593	22.96	ug/L		98
73)	1,3,5-Trimethylbenzene	18.57	105	362944	23.71	ug/L		99
74)	tert-Butylbenzene	18.96	119	304000	23.95	ug/L		96
75)	1,2,4-Trimethylbenzene	19.11	105	345448	22.42	ug/L		99
76)	sec-Butylbenzene	19.25	105	521977	24.28	ug/L		98
77)	1,3-Dichlorobenzene	19.36	146	195816	25.25	ug/L		98
78)	1,4-Dichlorobenzene	19.44	146	196331	24.92	ug/L		100
79)	p-Isopropyltoluene	19.49	119	397849	23.89	ug/L		98
80)	1,2-Dichlorobenzene	19.89	146	161569	24.57	ug/L		98
81)	n-Butylbenzene	19.99	91	421415	22.76	ug/L		97
82)	1,2-Dibromo-3-chloropropan	20.47	157	7951	19.17	ug/L		97
83)	1,2,4-Trichlorobenzene	22.15	180	108413	24.81	ug/L		100
84)	Naphthalene	22.49	128	138133	20.32	ug/L		98
85)	Hexachlorobutadiene	22.55	225	66909	25.33	ug/L		93
86)	1,2,3-Trichlorobenzene	22.76	180	86712	24.34	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191110.D Vial: 10
Acq On : 19 Sep 2011 2:38 pm Operator: MS
Sample : 11I0653-MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 19 16:34 2011 Quant Results File: 071211.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191120.D Vial: 6
Acq On : 19 Sep 2011 7:42 pm Operator: MS
Sample : PUI0741-01 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 7:04 2011 Quant Results File: 071211.RES

Quant Method : C:\HPCHEM\1...\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

9/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.30	65	29850	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	175985	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.60	114	315175	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.95	117	283758	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.41	152	117349	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.97	113	111312	25.27 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.08%	
48) Toluene-d8	13.99	98	396787	26.15 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.60%	
62) 4-Bromofluorobenzene	17.62	95	122342	21.38 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 85.52%	

Target Compounds					Qvalue	
2) Ethanol	5.91	45	359	11.44 ug/L #	36	NT
11) Trichlorofluoromethane	6.65	101	794	0.12 ug/L	91	<RL
12) Acetone	6.82	43	1896	Below Cal #	67	
15) Methylene chloride	7.59	84	736	Below Cal	95	
17) Carbon disulfide	7.90	76	400	Below Cal #	1	
25) cis-1,2-Dichloroethene	9.53	96	2941	0.54 ug/L	82	
27) Chloroform	9.80	83	1570	0.18 ug/L #	60	<RL
31) Tetrahydrofuran	10.13	72	130	Below Cal #	3	
34) (TAME) tert-Amyl methyl et	11.59	73	4174	0.41 ug/L #	38	
41) Trichloroethene	12.14	95	33179	7.06 ug/L	96	
45) 4-Methyl-2-pentanone (MIBK	13.18	43	415	0.13 ug/L #	49	<RL
49) Toluene	14.08	92	259749	23.63 ug/L	98	
51) 1,3-Dichloropropane	14.08	76	1511	0.27 ug/L	97	WRT
55) Tetrachloroethene	15.08	166	1263	0.31 ug/L #	77	<RL

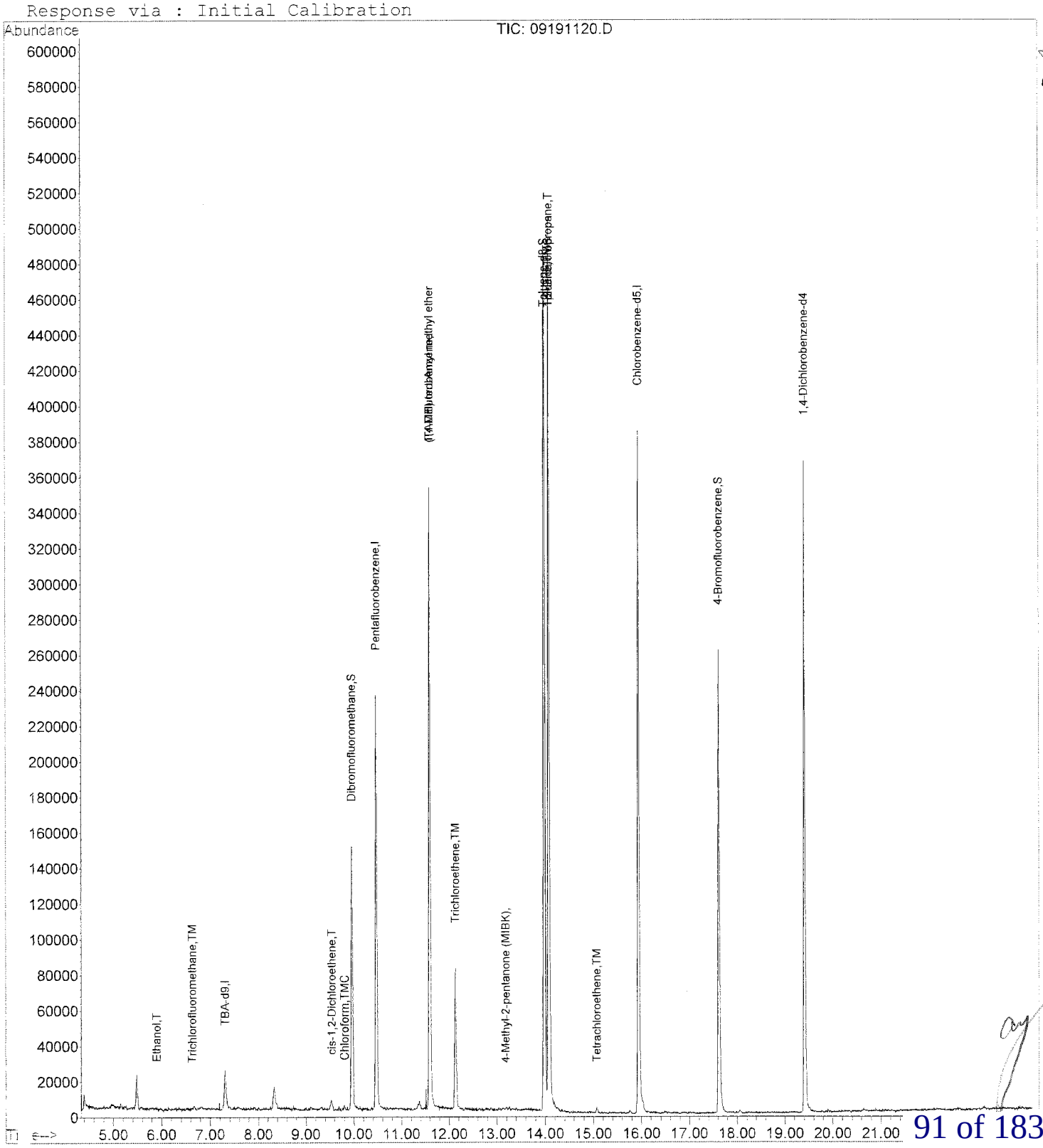
9/20/11

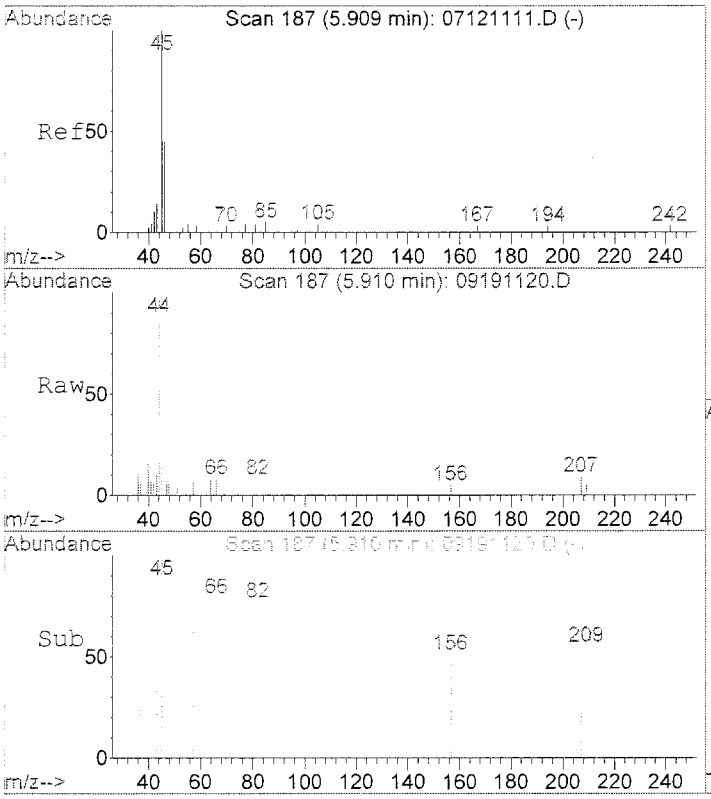
(#) = qualifier out of range (m) = manual integration
09191120.D 071211.M Tue Sep 20 12:12:09 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\091911\09191120.D Vial: 6
Acq On : 19 Sep 2011 7:42 pm Operator: MS
Sample : PUI0741-01 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Sep 20 7:04 2011 Quant Results File: 071211.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\071211.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Wed Jul 13 08:08:09 2011
Response via : Initial Calibration

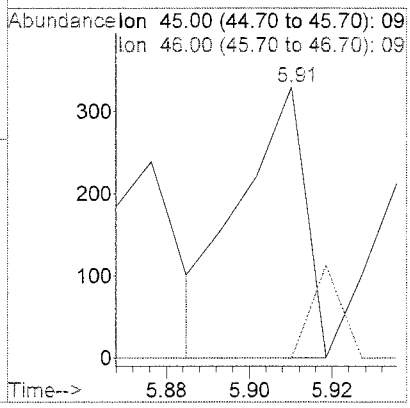


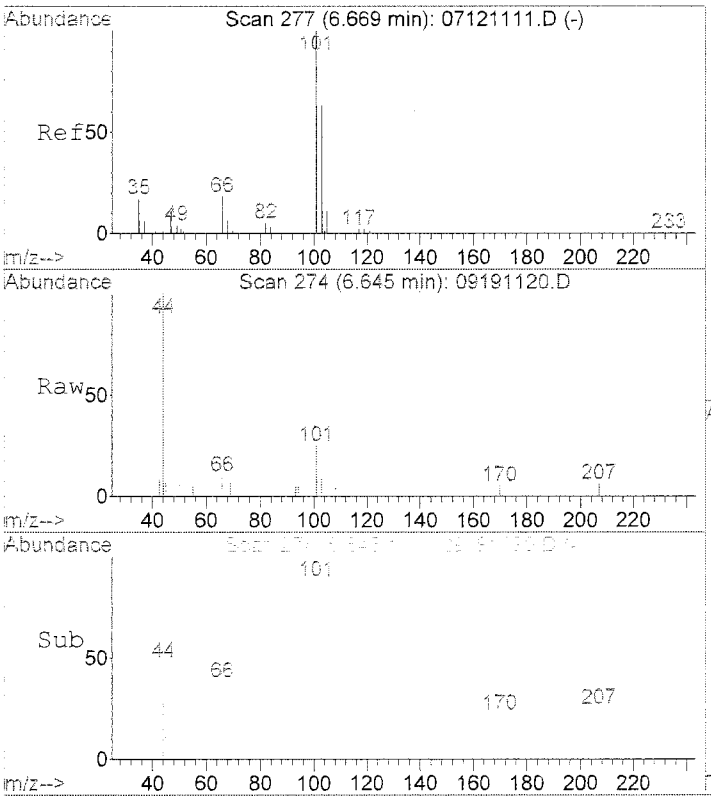


#2
Ethanol
Concen: 11.44 ug/L
RT: 5.91 min Scan# 187
Delta R.T. 0.00 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 45 Resp: 359

Ion	Ratio	Lower	Upper
45	100		
46	0.0	31.3	46.9#

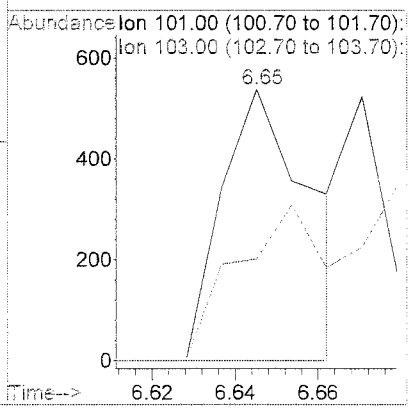


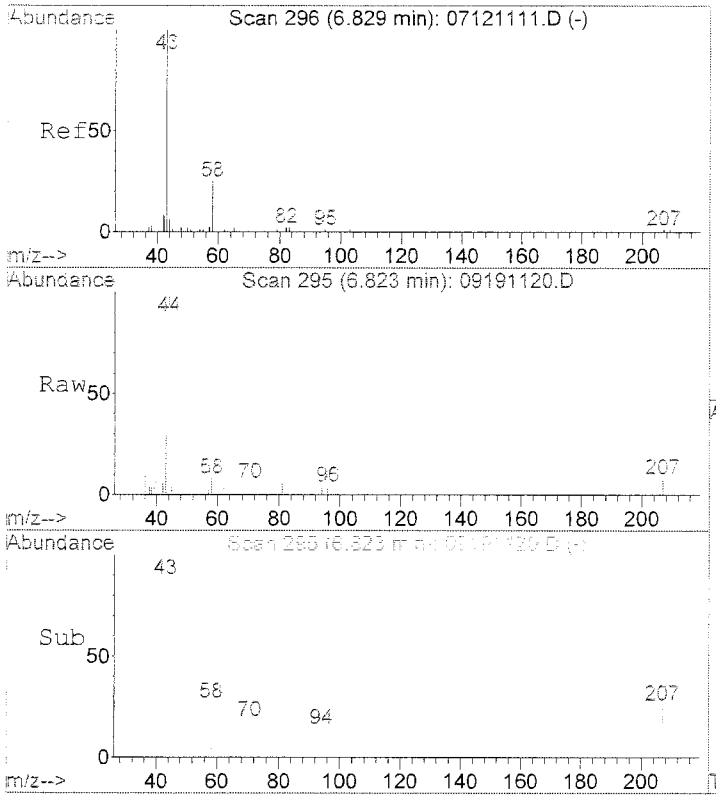


#11
Trichlorofluoromethane
Concen: 0.12 ug/L
RT: 6.65 min Scan# 274
Delta R.T. -0.02 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion:101 Resp: 794

Ion	Ratio	Lower	Upper
101	100		
103	56.4	51.0	76.4

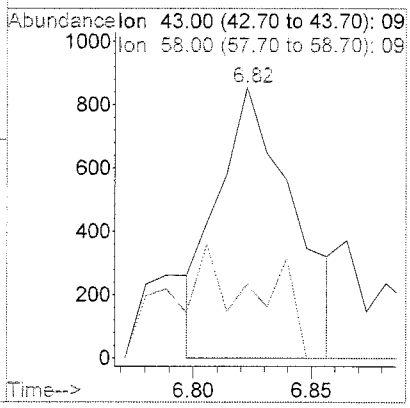


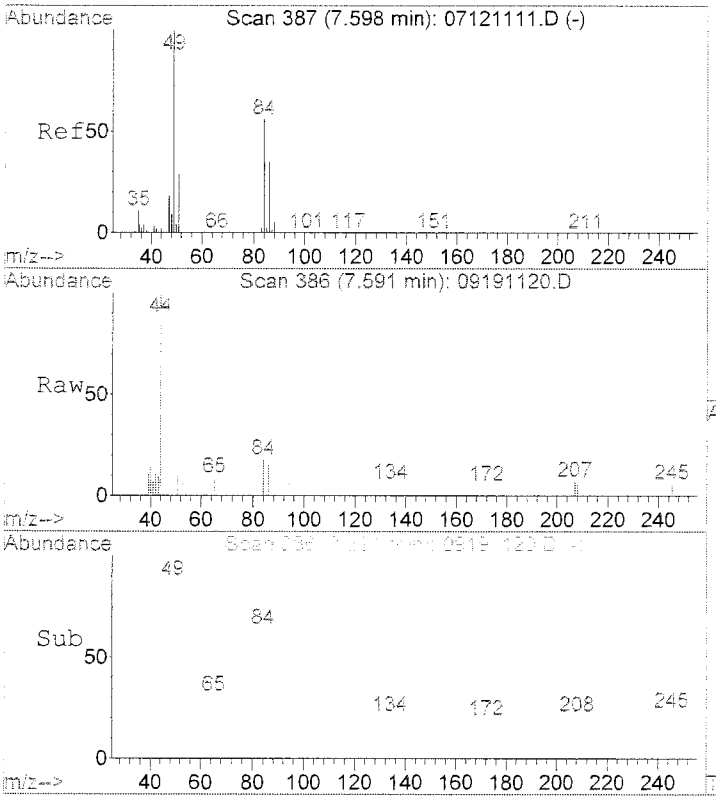


#12
Acetone
Concen: Below Cal
RT: 6.82 min Scan# 295
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 43 Resp: 1896

Ion	Ratio	Lower	Upper
43	100		
58	8.4	19.8	29.6#

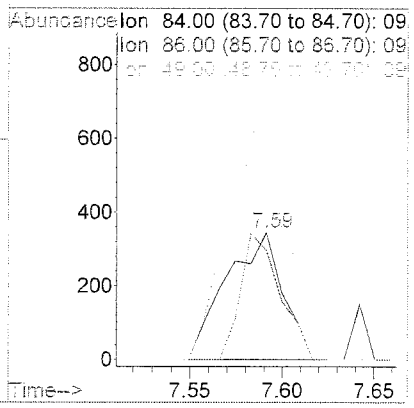


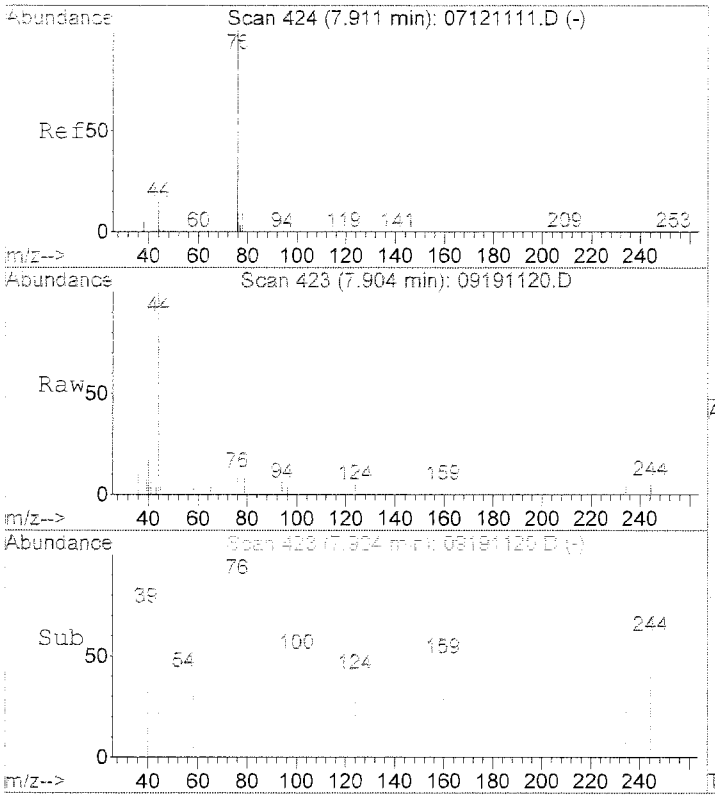


#15
Methylene chloride
Concen: Below Cal
RT: 7.59 min Scan# 386
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 84 Resp: 736

Ion	Ratio	Lower	Upper
84	100		
86	69.3	48.6	72.8
49	181.1	141.1	211.7

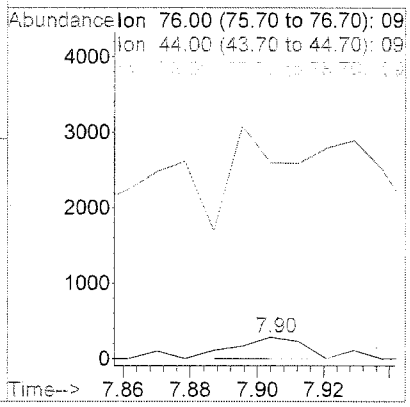


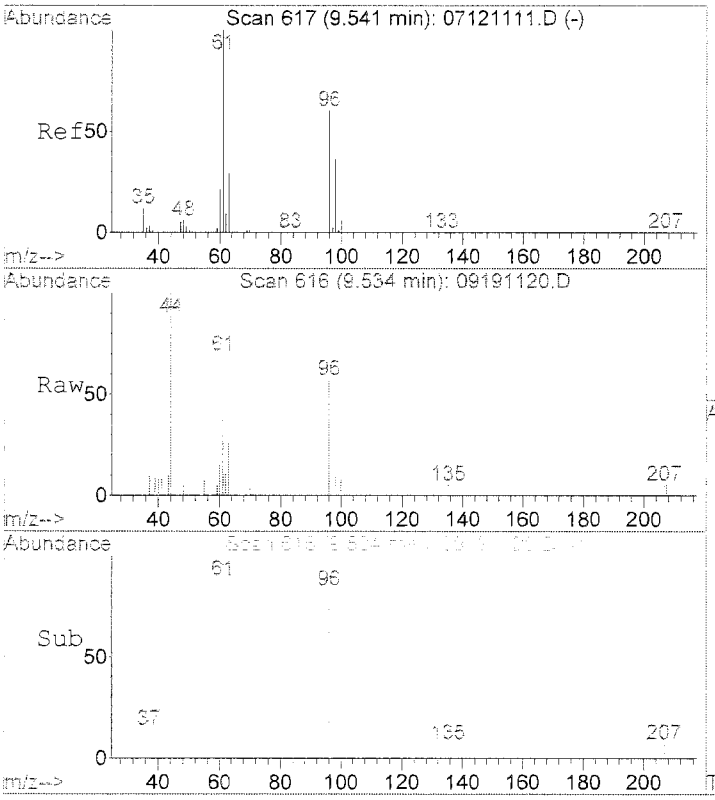


#17
Carbon disulfide
Concen: Below Cal
RT: 7.90 min Scan# 423
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 76 Resp: 400

Ion	Ratio	Lower	Upper
76	100		
44	405.3	0.0	35.9#
78	0.0	0.0	29.3

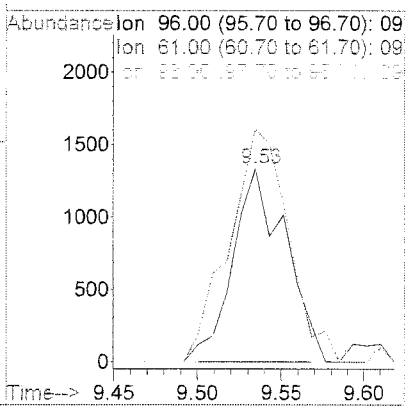


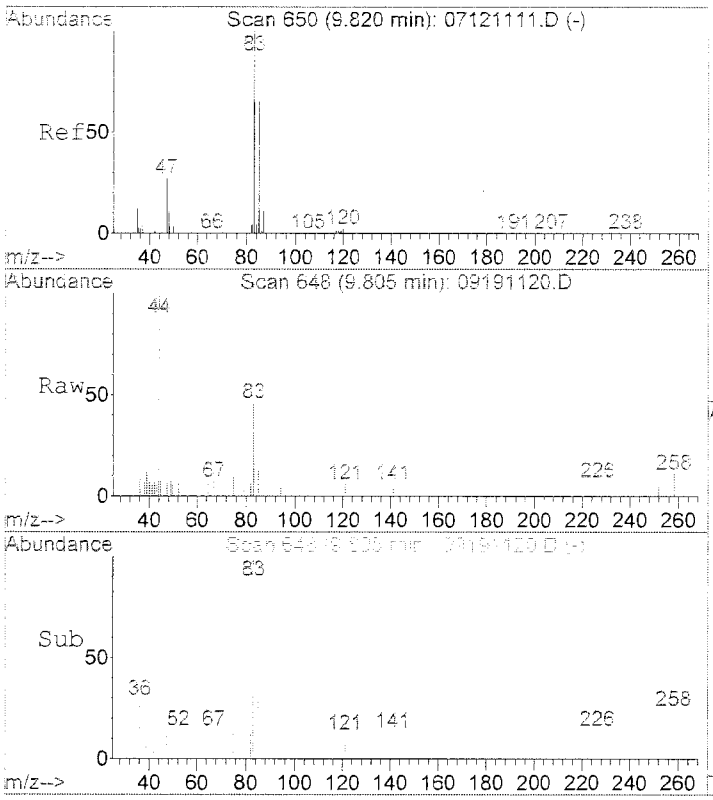


#25
cis-1,2-Dichloroethene
Concen: 0.54 ug/L
RT: 9.53 min Scan# 616
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 96 Resp: 2941

Ion	Ratio	Lower	Upper
96	100		
61	135.0	131.3	196.9
98	57.1	50.8	76.2

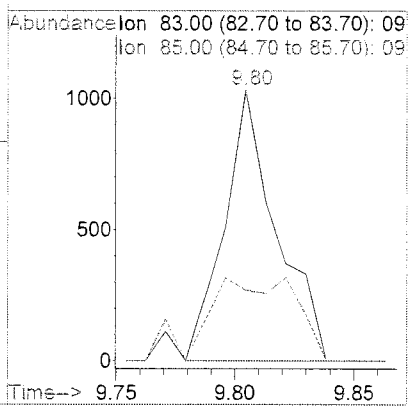


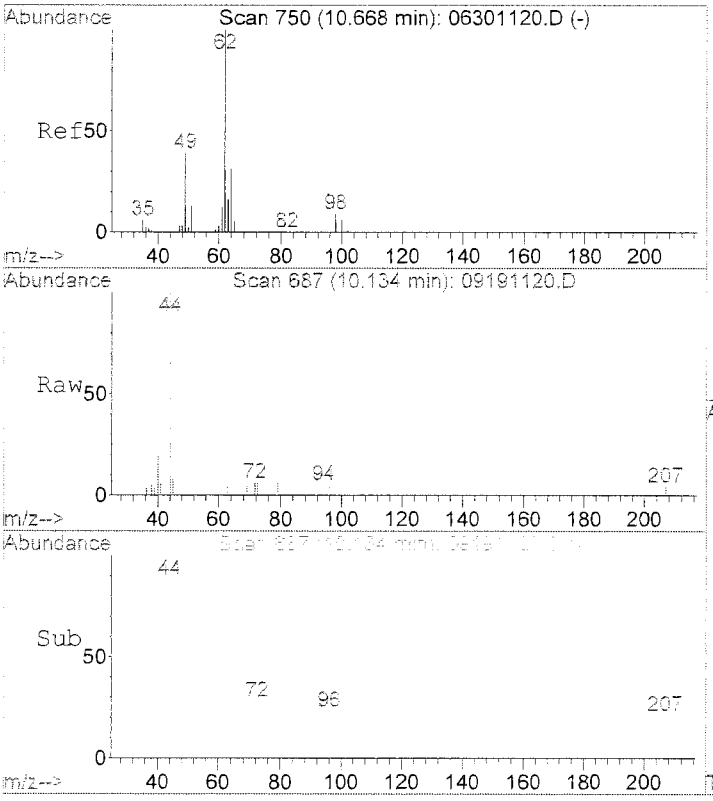


#27
Chloroform
Concen: 0.18 ug/L
RT: 9.80 min Scan# 648
Delta R.T. -0.02 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 83 Resp: 1570

