cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223007.D
Acq On : 23 Dec 2014 3:57 pm
Operator :
Sample : 12-255-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 16:12:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.089	136	210456	2000.00	ppb	0.00
6) Acenaphthene-d10	5.337	164	120820	2000.00	ppb	0.00
10) Phenanthrene-d10	6.340	188	233638	2000.00	ppb	0.00
17) Chrysene-d12	8.452	240	246747	2000.00	ppb	0.00
21) Perylene-d12	9.915	264	213489	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.607	82	11674	322.95	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 32.30%			
7) 2-Fluorobiphenyl	4.888	172	58670	694.22	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 69.42%			
11) Pyrene-d10	7.347	212	75251	754.05	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 75.41%			
18) Terphenyl-d14	7.509	244	61200	696.45	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 69.64%			
Target Compounds						Qvalue
3) Naphthalene	4.101	128	3980	36.10	ppb	100
4) 2-Methylnaphthalene	4.630	142	294	4.63	ppb	100
5) 1-Methylnaphthalene	4.685	142	828	10.54	ppb	100
8) Acenaphthylene	5.237	152	480	4.12	ppb	100
9) Acenaphthene	5.360	153	240	3.13	ppb	100
12) Fluorene	5.730	166	539	6.07	ppb	100
13) Phenanthrene	6.352	178	3040	25.81	ppb	100
14) Anthracene	6.352	178	3040	~~27.01 ppb~~		100
15) Fluoranthene	7.196	202	2179	15.35	ppb	100
16) Pyrene	7.358	202	2540	17.34	ppb	100
19) Benzo[a]anthracene	8.448	228	954	8.47	ppb	100
20) Chrysene	8.448	228	954	~~6.88 ppb~~		100
22) Benzo[b]fluoranthene	9.567	252	718	6.65	ppb	100
23) Benzo(j,k)fluoranthene	9.567	252	718	~~5.25 ppb~~		100
24) Benzo[a]pyrene	9.856	252	424	3.68	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.984	276	364	3.01	ppb	100
26) Dibenz[a,h]anthracene	11.000	278	208	2.11	ppb	100
27) Benzo[g,h,i]perylene	11.238	276	368	3.87	ppb	100

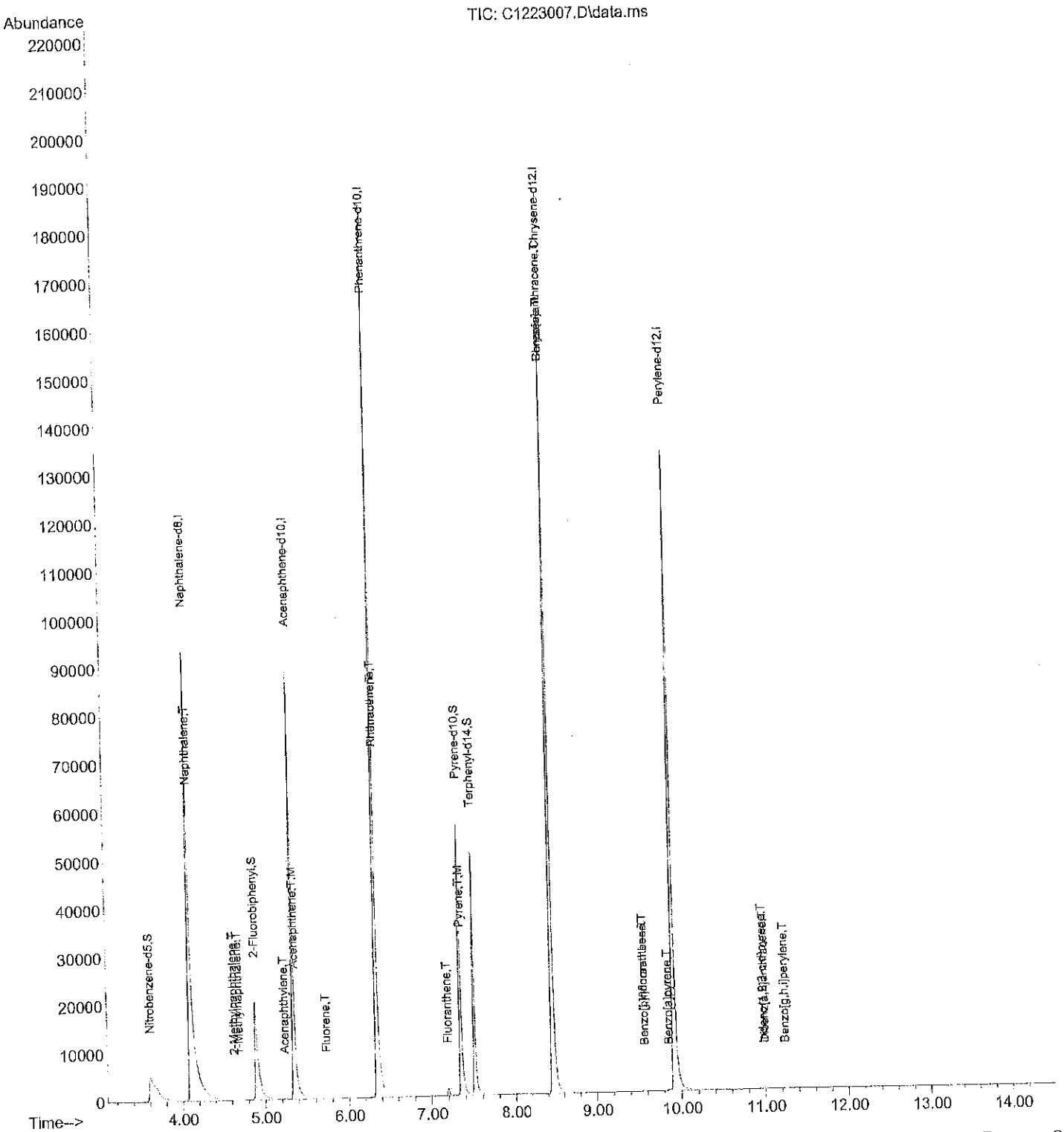
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223007.D
Acq On : 23 Dec 2014 3:57 pm
Operator :
Sample : 12-255-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 16:12:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223008.D
Acq On : 23 Dec 2014 4:19 pm
Operator :
Sample : 12-255-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 23 16:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.089	136	208739	2000.00	ppb	0.00
6) Acenaphthene-d10	5.337	164	116530	2000.00	ppb	0.00
10) Phenanthrene-d10	6.340	188	223817	2000.00	ppb	0.00
17) Chrysene-d12	8.456	240	242588	2000.00	ppb	0.00
21) Perylene-d12	9.915	264	213853	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.601	82	13517	377.01	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 37.70%			
7) 2-Fluorobiphenyl	4.887	172	69447	852.00	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 85.20%			
11) Pyrene-d10	7.345	212	82738	865.45	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 86.55%			
18) Terphenyl-d14	7.508	244	67333	779.38	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 77.94%			
Target Compounds						Qvalue
3) Naphthalene	4.106	128	1477	13.51	ppb	100
4) 2-Methylnaphthalene	4.630	142	206	3.27	ppb	100
5) 1-Methylnaphthalene	4.680	142	310	3.98	ppb	100
8) Acenaphthylene	5.237	152	136	1.21	ppb	100
9) Acenaphthene	5.376	153	173	2.34	ppb	100
12) Fluorene	5.730	166	245	2.88	ppb	100
13) Phenanthrene	6.352	178	2142	18.98	ppb	100
14) Anthracene	6.352	178	2142	~~19.86~~	ppb ϕ	100
15) Fluoranthene	7.195	202	608	4.47	ppb	100
16) Pyrene	7.357	202	834	5.94	ppb	100
19) Benzo[a]anthracene	8.452	228	1108	10.01	ppb	100
20) Chrysene	8.452	228	1108	~~8.12~~	ppb ϕ	100
22) Benzo[b]fluoranthene	9.552	252	126	1.16	ppb	100
23) Benzo(j,k)fluoranthene	9.552	252	126	~~0.92~~	ppb ϕ	100
24) Benzo[a]pyrene	9.856	252	138	1.20	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.926	276	8	0.07	ppb	100
26) Dibenz[a,h]anthracene	10.973	278	4	0.04	ppb	100
27) Benzo[g,h,i]perylene	11.200	276	8	0.08	ppb	100

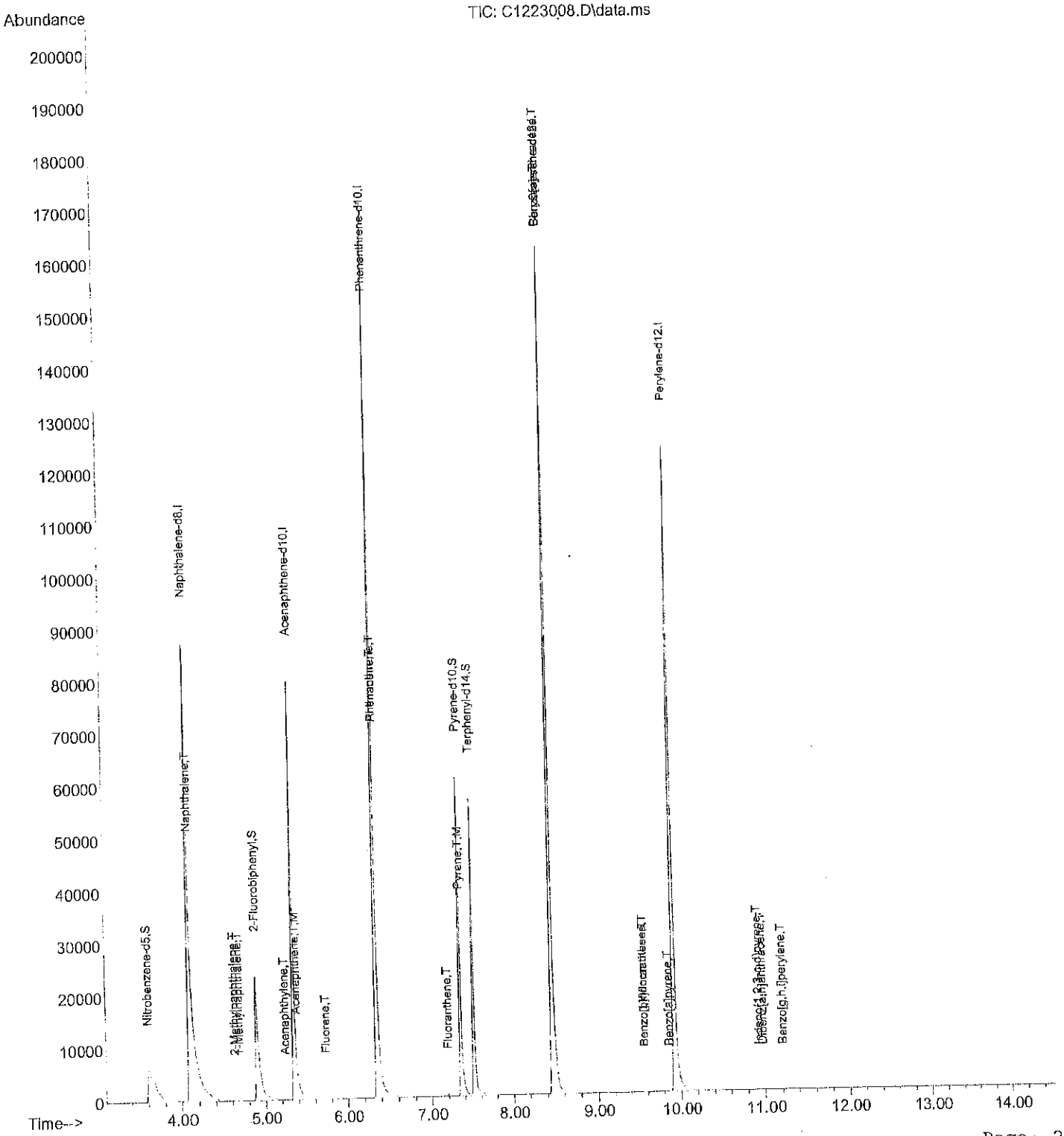
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223008.D
Acq On : 23 Dec 2014 4:19 pm
Operator :
Sample : 12-255-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 23 16:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223011.D
Acq On : 23 Dec 2014 5:25 pm
Operator :
Sample : 12-255-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 23 17:40:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.089	136	207417	2000.00	ppb	0.00
6) Acenaphthene-d10	5.338	164	118220	2000.00	ppb	0.00
10) Phenanthrene-d10	6.341	188	220114	2000.00	ppb	0.00
17) Chrysene-d12	8.453	240	236087	2000.00	ppb	0.00
21) Perylene-d12	9.914	264	209435	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.607	82	8514	238.98	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 23.90%#			
7) 2-Fluorobiphenyl	4.890	172	53387	645.61	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 64.56%			
11) Pyrene-d10	7.351	212	53617	570.28	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 57.03%			
18) Terphenyl-d14	7.513	244	44723	531.92	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 53.19%			
Target Compounds						Qvalue
3) Naphthalene	4.106	128	265	2.44	ppb	100
4) 2-Methylnaphthalene	4.586	142	8	0.13	ppb	100
5) 1-Methylnaphthalene	4.687	142	42	0.54	ppb	100
8) Acenaphthylene	5.246	152	67	0.59	ppb	100
9) Acenaphthene	5.377	153	171	2.28	ppb	100
12) Fluorene	5.746	166	193	2.31	ppb	100
13) Phenanthrene	6.357	178	1895	17.08	ppb	100
14) Anthracene	6.357	178	1895	~~17.87~~	ppb ϕ	100
15) Fluoranthene	7.200	202	183	1.37	ppb	100
16) Pyrene	7.362	202	287	2.08	ppb	100
19) Benzo[a]anthracene	8.453	228	971	9.01	ppb	100
20) Chrysene	8.453	228	971	~~7.31~~	ppb ϕ	100
22) Benzo[b]fluoranthene	9.559	252	83	0.78	ppb	100
23) Benzo(j,k)fluoranthene	9.559	252	83	~~<0.62~~	ppb ϕ	100
24) Benzo[a]pyrene	9.860	252	60	0.53	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.902	276	5	0.04	ppb	100
26) Dibenz[a,h]anthracene	10.933	278	5	0.05	ppb	100
27) Benzo[g,h,i]perylene	11.203	276	6	0.06	ppb	100