Ion	Ratio	Lower	Upper
83	100		
85	32.3	50.9	76.3#

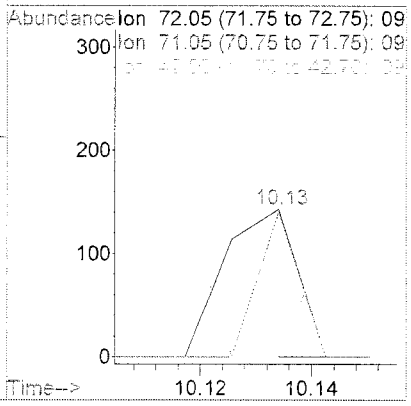


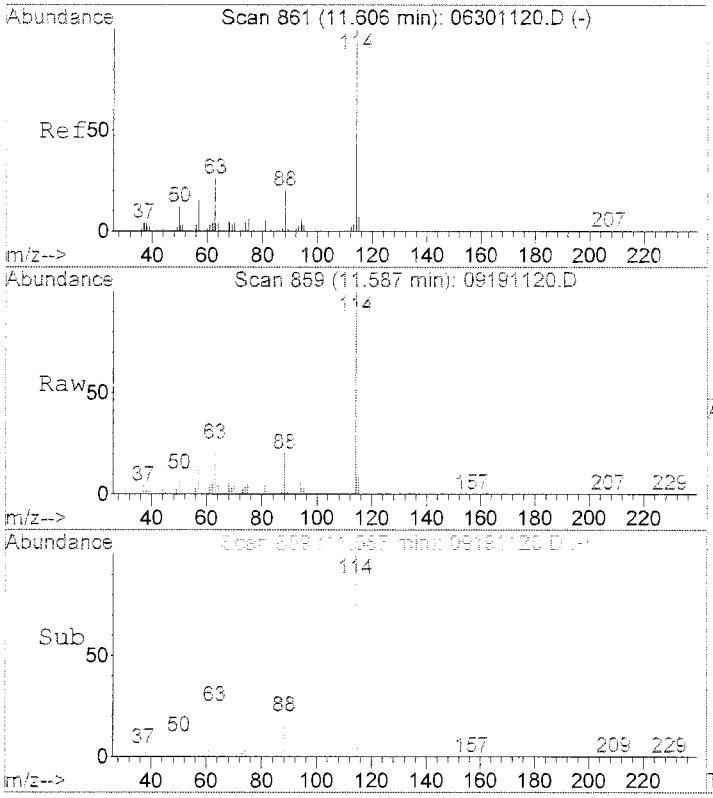


#31
Tetrahydrofuran
Concen: Below Cal
RT: 10.13 min Scan# 687
Delta R.T. -0.11 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 72 Resp: 130

Ion	Ratio	Lower	Upper
72	100		
71	0.0	78.6	117.8#
42	132.3	269.4	404.0#

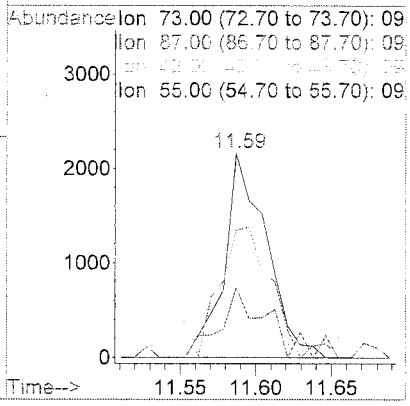


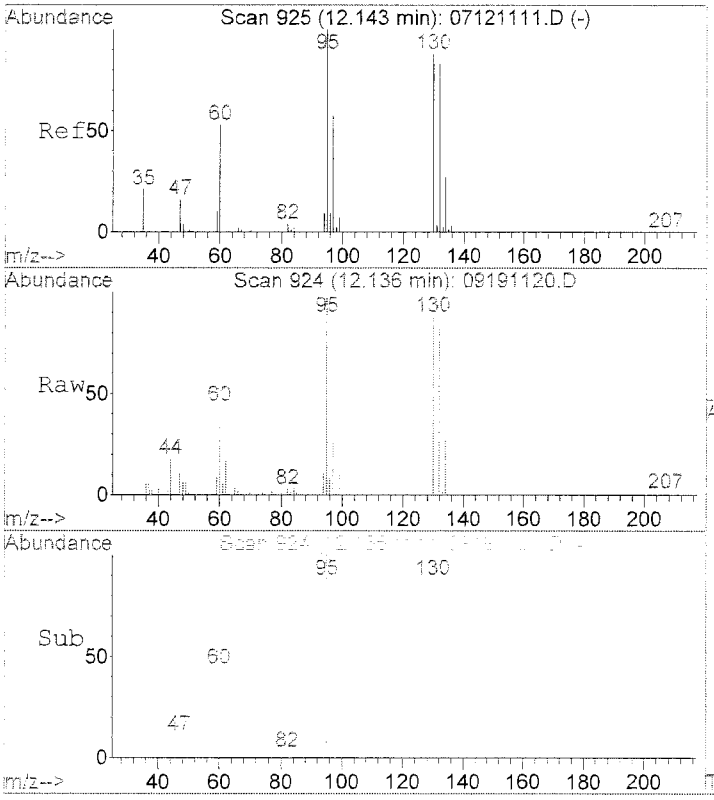


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 11.59 min Scan# 859
Delta R.T. 0.08 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 73 Resp: 4174

Ion	Ratio	Lower	Upper
73	100		
87	75.0	15.6	23.4#
43	4.7	36.9	55.3#
55	17.7	20.6	30.8#

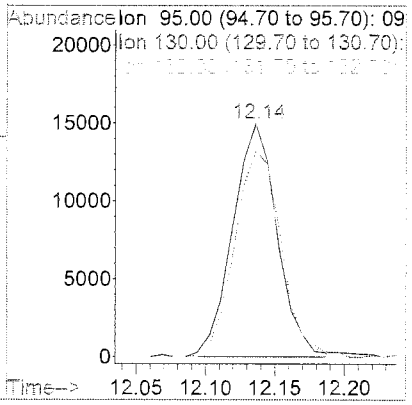


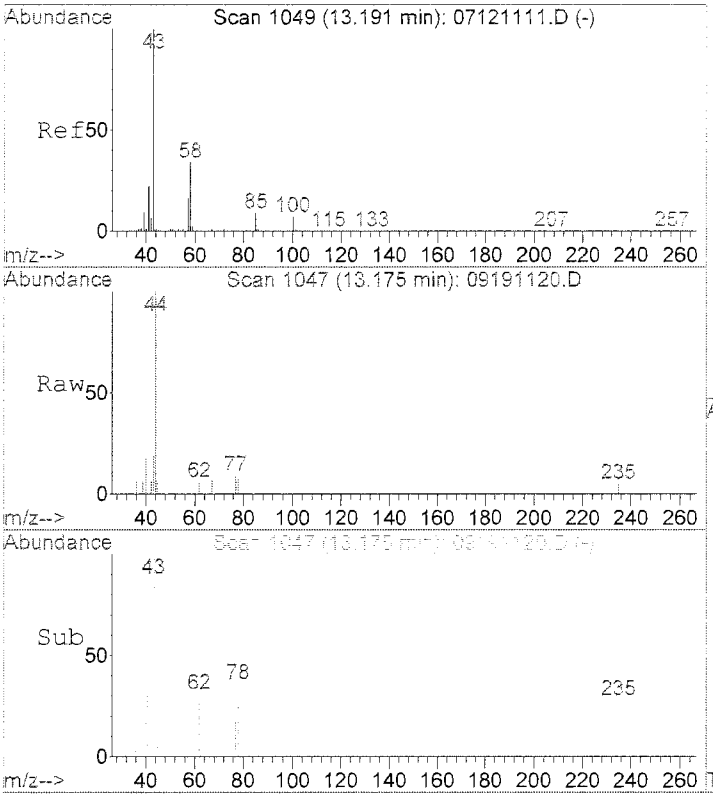


#41
Trichloroethene
Concen: 7.06 ug/L
RT: 12.14 min Scan# 924
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 95 Resp: 33179

Ion	Ratio	Lower	Upper
95	100		
130	92.9	71.8	107.8
132	89.6	67.7	101.5

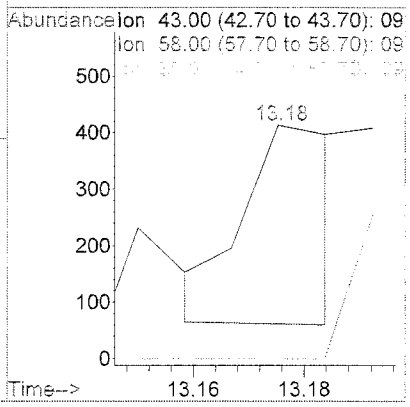


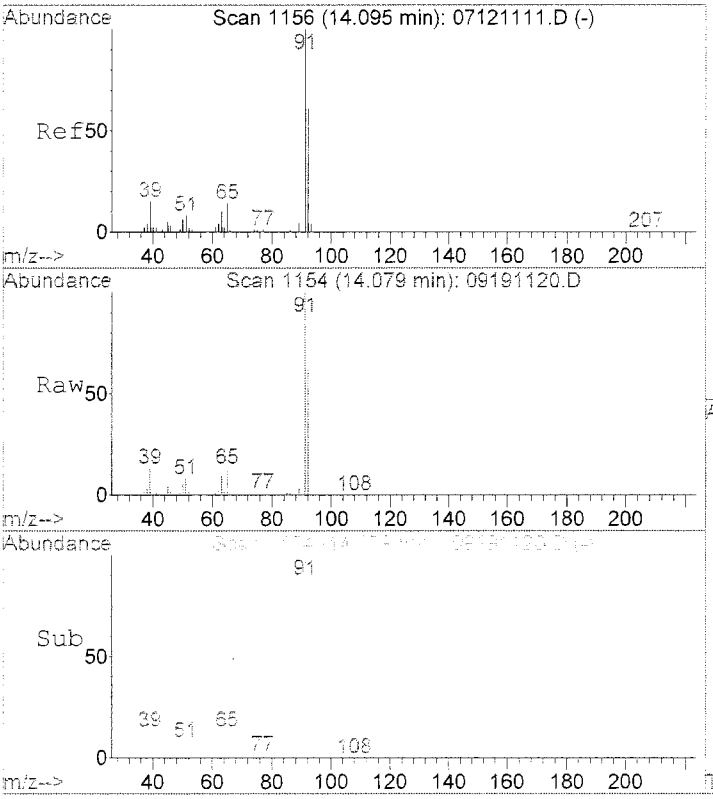


#45
4-Methyl-2-pentanone (MIBK)
Concen: 0.13 ug/L
RT: 13.18 min Scan# 1047
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 43 Resp: 415

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.7	40.1#
85	0.0	7.8	11.8#

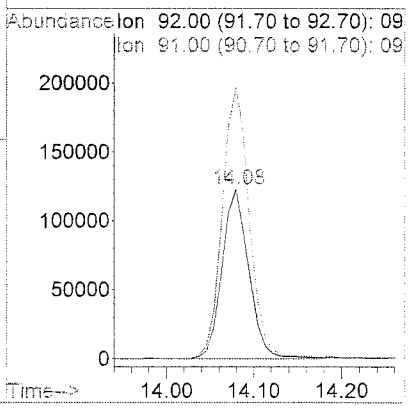


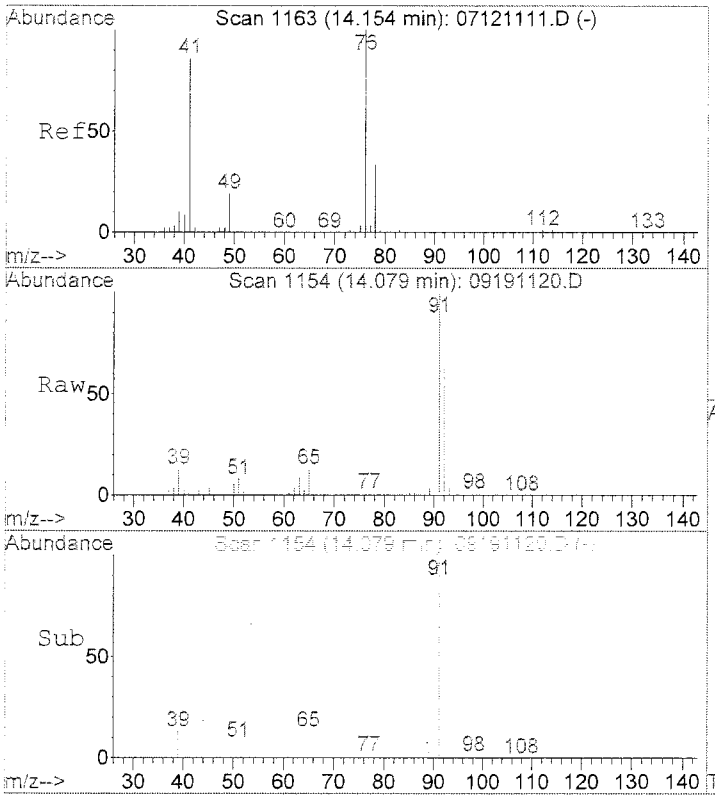


#49
Toluene
Concen: 23.63 ug/L
RT: 14.08 min Scan# 1154
Delta R.T. -0.02 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 92 Resp: 259749

Ion	Ratio	Lower	Upper
92	100		
91	162.1	132.3	198.5

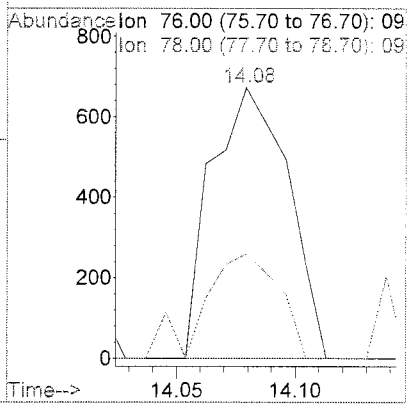




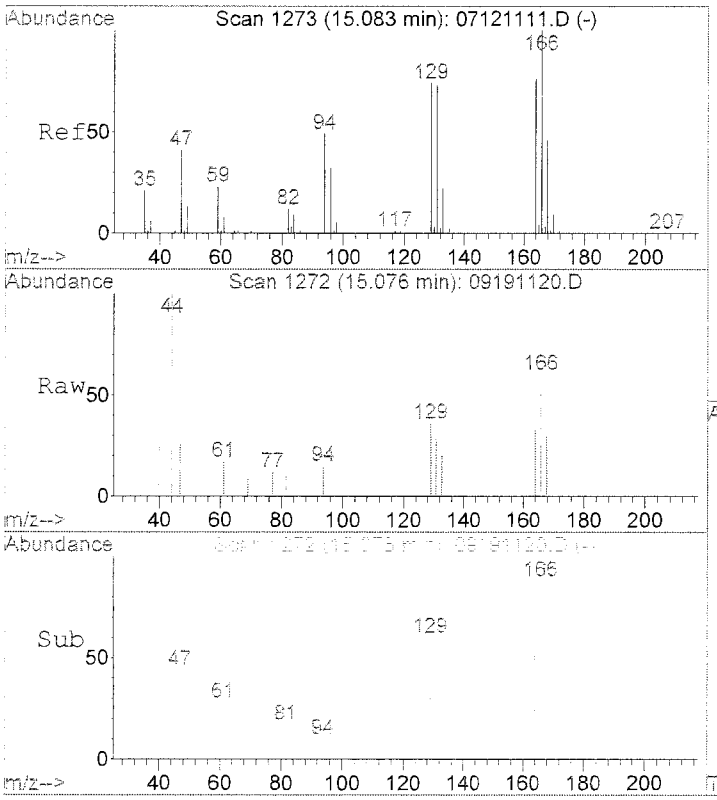
#51
1,3-Dichloropropane
Concen: 0.27 ug/L
RT: 14.08 min Scan# 1154
Delta R.T. -0.07 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion: 76 Resp: 1511

Ion	Ratio	Lower	Upper
76	100		
78	34.0	25.9	38.9



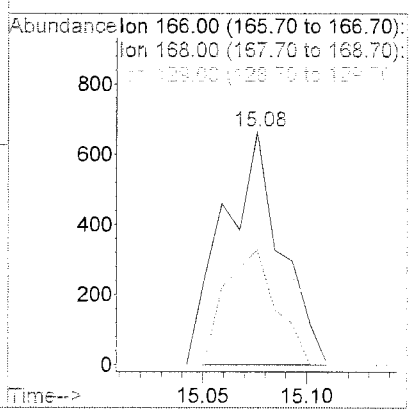
WRT



#55
Tetrachloroethene
Concen: 0.31 ug/L
RT: 15.08 min Scan# 1272
Delta R.T. -0.01 min
Lab File: 09191120.D
Acq: 19 Sep 2011 7:42 pm

Tgt Ion:166 Resp: 1263

Ion	Ratio	Lower	Upper
166	100		
168	44.1	38.2	57.2
129	49.0	62.8	94.2#



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DIGESTION/EXTRACTION LOGS

METHOD: EPA 3520C

PREPARATION BENCH SHEET

11I0590

TestAmerica Phoenix

Printed: 9/19/2011 10:5 AM

Matrix: Water

Prepared using: GCMS Semivolatiles - N_EPA 3520C

Surrogate used: 5613

Lab Number	C	Analysis	Prepared	Initial (ml)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
11I0590-BLK1		QC	09/16/11 14:45	1000	1						100				
11I0590-BS1		QC	09/16/11 14:45	1000	1		PU05617	200			100				
11I0590-BSD1		QC	09/16/11 14:45	1000	1		PU05617	200			100				
PUI0738-01	E	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0739-01	A	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0739-02	B	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0739-03	B	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0739-04	A	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0739-05	B	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0739-06	A	N_1,4-Dioxane (SW82	09/16/11 14:45	850	1						100				
PUI0739-07	B	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0741-01	E	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0763-04	B	N_1,4-Dioxane (SW82	09/16/11 14:45	50	1						100				Use 50mL of sample
PUI0765-01	B	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0765-02	A	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				
PUI0849-01	E	N_1,4-Dioxane (SW82	09/16/11 14:45	1000	1						100				

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By — Date

Preparation Reviewed By — Date: 9/21/11

Extracts Received By — Date

TestAmerica Phoenix

☐ Check box if the back of the previous page is used for additional noted, comments, or calculations. The use of other scratch paper is strictly prohibited.

Extraction Date: 9-16-11

Liquid/Liquid Extraction Record

Test Code: 1,4 Dioxane

Acid Na_2SO_4 Jar #: —

Element No.: 11I0590

Analytical Method: 3520C

Solvent/Lot No.1. DCM/K19504 2. —

Final Sol.: DCM/K19504 Na_2SO_4 Lot #: —

Acid/Base/Lot No.1. — 2. —

Na_2SO_4 Jar #: —

Surrogate: Mod 8270 Sur Conc. 200 ppm Vol: 100 µl Std. ID#: PV05613 Exp 3-14-12 SW MST

Spike #1: 1,4 Dioxane Conc. 100 ppm Vol: 200 µl Std. ID#: PV05617 Exp 9-14-12 SW MST

Spike #2: — Conc. — Vol: — Std. ID#: — Exp — SW —

Spike #3: — Conc. — Vol: — Std. ID#: — Exp — SW —

K-D Bath Temp °C: 72.6 N-Evap Bath Temp °C: 33

Start Time: 1445 End Time: 1505 9-17-11 Spiked By: KA Spike Witness: MST

K-D'd by: KA E-vap'd by: KA Solvent Ex'd by: NA Brought to V_f & Vialed by: KA

	Sample #	RE	Sample Frac.	pH[1]	Initial Vol/Wt (mLs/g)	Final Vol. (mLs)	K-D'd (√)	Evp'd (√)	Check IDs	Color	Sample linked at:
1	MB	NA	NA	5	1L	1mL	√	√	NA	clear	NA
2	LCS		1	5	1L	1	√	√	1	clear	
3	LCSD		1	5	1L	1	√	√	1	clear	
4	~~MS~~ PVI0738-1		E	7	1L	1	√	√	√	clear	
5	~~MSD~~ PVI0739-1		A	7	1L	1	√	√	√	clear	
6	~~RLV~~ PVI0739-2		B	7	1L	1	√	√	√	clear	
7	PVI0739-3		B	7	1L	1	√	√	√	clear	
8	PVI0739-4		A	7	1L	1	√	√	√	clear	
9	PVI0739-5		B	7	1L	1	√	√	√	clear	
10	PVI0739-6		A	7	1L 85mL	1	√	√	√	clear	
11	PVI0739-7		B	7	1L	1	√	√	√	clear	
12	PVI0741-1		E	7	1L	1	√	√	√	clear	
13	PVI0763-4		B	7	50mL	1	√	√	√	clear	
14	PVI0765-1		B	7	1L	1	√	√	√	clear	
15	PVI0765-2		A	7	1L	1	√	√	√	clear	
16	PVI0849-1		E	7	1L	1	√	√	√	clear	
17											
18											
19											
20											
21											
22											
23											
24											
25											

KA 9-17-11

[1]Sample pH / Adjusted pH;

a = Acid Fraction, b = base/neutral fraction

Z Insufficient Sample for MS/MSD ___ MS/MSD Designated ___ MS/MSD Chosen Z Sample Container(s) Shaken & Rinsed with Solvent

Sample Extracts located in: Box# _____ Row(s) & Numbers _____ BNA Freezer Z SVOA's Fridge ___

Comments: PVI0763-4 spiked at 50mL due to history of high dilutions KA 9/16-11
QA 9-16-11

Reviewer: _____ Date: _____ Incorrect Container: _____

PX-EXT-009/C-02/11

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THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: MODIFIED EPA 8270C
(1,4-DIOXANE)

DATE: 08/09/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270 C	Instrument #: 6 cms14
Analyst: C. Lauric	Analysis Date: 8/09/11	

Method name saved in the file: 14DIVPANE\ ~~0802H.m~~ 0809H.m 9/28/11

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9), 10, 11, 12 9/28/11
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? Y (N)

   If yes, what points were removed or replaced: lowest middle highest

   List of the analytes:

   Why?

5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Logbook Documentation SOP requirements: (Y) N

Review Signatures:	Analyst: C Lauric	Date: 8/10/11
	Reviewer: Amy L Cameron	Date: 8/10/11

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THE LEADER IN ENVIRONMENTAL TESTING

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Lauri	Batch ID# na	Date Analyzed: 8/09/11

	Description	Yes	No	NA[1]
1.	Tune 25 ng/ml 8/10/11			
-	DFTPP (50 ng) meets method criteria?	✓		
-	Tailing – Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	CCC 1,4-Dichlorobenzene ≤30%	✓		
-	All compounds RSD ≤20% or linear/quadratic r^2≥0.99	✓		
-	QCS recovered ± 30%	✓		
-	Date of Initial Calibration: 1,4-Dioxane 8/09/11 Instrument: C CMS 14	✓		
3.	Retention Times Updated?			
4.	CCVs all analytes recovered within 20% (includes CCC 1, 4-Dichlorobenzene)?			
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?			
-	Internal Standard RT ± 0.5 min. from 10~~ppb~~ ng/ml std. in ICAL?			
-	Internal Standard Areas -50% to 200% of 10~~ppb~~ ng/ml std. in ICAL? } 8/10/11			
-	Analyte RRTs ± 0.06 from 50~~ppb~~ ng/ml std. in ICAL?			
5.	Method Blank extracted with batch?			
-	All target analytes recovered <RL?			
6.	LCS/LCSD extracted with batch?			
-	Recoveries within Laboratory Limits?			
-	RPDs ≤ Laboratory Limits?			
7.	MS/MSD extracted with batch?			
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?			
-	Samples analyzed within 40 days from extraction?			
-	Internal Standard RT ± 0.5 min. from CCV?			
-	Internal Standard Areas -50% to 200% of 10 ~~ppb~~ ng/ml std. ~~in ICAL~~ for CCV? 8/10/11			
-	Maximum of 20 samples in batch?			
-	Surrogate recoveries within Historical Limits?			

Comments: PU0-20076

Review Signatures:	Analyst: C Lauri	Date: 8/10/11 8/9 8/10/11
	Reviewer: Amy L Leonard	Date: 8/11

[1] NA: Not Applicable

Response Factor Report GCMS14

Method ¯ ı : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 080911.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Aug 10 15:17:19 2011
Response Via : Initial Calibration

08/10/11

Calibration Files
1 =08091106.D 2 =08091107.D 3 =08091108.D 4 =08091109.D 5 =08091105.D 6 =08091110.D 7 =08091111.D 8 =08091112.D
9 =08091113.D

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) I	1,4-Dioxane-d8	----------ISTD----------										
2) C	1,4-Dioxane	1.026	1.108	0.998	1.025	1.056	1.007	1.011	1.006	0.941	1.020	4.42
3) I	1,4-Dichlorobenzen...	----------ISTD----------										
4) C*	1,4-Dichlorobe...	1.464	1.481	1.568	1.552	1.588	1.542	1.499	1.512	1.454	1.518	3.12
5) P	N-Nitrosodi-n-...	0.402	0.401	0.384	0.731	0.927	0.979	0.972	1.026	1.067	0.765	38.21
6) S	Nitrobenzene-d5	1.500	1.533	1.554	1.546	1.594	1.590	1.576	1.615	1.597	1.567	2.34

(#) = Out of Range

8/10/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Aug 10 15:17:19 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091106.D
2	2	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091107.D
3	3	2	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091108.D
4	4	4	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091109.D
5	5	10	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091105.D
6	6	20	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091110.D
7	7	30	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091111.D
8	8	40	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091112.D
9	9	100	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091113.D
10	CC	10	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091105.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 10 15:15 2011	Aug 09 16:22 2011	9 Aug 2011 12:49 pm
2	2	Aug 10 15:15 2011	Aug 09 16:21 2011	9 Aug 2011 1:15 pm
3	3	Aug 10 15:15 2011	Aug 09 16:23 2011	9 Aug 2011 1:41 pm
4	4	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:07 pm
5	5	Aug 10 15:16 2011	Aug 09 16:16 2011	9 Aug 2011 12:28 pm
6	6	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:33 pm
7	7	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:59 pm
8	8	Aug 10 15:15 2011	Aug 09 15:49 2011	9 Aug 2011 3:25 pm
9	9	Aug 10 15:15 2011	Aug 09 16:16 2011	9 Aug 2011 3:51 pm
10	CC	Aug 10 15:17 2011	Aug 09 16:16 2011	9 Aug 2011 12:28 pm

080911.M Wed Aug 10 15:18:25 2011 GCMS14

08/10/11

8/10/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Aug 10 15:17:19 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.422	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.469	1.019	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	5.757	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	5.775	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.104	1.060	A	1	A	B
6	S	Nitrobenzene-d5	82	6.234	1.083	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

080911.M Wed Aug 10 15:18:16 2011 GCMS14

08/10/11

8/10/11

TestAmerica
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Phoenix

SOP No. PE-QAD-022, Rev. 1
Effective Date: 04/12/2011
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod-8270C	Instrument #: C CMS14
Analyst: C. Laurie	Analysis Date: 8/09/11	

Method name saved in the file: 14 D\Ocane\ 080911 → 080911 A

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2. Did the calibration curve pass the method criteria? Y N
3. Were any points of the curve removed or replaced? Y N
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? Y N
   If yes, what points were removed or replaced: lowest middle highest
   List of the analytes:
   Why?
5. Circle the calibration model used (you may circle one or more)
   - ☐ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Logbook Documentation SOP requirements: Y N

no changes update IC only + spectra

Review Signatures:	Analyst: C Laurie	Date: 9/12/11
	Reviewer: Jessica Brunner	Date: 09/15/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

update to A
due to RT shift
09.12-11

Calibration Files
1 =08091106.D 2 =08091107.D 3 =08091108.D 4 =08091109.D 5 =08091105.D 6 =08091110.D 7 =08091111.D 8 =08091112.D
9 =08091113.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	ISTD										
2)	C	1,4-Dioxane	1.026	1.108	0.998	1.025	1.056	1.007	1.011	1.006	0.941	1.020	4.42
3)	I	1,4-Dichlorobenzen...	ISTD										
4)	C*	1,4-Dichlorobe...	1.464	1.481	1.568	1.552	1.588	1.542	1.499	1.512	1.454	1.518	3.12
5)	P	N-Nitrosodi-n-...	0.402	0.401	0.384	0.731	0.927	0.979	0.972	1.026	1.067	0.765	38.21
6)	S	Nitrobenzene-d5	1.500	1.533	1.554	1.546	1.594	1.590	1.576	1.615	1.597	1.567	2.34

(#) = Out of Range

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091106.D
2	2	1	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091107.D
3	3	2	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091108.D
4	4	4	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091109.D
5	5	10	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091105.D
6	6	20	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091110.D
7	7	30	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091111.D
8	8	40	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091112.D
9	9	100	20.2	D:\msdchem\1\GCMS14\DATA\080911\08091113.D
10	CC	10	20.2	D:\msdchem\1\GCMS14\DATA\091211\09121107.D - used to update aug 12-11

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 10 15:15 2011	Aug 09 16:22 2011	9 Aug 2011 12:49 pm
2	2	Aug 10 15:15 2011	Aug 09 16:21 2011	9 Aug 2011 1:15 pm
3	3	Aug 10 15:15 2011	Aug 09 16:23 2011	9 Aug 2011 1:41 pm
4	4	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:07 pm
5	5	Aug 10 15:16 2011	Aug 09 16:16 2011	9 Aug 2011 12:28 pm
6	6	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:33 pm
7	7	Aug 10 15:15 2011	Aug 09 15:48 2011	9 Aug 2011 2:59 pm
8	8	Aug 10 15:15 2011	Aug 09 15:49 2011	9 Aug 2011 3:25 pm
9	9	Aug 10 15:15 2011	Aug 09 16:16 2011	9 Aug 2011 3:51 pm
10	CC	Sep 12 13:18 2011	Sep 12 13:18 2011	12 Sep 2011 12:58 pm

080911A.M Mon Sep 12 13:19:36 2011 GCMS14

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.216	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.257	1.019	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	5.698	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	5.716	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.045	1.061	A	1	A	B
6	S	Nitrobenzene-d5	82	6.169	1.083	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

080911A.M Mon Sep 12 13:19:50 2011 GCMS14

09-12-11

Sample Name 10ug/mL14dio pu04539
Data File Name 08091105.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 12:28
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.m	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.422					
	1,4-Dioxane	2.469	1.019	1.019	0.419	1.619	**PASS**
IS	1,4-Dichlorobenzene-d4	5.757					
	1,4-Dichlorobenzene	5.775	1.003	1.003	0.403	1.603	**PASS**
	N-Nitrosodi-n-propylamine	6.104	1.060	1.060	0.46	1.66	**PASS**
	Nitrobenzene-d5	6.234	1.083	1.083	0.483	1.683	**PASS**

new update
a 8-10-11

8/10/11

Sample Name 10ug/mL14dio pu04539
Data File Name 08091105.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 12:28
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.M	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.422					
	1,4-Dioxane	2.469	1.019	1.019	* 0.959	* 1.079	PASS
IS	1,4-Dichlorobenzene-d4	5.757					
	1,4-Dichlorobenzene	5.775	1.003	1.003	0.943	1.063	PASS
	N-Nitrosodi-n-propylamine	6.104	1.060	1.060	1	1.12	PASS
	Nitrobenzene-d5	6.234	1.083	1.083	1.023	1.143	PASS

* correct value for − 0.06 + + 0.06 } 09-21-11

Sample Name 10ug/mL14dio pu04539
Data File Name 08091105.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 12:28
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

Internal Standard	CCV RESPONSE	080911.m MID-POINT RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	343235	343235	171617.5	686470	**PASS**
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.757	5.757	5.257	6.257	**PASS**

new update ok-1 11

8/10/11

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥080911.s
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥080911¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
(X) On Mismatch, Don't Inject
( ) Barcode Disabled

8/18/11

Line			Sample Name/Misc Info
1)	Sample	1	08091101 DB5MS14 dcm
2)	Sample	2	08091102 DB5MS14 dcm
3)	Sample	3	08091103 DB5MS14 25ng TUNE pu04169
4)	Sample	4	08091104 DIOXANE PRIMER
5)	Sample	5	08091105 DIOXANE 10ug/mL14dio pu04539
6)	Sample	6	08091106 DIOXANE 0.5ug/mL IC pu02514
7)	Sample	7	08091107 DIOXANE 1.0ug/mL IC pu02515
8)	Sample	8	08091108 DIOXANE 2.0ug/mL IC pu02516
9)	Sample	9	08091109 DIOXANE 4.0 ug/mL IC pu02517
10)	Sample	10	08091110 DIOXANE 20 ug/mL IC pu02519
11)	Sample	11	08091111 DIOXANE 30ug/mL IC pu02520
12)	Sample	12	08091112 DIOXANE 40ug/mL IC pu02521
13)	Sample	13	08091113 DIOXANE 100 ug/mL IC pu02522
14)	Sample	14	08091114 DIOXANE qcs 10 ug/mL pu04541
15)	Sample	15	08091115 DIOXANE ccv 10 ug/mL pu04539
16)	Sample	16	08091116 DIOXANE 11H0189-BLK1
17)	Sample	17	08091117 DIOXANE 11H0189-BS1
18)	Sample	18	08091118 DIOXANE 11H0189-BSD1
19)	Sample	19	08091119 DIOXANE PUG1913-16RE1

a 8/18/11

Sequence Reviewed By: a Date: 8-18-11

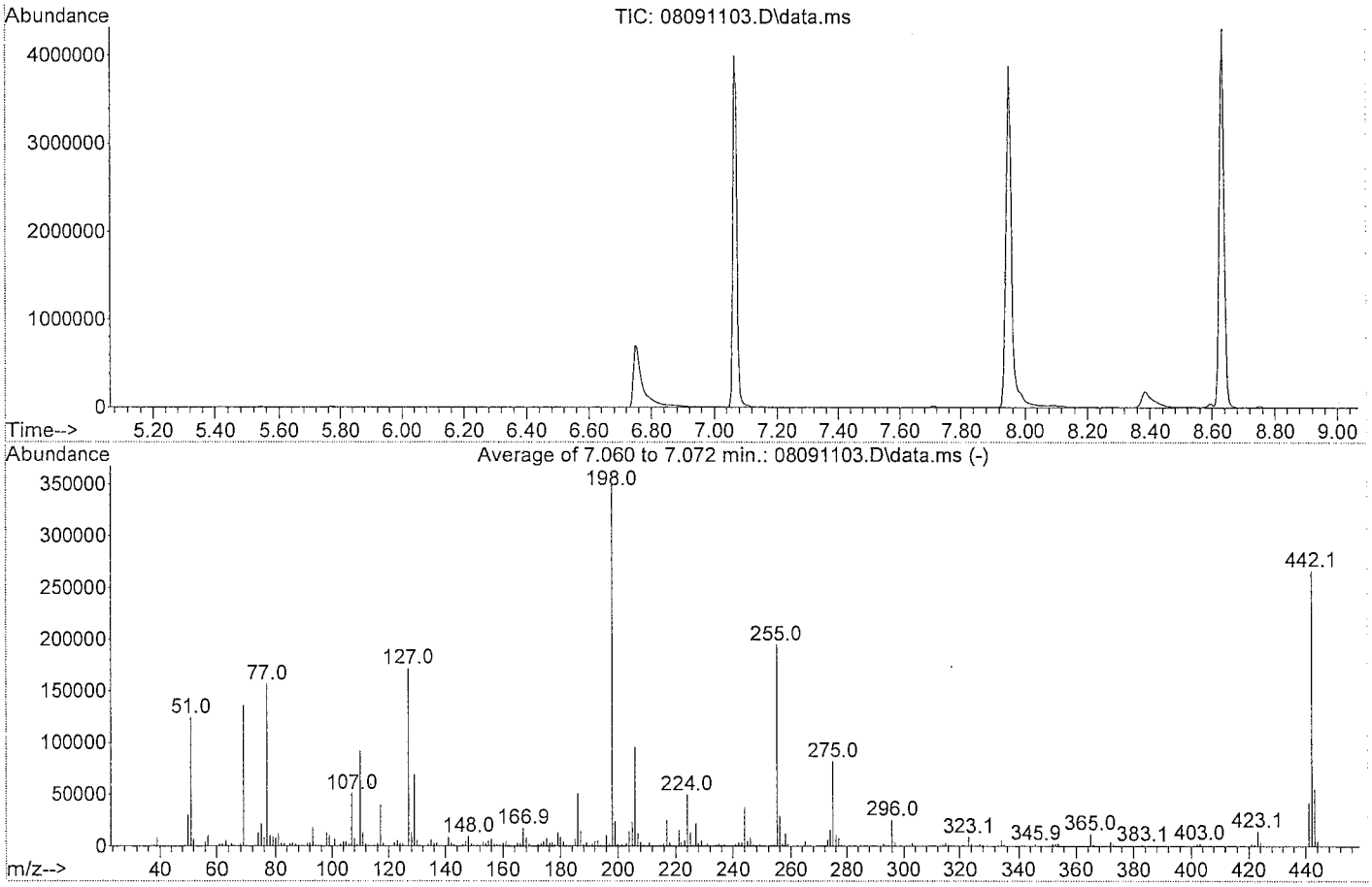
Date Analyzed: 8-18-11 Analyst: a Date Run: 8/09/11

DFTPP

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥080911¥
Data File : 08091103.D
Acq On : 9 Aug 2011 11:38 am
Operator : CL
Sample : 25ng TUNE pu04169
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Fri Jul 15 15:45:04 2011



AutoFind: Scans 956, 957, 958; Background Corrected with Scan 951

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.5	124096	PASS
68	69	0.00	2	1.4	1845	PASS
69	198	0.00	100	38.8	135547	PASS
70	69	0.00	2	0.5	667	PASS
127	198	40	60	49.0	171459	PASS
197	198	0.00	1	0.5	1771	PASS
198	198	100	100	100.0	349739	PASS
199	198	5	9	6.8	23875	PASS
275	198	10	30	23.3	81629	PASS
365	198	1	100	3.3	11372	PASS
441	443	0.01	100	76.3	41487	PASS
442	198	40	100	76.1	266211	PASS
443	442	17	23	20.4	54362	PASS

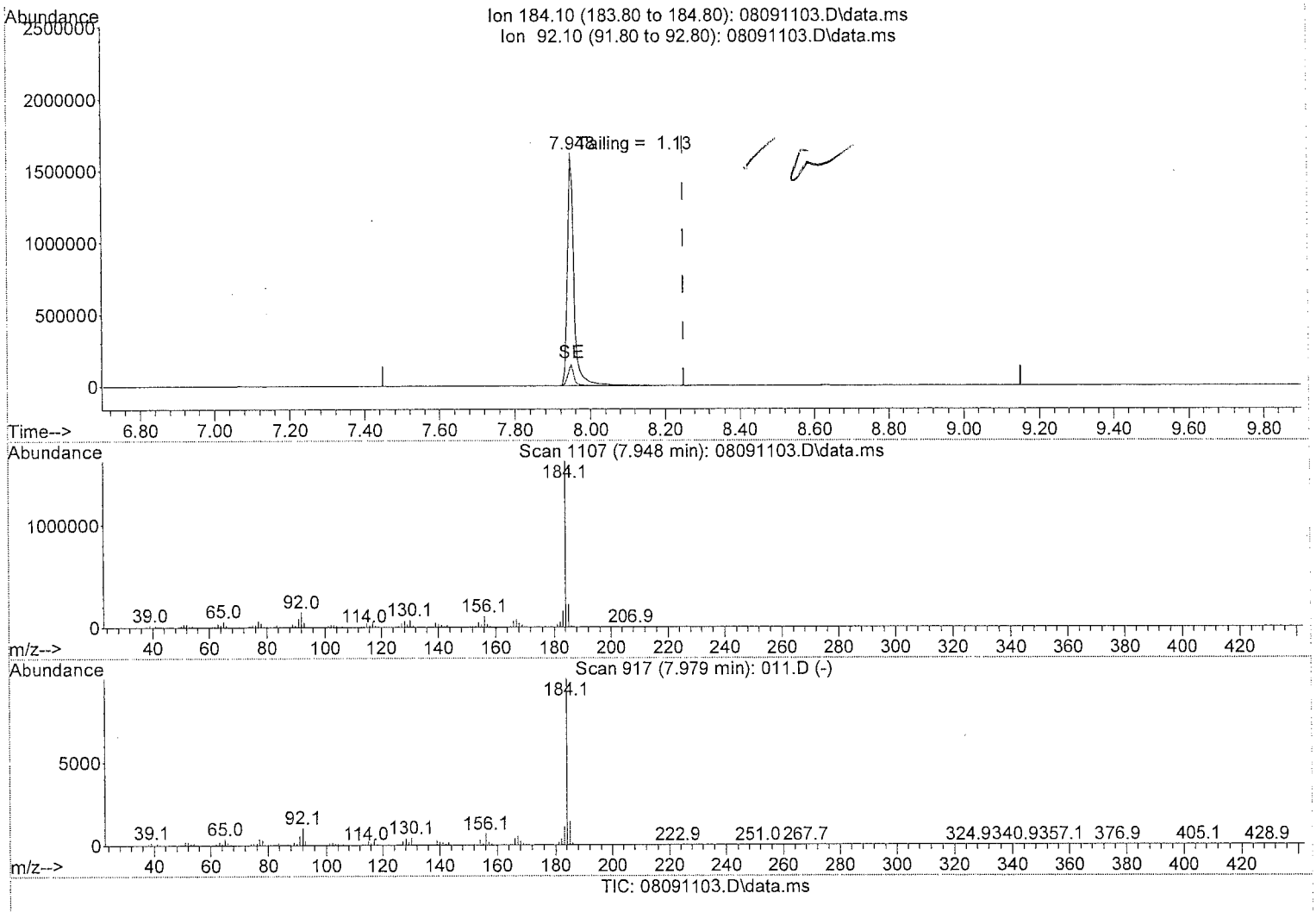
8-10-11

8/10/11

Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥080911¥
Data File : 08091103.D
Acq On : 9 Aug 2011 11:38 am
Operator : CL
Sample : 25ng TUNE pu04169
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 15:58:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Fri Jul 15 15:45:04 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥071511¥07151105.D



(2) Benzidine

7.948min (-0.300) 25.50

response 2002674

Ion	Exp%	Act%
184.10	100.00	100.00
92.10	10.20	8.58
0.00	0.00	0.00
0.00	0.00	0.00

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091105.D
Acq On : 9 Aug 2011 12:28 pm
Operator : CL
Sample : 10ug/mL14dio pu04539 Level 5 08/10/11
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:16:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.422	96	284246	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.757	152	343235	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.234	82	547144	8.56 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.469	88	150118	9.68 ug/mL	97
4) 1,4-Dichlorobenzene	5.775	146	545205	9.14 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.104	70	318189	7.20 ug/mL	100

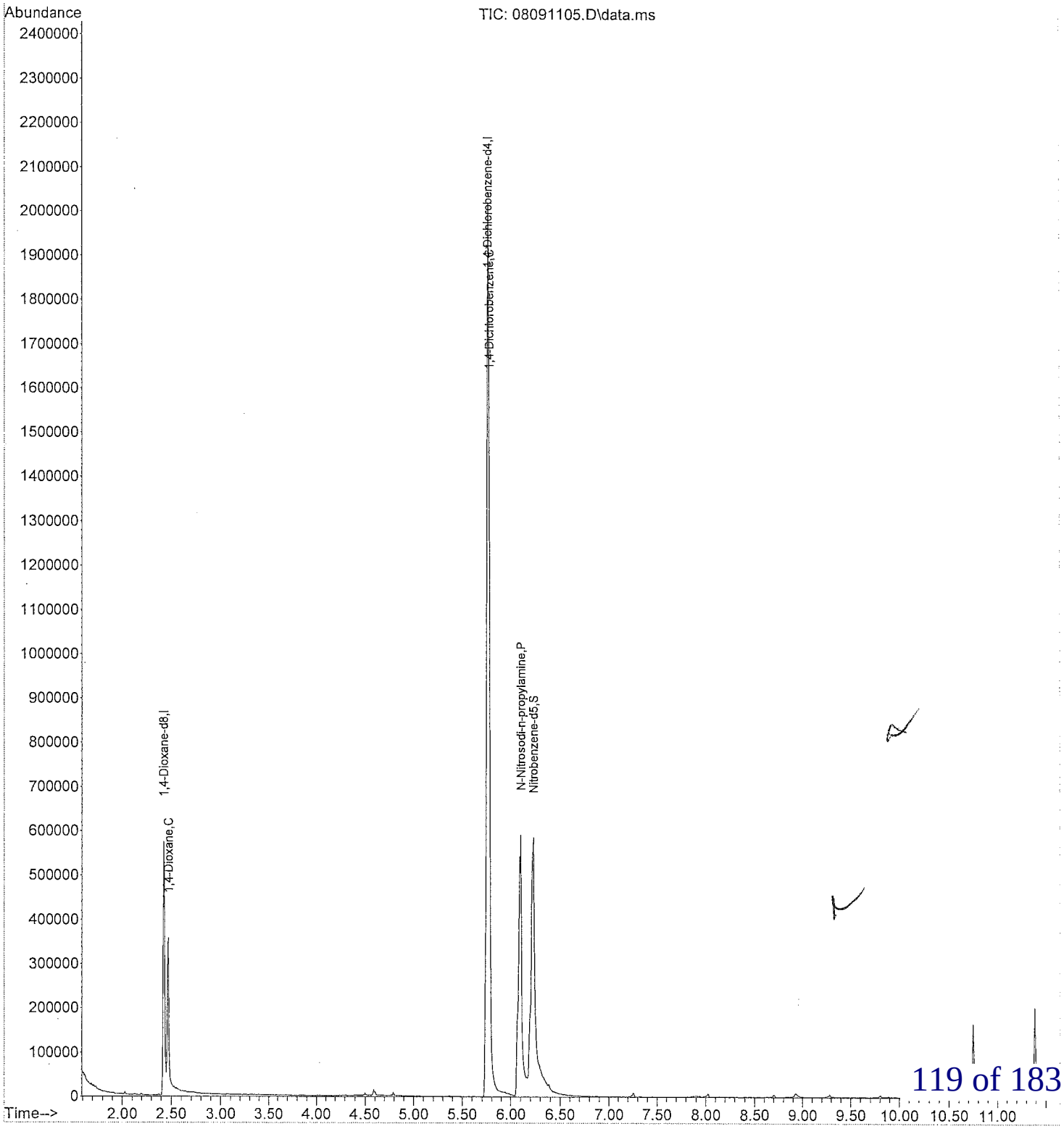
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091105.D
Acq On : 9 Aug 2011 12:28 pm
Operator : CL
Sample : 10ug/mL14dio pu04539
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:16:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 09 16:22:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.422	96	255987	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.757	152	348172	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	26119m	0.40 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.463	88	6568	0.47 ug/mL	98
4) 1,4-Dichlorobenzene	5.769	146	25491	0.42 ug/mL	91
5) N-Nitrosodi-n-propylamine	6.098	70	7000	0.16 ug/mL	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

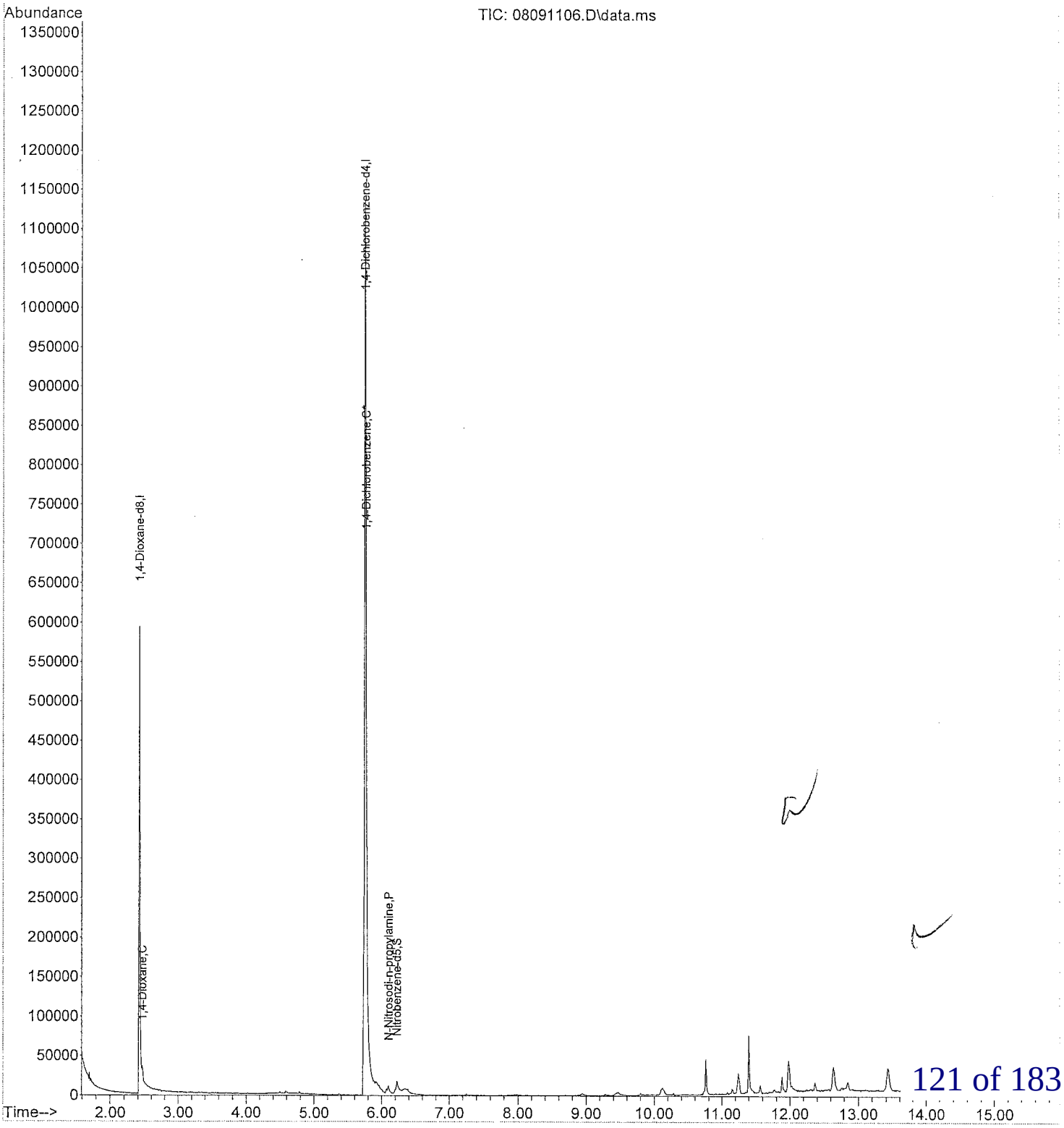
8-10-11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

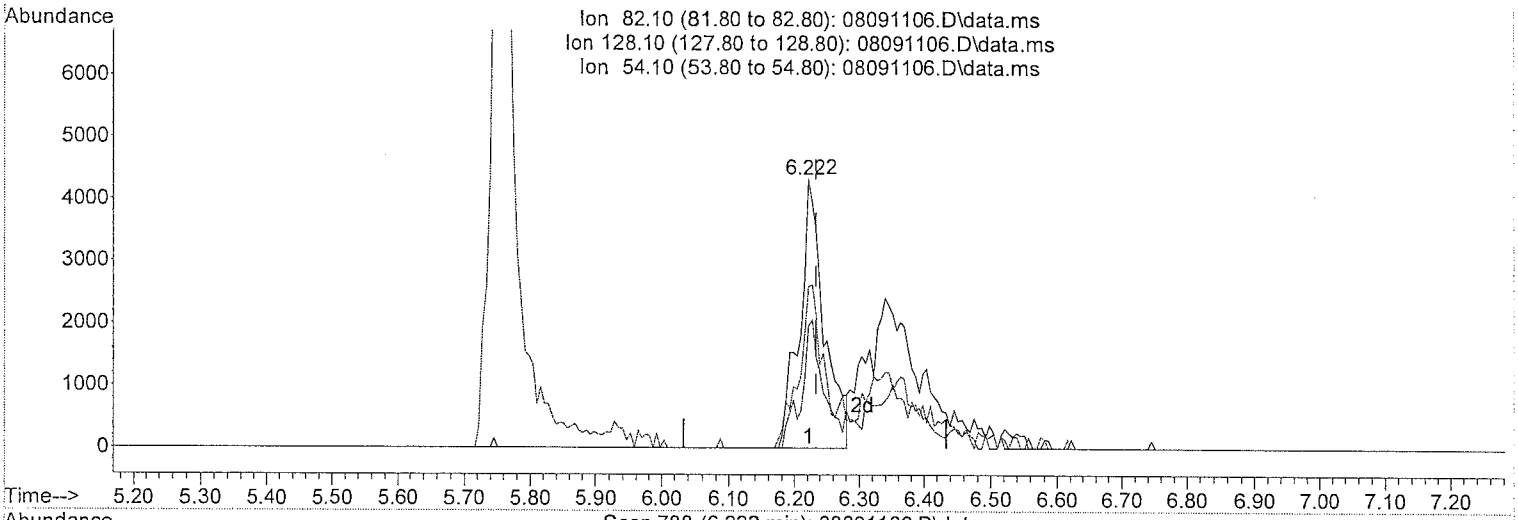
Quant Time: Aug 09 16:22:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