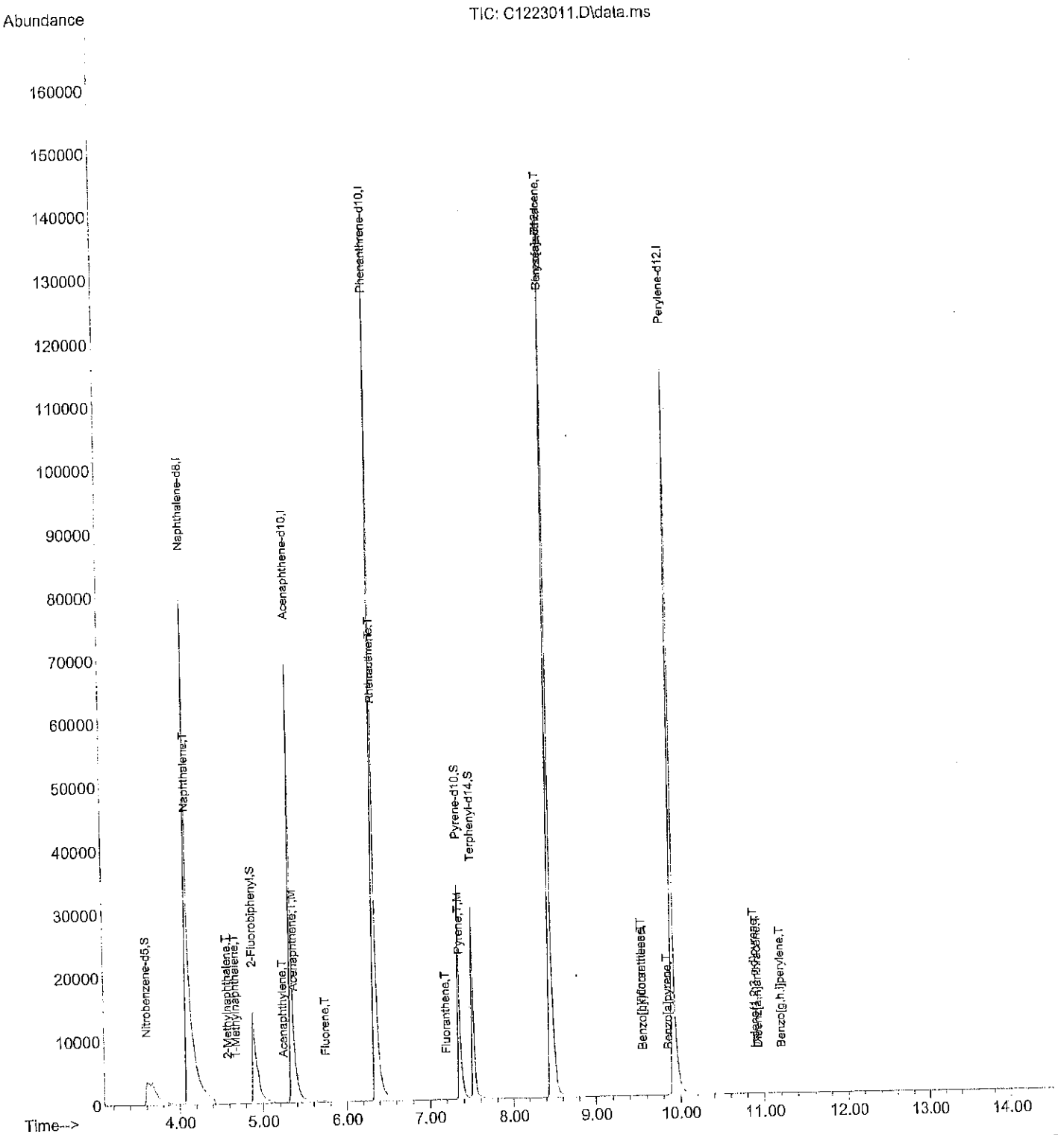
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14
SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223011.D
Acq On : 23 Dec 2014 5:25 pm
Operator :
Sample : 12-255-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 23 17:40:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223012.D
Acq On : 23 Dec 2014 5:47 pm
Operator :
Sample : 12-255-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 23 18:02:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.094	136	210897	2000.00	ppb	0.00
6) Acenaphthene-d10	5.338	164	118692	2000.00	ppb	0.00
10) Phenanthrene-d10	6.341	188	226102	2000.00	ppb	0.00
17) Chrysene-d12	8.453	240	241455	2000.00	ppb	0.00
21) Perylene-d12	9.915	264	214023	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.606	82	9719	268.31	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 26.83%			
7) 2-Fluorobiphenyl	4.887	172	55613	669.85	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 66.98%			
11) Pyrene-d10	7.350	212	59903	620.26	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 62.03%			
18) Terphenyl-d14	7.513	244	49504	575.70	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 57.57%			
Target Compounds						Qvalue
3) Naphthalene	4.106	128	298	2.70	ppb	100
4) 2-Methylnaphthalene	4.626	142	66	1.04	ppb	100
5) 1-Methylnaphthalene	4.688	142	110	1.40	ppb	100
8) Acenaphthylene	5.245	152	84	0.73	ppb	100
9) Acenaphthene	5.376	153	201	2.67	ppb	100
12) Fluorene	5.738	166	246	2.86	ppb	100
13) Phenanthrene	6.356	178	1811	15.89	ppb	100
14) Anthracene	6.356	178	1811	~~16.62~~	~~ppb~~ d	100
15) Fluoranthene	7.199	202	283	2.06	ppb	100
16) Pyrene	7.362	202	455	3.21	ppb	100
19) Benzo[a]anthracene	8.453	228	1075	9.75	ppb	100
20) Chrysene	8.453	228	1075	~~7.92~~	~~ppb~~ d	100
22) Benzo[b]fluoranthene	9.568	252	242	2.23	ppb	100
23) Benzo(j,k)fluoranthene	9.568	252	242	~~1.76~~	~~ppb~~ d	100
24) Benzo[a]pyrene	9.856	252	86	0.74	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.009	276	57	0.47	ppb	100
26) Dibenz[a,h]anthracene	10.973	278	5	0.05	ppb	100
27) Benzo[g,h,i]perylene	11.188	276	13	0.14	ppb	100

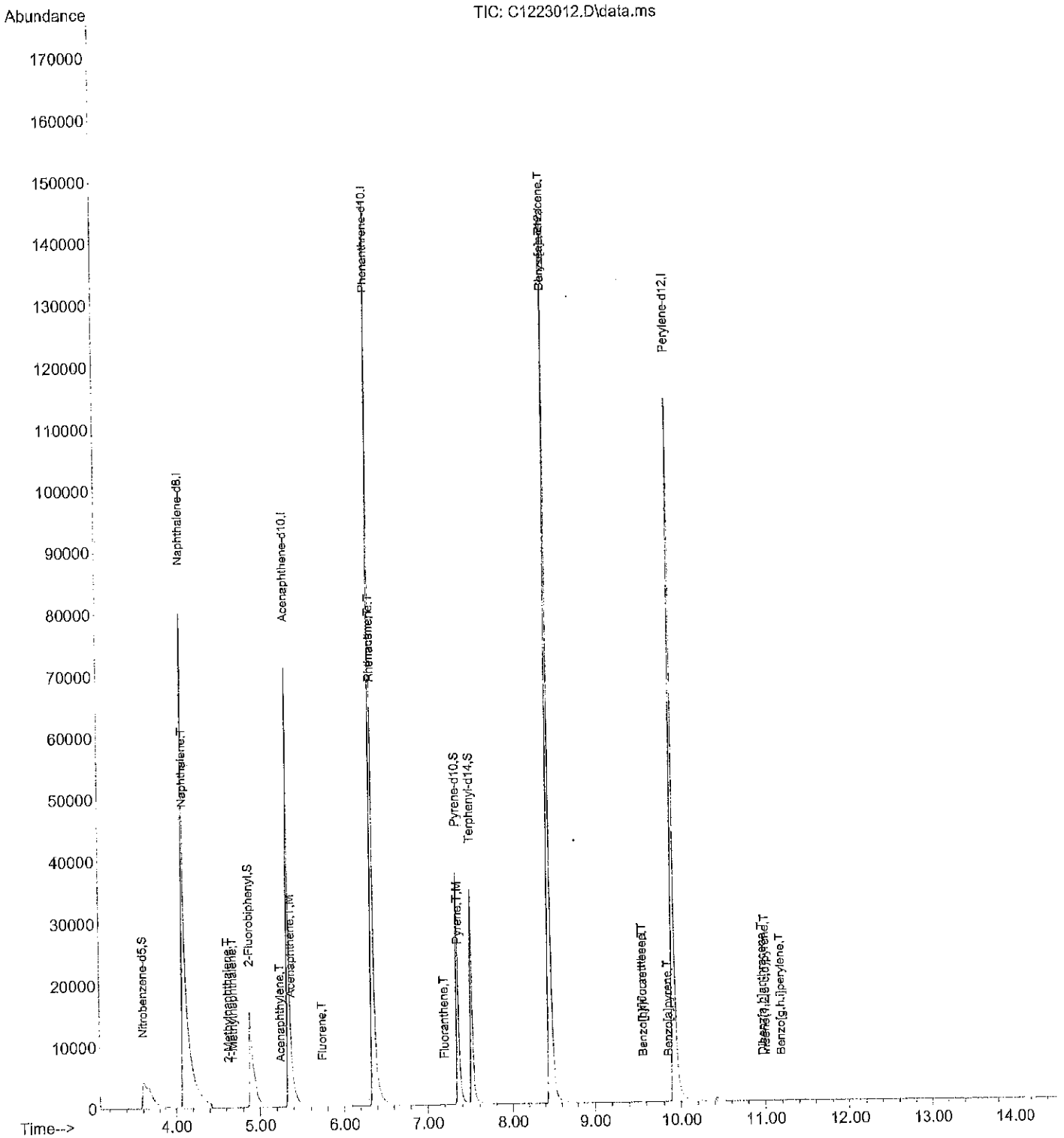
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223012.D
Acq On : 23 Dec 2014 5:47 pm
Operator :
Sample : 12-255-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 23 18:02:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223013.D
Acq On : 23 Dec 2014 6:08 pm
Operator :
Sample : 12-255-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 23 18:23:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.093	136	203099	2000.00	ppb	0.00
6) Acenaphthene-d10	5.338	164	116306	2000.00	ppb	0.00
10) Phenanthrene-d10	6.341	188	219290	2000.00	ppb	0.00
17) Chrysene-d12	8.455	240	236790	2000.00	ppb	0.00
21) Perylene-d12	9.914	264	208394	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.605	82	10282	294.75	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 29.48%			
7) 2-Fluorobiphenyl	4.891	172	67439	828.96	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 82.90%			
11) Pyrene-d10	7.351	212	78179	834.65	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 83.47%			
18) Terphenyl-d14	7.507	244	63139	748.73	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 74.87%			
Target Compounds						Qvalue
3) Naphthalene	4.104	128	230	2.16	ppb	100
4) 2-Methylnaphthalene	4.633	142	39	0.64	ppb	100
5) 1-Methylnaphthalene	4.688	142	24	0.32	ppb	100
8) Acenaphthylene	5.238	152	49	0.44	ppb	100
9) Acenaphthene	5.361	153	52	0.70	ppb	100
12) Fluorene	5.746	166	195	2.34	ppb	100
13) Phenanthrene	6.357	178	1532	13.86	ppb	100
14) Anthracene	6.357	178	1532	~~14.50~~	ppb ϕ	100
15) Fluoranthene	7.200	202	202	1.52	ppb	100
16) Pyrene	7.356	202	375	2.73	ppb	100
19) Benzo[a]anthracene	8.452	228	836	7.73	ppb	100
20) Chrysene	8.452	228	836	~~6.28~~	ppb ϕ	100
22) Benzo[b]fluoranthene	9.559	252	109	1.03	ppb	100
23) Benzo(j,k)fluoranthene	9.559	252	109	~~0.82~~	ppb ϕ	100
24) Benzo[a]pyrene	9.864	252	36	0.32	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.941	276	4	0.03	ppb	100
26) Dibenz[a,h]anthracene	10.972	278	6	0.06	ppb	100
27) Benzo[g,h,i]perylene	11.214	276	2	0.02	ppb	100