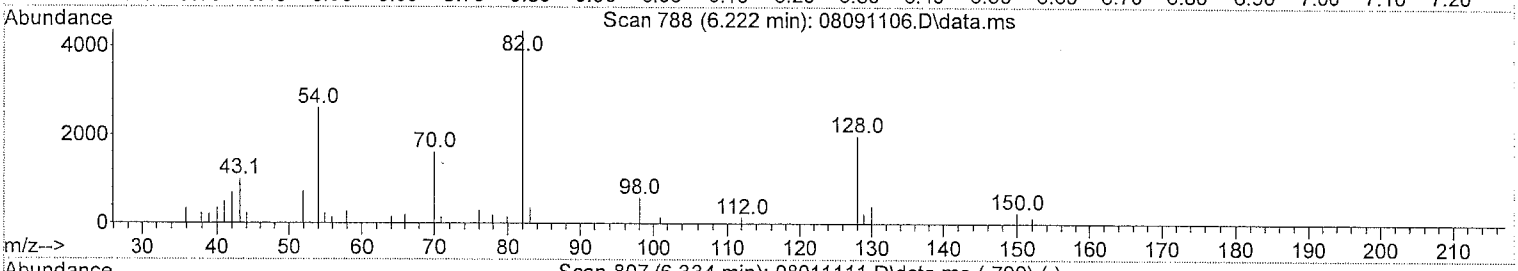


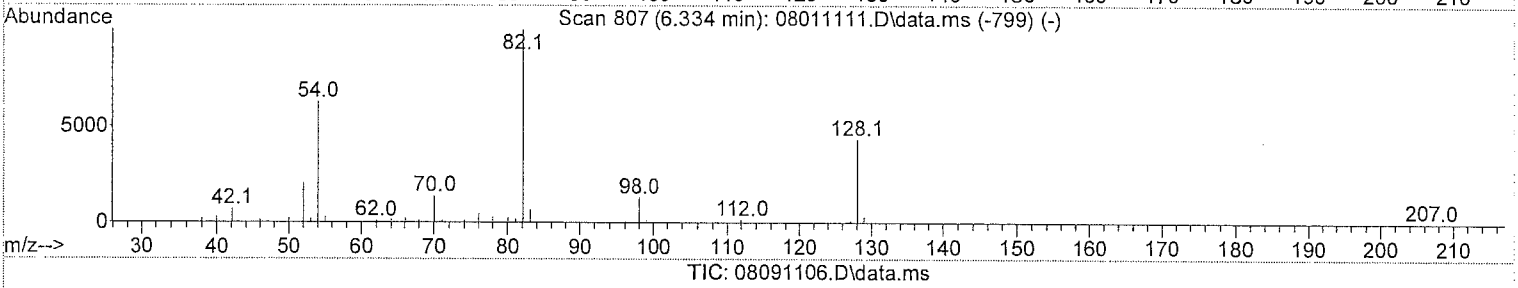
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 09 15:48:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091106.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.18 ug/mL

response 11624

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	30.50
54.10	55.70	58.04
0.00	0.00	0.00

S

B
08-10-11

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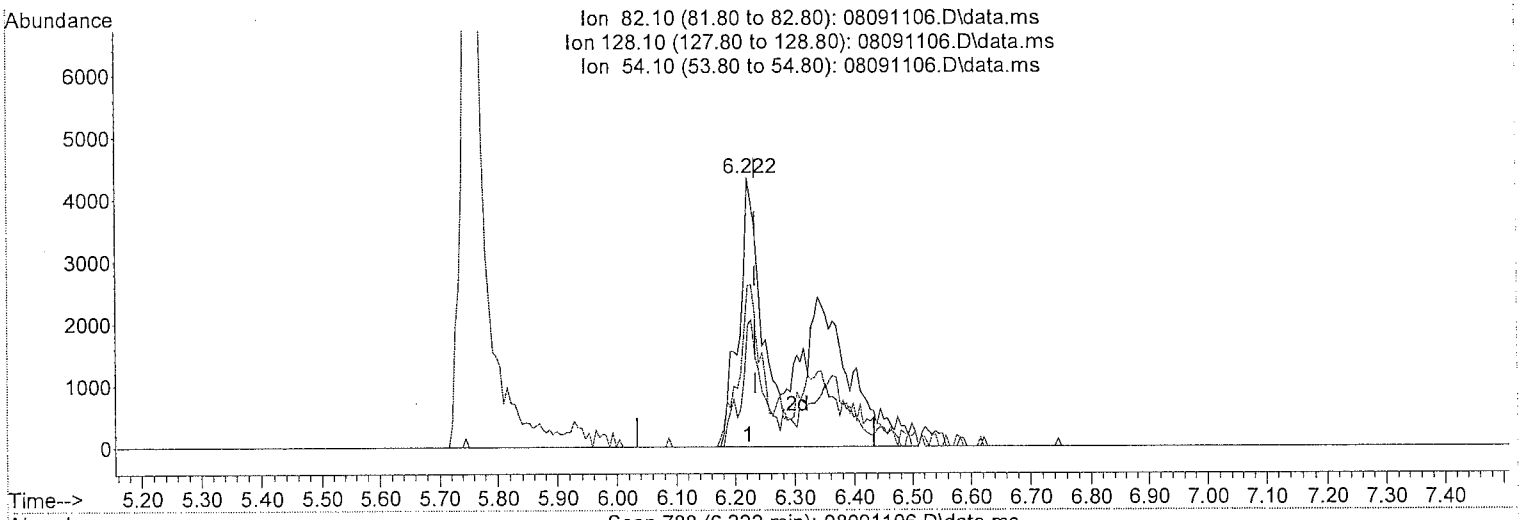
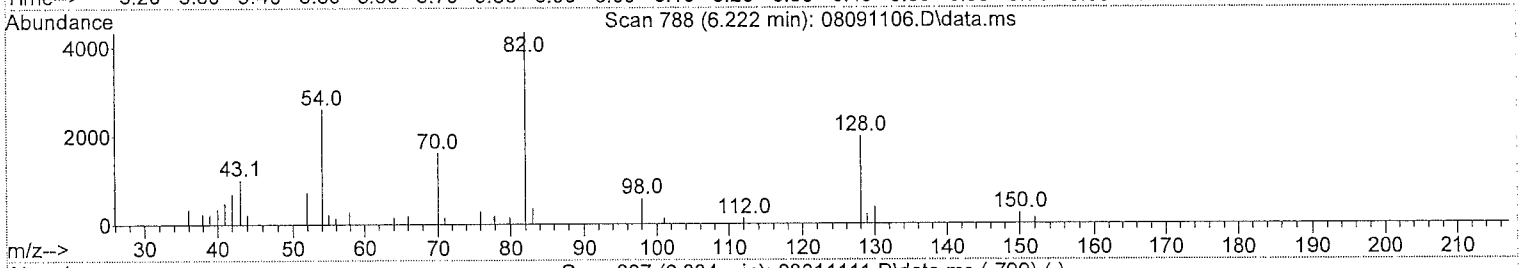
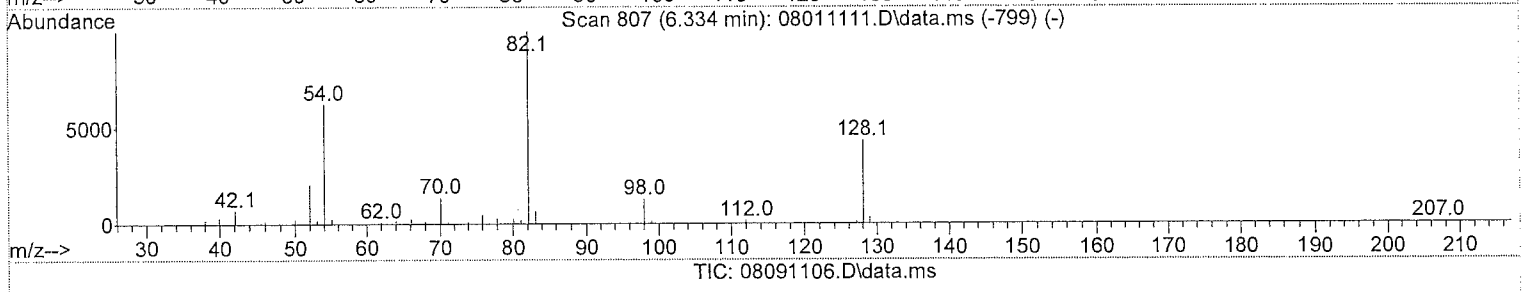
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091106.D
Acq On : 9 Aug 2011 12:49 pm
Operator : CL
Sample : 0.5ug/mL IC pu02514
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 09 15:48:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091106.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.40 ug/mL m

response 26119

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	39.76
54.10	55.70	57.80
0.00	0.00	0.00

A

08-10-11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 16:21:42 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.404	96	248581	20.00 ug/mL	-0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	339617	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	52080m	0.82 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.451	88	13767	1.01 ug/mL	95
4) 1,4-Dichlorobenzene	5.769	146	50282	0.85 ug/mL	93
5) N-Nitrosodi-n-propylamine	6.092	70	13629	0.31 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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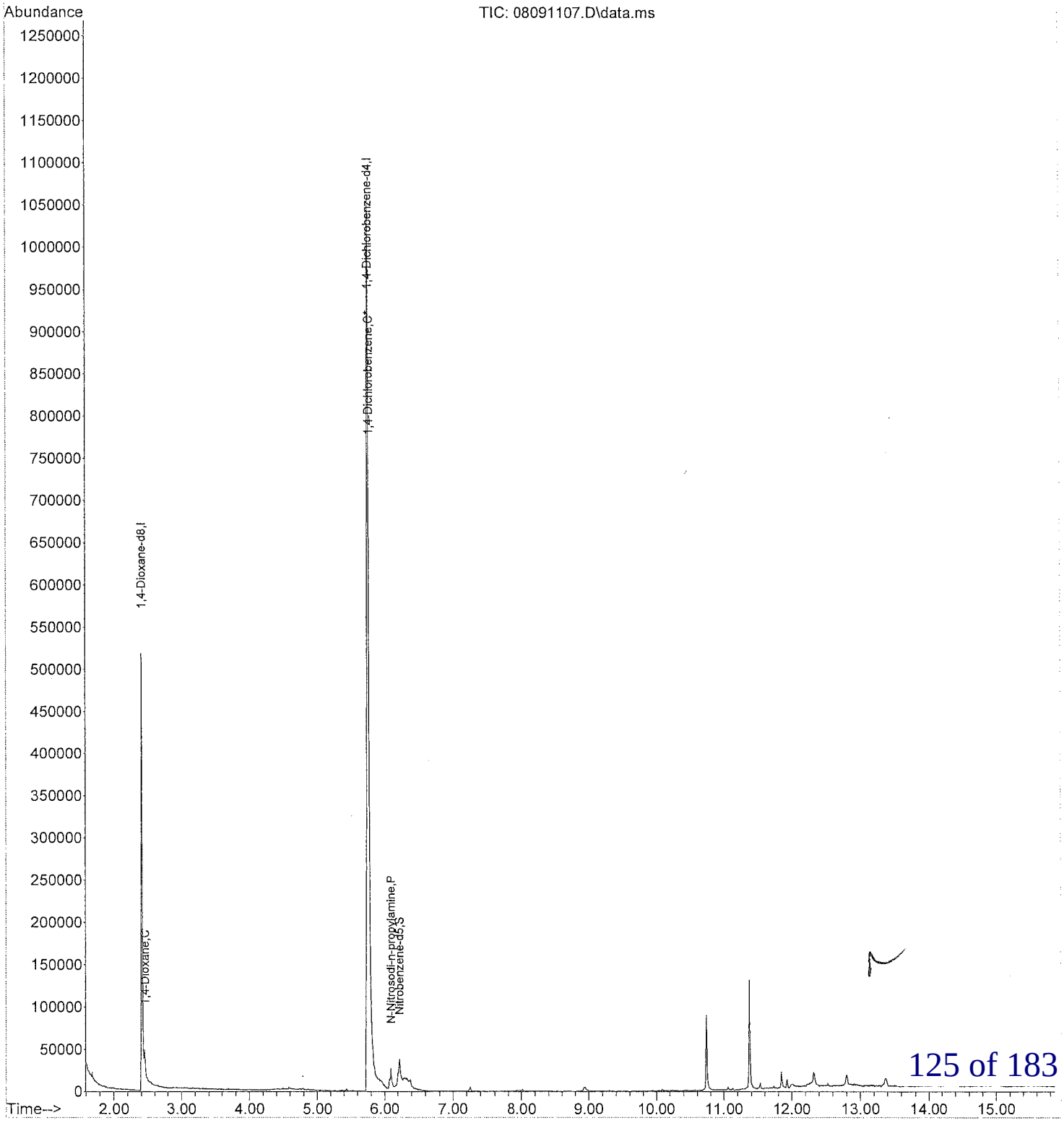
Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

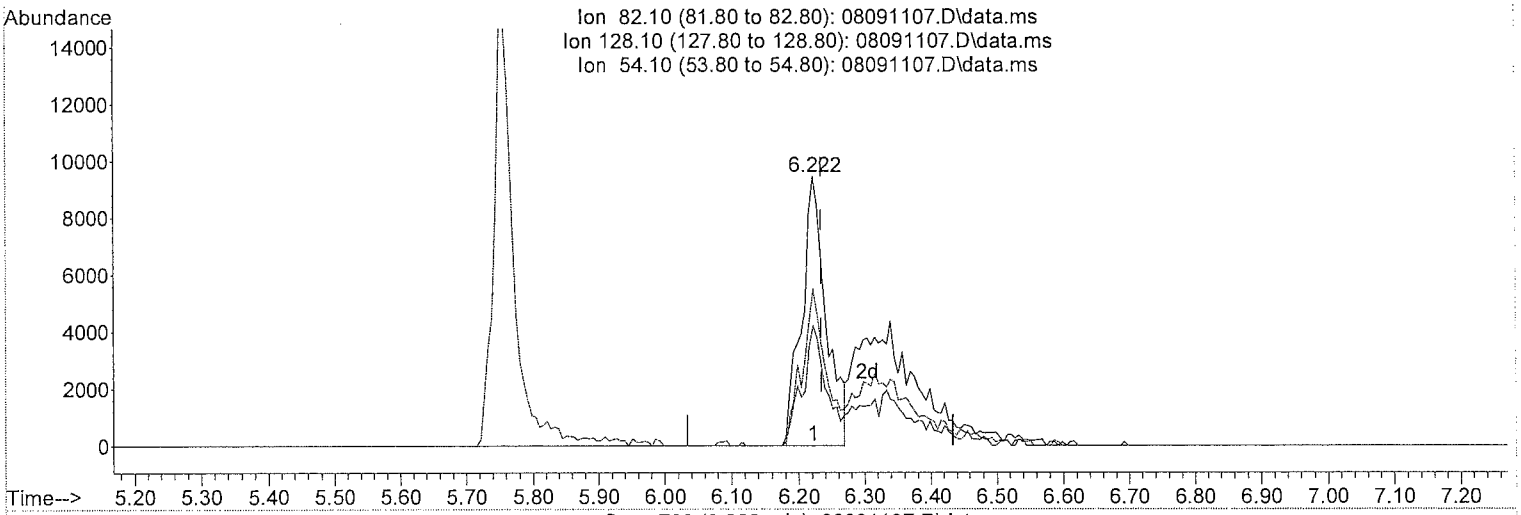
Quant Time: Aug 09 16:21:42 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

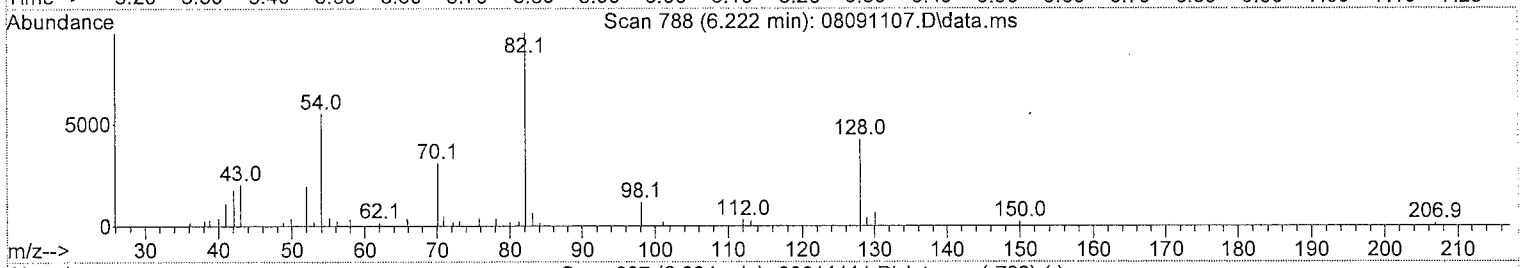


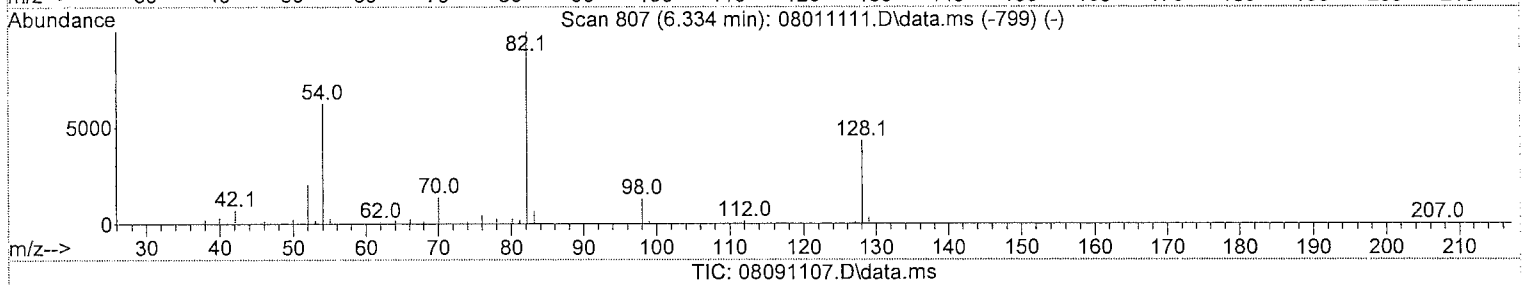
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 15:48:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091107.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.38 ug/mL

response 24251

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	43.13
54.10	55.70	55.39
0.00	0.00	0.00

S B 08/11/11

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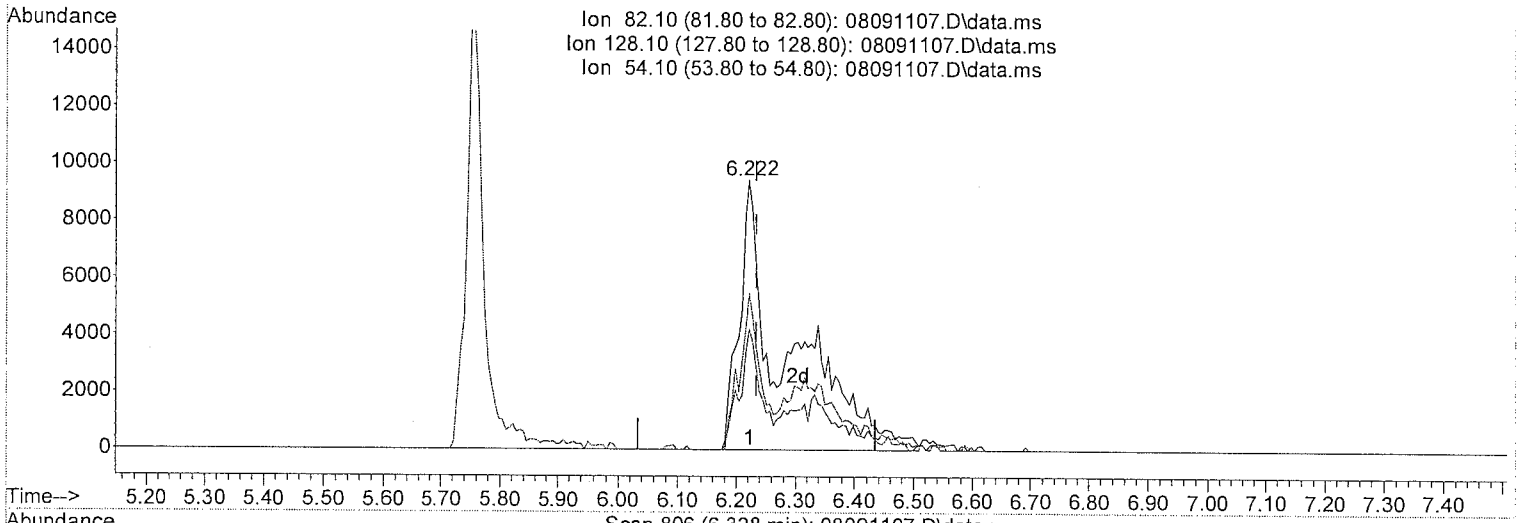
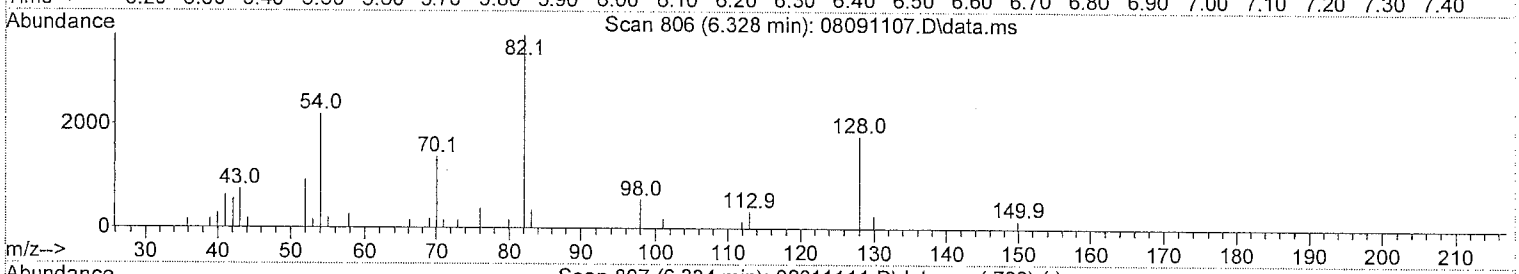
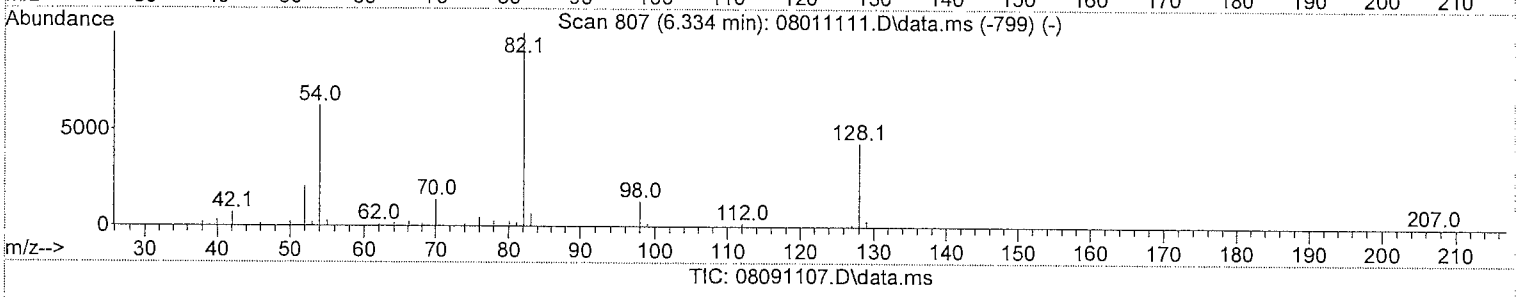
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091107.D
Acq On : 9 Aug 2011 1:15 pm
Operator : CL
Sample : 1.0ug/mL IC pu02515
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 15:48:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091107.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.82 ug/mL m

response 52080

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	43.02
54.10	55.70	57.68
0.00	0.00	0.00

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Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 16:23:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.387	96	229872	20.00 ug/mL	-0.04
3) 1,4-Dichlorobenzene-d4	5.757	152	321473	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	99886m	1.67 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.428	88	22933	1.83 ug/mL	96
4) 1,4-Dichlorobenzene	5.769	146	100836	1.81 ug/mL	96
5) N-Nitrosodi-n-propylamine	6.093	70	24678	0.60 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

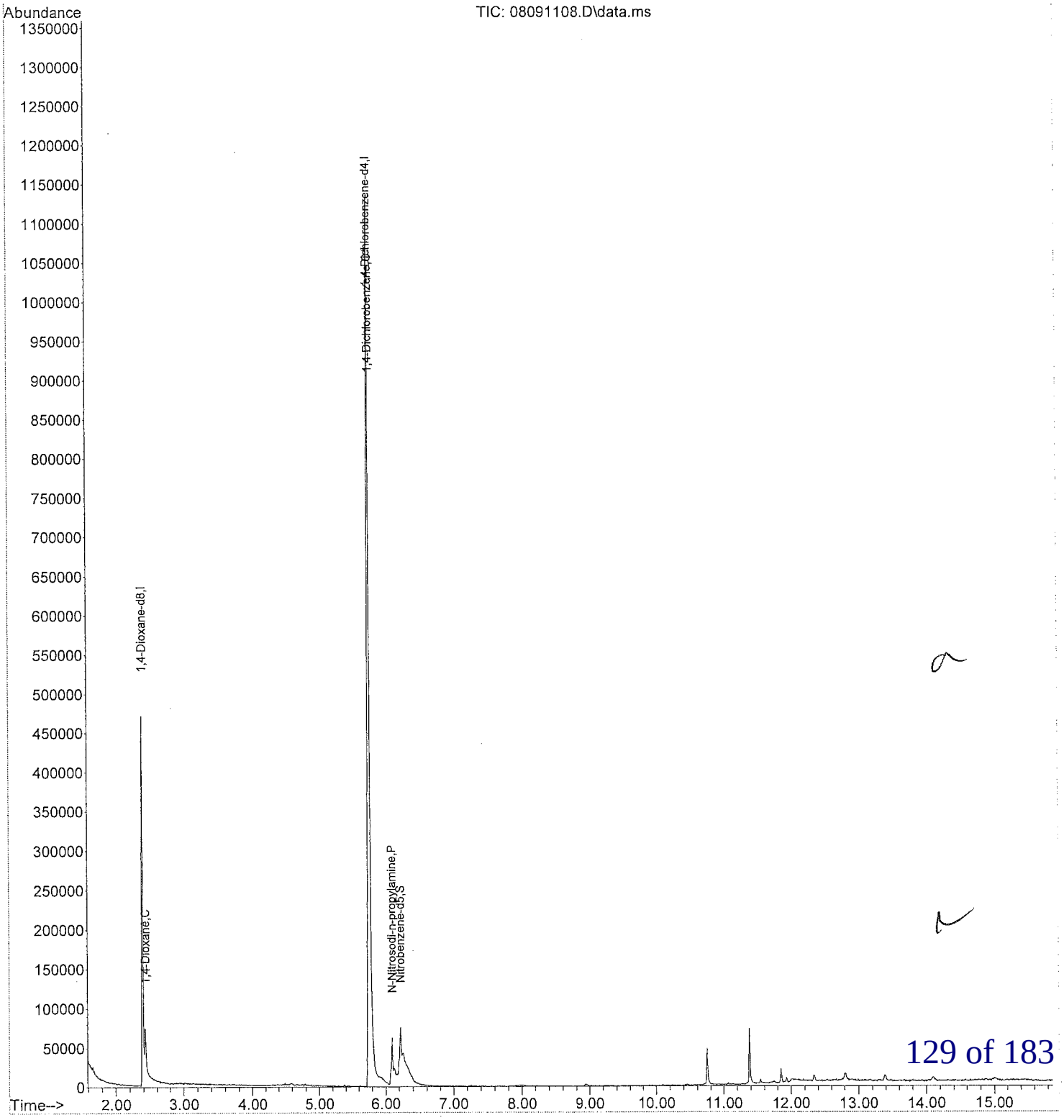
8-10-11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

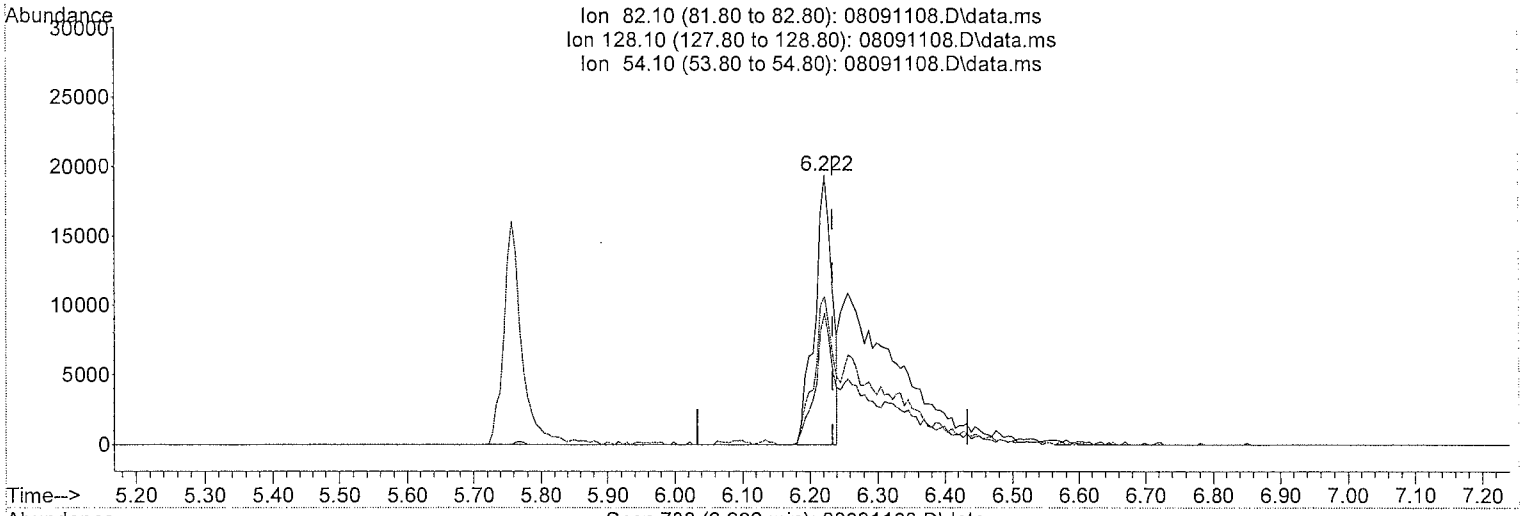
Quant Time: Aug 09 16:23:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

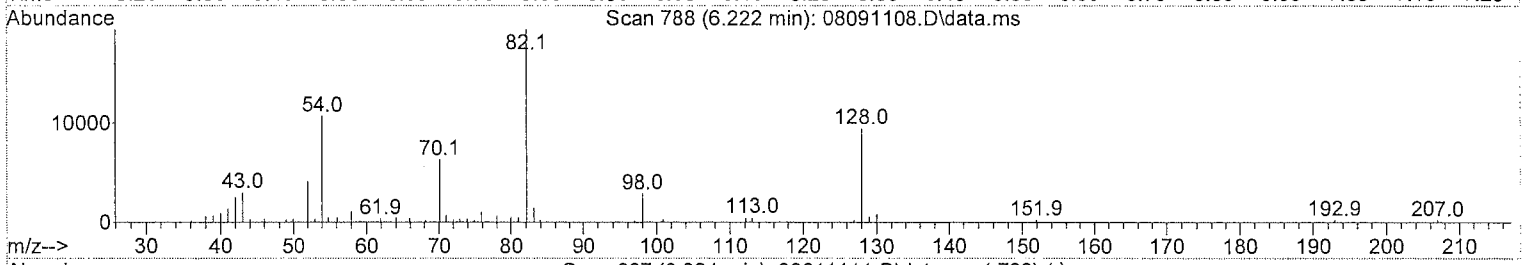


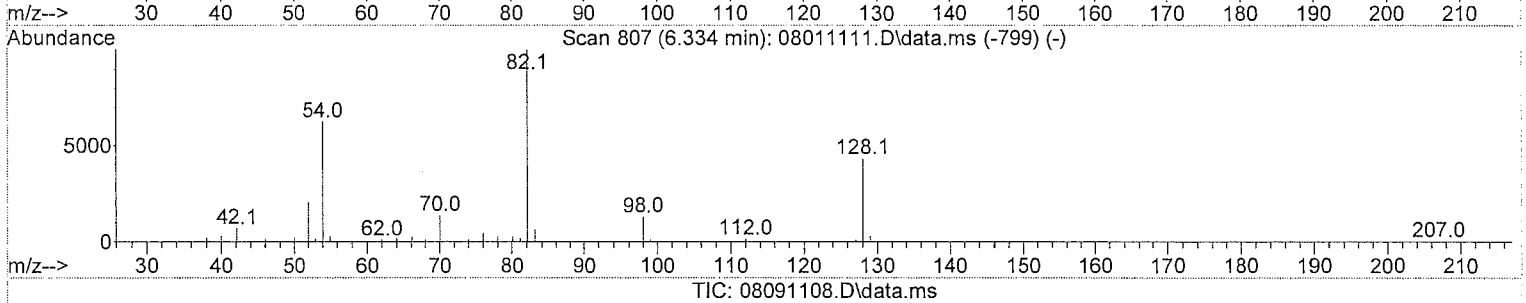
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 15:48:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091108.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 0.59 ug/mL

response 35163

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	51.88
54.10	55.70	62.97
0.00	0.00	0.00

S

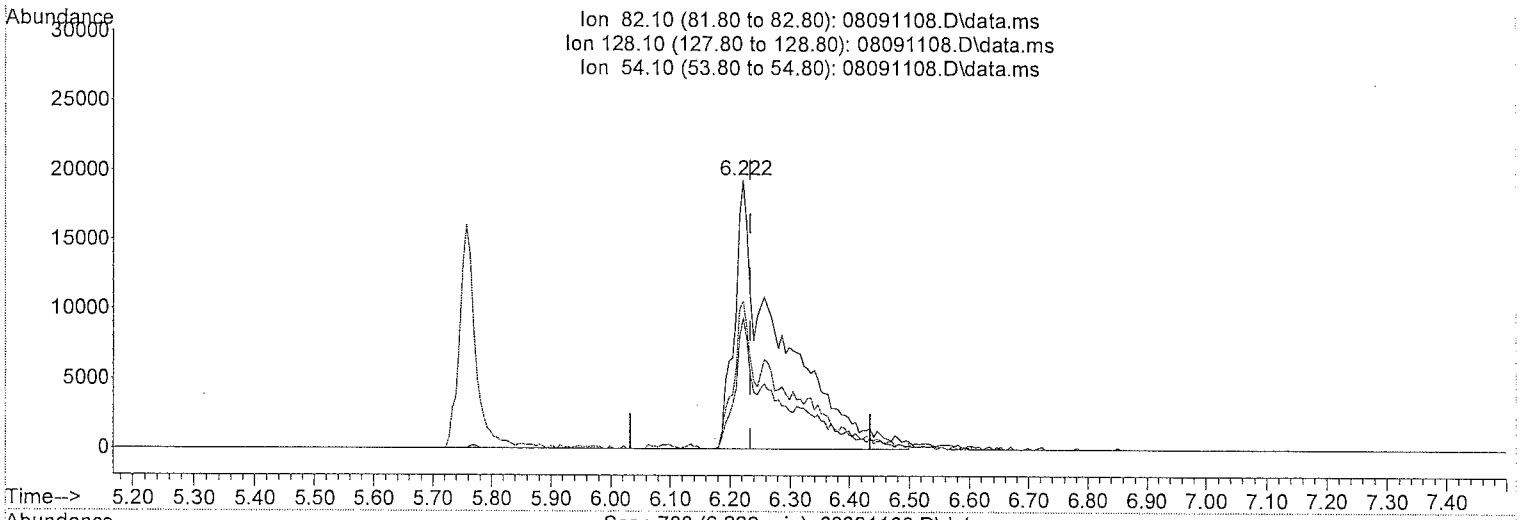
B/ 08-10-11

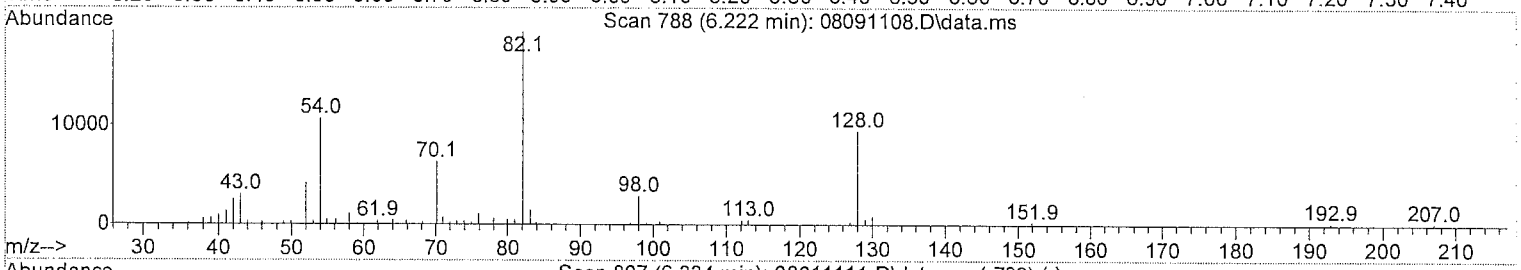
8/10/11

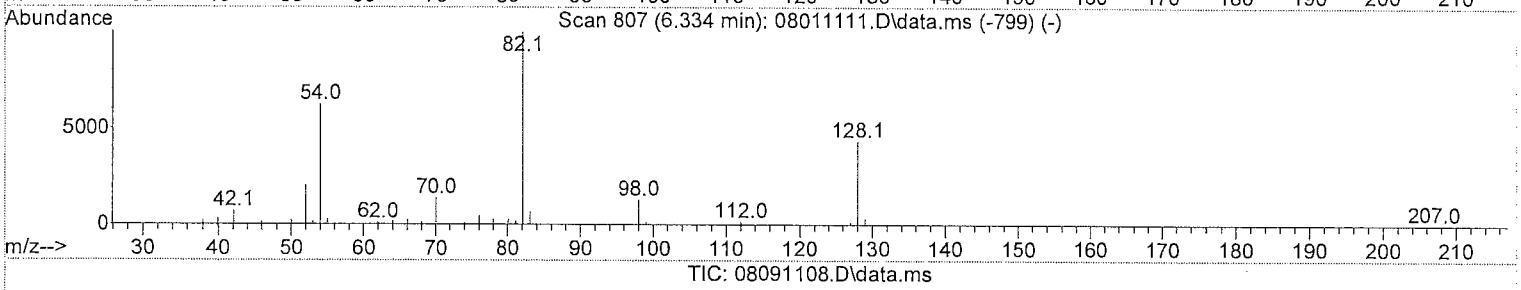
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091108.D
Acq On : 9 Aug 2011 1:41 pm
Operator : CL
Sample : 2.0ug/mL IC pu02516
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 15:48:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration







TIC: 08091108.D\data.ms

(6) Nitrobenzene-d5 (S)

6.222min (-0.012) 1.67 ug/mL m

response 99886

Ion	Exp%	Act%
82.10	100.00	100.00
128.10	44.40	45.54
54.10	55.70	56.99
0.00	0.00	0.00

A
08-10-11

8/10/11

Quantitation Report (Not Reviewed)

08/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091109.D
Acq On : 9 Aug 2011 2:07 pm
Operator : CL
Sample : 4.0 ug/mL IC pu02517
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 15:48:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.445	96	230174	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	313311	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.222	82	193696	3.32 ug/mL	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.487	88	47170	3.76 ug/mL	94
4) 1,4-Dichlorobenzene	5.775	146	194532	3.57 ug/mL	97
5) N-Nitrosodi-n-propylamine	6.092	70	91585	2.27 ug/mL	97

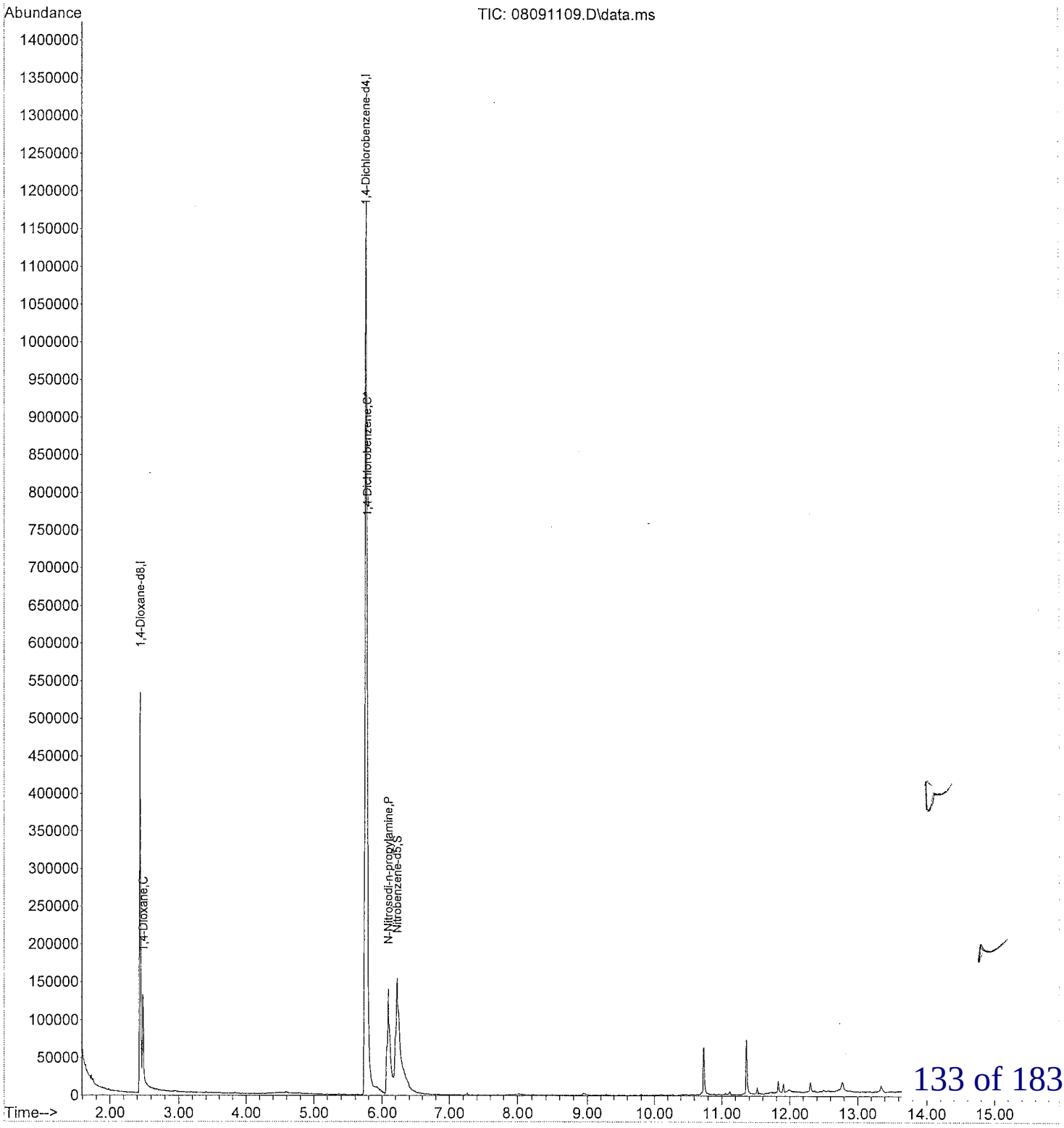
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091109.D
Acq On : 9 Aug 2011 2:07 pm
Operator : CL
Sample : 4.0 ug/mL IC pu02517
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 15:48:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

08/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091110.D
Acq On : 9 Aug 2011 2:33 pm
Operator : CL
Sample : 20 ug/mL IC pu02519
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 15:48:50 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.405	96	260729	20.00 ug/mL	-0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	327090	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.234	82	1040063	17.07 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.452	88	262518	18.45 ug/mL	97
4) 1,4-Dichlorobenzene	5.775	146	1008735	17.75 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.104	70	640262	15.20 ug/mL	98

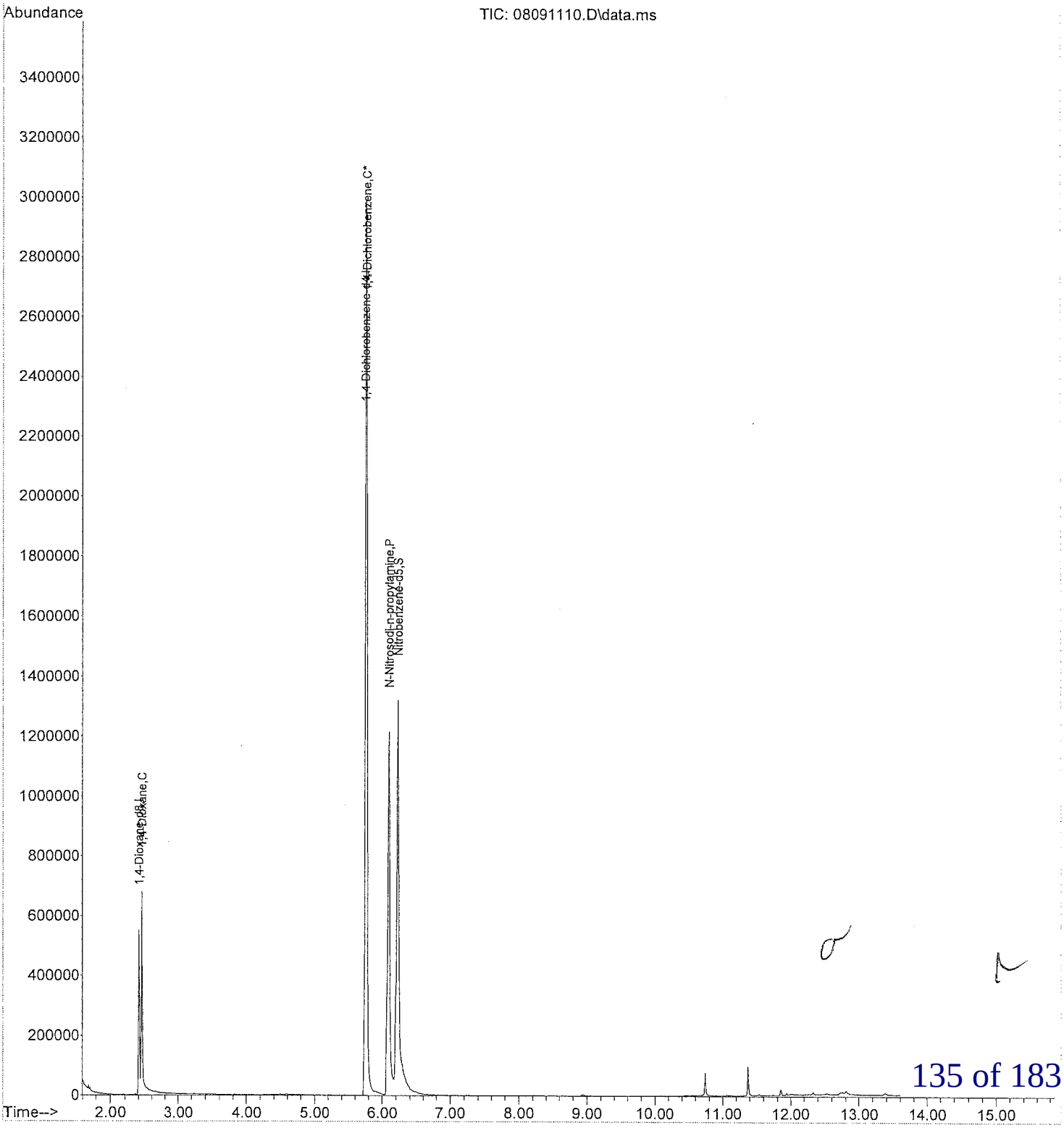
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091110.D
Acq On : 9 Aug 2011 2:33 pm
Operator : CL
Sample : 20 ug/mL IC pu02519
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 15:48:50 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091111.D
Acq On : 9 Aug 2011 2:59 pm
Operator : CL
Sample : 30ug/mL IC pu02520
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 15:48:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

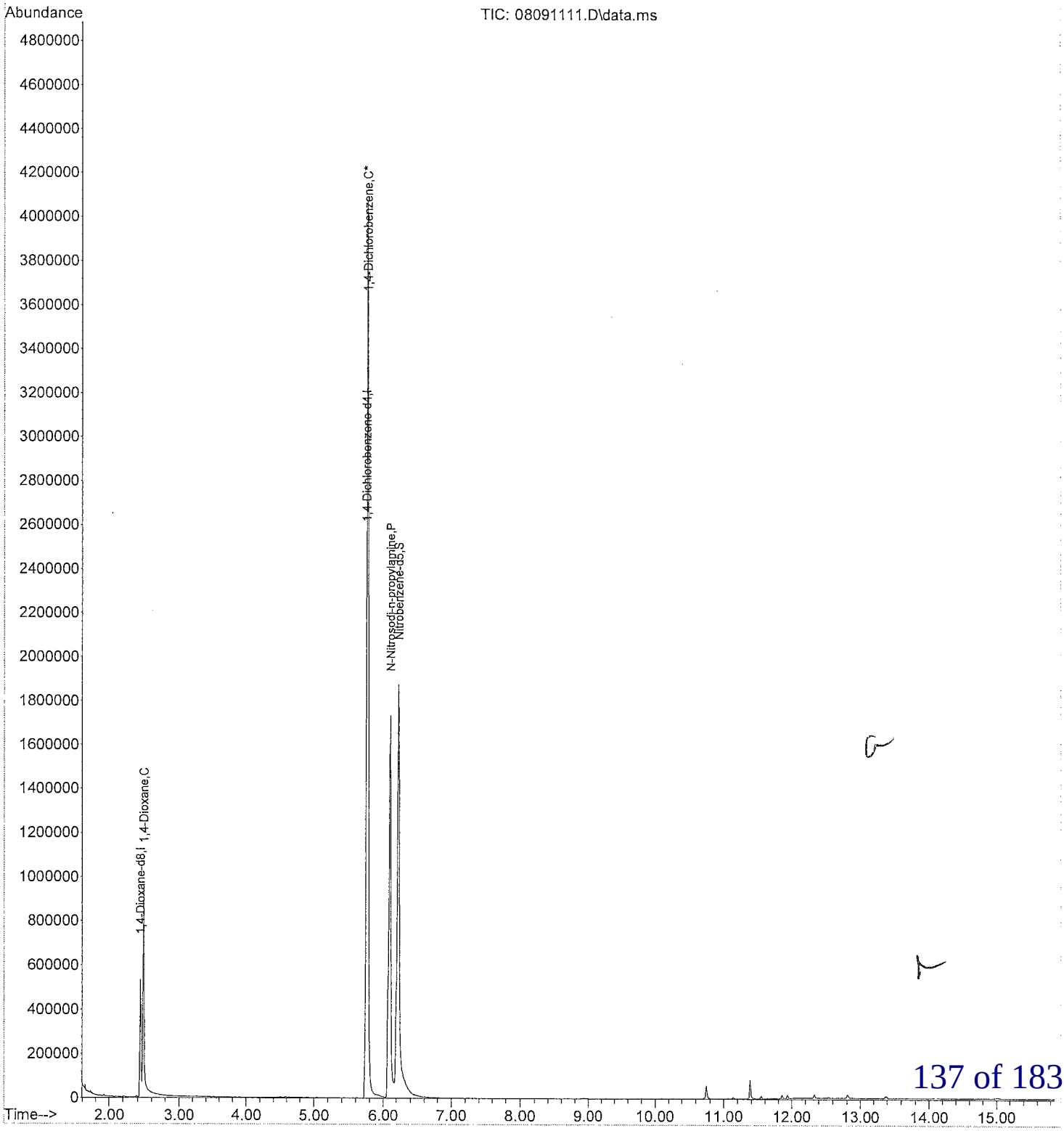
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.440	96	271327	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	5.757	152	317233	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.234	82	1499406	25.38 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.487	88	411576	27.80 ug/mL	98
4) 1,4-Dichlorobenzene	5.775	146	1427021	25.89 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.110	70	925266	22.65 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091111.D
Acq On : 9 Aug 2011 2:59 pm
Operator : CL
Sample : 30ug/mL IC pu02520
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 15:48:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