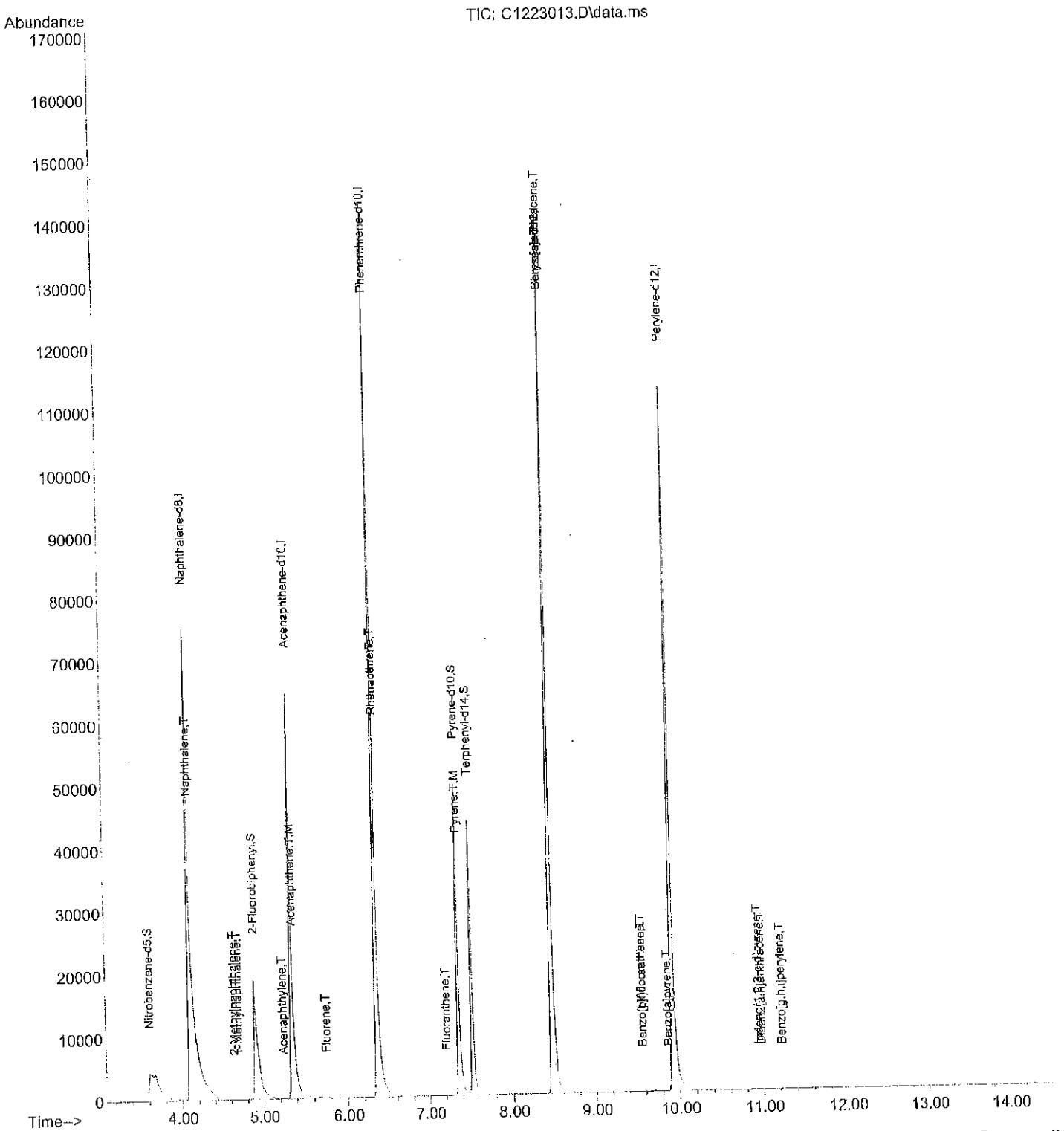
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223013.D
Acq On : 23 Dec 2014 6:08 pm
Operator :
Sample : 12-255-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 23 18:23:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223014.D
Acq On : 23 Dec 2014 6:30 pm
Operator :
Sample : 12-255-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 23 18:45:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	4.093	136	206089	2000.00 ppb	0.00
6) Acenaphthene-d10	5.337	164	117575	2000.00 ppb	0.00
10) Phenanthrene-d10	6.340	188	222901	2000.00 ppb	0.00
17) Chrysene-d12	8.457	240	236218	2000.00 ppb	0.00
21) Perylene-d12	9.915	264	207600	2000.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	3.611	82	9125	257.78 ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 25.78%		
7) 2-Fluorobiphenyl	4.890	172	55417	673.83 ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 67.38%		
11) Pyrene-d10	7.350	212	69490	729.86 ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 72.99%		
18) Terphenyl-d14	7.513	244	57061	678.29 ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 67.83%		
Target Compounds					Qvalue
3) Naphthalene	4.110	128	206	1.91 ppb	100
4) 2-Methylnaphthalene	4.593	142	4	0.06 ppb	100
5) 1-Methylnaphthalene	4.667	142	25	0.32 ppb	100
8) Acenaphthylene	5.245	152	82	0.72 ppb	100
9) Acenaphthene	5.376	153	130	1.74 ppb	100
12) Fluorene	5.754	166	169	1.99 ppb	100
13) Phenanthrene	6.356	178	1574	14.01 ppb	100
14) Anthracene	6.356	178	1574	~~14.66 ppb~~ ϕ	100
15) Fluoranthene	7.199	202	256	1.89 ppb	100
16) Pyrene	7.362	202	370	2.65 ppb	100
19) Benzo[a]anthracene	8.453	228	836	7.75 ppb	100
20) Chrysene	8.453	228	836	~~6.29 ppb~~ ϕ	100
22) Benzo[b]fluoranthene	9.568	252	90	0.86 ppb	100
23) Benzo(j,k)fluoranthene	9.568	252	90	~~0.68 ppb~~ ϕ	100
24) Benzo[a]pyrene	9.861	252	39	0.35 ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.946	276	3	0.03 ppb	100
26) Dibenz[a,h]anthracene	10.993	278	4	0.04 ppb	100
27) Benzo[g,h,i]perylene	11.204	276	11	0.12 ppb	100

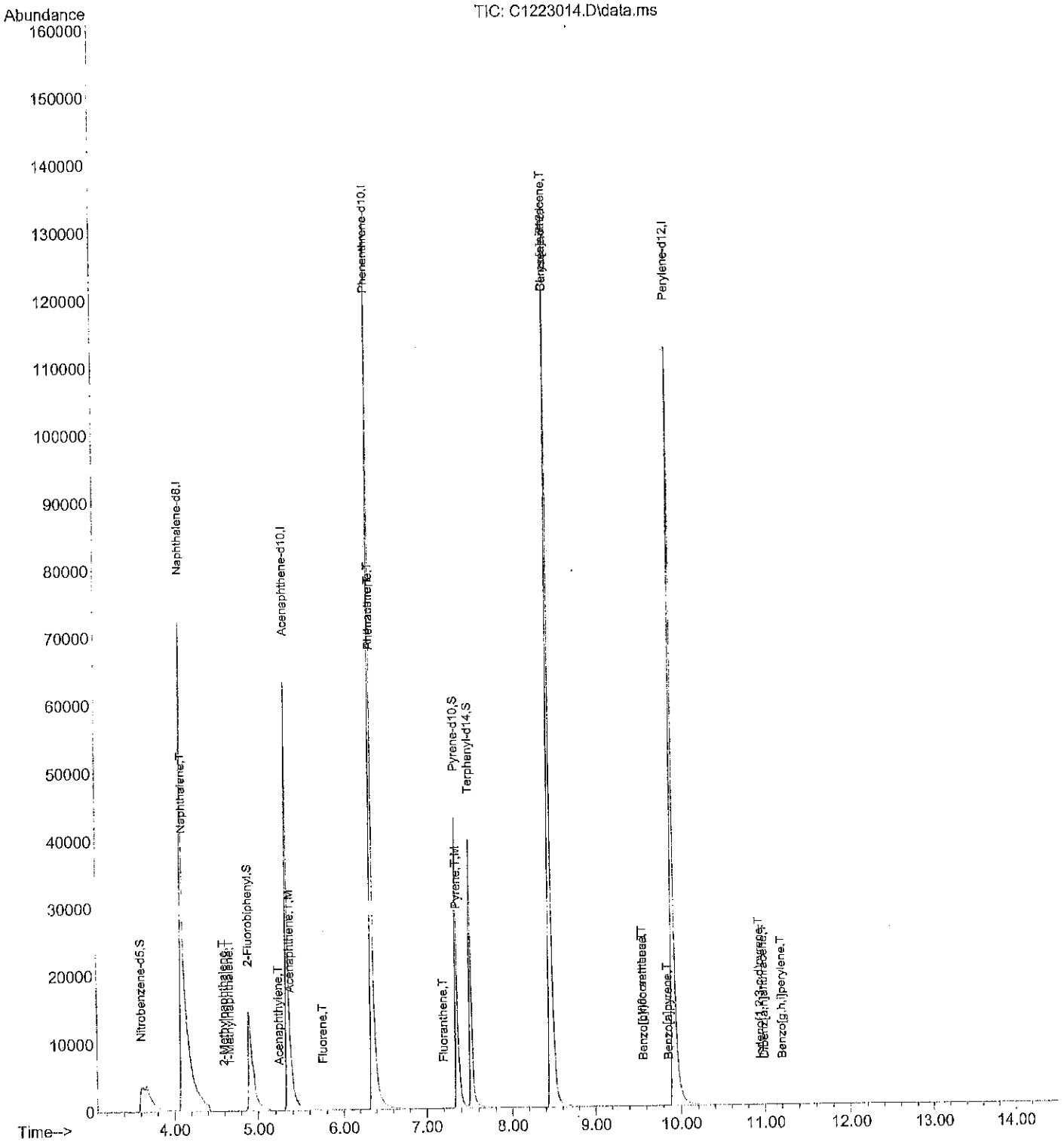
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 JM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223014.D
Acq On : 23 Dec 2014 6:30 pm
Operator :
Sample : 12-255-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 23 18:45:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223015.D
Acq On : 23 Dec 2014 6:52 pm
Operator :
Sample : 12-255-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 23 19:07:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.094	136	201956	2000.00	ppb	0.00
6) Acenaphthene-d10	5.337	164	114229	2000.00	ppb	0.00
10) Phenanthrene-d10	6.341	188	215352	2000.00	ppb	0.00
17) Chrysene-d12	8.453	240	234108	2000.00	ppb	0.00
21) Perylene-d12	9.915	264	206566	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.612	82	11518	332.05	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 33.20%			
7) 2-Fluorobiphenyl	4.891	172	67734	847.72	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 84.77%			
11) Pyrene-d10	7.350	212	76584	832.57	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 83.26%			
18) Terphenyl-d14	7.512	244	61228	734.39	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 73.44%			
Target Compounds						Qvalue
3) Naphthalene	4.105	128	279	2.64	ppb	100
4) 2-Methylnaphthalene	4.594	142	6	0.10	ppb	100
5) 1-Methylnaphthalene	4.692	142	61	0.81	ppb	100
8) Acenaphthylene	5.245	152	95	0.86	ppb	100
9) Acenaphthene	5.376	153	226	3.12	ppb	100
12) Fluorene	5.738	166	258	3.15	ppb	100
13) Phenanthrene	6.356	178	1907	17.56	ppb	100
14) Anthracene	6.356	178	1907	~~18.38~~	~~ppb~~ ϕ	100
15) Fluoranthene	7.199	202	640	4.89	ppb	100
16) Pyrene	7.361	202	943	6.99	ppb	100
19) Benzo[a]anthracene	8.453	228	1039	9.72	ppb	100
20) Chrysene	8.453	228	1039	~~7.89~~	~~ppb~~ ϕ	100
22) Benzo[b]fluoranthene	9.572	252	203	1.94	ppb	100
23) Benzo(j,k)fluoranthene	9.572	252	203	~~1.53~~	~~ppb~~ ϕ	100
24) Benzo[a]pyrene	9.857	252	56	0.50	ppb ϕ	100
25) Indeno(1,2,3-c,d)pyrene	10.942	276	4	0.03	ppb	100
26) Dibenz[a,h]anthracene	10.977	278	4	0.04	ppb	100
27) Benzo[g,h,i]perylene	11.203	276	3	0.03	ppb	100