08/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091112.D
Acq On : 9 Aug 2011 3:25 pm
Operator : CL
Sample : 40ug/mL IC pu02521
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 15:49:02 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.393	96	271773	20.00 ug/mL	-0.03
3) 1,4-Dichlorobenzene-d4	5.763	152	314172	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.240	82	2029771	34.69 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.446	88	546831	36.87 ug/mL	99
4) 1,4-Dichlorobenzene	5.775	146	1899778	34.80 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.110	70	1289134	31.87 ug/mL	97

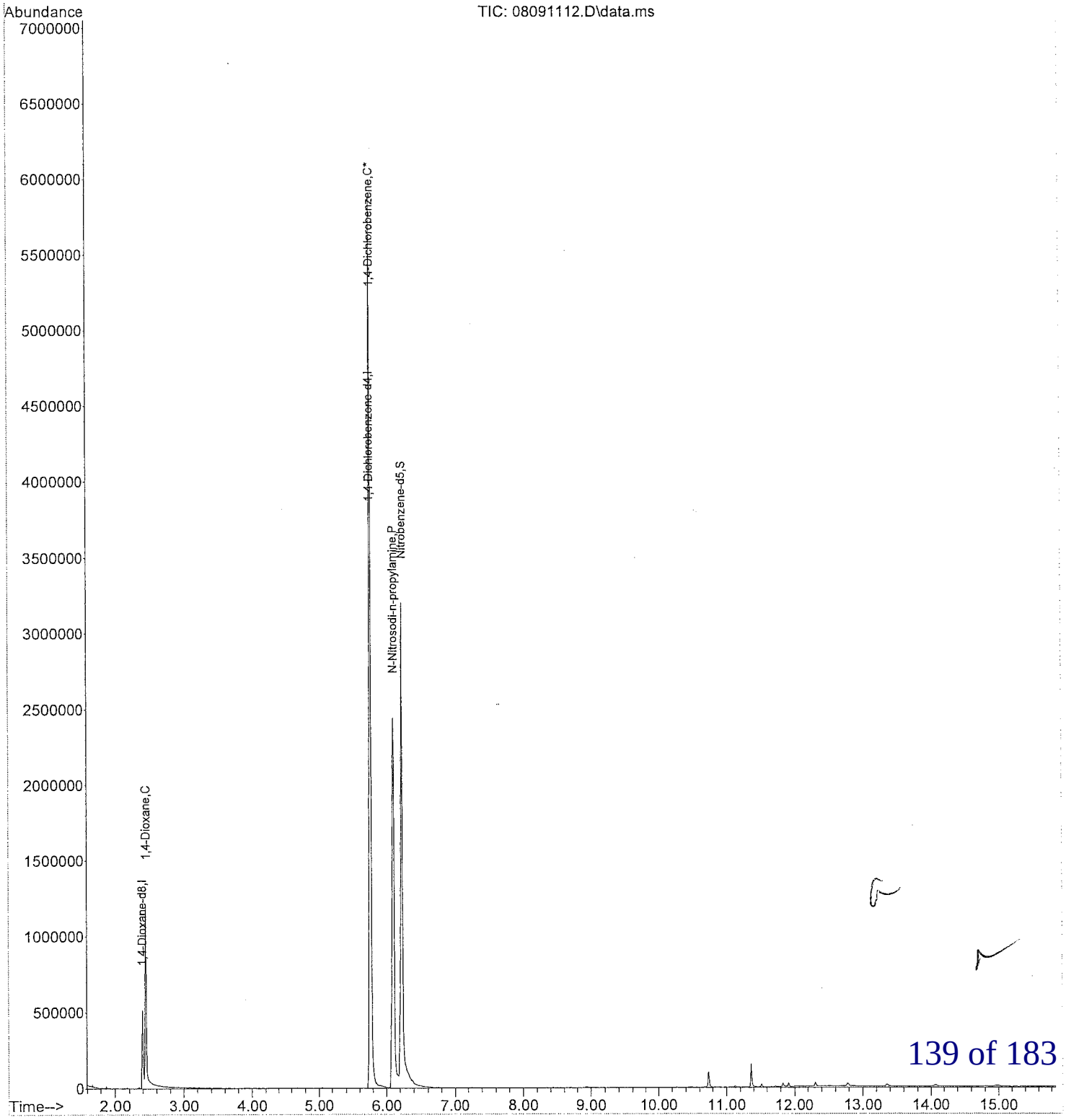
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091112.D
Acq On : 9 Aug 2011 3:25 pm
Operator : CL
Sample : 40ug/mL IC pu02521
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 15:49:02 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

8/10/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091113.D
Acq On : 9 Aug 2011 3:51 pm
Operator : CL
Sample : 100 ug/mL IC pu02522
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 09 16:16:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.357	96	318230	20.00 ug/mL	-0.06
3) 1,4-Dichlorobenzene-d4	5.763	152	298268	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.251	82	4761888	85.73 ug/mL	0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.422	88	1497003	86.21 ug/mL	99
4) 1,4-Dichlorobenzene	5.781	146	4337866	83.69 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.122	70	3181155	82.83 ug/mL	97

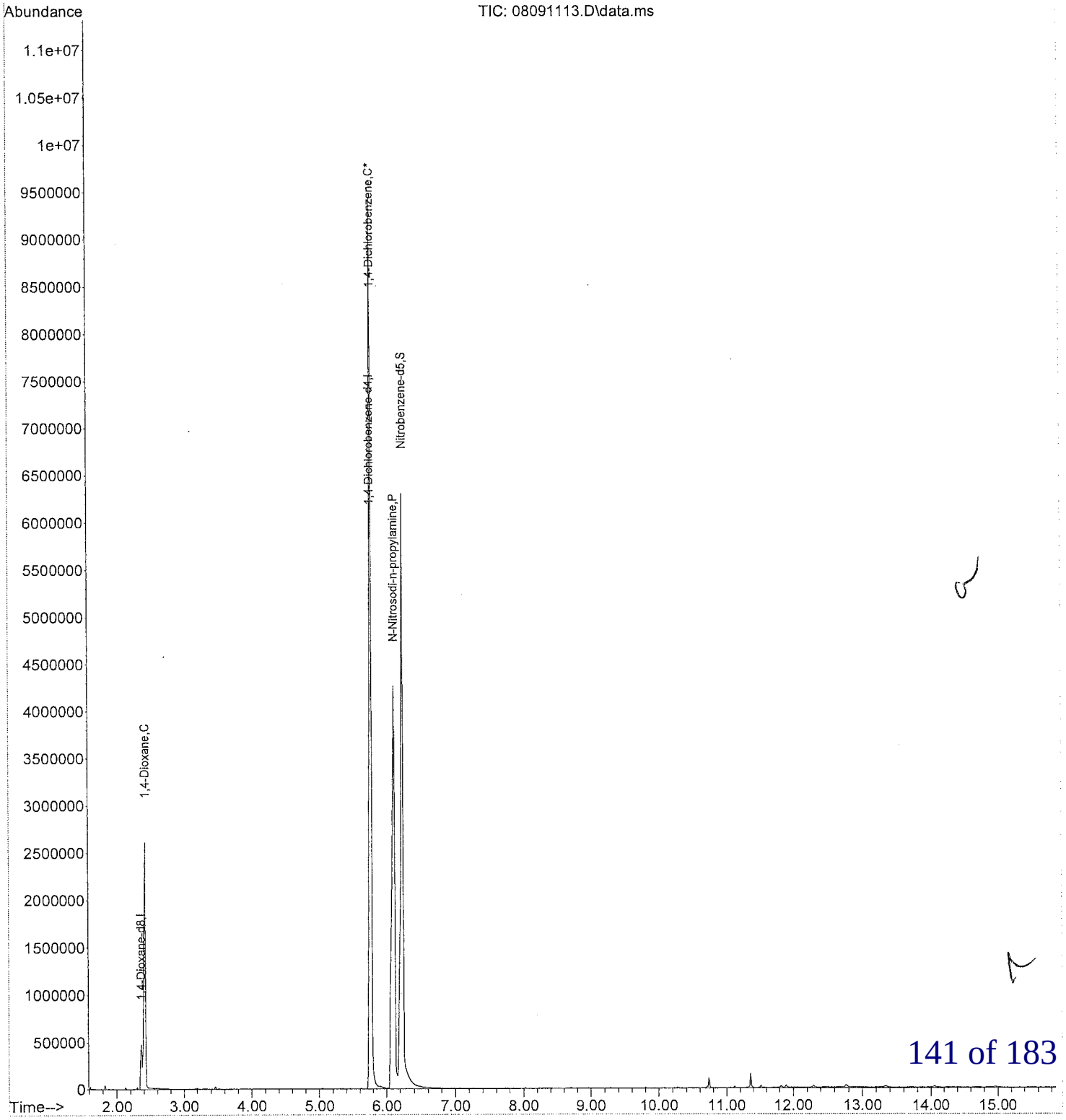
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/10/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091113.D
Acq On : 9 Aug 2011 3:51 pm
Operator : CL
Sample : 100 ug/mL IC pu02522
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 09 16:16:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Tue Aug 09 12:57:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091114.D
Acq On : 9 Aug 2011 4:17 pm
Operator : CL
Sample : qcs 10 ug/mL pu04541
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 10 15:20:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Aug 10 15:17:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.416	96	304018	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.751	152	283031	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	0.000	82	0	0.00 ug/mL	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.457	88	158607	10.23 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

08/10/11

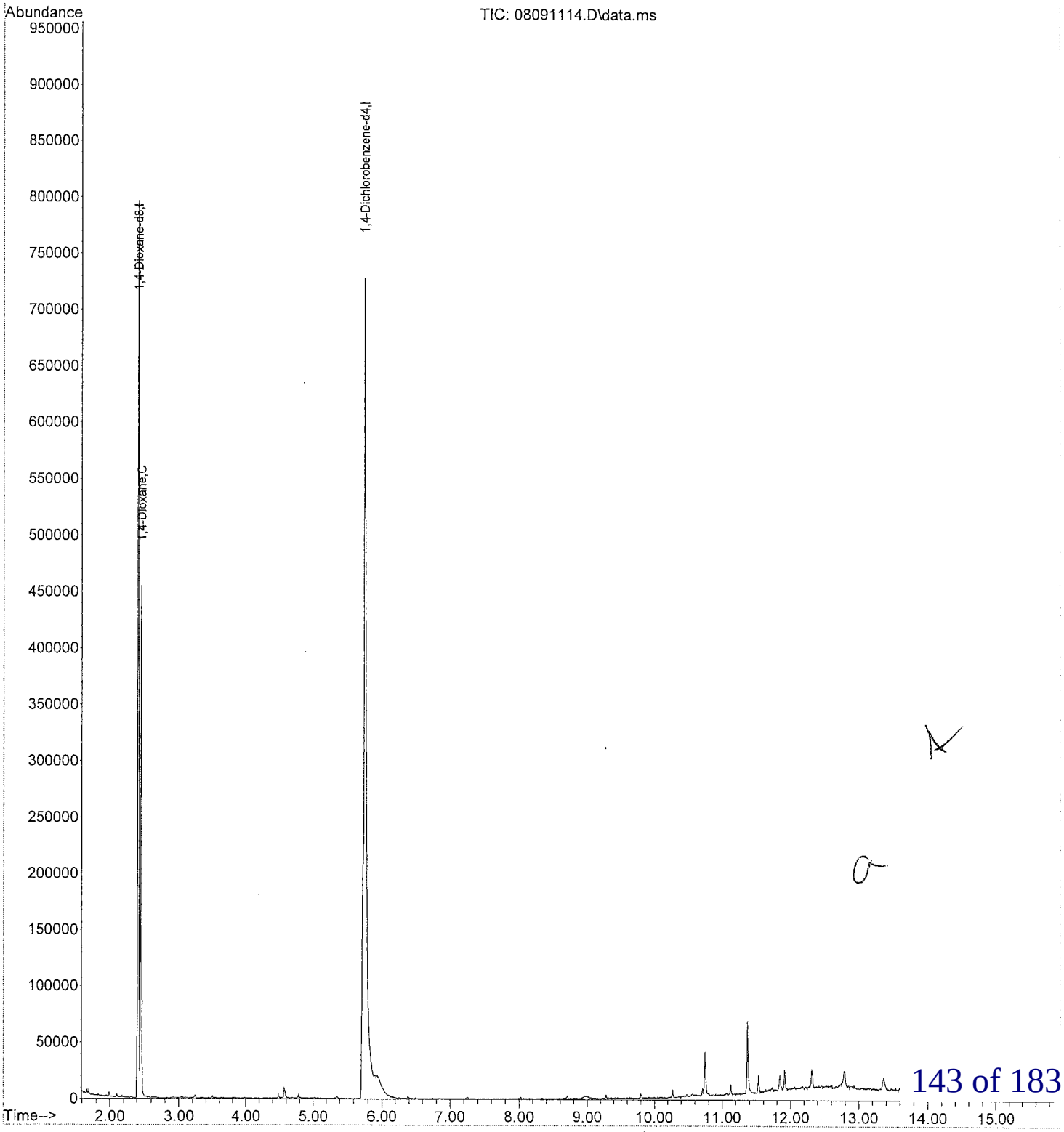
8/10/11

8/10/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥080911¥
Data File : 08091114.D
Acq On : 9 Aug 2011 4:17 pm
Operator : CL
Sample : qcs 10 ug/mL pu04541
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 10 15:20:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Aug 10 15:17:19 2011
Response via : Initial Calibration



Sample Name qcs 10 ug/mL pu04541
Data File Name 08091114.D
Data File Path D:\msdchem\1\GCMS14\DATA\080911\
Operator CL
Date Acquired 8/9/2011 16:17
Misc Info
Instrument Name GCMS14

NAME	QCS ug/mL	true value ug/mL	& Rec	LCL	UCL	PASS/FAIL
1,4-Dioxane	10.23	10.00	**102.3**	70	130	**PASS**

8/10/11

8/10/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: EPA MODIFIED 8270C
(1,4-DIOXANE)

DATE: 09/18/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-SVD-014, R.1
Effective Date: 01/18/2011
Page No.: 1 of 1

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Lanvie	Batch ID# 11I0590	Date Analyzed: 9/18/11

	Description	Yes	No	NA[1]
1.	Tune 05 09-21-11 12:06 PM 03.D			
-	DFTPP (50 ng) meets method criteria?	✓		
-	Tailing -- Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?			
2.	Calibration Curve (minimum of 5 levels)			↓
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?			
-	CCC 1,4-Dichlorobenzene ≤30%			
-	All compounds RSD ≤20% or linear/quadratic r^2≥0.99			
-	QCS recovered ± 30%			
-	Date of Initial Calibration: 08 09 11 A Instrument: C CMS 14			↓
3.	Retention Times Updated?		✓	
4.	CCVs all analytes recovered within 20% (includes CCC 1, 4-Dichlorobenzene)?	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	Internal Standard RT ± 0.5 min. from 10ppb std. in ICAL?	✓		
-	Internal Standard Areas -50% to 200% of 10ppb std. in ICAL?	✓		
-	Analyte RRTs ± 0.06 from 50ppb std. in ICAL?	✓		
5.	Method Blank extracted with batch?	✓		
-	All target analytes recovered <RL?	✓		
6.	LCS/LCSD extracted with batch?	✓		
-	Recoveries within Laboratory Limits?	✓		
-	RPDs ≤ Laboratory Limits?	✓		
7.	MS/MSD extracted with batch?			↓
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?	✓		
-	Samples analyzed within 40 days from extraction?	✓		
-	Internal Standard RT ± 0.5 min. from CCV?	✓		
-	Internal Standard Areas -50% to 200% of 10 ppb std. in ICAL?	✓		
-	Maximum of 20 samples in batch?	✓		
-	Surrogate recoveries within Historical Limits?	✓		

Comments: PU03255

Review Signatures:	Analyst: C Lanvie	Date: 9/21/11
	Reviewer: Amy Klemowski	Date: 9/21/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥091811.s
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
(X) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info		
1)	Sample	1	09181101	DB5MS14	DCM } ①
2)	Sample	2	09181102	DB5MS14	DCM
3)	Sample	3	09181103	DB5MS14	25ng TUNE pu05415
4)	Sample	4	09181104	DIOXANE	primer 14-diox
5)	Sample	5	09181105	DIOXANE	10ug/mL ccv pu05535 }
6)	Sample	6	09181106	DIOXANE	10ug/mL ccv pu05535 }
7)	Sample	7	09181107	DIOXANE	blank
8)	Sample	8	09181108	DIOXANE	dcm ①
9)	Sample	9	09181109	DIOXANE	10ug/mL ccv pu05679
10)	Sample	10	09181110	DIOXANE	11I0590-BLK1
11)	Sample	11	09181111	DIOXANE	11I0590-BS1
12)	Sample	12	09181112	DIOXANE	11I0590-BSD1
13)	Sample	13	09181113	DIOXANE	PUI0739-01
14)	Sample	14	09181114	DIOXANE	PUI0739-02
15)	Sample	15	09181115	DIOXANE	PUI0739-03
16)	Sample	16	09181116	DIOXANE	PUI0739-04
17)	Sample	17	09181117	DIOXANE	PUI0739-05
18)	Sample	18	09181118	DIOXANE	PUI0739-06
19)	Sample	19	09181119	DIOXANE	PUI0739-07
20)	Sample	20	09181120	DIOXANE	PUI0741-01
21)	Sample	21	09181121	DIOXANE	PUI0763-04
22)	Sample	22	09181122	DIOXANE	PUI0765-01
23)	Sample	23	09181123	DIOXANE	PUI0765-02
24)	Sample	24	09181124	DIOXANE	PUI0738-01
25)	Sample	25	09181125	DIOXANE	PUI0849-~~02~~ 01

09/19/11

DMK 09-19-11

① cleanup Blks no printouts 09-19-11

09-21-11

IN 9-19-11

Sequence Reviewed By: [signature] Date: 9-19-11

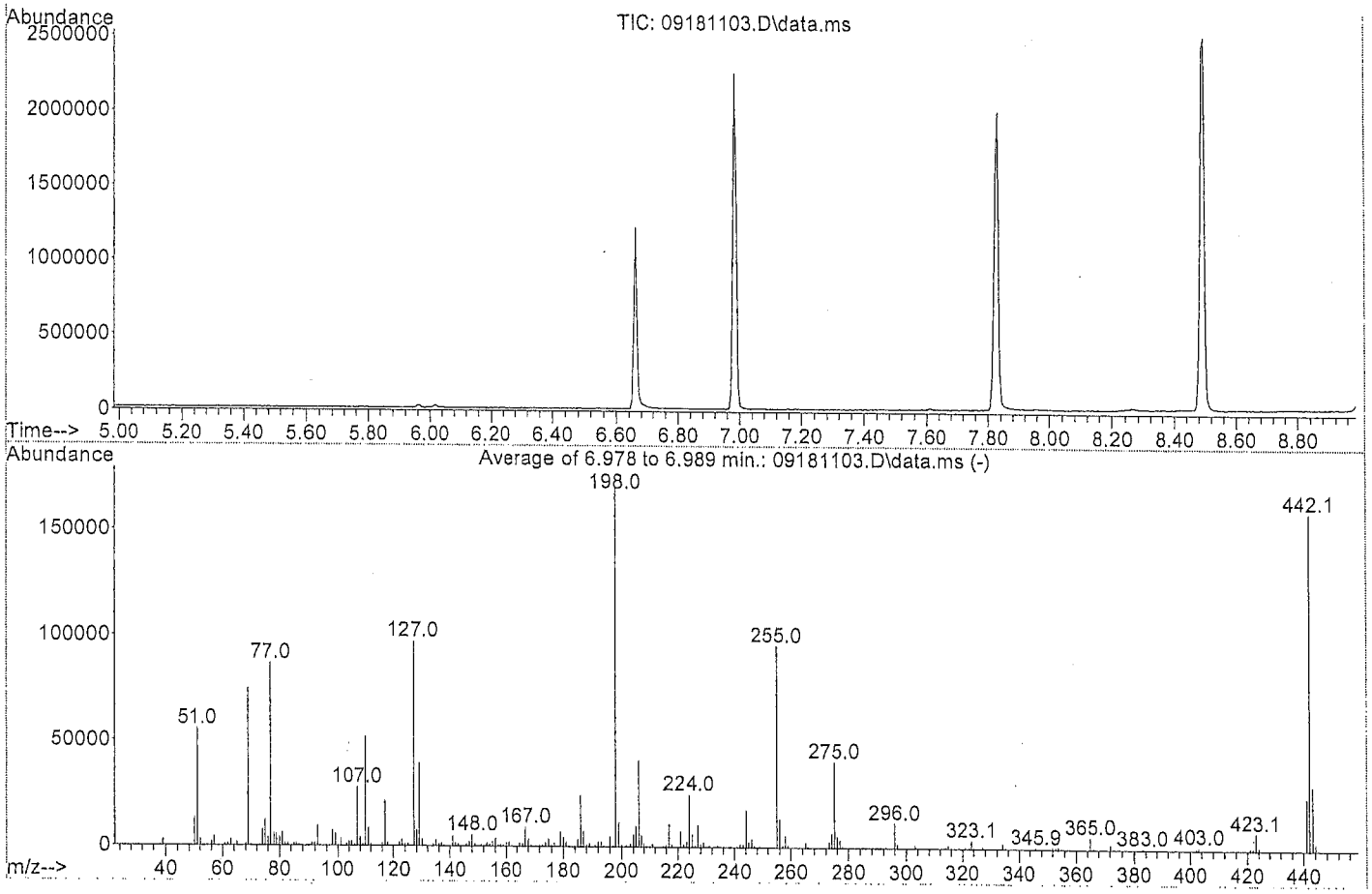
Date Analyzed: 9-19-11 Analyst: [signature] Date Run: 9-18-11

DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181103.D
Acq On : 18 Sep 2011 12:06 pm
Operator : CL
Sample : 25ng TUNE pu05415
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Wed Sep 07 19:00:19 2011



AutoFind: Scans 942, 943, 944; Background Corrected with Scan 937

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.4	55218	PASS
68	69	0.00	2	1.4	1025	PASS
69	198	0.00	100	43.6	74370	PASS
70	69	0.00	2	0.4	264	PASS
127	198	40	60	57.1	97237	PASS
197	198	0.00	1	0.3	576	PASS
198	198	100	100	100.0	170437	PASS
199	198	5	9	6.6	11234	PASS
275	198	10	30	23.7	40467	PASS
365	198	1	100	3.3	5618	PASS
441	443	0.01	100	80.7	24459	PASS
442	198	40	100	93.7	159677	PASS
443	442	17	23	19.0	30324	PASS

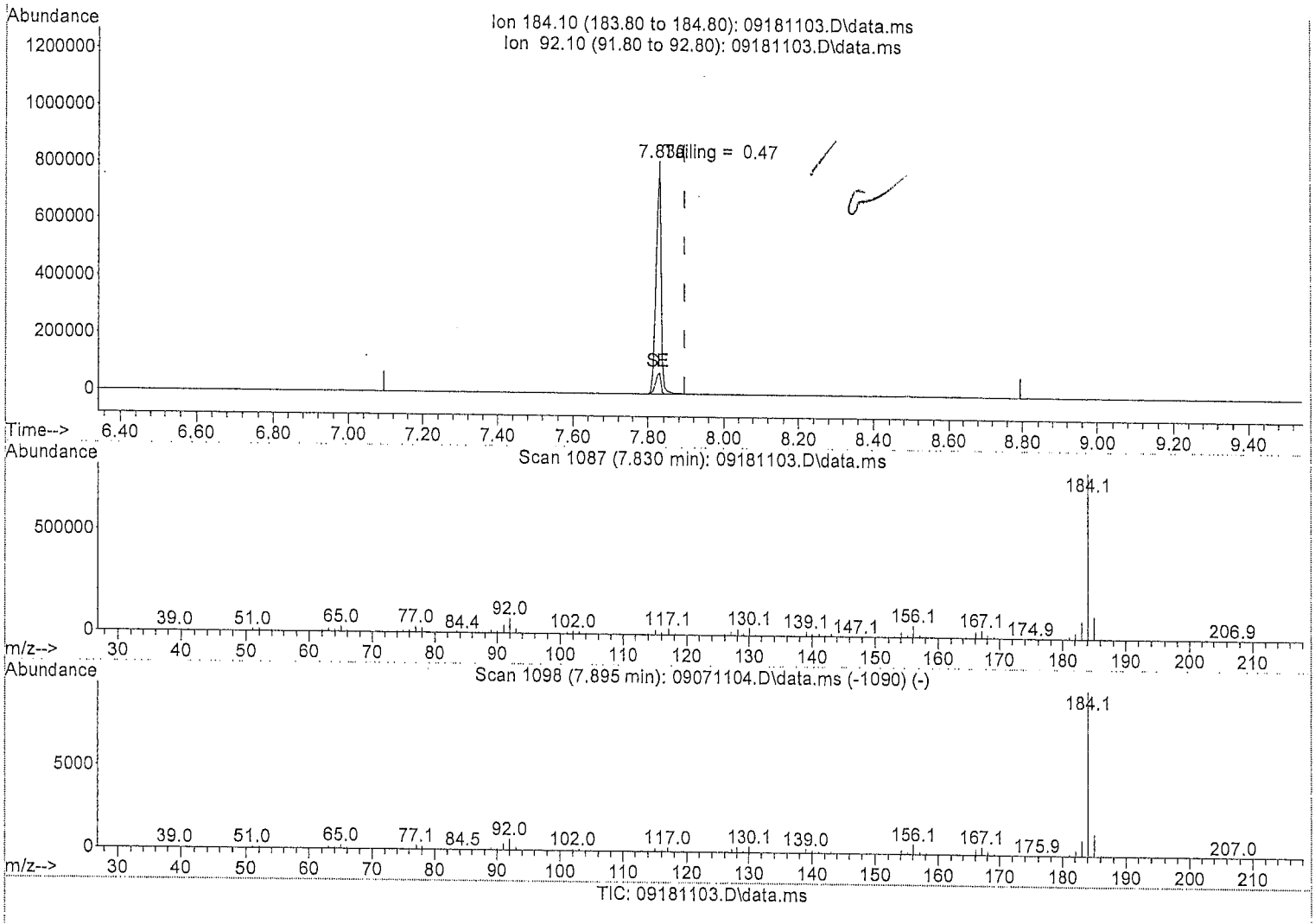
09-21-11

9/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181103.D
Acq On : 18 Sep 2011 12:06 pm
Operator : CL
Sample : 25ng TUNE pu05415
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 21 13:33:54 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Wed Sep 07 19:00:19 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥090711¥09071104.D