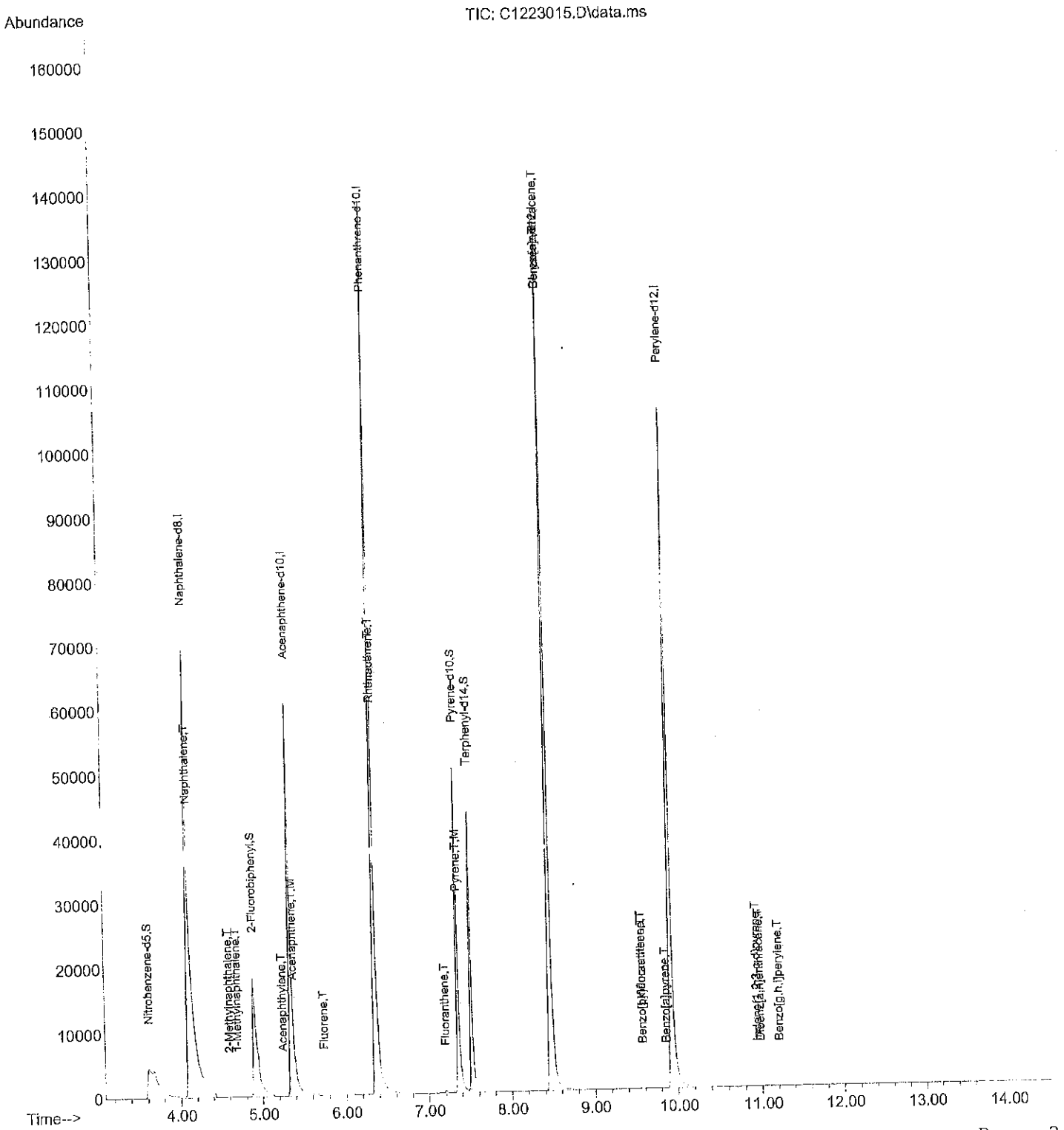
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223015.D
Acq On : 23 Dec 2014 6:52 pm
Operator :
Sample : 12-255-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 23 19:07:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223004.D
Acq On : 23 Dec 2014 2:52 pm
Operator :
Sample : MB1223S1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 23 15:07:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.088	136	214219	2000.00	ppb	0.00
6) Acenaphthene-d10	5.338	164	118994	2000.00	ppb	0.00
10) Phenanthrene-d10	6.341	188	222562	2000.00	ppb	0.00
17) Chrysene-d12	8.460	240	231489	2000.00	ppb	0.01
21) Perylene-d12	9.918	264	206251	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.595	82	32676	888.07	ppb	-0.01
Spiked Amount 1000.000	Range 24 - 92		Recovery = 88.81%			
7) 2-Fluorobiphenyl	4.883	172	81098	974.33	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 97.43%#			
11) Pyrene-d10	7.351	212	85109	895.27	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 89.53%			
18) Terphenyl-d14	7.513	244	68963	836.52	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 83.65%			
Target Compounds						Qvalue
3) Naphthalene	4.100	128	327	2.91	ppb	100
4) 2-Methylnaphthalene	4.617	142	223	3.45	ppb	100
5) 1-Methylnaphthalene	4.680	142	99	1.24	ppb	100
8) Acenaphthylene	5.245	152	137	1.19	ppb	100
9) Acenaphthene	5.376	153	223	2.95	ppb	100
12) Fluorene	5.723	166	264	3.12	ppb	100
13) Phenanthrene	6.353	178	315	2.81	ppb	100
14) Anthracene	6.353	178	315	~~2.94 ppb~~ d		100
15) Fluoranthene	7.200	202	102	0.75	ppb	100
16) Pyrene	7.351	202	257	1.84	ppb	100
19) Benzo[a]anthracene	8.456	228	812	7.68	ppb	100
20) Chrysene	8.456	228	812	~~6.24 ppb~~ d		100
22) Benzo[b]fluoranthene	9.547	252	52	0.50	ppb	100
23) Benzo(j,k)fluoranthene	9.547	252	52	~~0.39 ppb~~ d		100
24) Benzo[a]pyrene	9.855	252	56	0.50	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.910	276	8	0.07	ppb	100
26) Dibenz[a,h]anthracene	11.004	278	163	1.71	ppb	100
27) Benzo[g,h,i]perylene	11.242	276	82	0.89	ppb	100

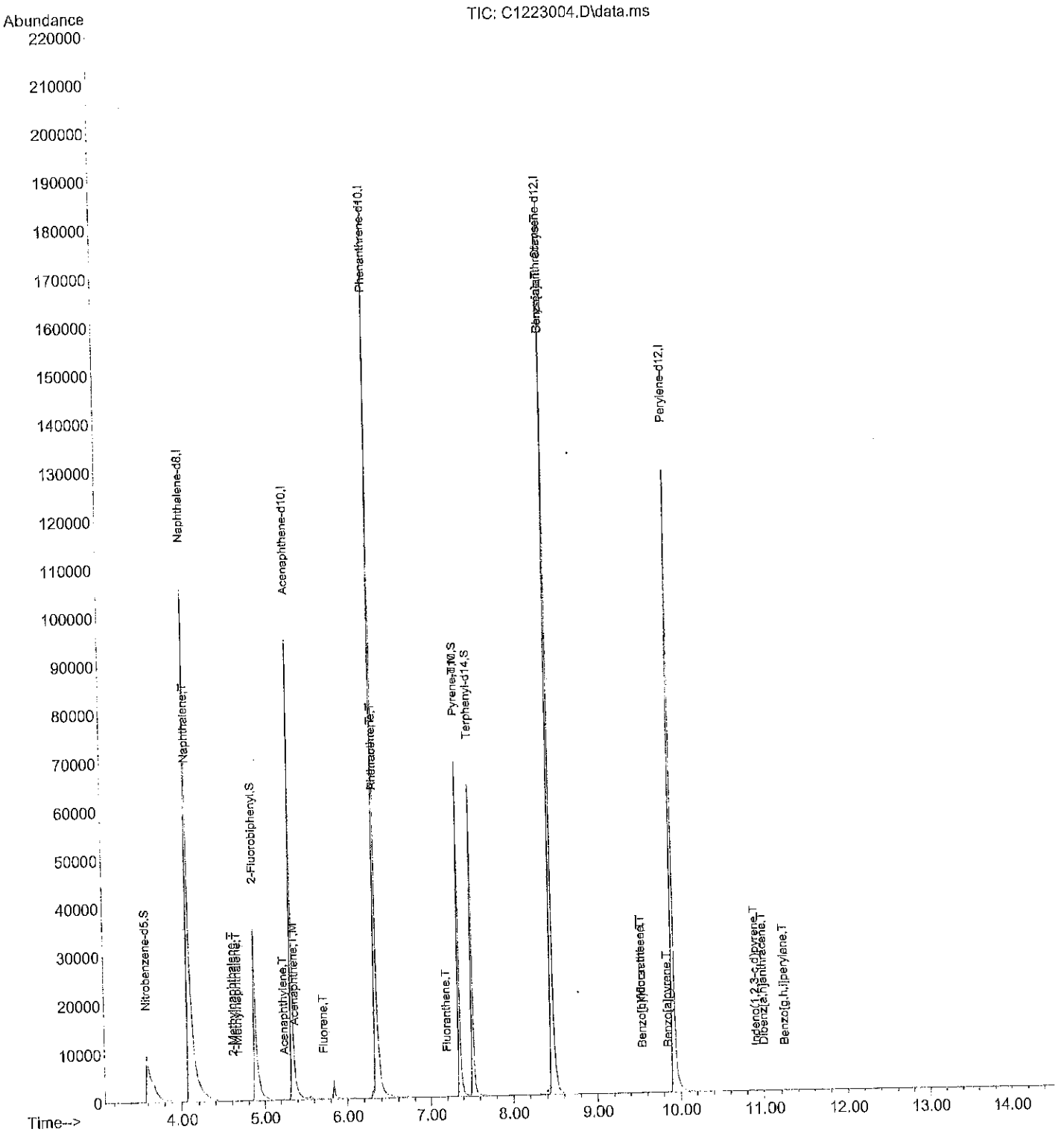
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 JM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223004.D
Acq On : 23 Dec 2014 2:52 pm
Operator :
Sample : MB1223S1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 23 15:07:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223009.D
Acq On : 23 Dec 2014 4:41 pm
Operator :
Sample : 12-255-02 MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 16:56:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.093	136	213361	2000.00	ppb	0.00
6) Acenaphthene-d10	5.338	164	120274	2000.00	ppb	0.00
10) Phenanthrene-d10	6.341	188	230639	2000.00	ppb	0.00
17) Chrysene-d12	8.453	240	248963	2000.00	ppb	0.00
21) Perylene-d12	9.913	264	217499	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.605	82	11607	316.73	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 31.67%			
7) 2-Fluorobiphenyl	4.886	172	62299	740.51	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 74.05%			
11) Pyrene-d10	7.345	212	74051	751.67	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 75.17%			
18) Terphenyl-d14	7.507	244	59747	673.86	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 67.39%			
Target Compounds						Qvalue
3) Naphthalene	4.105	128	37776	338.01	ppb	100
4) 2-Methylnaphthalene	4.620	142	14864	230.97	ppb	100
5) 1-Methylnaphthalene	4.683	142	31207	391.76	ppb	100
8) Acenaphthylene	5.230	152	39624	341.93	ppb	100
9) Acenaphthene	5.361	153	26771	350.93	ppb	100
12) Fluorene	5.723	166	31249	356.37	ppb	100
13) Phenanthrene	6.353	178	38751	333.25	ppb	100
14) Anthracene	6.392	178	52712	474.36	ppb	100
15) Fluoranthene	7.188	202	52910	377.64	ppb	100
16) Pyrene	7.356	202	54183	374.81	ppb	100
19) Benzo[a]anthracene	8.434	228	41971	369.30	ppb	100
20) Chrysene	8.477	228	53258	380.45	ppb	100
22) Benzo[b]fluoranthene	9.539	252	40344	366.50	ppb	100
23) Benzo(j,k)fluoranthene	9.562	252	49389	354.41	ppb	100
24) Benzo[a]pyrene	9.855	252	44998	383.32	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.953	276	45646	370.98	ppb	100
26) Dibenz[a,h]anthracene	10.976	278	37532	373.17	ppb	100
27) Benzo[g,h,i]perylene	11.214	276	37968	391.63	ppb	100

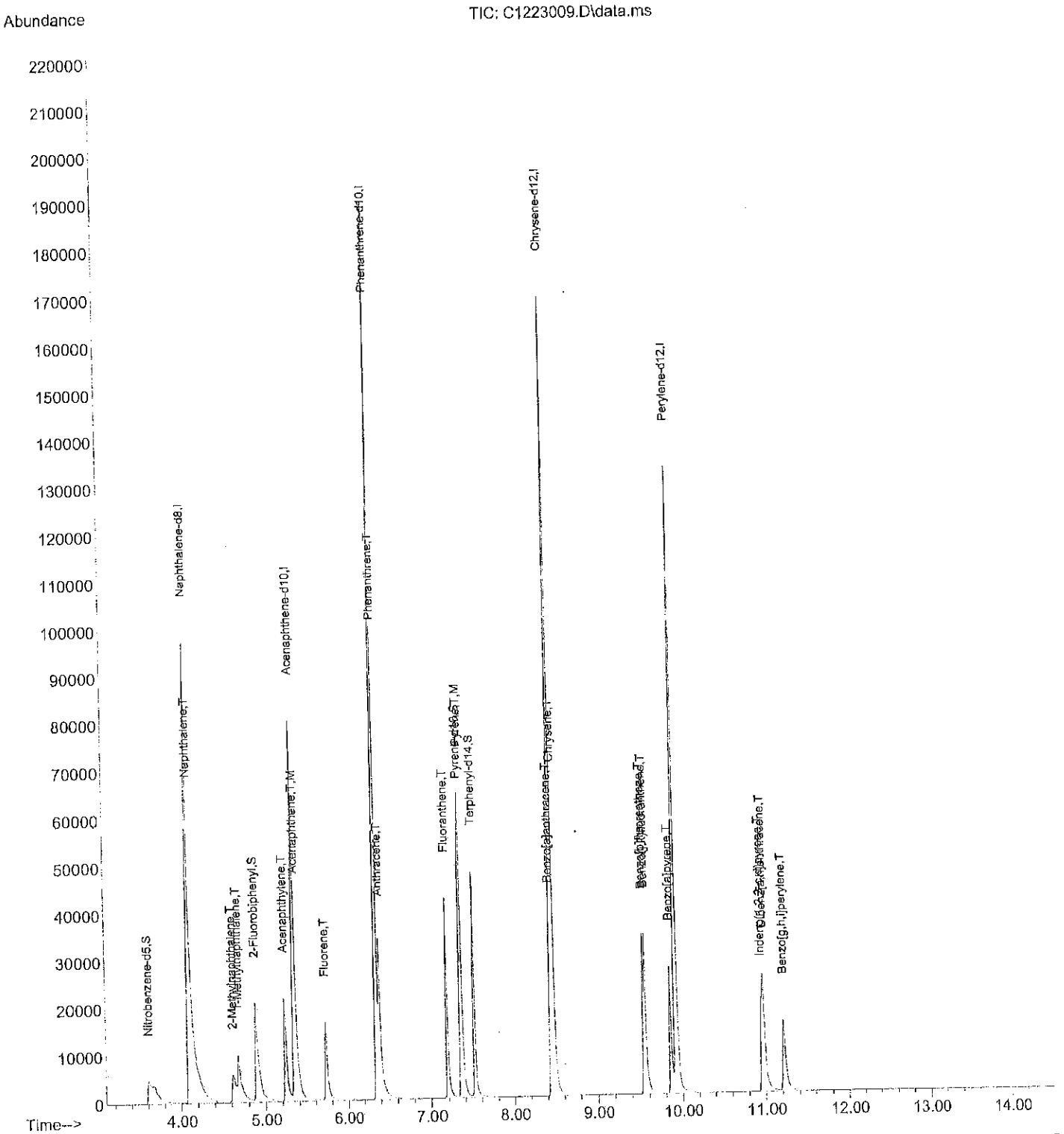
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14
gm

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223009.D
Acq On : 23 Dec 2014 4:41 pm
Operator :
Sample : 12-255-02 MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 16:56:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223010.D
Acq On : 23 Dec 2014 5:03 pm
Operator :
Sample : 12-255-02 MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 23 17:18:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.088	136	210612	2000.00	ppb	0.00
6) Acenaphthene-d10	5.337	164	119609	2000.00	ppb	0.00
10) Phenanthrene-d10	6.340	188	228628	2000.00	ppb	0.00
17) Chrysene-d12	8.452	240	245056	2000.00	ppb	0.00
21) Perylene-d12	9.915	264	213975	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.606	82	11856	327.74	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 32.77%			
7) 2-Fluorobiphenyl	4.888	172	68581	819.71	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 81.97%			
11) Pyrene-d10	7.344	212	75793	776.12	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 77.61%			
18) Terphenyl-d14	7.513	244	61748	707.54	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 70.75%			
Target Compounds						Qvalue
3) Naphthalene	4.105	128	41344	374.77	ppb	100
4) 2-Methylnaphthalene	4.619	142	17050	268.40	ppb	100
5) 1-Methylnaphthalene	4.681	142	33236	422.67	ppb	100
8) Acenaphthylene	5.230	152	43195	374.82	ppb	100
9) Acenaphthene	5.361	153	28869	380.54	ppb	100
12) Fluorene	5.723	166	33692	387.61	ppb	100
13) Phenanthrene	6.352	178	42365	367.53	ppb	100
14) Anthracene	6.391	178	53671	487.24	ppb	100
15) Fluoranthene	7.188	202	54471	392.20	ppb	100
16) Pyrene	7.356	202	55650	388.34	ppb	100
19) Benzo[a]anthracene	8.433	228	42273	377.89	ppb	100
20) Chrysene	8.476	228	54740	397.27	ppb	100
22) Benzo[b]fluoranthene	9.540	252	37694	348.07	ppb	100
23) Benzo(j,k)fluoranthene	9.560	252	53759	392.13	ppb	100
24) Benzo[a]pyrene	9.856	252	45829	396.83	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.954	276	46502	384.16	ppb	100
26) Dibenz[a,h]anthracene	10.978	278	38522	389.32	ppb	100
27) Benzo[g,h,i]perylene	11.212	276	38322	401.80	ppb	100