(2) Benzidine

7.830min (-0.065) 24.74

response 728381

Ion	Exp%	Act%
184.10	100.00	100.00
92.10	10.20	9.81
0.00	0.00	0.00
0.00	0.00	0.00

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181109.D
Acq On : 18 Sep 2011 2:25 pm
Operator : CL
Sample : 10ug/mL ccv pu05679
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 14:45:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.298	96	205484	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.686	152	184766	10.00 ug/mL	-0.01
System Monitoring Compounds					
6) Nitrobenzene-d5	6.163	82	338659	11.70 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.340	88	111413	10.6342 ug/mL	98
4) 1,4-Dichlorobenzene	5.698	146	323145	11.5219 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.039	70	220059	15.5612 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

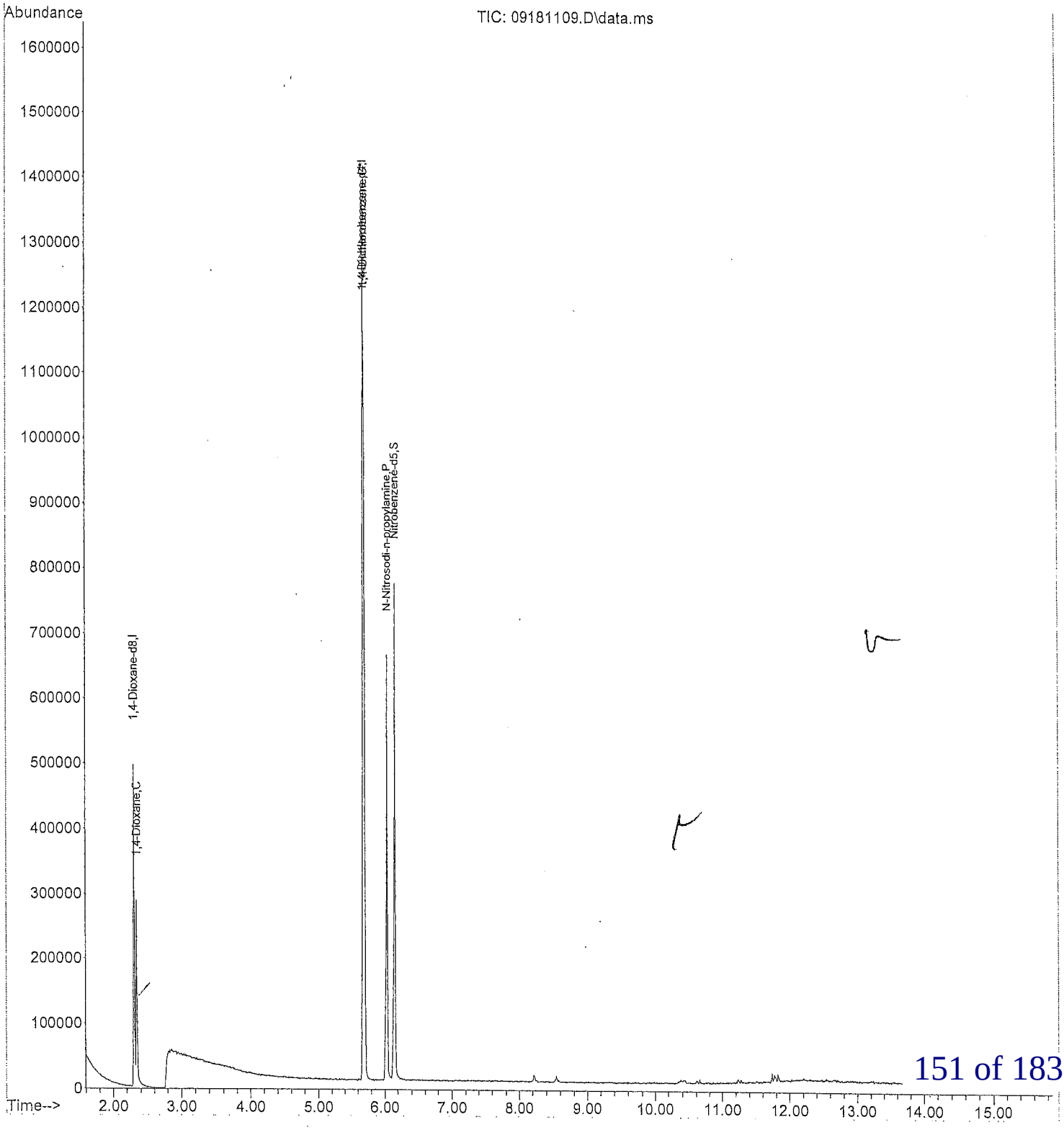
09.21-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181109.D
Acq On : 18 Sep 2011 2:25 pm
Operator : CL
Sample : 10ug/mL ccv pu05679
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 14:45:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



080911A.M Sun Sep 18 14:45:50 2011 GCMS14

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 080911A.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Sep 12 13:18:48 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.216	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.257	1.019	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	5.698	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	5.716	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.045	1.061	A	1	A	B
6	S	Nitrobenzene-d5	82	6.169	1.083	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

080911A.M Sun Sep 18 14:45:56 2011 GCMS14

9-21-11

9/21/11

Evaluate Continuing Calibration Report

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181109.D
Acq On : 18 Sep 2011 2:25 pm
Operator : CL
Sample : 10ug/mL ccv pu05679
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 14:45:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 400%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dioxane-d8	1.000	1.000	0.0	72	0.08
2 C	1,4-Dioxane	1.020	1.084	-6.3	74	0.08
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	54	-0.01
4 C*	1,4-Dichlorobenzene	1.518	1.749	-15.2	59	-0.02
5 P	N-Nitrosodi-n-propylamine	0.765	1.191	-55.7#	69	0.00
6 S	Nitrobenzene-d5	1.567	1.833	-17.0	62	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

09.21.11

9/21/11

Sample Name 10ug/mL ccv pu05679
Data File Name 09181109.D
Data File Path D:\msdchem\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 14:25
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

Internal Standard	CCV RESPONSE	080911.m MID-POINT RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	184766	343235	171617.5	686470	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.686	5.757	5.257	6.257	PASS

09-21-11

9/21/11

Sample Name 10ug/mL ccv pu05679
Data File Name 09181109.D
Data File Path D:\msdchem\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 14:25
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.m	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.298					
	1,4-Dioxane	2.340	1.018	1.019	0.419	1.619	PASS
IS	1,4-Dichlorobenzene-d4	5.686					
	1,4-Dichlorobenzene	5.698	1.002	1.003	0.403	1.603	PASS
	N-Nitrosodi-n-propylamine	6.039	1.062	1.060	0.46	1.66	PASS
	Nitrobenzene-d5	6.163	1.084	1.083	0.483	1.683	PASS

9-21-11

9/21/11

Sample Name 10ug/mL ccv pu05679
Data File Name 09181109.D
Data File Path D:\msdchem\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 14:25
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL14dio pu04539
08091105.D
D:\msdchem\1\GCMS14\DATA\080911\

	Name	RT	CCV RRT Value (Target/IS)	MID-PT RRT 080911.M	AGREE W/ IN -0.06	0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.298					
	1,4-Dioxane	2.340	1.018	1.019	0.959 *	1.079 *	PASS
IS	1,4-Dichlorobenzene-d4	5.686					
	1,4-Dichlorobenzene	5.698	1.002	1.003	0.943	1.063	PASS
	N-Nitrosodi-n-propylamine	6.039	1.062	1.060	1	1.12	PASS
	Nitrobenzene-d5	6.163	1.084	1.083	1.023	1.143	PASS

* correct values
aq-21-11

Sample Name 10ug/mL ccv pu05679
Data File Name 09181109.D
Data File Path D:\msdchem\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 14:25
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05679
09181109.D
D:\msdchem\1\GCMS14\DATA\091811\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	184766	184766	92383	369532	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.686	5.686	5.186	6.186	PASS

9-21-11

9/21/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥
Method File : 091811_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Sep 19 10:53:16 2011
Response Via : Continuing Calibration

Calibration Files
1 =09181109.D

Compound	1	Avg	%RSD
1) I 1,4-Dichlorobenzen...	----------ISTD----------		
2) 1,4-Dioxane-d8	0.556	0.556	0.00

(#) = Out of Range

09.21-11

9/21/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 091811_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Sep 19 10:53:16 2011
Response Via : Continuing Calibration

Total Cpnds : 2

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,4-Dichlorobenzene-d4	152	5.686	1.000	A	0	A	B
2	1,4-Dioxane-d8	96	2.298	0.404	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

091811_D8.M Mon Sep 19 10:53:49 2011 GCMS14

9-21-11

9/21/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 091811_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Sep 19 10:53:16 2011
Response Via : Continuing Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	20	10.2	D:\MSDCHEM\1\GCMS14\DATA\091811\09181109.D
2	cc	20	10.2	D:\MSDCHEM\1\GCMS14\DATA\091811\09181109.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Sep 19 10:53 2011	Sep 19 10:52 2011	18 Sep 2011 2:25 pm
2	cc	Sep 19 10:53 2011	Sep 19 10:52 2011	18 Sep 2011 2:25 pm

091811_D8.M Mon Sep 19 10:53:56 2011 GCMS14

9-21-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181109.D
Acq On : 18 Sep 2011 2:25 pm
Operator : CL
Sample : 10ug/mL ccv pu05679
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 10:54:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.686	152	184766	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.298	96	205484	20.0000 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

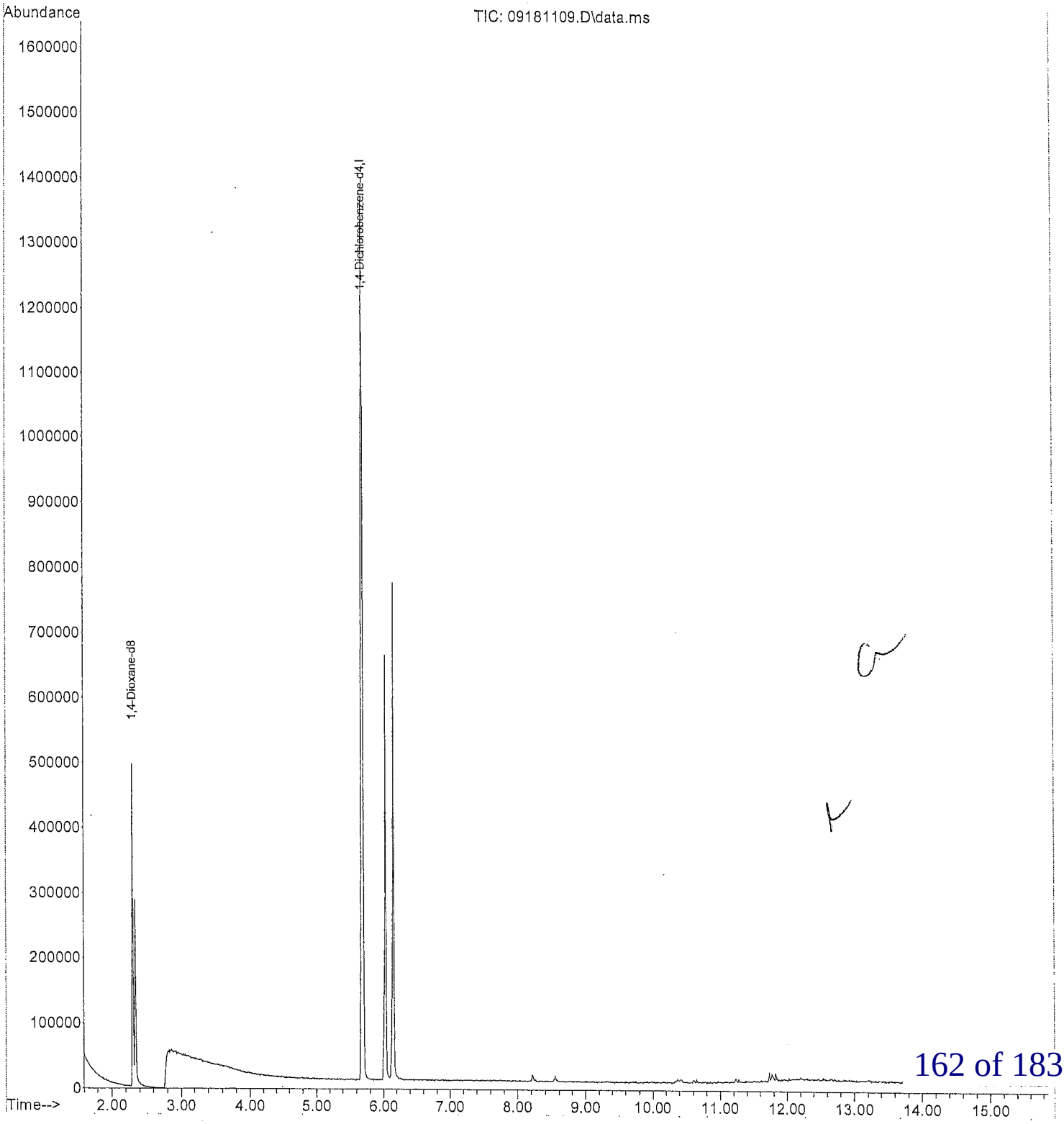
used to update
09-21-11

9/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181109.D
Acq On : 18 Sep 2011 2:25 pm
Operator : CL
Sample : 10ug/mL ccv pu05679
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 10:54:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D



Quantitation Report (Not Reviewed)

9-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181110.D
Acq On : 18 Sep 2011 2:51 pm
Operator : CL
Sample : 11I0590-BLK1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 15:26:54 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.210	96	112310	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.681	152	134987	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	400361	18.93 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.251	88	193	0.0337 ug/mL#	64
4) 1,4-Dichlorobenzene	5.669	146	138	0.0067 ug/mL#	1

no

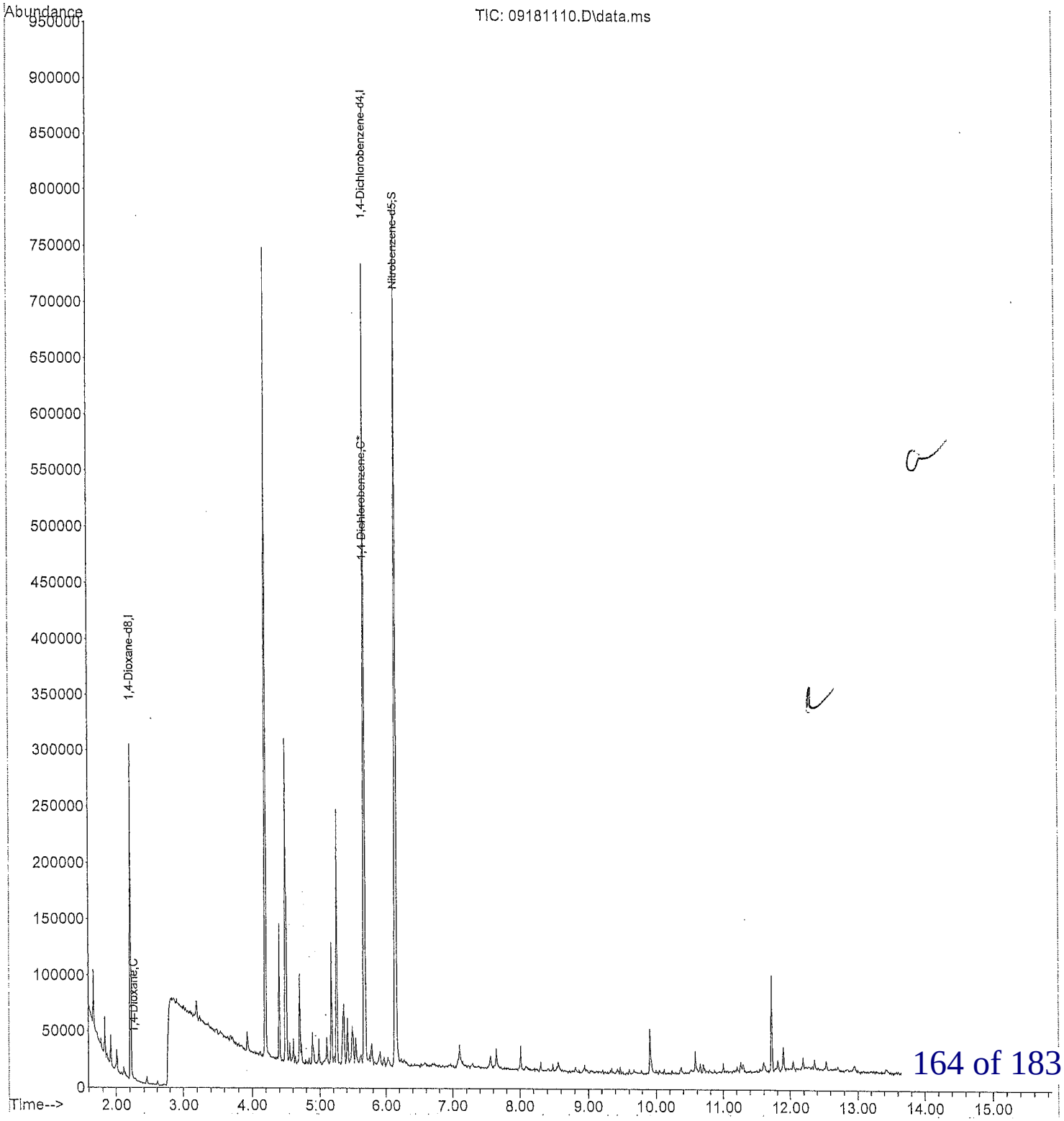
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181110.D
Acq On : 18 Sep 2011 2:51 pm
Operator : CL
Sample : 11I0590-BLK1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 15:26:54 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Sample Name 11I0590-BLK1
Data File Name 09181110.D
Data File Path D:\msdchem\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 14:51
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05679
09181109.D
D:\msdchem\1\GCMS14\DATA\091811\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	134987	184766	92383	369532	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.686	5.186	6.186	PASS

9/21/11

Quantitation Report (Not Reviewed)

09-21-11

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181110.D
Acq On : 18 Sep 2011 2:51 pm
Operator : CL
Sample : 11I0590-BLK1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 10:54:40 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	134987	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.210	96	112310	14.9624 ug/mL	98

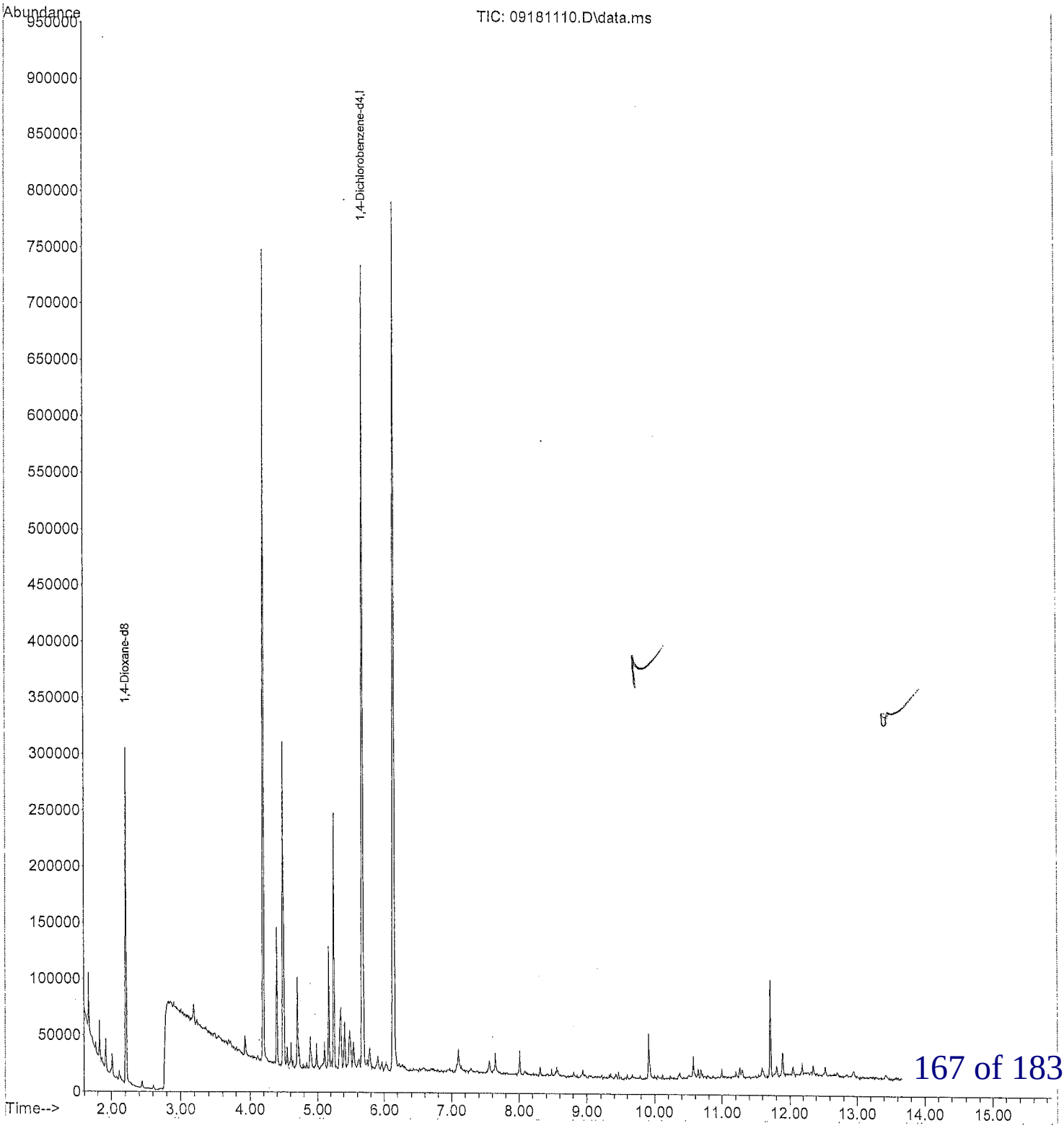
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181110.D
Acq On : 18 Sep 2011 2:51 pm
Operator : CL
Sample : 11I0590-BLK1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 10:54:40 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D



Quantitation Report (Not Reviewed)

09-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181111.D
Acq On : 18 Sep 2011 3:17 pm
Operator : CL
Sample : 11I0590-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 10:03:39 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.287	96	123016	20.00 ug/mL	0.07
3) 1,4-Dichlorobenzene-d4	5.681	152	147018	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	459953	19.96 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.328	88	126587	20.1825 ug/mL	98
4) 1,4-Dichlorobenzene	5.681	146	47	0.0021 ug/mL#	1
5) N-Nitrosodi-n-propylamine	6.040	70	2348	0.2087 ug/mL#	49

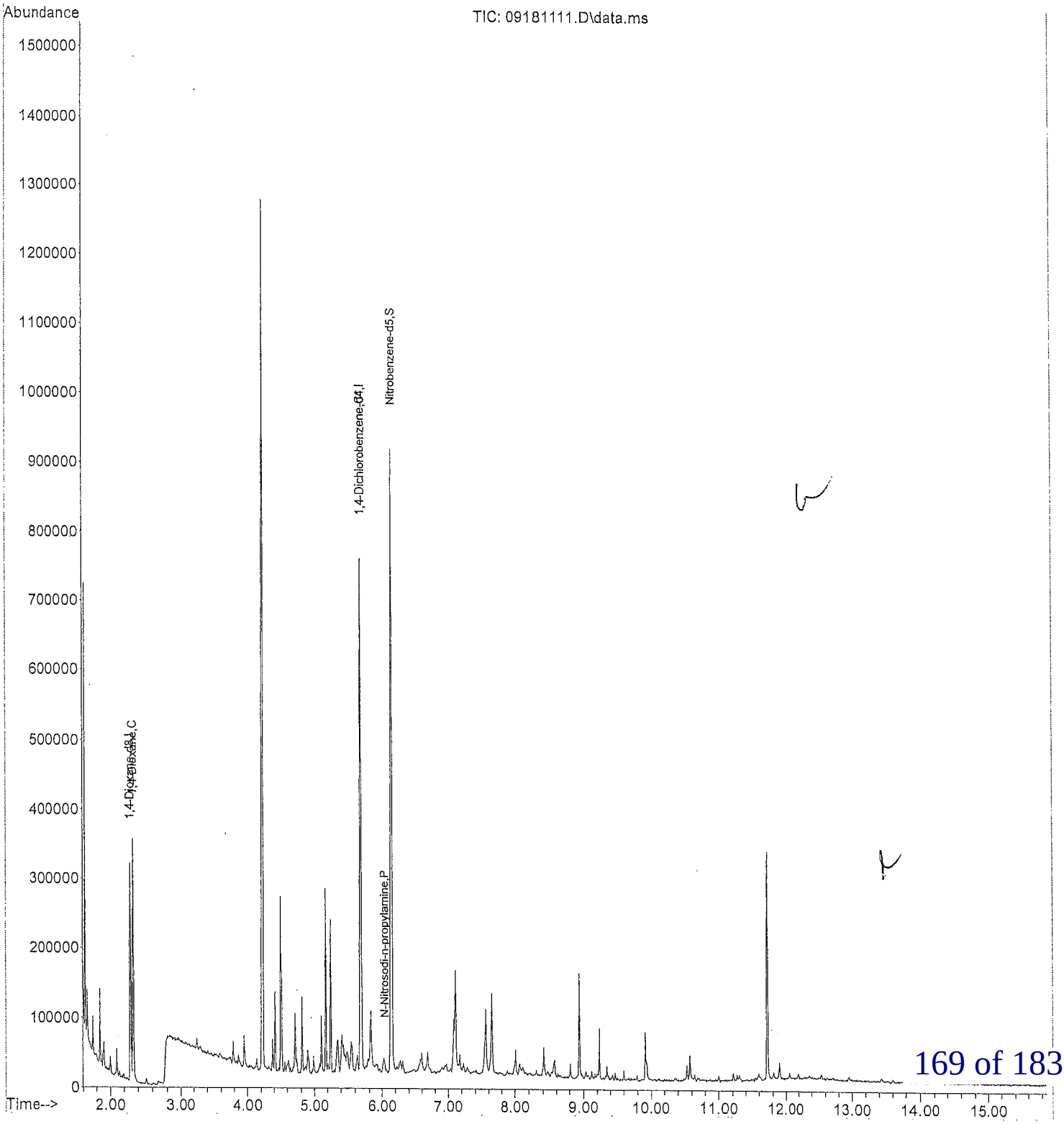
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181111.D
Acq On : 18 Sep 2011 3:17 pm
Operator : CL
Sample : 11I0590-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 10:03:39 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Sample Name 11I0590-BS1
Data File Name 09181111.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 15:17
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05679
09181109.D
D:\msdchem\1\GCMS14\DATA\091811\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	147018	184766	92383	369532	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.686	5.186	6.186	PASS