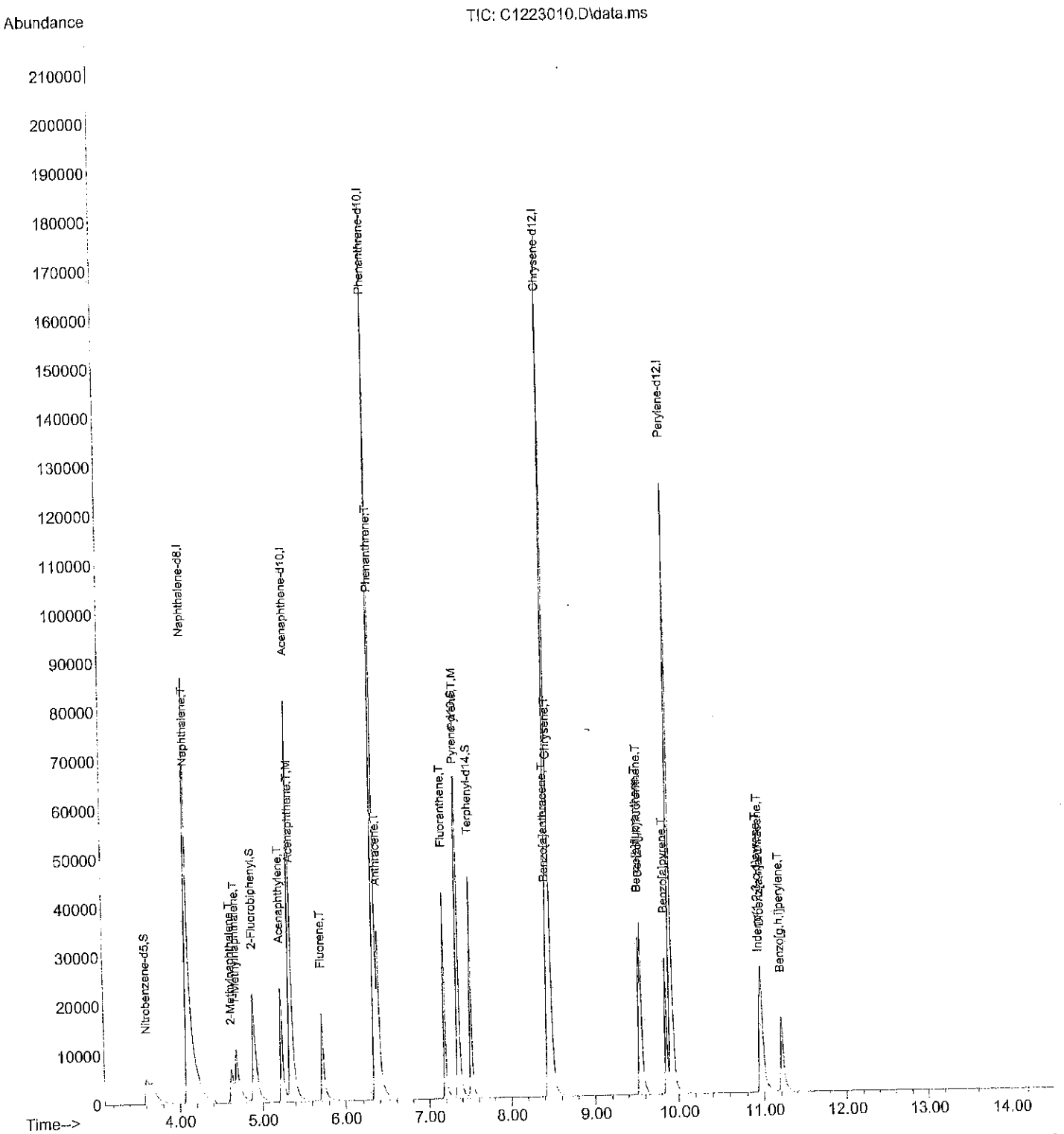
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/24/14 JM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223010.D
Acq On : 23 Dec 2014 5:03 pm
Operator :
Sample : 12-255-02 MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 23 17:18:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C141223\
Data File : C1223003.D
Acq On : 23 Dec 2014 1:44 pm
Operator :
Sample : PAH CCV1223
Misc : SV4-48-02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 13:59:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8	2000.000	2000.000	0.0	84	0.00
2 S	Nitrobenzene-d5	500.000	504.856	-1.0	87	0.00
3 T	Naphthalene	500.000	480.512	3.9	84	0.00
4 T	2-Methylnaphthalene	500.000	410.098	18.0	71	0.00
5 T	1-Methylnaphthalene	500.000	534.920	-7.0	88	0.00
6 I	Acenaphthene-d10	2000.000	2000.000	0.0	81	0.00
7 S	2-Fluorobiphenyl	500.000	492.325	1.5	84	0.00
8 T	Acenaphthylene	500.000	488.661	2.3	84	0.00
9 T,M	Acenaphthene	500.000	495.170	1.0	84	0.00
10 I	Phenanthrene-d10	2000.000	2000.000	0.0	81	0.00
11 S	Pyrene-d10	500.000	490.158	2.0	85	0.00
12 T	Fluorene	500.000	489.763	2.0	84	0.00
13 T	Phenanthrene	500.000	467.204	6.6	85	0.00
14 T	Anthracene	500.000	440.593	11.9	80	0.00
15 T	Fluoranthene	500.000	489.921	2.0	86	0.00
16 T,M	Pyrene	500.000	492.634	1.5	85	0.00
17 I	Chrysene-d12	2000.000	2000.000	0.0	80	0.00
18 S	Terphenyl-d14	500.000	486.057	2.8	85	0.00
19 T	Benzo[a]anthracene	500.000	518.201	-3.6	85	0.00
20 T	Chrysene	500.000	480.950	3.8	82	0.00
21 I	Perylene-d12	2000.000	2000.000	0.0	79	0.00
22 T	Benzo[b]fluoranthene	500.000	552.226	-10.4	96	0.00
23 T	Benzo(j,k)fluoranthene	500.000	454.916	9.0	82	0.00
24 T	Benzo[a]pyrene	500.000	513.212	-2.6	83	0.00
25 T	Indeno(1,2,3-c,d)pyrene	500.000	490.033	2.0	80	0.00
26 T	Dibenz[a,h]anthracene	500.000	490.168	2.0	80	0.00
27 T	Benzo[g,h,i]perylene	500.000	498.634	0.3	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223003.D
Acq On : 23 Dec 2014 1:44 pm
Operator :
Sample : PAH CCV1223
Misc : SV4-48-02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 13:59:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.088	136	211627	2000.00	ppb	0.00
6) Acenaphthene-d10	5.337	164	119475	2000.00	ppb	0.00
10) Phenanthrene-d10	6.336	188	234265	2000.00	ppb	0.00
17) Chrysene-d12	8.452	240	247164	2000.00	ppb	0.00
21) Perylene-d12	9.915	264	215432	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.600	82	18351	504.86	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 50.49%			
7) 2-Fluorobiphenyl	4.887	172	41144	492.33	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 49.23%			
11) Pyrene-d10	7.340	212	49047	490.16	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.02%			
18) Terphenyl-d14	7.508	244	42784	486.06	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 48.61%			
Target Compounds						Qvalue
3) Naphthalene	4.105	128	53265	480.51	ppb	100
4) 2-Methylnaphthalene	4.613	142	26177	410.10	ppb	100
5) 1-Methylnaphthalene	4.676	142	42265	534.92	ppb	100
8) Acenaphthylene	5.229	152	56251	488.66	ppb	100
9) Acenaphthene	5.360	153	37523	495.17	ppb	100
12) Fluorene	5.714	166	43621	489.76	ppb	100
13) Phenanthrene	6.351	178	55182	467.20	ppb	100
14) Anthracene	6.387	178	49729	440.59	ppb	100
15) Fluoranthene	7.183	202	69721	489.92	ppb	100
16) Pyrene	7.351	202	72336	492.63	ppb	100
19) Benzo[a]anthracene	8.432	228	58468	518.20	ppb	100
20) Chrysene	8.475	228	66840	480.95	ppb	100
22) Benzo[b]fluoranthene	9.536	252	60210	552.23	ppb	100
23) Benzo(j,k)fluoranthene	9.560	252	62792	454.92	ppb	100
24) Benzo[a]pyrene	9.852	252	59674	513.21	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.946	276	59721	490.03	ppb	100
26) Dibenz[a,h]anthracene	10.969	278	48831	490.17	ppb	100
27) Benzo[g,h,i]perylene	11.207	276	47882	498.63	ppb	100

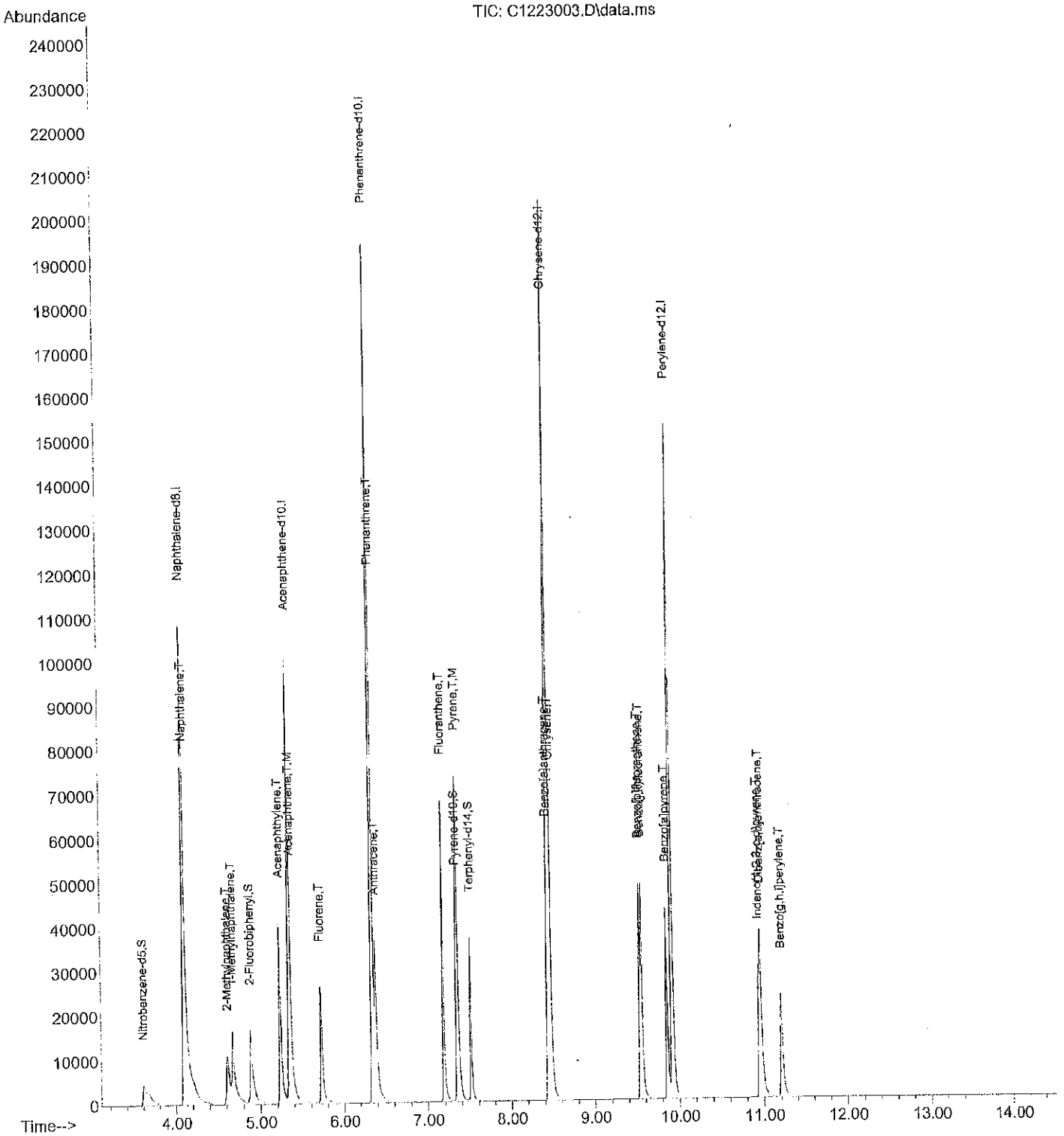
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/23/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141223\
Data File : C1223003.D
Acq On : 23 Dec 2014 1:44 pm
Operator :
Sample : PAH CCV1223
Misc : SV4-48-02
ALS Vial : 3 Sample Multiplier: 1

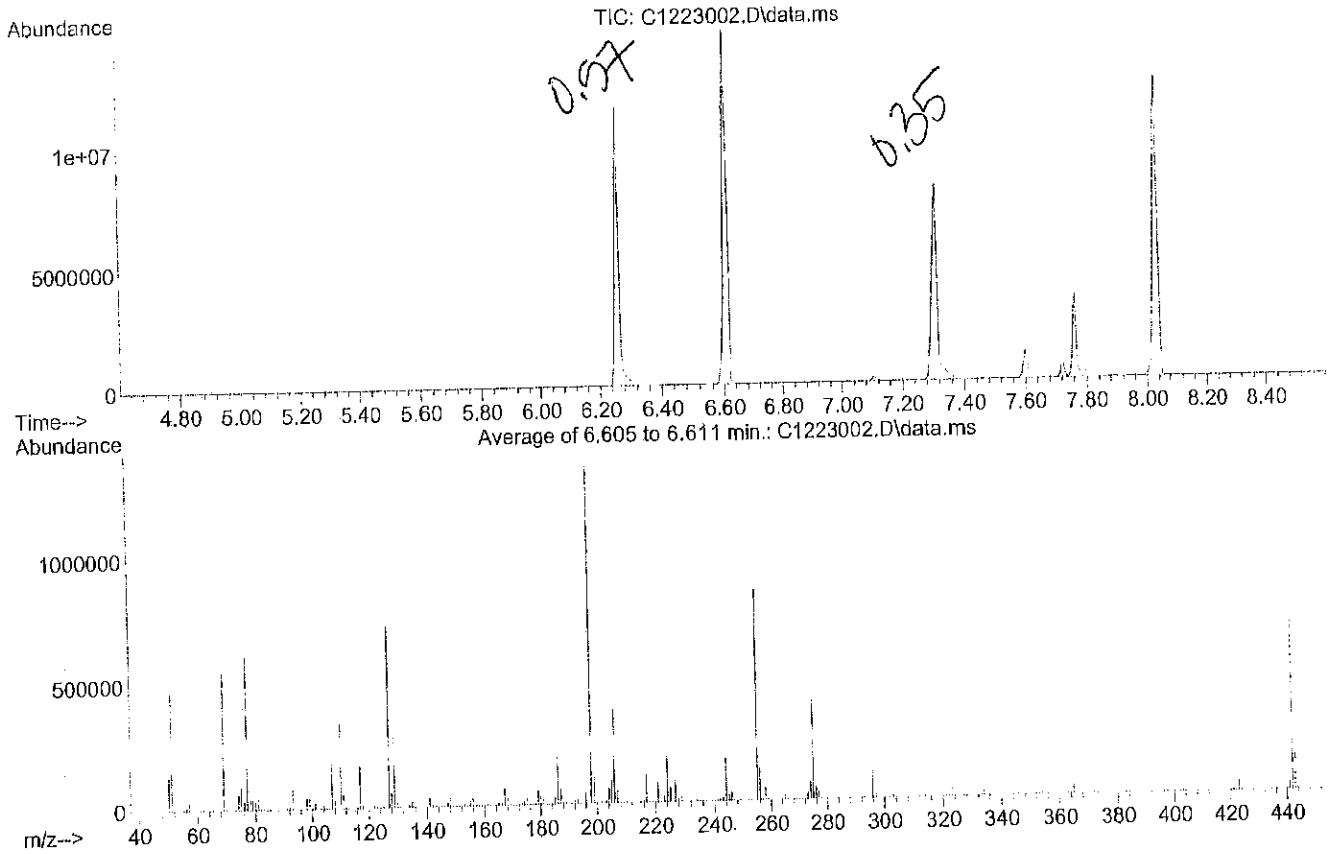
Quant Time: Dec 23 13:59:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1222.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon Dec 22 16:38:26 2014
Response via : Initial Calibration



Data Path : X:\SEMIVOLS\COREY\DATA\C141223\
Data File : C1223002.D
Acq On : 23 Dec 2014 1:23 pm
Operator :
Sample : DFTPP
Misc : SV4-46-13
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM1222.M
Title : PAH'S BY SIMS
Last Update : Mon Dec 22 16:38:26 2014



Spectrum Information: Average of 6.605 to 6.611 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	34.8	472320	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.9	556000	PASS
70	69	0.00	2	0.6	3374	PASS
127	198	25	75	53.9	732000	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1357952	PASS
199	198	5	9	7.9	107496	PASS
275	198	10	30	29.6	401536	PASS
365	198	0.75	100	3.3	44256	PASS
441	443	0.01	100	22.6	32432	PASS
442	198	40	110	52.4	711392	PASS
443	442	15	24	20.2	143436	PASS

Total Cadmium Data

P141222F1B. Mean Only Report 12/23/2014, 9:10:32 AM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	12/22/2014, 9:36:12 AM
Standard 5	Cd 228.802	10.000	ppb	12/22/2014, 9:41:40 AM
Standard 4	Cd 228.802	100.00	ppb	12/22/2014, 9:46:16 AM
Standard 3	Cd 228.802	1000.0	ppb	12/22/2014, 9:50:52 AM
Standard 2	Cd 228.802	2500.0	ppb	12/22/2014, 9:55:29 AM
Standard 1	Cd 228.802	5000.0	ppb	12/22/2014, 10:00:03 AM
Initial Calib Verif	Cd 228.802	1020.3	ppb	12/22/2014, 10:11:03 AM
LLICV	Cd 228.802	11.593	ppb	12/22/2014, 10:27:57 AM
Initial Calib Blank	Cd 228.802	0.798uv	ppb	12/22/2014, 10:34:54 AM
Cont Calib Verif	Cd 228.802	1019.4	ppb	12/22/2014, 10:39:31 AM
Cont Calib Blank	Cd 228.802	1.823	ppb	12/22/2014, 10:44:08 AM
ICSA	Cd 228.802	-1.642uv	ppb	12/22/2014, 10:48:43 AM
ICSAB	Cd 228.802	909.20	ppb	12/22/2014, 10:53:17 AM
MB1222TM1	Cd 228.802	1.632	ppb	12/22/2014, 11:01:45 AM
SB1222TM1	Cd 228.802	1017.3	ppb	12/22/2014, 11:06:22 AM
12-188-03	Cd 228.802	1.286uv	ppb	12/22/2014, 11:10:59 AM
12-188-03 D	Cd 228.802	-0.536uv	ppb	12/22/2014, 11:15:35 AM
12-188-03 L	Cd 228.802	0.953uv	ppb	12/22/2014, 11:20:12 AM
12-188-03 MS	Cd 228.802	997.71	ppb	12/22/2014, 11:24:48 AM
12-188-03 MSD	Cd 228.802	988.73	ppb	12/22/2014, 11:29:24 AM
Cont Calib Verif	Cd 228.802	1013.8	ppb	12/22/2014, 11:34:02 AM
Cont Calib Blank	Cd 228.802	3.180	ppb	12/22/2014, 11:40:04 AM
LLCCV	Cd 228.802	10.010	ppb	12/22/2014, 11:44:39 AM
MB1222WH1	Cd 228.802	-0.397uv	ppb	12/22/2014, 12:15:31 PM
SB1222WH1	Cd 228.802	999.89	ppb	12/22/2014, 12:20:05 PM
12-036-04a	Cd 228.802	0.779	ppb	12/22/2014, 12:24:40 PM
12-036-04a D	Cd 228.802	-0.973uv	ppb	12/22/2014, 12:29:16 PM
12-036-04a L	Cd 228.802	0.659uv	ppb	12/22/2014, 12:33:49 PM
12-036-04a MS	Cd 228.802	979.05	ppb	12/22/2014, 12:38:23 PM
12-036-04a MSD	Cd 228.802	967.81	ppb	12/22/2014, 12:42:57 PM
12-187-16	Cd 228.802	3.656	ppb	12/22/2014, 12:47:32 PM
12-187-17	Cd 228.802	-0.178uv	ppb	12/22/2014, 12:52:07 PM
BLK	Cd 228.802	0.711uv	ppb	12/22/2014, 12:56:43 PM
Cont Calib Verif	Cd 228.802	1029.5	ppb	12/22/2014, 1:01:17 PM
Cont Calib Blank	Cd 228.802	-0.096uv	ppb	12/22/2014, 2:12:29 PM
LLCCV	Cd 228.802	10.841	ppb	12/22/2014, 2:17:03 PM
12-187-18	Cd 228.802	1.192	ppb	12/22/2014, 2:24:22 PM
12-187-19	Cd 228.802	-0.636uv	ppb	12/22/2014, 2:28:58 PM
12-187-20	Cd 228.802	0.541	ppb	12/22/2014, 2:33:34 PM
12-187-21	Cd 228.802	1.221	ppb	12/22/2014, 2:38:10 PM
12-203-01	Cd 228.802	2795.6	ppb	12/22/2014, 2:44:56 PM
12-203-02	Cd 228.802	2761.9	ppb	12/22/2014, 2:49:34 PM
12-203-03	Cd 228.802	2649.2	ppb	12/22/2014, 2:54:09 PM
12-203-04	Cd 228.802	1525.2	ppb	12/22/2014, 2:58:47 PM
12-203-05	Cd 228.802	481.33	ppb	12/22/2014, 3:03:23 PM
BLK	Cd 228.802	0.500	ppb	12/22/2014, 3:07:58 PM
Cont Calib Verif	Cd 228.802	1051.5	ppb	12/22/2014, 3:20:05 PM
Cont Calib Blank	Cd 228.802	-1.026uv	ppb	12/22/2014, 3:25:54 PM
LLCCV	Cd 228.802	10.169	ppb	12/22/2014, 3:30:30 PM
12-203-06	Cd 228.802	133.69	ppb	12/22/2014, 3:41:31 PM
12-203-07	Cd 228.802	14.127	ppb	12/22/2014, 3:46:54 PM
12-203-08	Cd 228.802	0.993uv	ppb	12/22/2014, 3:51:29 PM

P141222F1B. Mean Only Report 12/23/2014, 9:10:32 AM

Sample	Label	Calc Conc.	Units	Date/Time
12-203-09	Cd 228.802	2463.5	ppb	12/22/2014, 3:56:03 PM
12-203-10	Cd 228.802	528.65	ppb	12/22/2014, 4:00:37 PM
12-203-11	Cd 228.802	96.589	ppb	12/22/2014, 4:05:11 PM
12-203-12	Cd 228.802	2717.3	ppb	12/22/2014, 4:09:47 PM
12-203-13	Cd 228.802	1258.4	ppb	12/22/2014, 4:14:20 PM
BLK	Cd 228.802	2.390	ppb	12/22/2014, 4:18:56 PM
Cont Calib Verif	Cd 228.802	1027.7	ppb	12/22/2014, 4:43:37 PM
Cont Calib Blank	Cd 228.802	0.191uv	ppb	12/22/2014, 4:49:14 PM
LLCCV	Cd 228.802	11.596	ppb	12/22/2014, 4:53:48 PM
MB1222SM1	Cd 228.802	0.315uv	ppb	12/22/2014, 5:22:12 PM
SB1222SM1	Cd 228.802	1033.6	ppb	12/22/2014, 5:26:47 PM
12-255-02	Cd 228.802	4.017	ppb	12/22/2014, 5:31:21 PM
12-255-02 D	Cd 228.802	3.979	ppb	12/22/2014, 5:35:53 PM
12-255-02 L	Cd 228.802	1.657	ppb	12/22/2014, 5:40:27 PM
12-255-02 MS	Cd 228.802	988.42	ppb	12/22/2014, 5:45:02 PM
12-255-02 MSD	Cd 228.802	1031.8	ppb	12/22/2014, 5:49:38 PM
12-140-01 X 5	Cd 228.802	15.005	ppb	12/22/2014, 5:54:12 PM
12-140-01	Cd 228.802	4.096	ppb	12/22/2014, 5:58:46 PM
BLK	Cd 228.802	0.384uv	ppb	12/22/2014, 6:03:20 PM
Cont Calib Verif	Cd 228.802	1058.0	ppb	12/22/2014, 6:07:55 PM
Cont Calib Blank	Cd 228.802	3.429	ppb	12/22/2014, 6:12:29 PM
LLCCV	Cd 228.802	11.967	ppb	12/22/2014, 6:17:05 PM
12-255-01	Cd 228.802	5.653	ppb	12/22/2014, 6:21:41 PM
12-255-03	Cd 228.802	3.444	ppb	12/22/2014, 6:26:17 PM
12-255-04	Cd 228.802	8.298	ppb	12/22/2014, 6:30:53 PM
12-255-05	Cd 228.802	1.646	ppb	12/22/2014, 6:35:26 PM
12-255-06	Cd 228.802	2.541	ppb	12/22/2014, 6:39:59 PM
12-255-07	Cd 228.802	3.497	ppb	12/22/2014, 6:44:33 PM
12-197-01	Cd 228.802	132.29	ppb	12/22/2014, 6:49:07 PM
12-197-02	Cd 228.802	10.754	ppb	12/22/2014, 6:53:42 PM
12-197-03	Cd 228.802	7.789	ppb	12/22/2014, 6:58:15 PM
BLK	Cd 228.802	3.044	ppb	12/22/2014, 7:02:50 PM
Cont Calib Verif	Cd 228.802	1057.3	ppb	12/22/2014, 7:07:25 PM
Cont Calib Blank	Cd 228.802	2.268	ppb	12/22/2014, 7:12:01 PM
LLCCV	Cd 228.802	11.740	ppb	12/22/2014, 7:16:34 PM

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 5, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1412-293

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on December 29, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