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181111.D
Acq On : 18 Sep 2011 3:17 pm
Operator : CL
Sample : 11I0590-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 10:54:46 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	147018	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.287	96	123016	15.0475 ug/mL	99

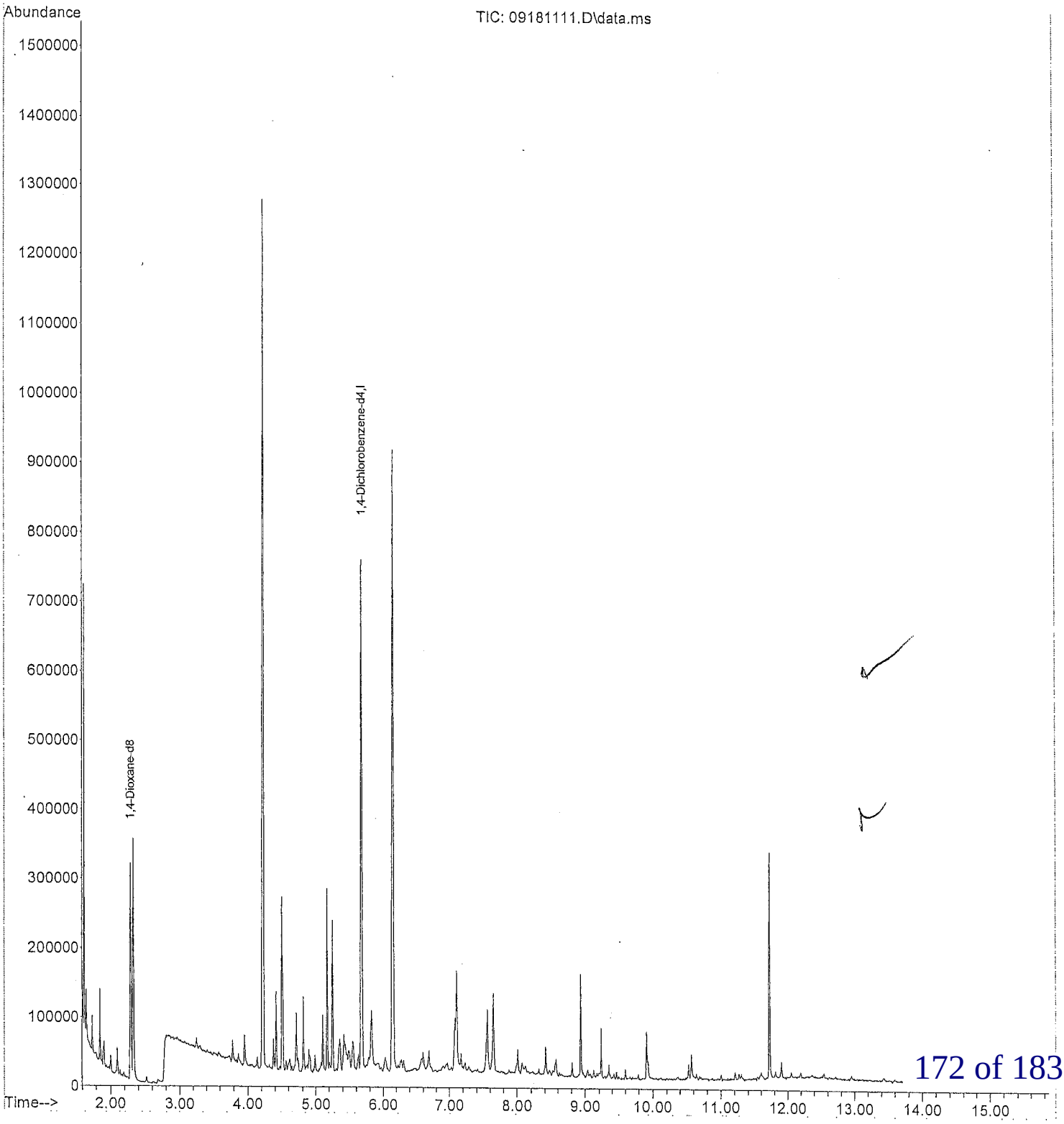
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181111.D
Acq On : 18 Sep 2011 3:17 pm
Operator : CL
Sample : 11I0590-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 10:54:46 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D



Quantitation Report (Not Reviewed)

09-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181112.D
Acq On : 18 Sep 2011 3:44 pm
Operator : CL
Sample : 11I0590-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

mmk

Quant Time: Sep 19 10:03:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.263	96	130438	20.00 ug/mL	0.05
3) 1,4-Dichlorobenzene-d4	5.681	152	149041	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	481678	20.62 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.305	88	134011	20.1504 ug/mL	96
4) 1,4-Dichlorobenzene	5.681	146	52	0.0023 ug/mL#	1

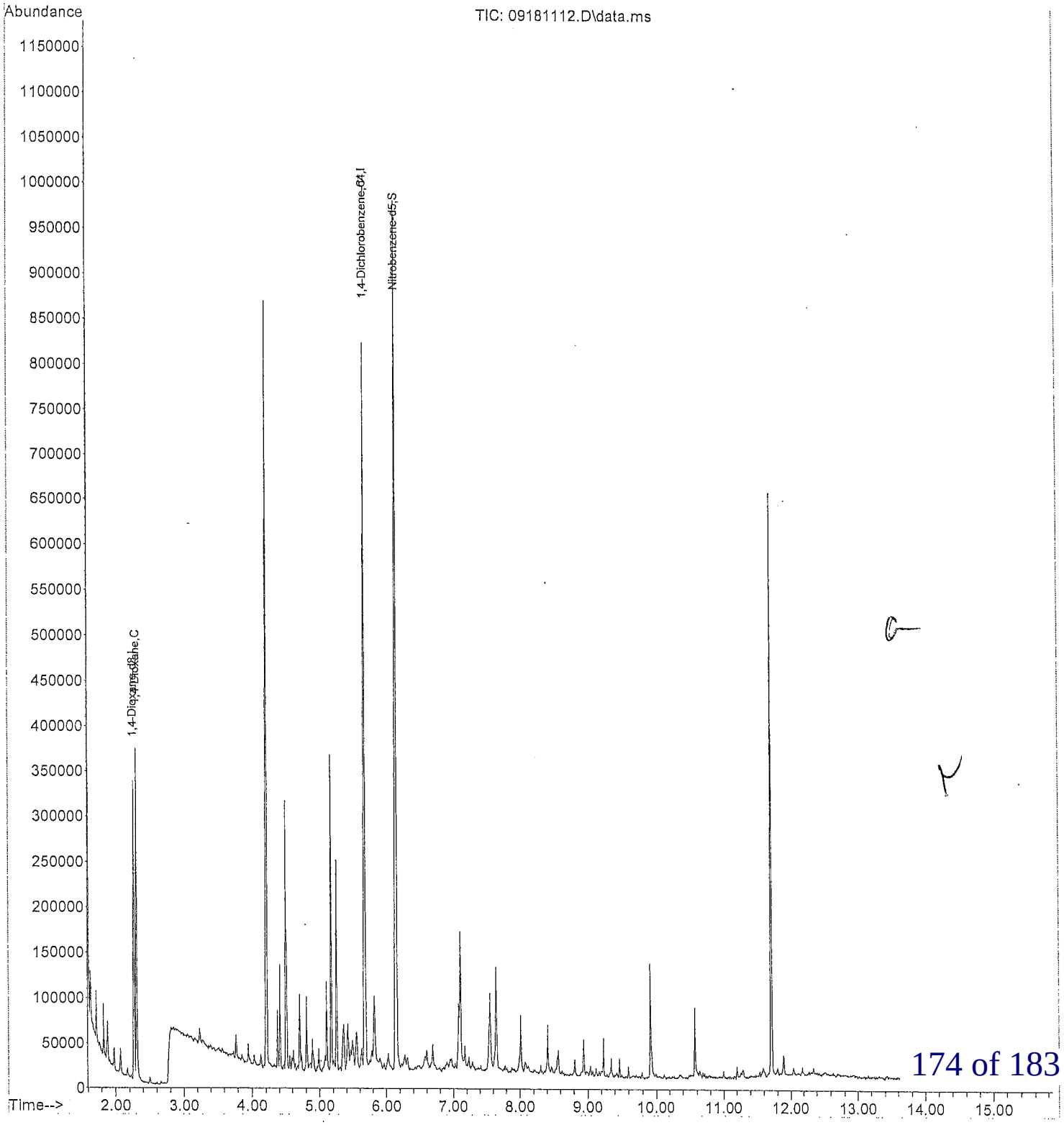
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181112.D
Acq On : 18 Sep 2011 3:44 pm
Operator : CL
Sample : 11I0590-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 10:03:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Sample Name 11I0590-BSD1
Data File Name 09181112.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 15:44
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05679
09181109.D
D:\msdchem\1\GCMS14\DATA\091811\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	149041	184766	92383	369532	PASS
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.686	5.186	6.186	PASS

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181112.D
Acq On : 18 Sep 2011 3:44 pm
Operator : CL
Sample : 11I0590-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 10:54:51 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D

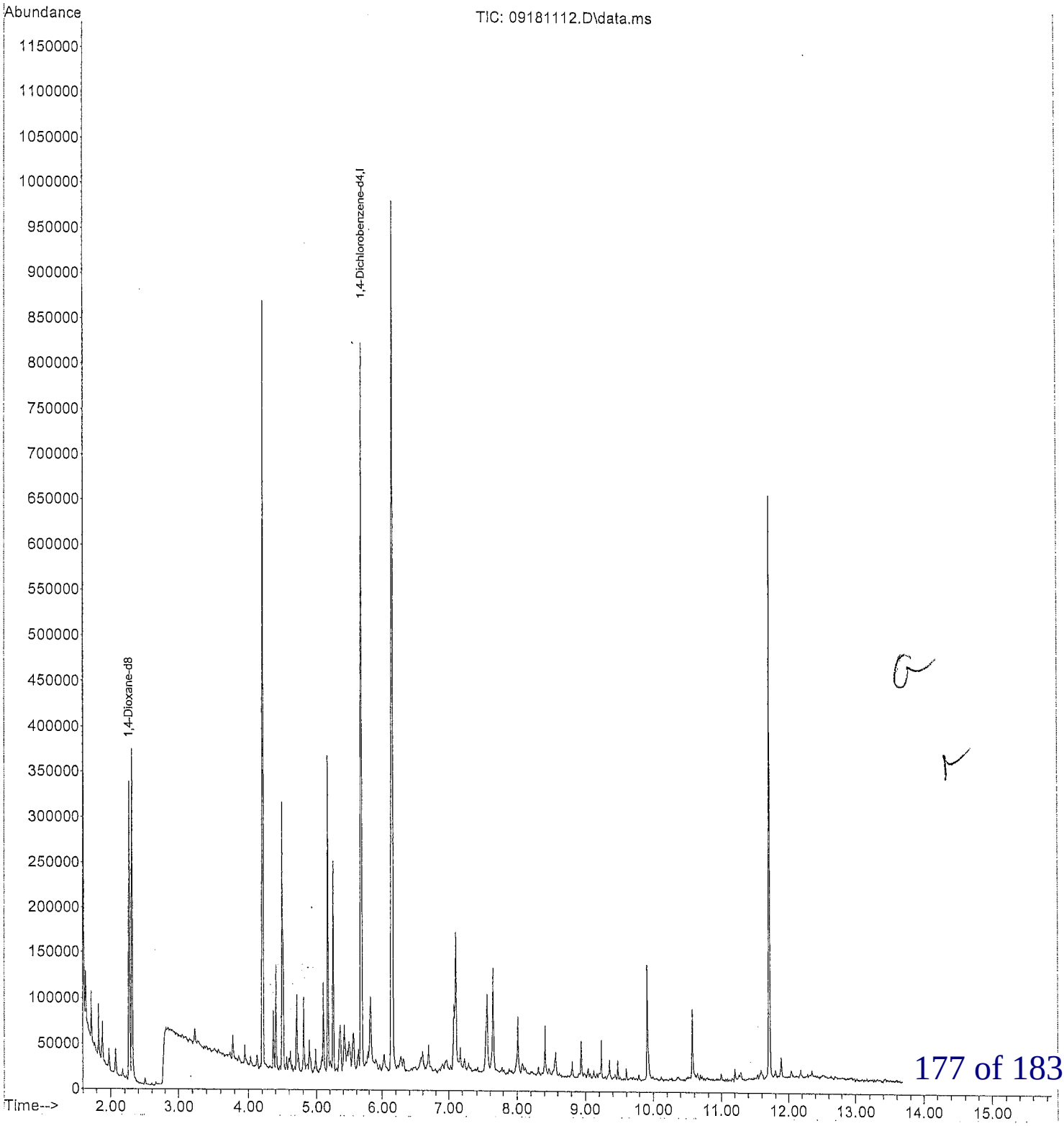
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	149041	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.263	96	130438	15.7388 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181112.D
Acq On : 18 Sep 2011 3:44 pm
Operator : CL
Sample : 11I0590-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 10:54:51 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D



Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181120.D
Acq On : 18 Sep 2011 7:13 pm
Operator : CL
Sample : PUI0741-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 19 10:04:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration

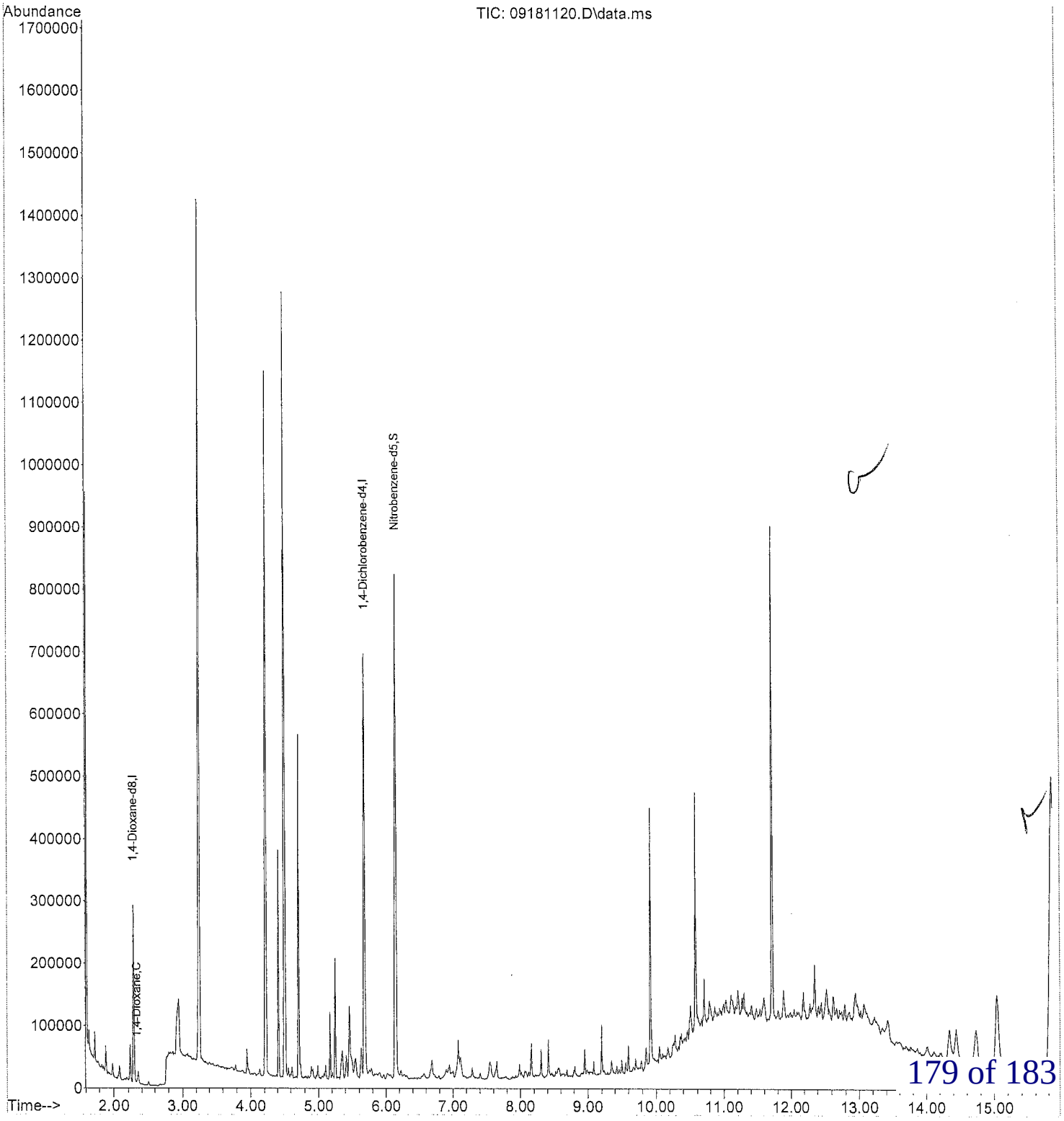
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dioxane-d8	2.269	96	110212	20.00 ug/mL	0.05
3) 1,4-Dichlorobenzene-d4	5.681	152	134393	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.151	82	426784	20.26 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.316	88	386	0.0687 ug/mL#	59

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181120.D
Acq On : 18 Sep 2011 7:13 pm
Operator : CL
Sample : PUI0741-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

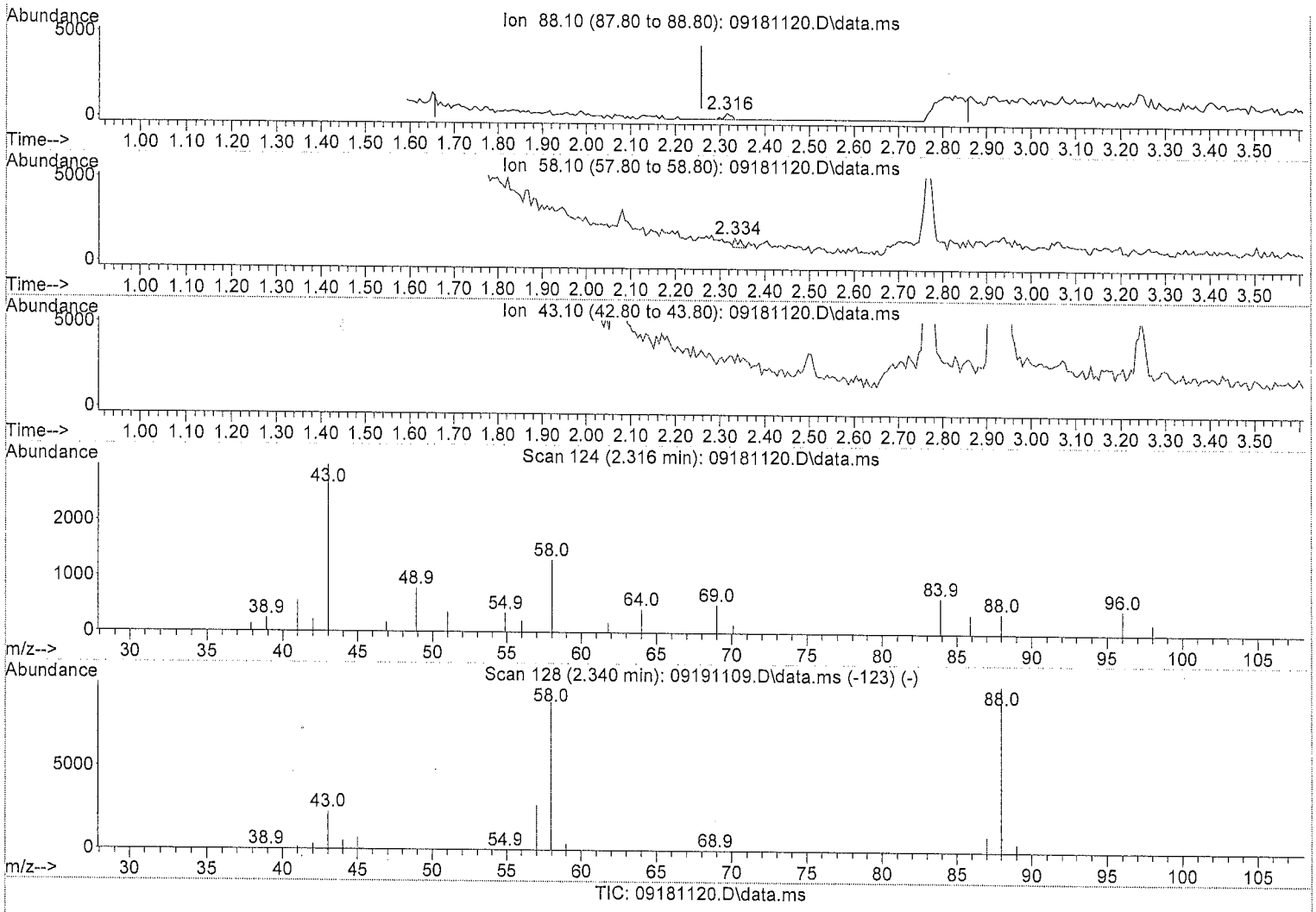
Quant Time: Sep 19 10:04:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥091811¥
Data File : 09181120.D
Acq On : 18 Sep 2011 7:13 pm
Operator : CL
Sample : PUI0741-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 19 10:04:26 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥080911A.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Sep 12 13:18:48 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.316min (+ 0.059) 0.07 ug/mL

response 386

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	86.00	123.83#
43.10	19.40	0.00
0.00	0.00	0.00

MD

09-21-11

9/21/11

Sample Name PUI0741-01
Data File Name 09181120.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\091811\
Operator CL
Date Acquired 9/18/2011 19:13
Acq. Method File DIOXANE.M
Misc Info
Instrument Name GCMS14

10ug/mL ccv pu05679
09181109.D
D:\msdchem\1\GCMS14\DATA\091811\

Internal Standard	SAMPLE RESPONSE	DAILY CCV RESPONSE	0.5X	2X	PASS/FAIL
1,4-Dichlorobenzene-d4	134393	184766	92383	369532	**PASS**
	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	5.681	5.686	5.186	6.186	**PASS**

9/21/11

Quantitation Report (Not Reviewed)

09-21-11

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181120.D
Acq On : 18 Sep 2011 7:13 pm
Operator : CL
Sample : PUI0741-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

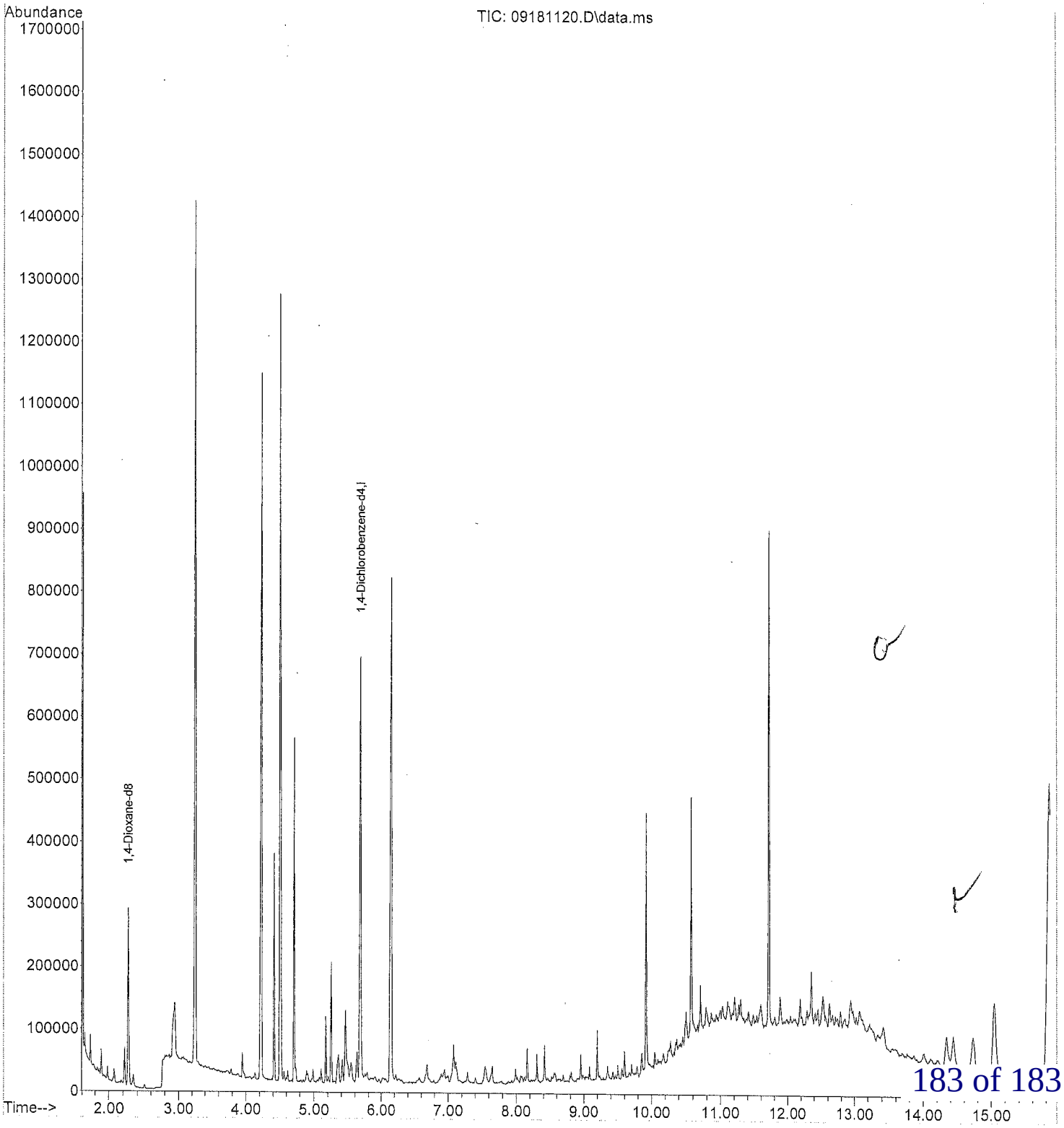
Quant Time: Sep 19 10:55:33 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.681	152	134393	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.269	96	110212	14.7478 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

9/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥
Data File : 09181120.D
Acq On : 18 Sep 2011 7:13 pm
Operator : CL
Sample : PUI0741-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 19 10:55:33 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥091811_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Sep 19 10:53:16 2011
Response via : Continuing Cal File: D:¥MSDCHEM¥1¥GCMS14¥DATA¥091811¥09181109.D