Case Narrative

Samples were collected on December 29, 2014 and received by the laboratory on December 29, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BENZENE (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-25-7.0	12-293-01	Soil	12-29-14	12-29-14	
EX-26-7.0	12-293-02	Soil	12-29-14	12-29-14	
EX-27-9.0	12-293-03	Soil	12-29-14	12-29-14	
EX-28-7.5	12-293-04	Soil	12-29-14	12-29-14	
EX-29-9.0	12-293-05	Soil	12-29-14	12-29-14	
TRIP BLANK-122914	12-293-06	Water	---	12-29-14	

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-25-7.0**					
Laboratory ID:	12-293-01					
Benzene	**ND**	0.020	EPA 8021B	12-30-14	12-30-14	
Gasoline	**ND**	3.2	NWTPH-Gx	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*68-123*				
Client ID:	**EX-26-7.0**					
Laboratory ID:	12-293-02					
Benzene	**ND**	0.020	EPA 8021B	12-30-14	12-30-14	
Gasoline	**ND**	4.1	NWTPH-Gx	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*68-123*				
Client ID:	**EX-27-9.0**					
Laboratory ID:	12-293-03					
Benzene	**ND**	0.020	EPA 8021B	12-30-14	12-30-14	
Gasoline	**ND**	3.3	NWTPH-Gx	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*68-123*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-28-7.5**					
Laboratory ID:	12-293-04					
Benzene	**ND**	0.020	EPA 8021B	12-30-14	12-30-14	
Gasoline	**ND**	4.5	NWTPH-Gx	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*68-123*				
Client ID:	**EX-29-9.0**					
Laboratory ID:	12-293-05					
Benzene	**ND**	0.021	EPA 8021B	12-30-14	12-30-14	
Gasoline	**ND**	11	NWTPH-Gx	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*68-123*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TRIP BLANK-122914**					
Laboratory ID:	12-293-06					
Benzene	**ND**	1.0	EPA 8021B	12-31-14	12-31-14	
Gasoline	**ND**	100	NWTPH-Gx	12-31-14	12-31-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*71-113*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-25-7.0**					
Laboratory ID:	12-293-01					
Diesel Range Organics	**ND**	30	NWTPH-Dx	12-30-14	12-30-14	X1
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	12-30-14	12-30-14	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**EX-26-7.0**					
Laboratory ID:	12-293-02					
Diesel Range Organics	**ND**	32	NWTPH-Dx	12-30-14	12-30-14	X1
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	12-30-14	12-30-14	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				
Client ID:	**EX-27-9.0**					
Laboratory ID:	12-293-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	12-30-14	12-30-14	X1
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	12-30-14	12-30-14	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				
Client ID:	**EX-28-7.5**					
Laboratory ID:	12-293-04					
Diesel Range Organics	**ND**	31	NWTPH-Dx	12-30-14	12-30-14	X1
Lube Oil Range Organics	**ND**	63	NWTPH-Dx	12-30-14	12-30-14	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**EX-29-9.0**					
Laboratory ID:	12-293-05					
Diesel Range Organics	**ND**	35	NWTPH-Dx	12-30-14	12-30-14	X1
Lube Oil Range Organics	**ND**	71	NWTPH-Dx	12-30-14	12-30-14	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-25-7.0**					
Laboratory ID:	12-293-01					
Benzo[a]anthracene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Chrysene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[b]fluoranthene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[a]pyrene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*78*	*32 - 114*				
Pyrene-d10	*66*	*33 - 121*				
Terphenyl-d14	*58*	*31 - 116*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-26-7.0**					
Laboratory ID:	12-293-02					
Benzo[a]anthracene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Chrysene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[b]fluoranthene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[a]pyrene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Dibenz[a,h]anthracene	**ND**	0.0085	EPA 8270D/SIM	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*93*	*32 - 114*				
Pyrene-d10	*86*	*33 - 121*				
Terphenyl-d14	*77*	*31 - 116*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-27-9.0**					
Laboratory ID:	12-293-03					
Benzo[a]anthracene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Chrysene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[b]fluoranthene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[a]pyrene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270D/SIM	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*51*	*32 - 114*				
Pyrene-d10	*95*	*33 - 121*				
Terphenyl-d14	*87*	*31 - 116*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-28-7.5**					
Laboratory ID:	12-293-04					
Benzo[a]anthracene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Chrysene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[b]fluoranthene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[a]pyrene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Dibenz[a,h]anthracene	**ND**	0.0084	EPA 8270D/SIM	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*94*	*32 - 114*				
Pyrene-d10	*83*	*33 - 121*				
Terphenyl-d14	*75*	*31 - 116*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-29-9.0**					
Laboratory ID:	12-293-05					
Benzo[a]anthracene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Chrysene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270D/SIM	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*68*	*32 - 114*				
Pyrene-d10	*80*	*33 - 121*				
Terphenyl-d14	*72*	*31 - 116*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-293-01					
Client ID:	**EX-25-7.0**					
Cadmium	**ND**	0.60	6010C	12-30-14	12-30-14	
Lab ID:	12-293-02					
Client ID:	**EX-26-7.0**					
Cadmium	**ND**	0.64	6010C	12-30-14	12-30-14	
Lab ID:	12-293-03					
Client ID:	**EX-27-9.0**					
Cadmium	**ND**	0.60	6010C	12-30-14	12-30-14	
Lab ID:	12-293-04					
Client ID:	**EX-28-7.5**					
Cadmium	**ND**	0.63	6010C	12-30-14	12-30-14	
Lab ID:	12-293-05					
Client ID:	**EX-29-9.0**					
Cadmium	**ND**	0.70	6010C	12-30-14	12-30-14	

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230S1					
Benzene	**ND**	0.020	EPA 8021B	12-30-14	12-30-14	
Gasoline	**ND**	5.0	NWTPH-Gx	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*72*	*68-123*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-293-03										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*96*	*101*	*68-123*			
SPIKE BLANKS											
Laboratory ID:	SB1230S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**1.01**	**1.07**	1.00	1.00		**101**	**107**	75-117	6	13	
Surrogate:											
Fluorobenzene						*94*	*99*	*68-123*			

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD1230G-1	5.00	4.67	7	+/- 20%
CCVD1230G-2	5.00	4.74	5	+/- 20%

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD1230B-1	50.0	50.7	-1	+/- 15%
Benzene	CCVD1230B-2	50.0	51.9	-4	+/- 15%

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Benzene	**ND**	1.0	EPA 8021B	12-31-14	12-31-14	
Gasoline	**ND**	100	NWTPH-Gx	12-31-14	12-31-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*71-113*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-296-05										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*95*	*92*	*71-113*			
MATRIX SPIKES											
Laboratory ID:	12-296-05										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**49.6**	**51.3**	50.0	50.0	ND	**99**	**103**	82-120	3	14	
Surrogate:											
Fluorobenzene						*98*	*102*	*71-113*			

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD1231G-1	5.00	4.67	7	+/- 20%
CCVD1231G-2	5.00	4.59	8	+/- 20%

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD1231B-1	50.0	50.8	-2	+/- 15%
Benzene	CCVD1231B-2	50.0	52.4	-5	+/- 15%

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-30-14	12-30-14	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-30-14	12-30-14	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-293-03										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Surrogate:											
o-Terphenyl						*82*	*85*	*50-150*			

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV1230F-T1	100	94.1	5.9	+/-15%
CCV1230F-T2	100	97.8	2.2	+/-15%

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1230S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-30-14	12-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*70*	*32 - 114*				
Pyrene-d10	*93*	*33 - 121*				
Terphenyl-d14	*85*	*31 - 116*				

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-293-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0459**	**0.0508**	0.0833	0.0833	ND	55	61	42 - 134	10	27	
Chrysene	**0.0639**	**0.0695**	0.0833	0.0833	ND	77	83	45 - 114	8	27	
Benzo[b]fluoranthene	**0.0572**	**0.0653**	0.0833	0.0833	ND	69	78	38 - 131	13	33	
Benzo(j,k)fluoranthene	**0.0567**	**0.0586**	0.0833	0.0833	ND	68	70	44 - 114	3	34	
Benzo[a]pyrene	**0.0614**	**0.0667**	0.0833	0.0833	ND	74	80	40 - 136	8	29	
Indeno(1,2,3-c,d)pyrene	**0.0542**	**0.0578**	0.0833	0.0833	ND	65	69	45 - 126	6	30	
Dibenz[a,h]anthracene	**0.0560**	**0.0597**	0.0833	0.0833	ND	67	72	46 - 121	6	28	
Surrogate:											
2-Fluorobiphenyl						*91*	*102*	*32 - 114*			
Pyrene-d10						*81*	*91*	*33 - 121*			
Terphenyl-d14						*70*	*80*	*31 - 116*			

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-30-14
Date Analyzed:	12-30-14
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1230SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 12-30-14
Date Analyzed: 12-30-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-256-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 12-30-14
Date Analyzed: 12-30-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-256-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**47.7**	95	**46.7**	93	2	

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV	1.00	1.02	-2.0	+/- 10%
Cadmium	LLICV	0.0100	0.0109	-9.0	+/- 30%
Cadmium	CCV1	1.00	1.03	-3.0	+/- 10%
Cadmium	CCV2	1.00	1.06	-6.0	+/- 10%
Cadmium	LLCCV2	0.0100	0.0107	-7.0	+/- 30%
Cadmium	CCV3	1.00	1.01	-1.0	+/- 10%
Cadmium	LLCCV3	0.0100	0.0115	-15	+/- 30%
Cadmium	CCV4	1.00	1.02	-2.0	+/- 10%
Cadmium	LLCCV4	0.0100	0.00829	17	+/- 30%

Date of Report: January 5, 2015
Samples Submitted: December 29, 2014
Laboratory Reference: 1412-293
Project: 5147-012-06

% MOISTURE

Date Analyzed: 12-30-14

Client ID	Lab ID	% Moisture
EX-25-7.0	12-293-01	17
EX-26-7.0	12-293-02	21
EX-27-9.0	12-293-03	17
EX-28-7.5	12-293-04	20
EX-29-9.0	12-293-05	29

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

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Company: GEOENGINEERS INC.
Project Number: 5147-012-00
Project Name: FORMER SHELL TANK FARM SITE
Project Manager: ABHIJIT JOSHI
Sampled by: NATHAN SOLOMON

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 12-293

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx w/ SILICA CLEANUP	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BENZENE 8021B	cPAHs 8270D/SIM	CADMIUM 6010C			% Moisture
1	EX-25-7.0	12/29/14	1015	SOIL	2			X	X													X	X	X			
2	EX-26-7.0		1020					X	X													X	X	X			
3	EX-27-9.0		1025					X	X													X	X	X			
4	EX-28-7.5		1180					X	X													X	X	X			
5	EX-29-9.0		1200					X	X													X	X	X			
6	TRIPBLANK-122914	NA	NA	LIQUID	2			X														X					

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	12/29/14	1250	
Received		Alpha	12/29/14	1250	
Relinquished		Alpha	12/29/14	1505	
Received			12/29/14	1500	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 12-293

Initiated by: MM

Date Initiated: 12/29/14

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 5	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

//SERVER\OSE\Administration\forms\cooler_checklist.xls

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D141230\1230011.D\FID2B.CH
Acq On : 30 Dec 2014 15:56 Operator:
Sample : 12-293-01s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 16:24 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.96	2536276	36.516 PPB
5)	S	BROMOFLUOROBENZENE	12.31	1520929	37.423 PPB
11)	S	FLUOROBENZENE #2	6.96	6238309	28.033 PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	9012537	29.983 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	2404803	0.042 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	6489181	0.088 PPM
3)	H	GASOLINE (9-24-14)	13.51	3354954	0.063 PPM
7)	H	entire GAS envelope #2 (9-	12.26	21139778	0.098 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	15736327	0.084 PPM
9)		MTBE #2	0.00	0	N.D. PPB
10)		BENZENE #2	6.73	26860	0.047 PPB
12)		TOLUENE #2	9.10	464856	1.495 PPB
13)		ETHYLBENZENE #2	11.07	49893	0.085 PPB
14)		m,p-XYLENE #2	11.33	177504	0.065 PPB
15)		o-XYLENE #2	11.82	62183	N.D. PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

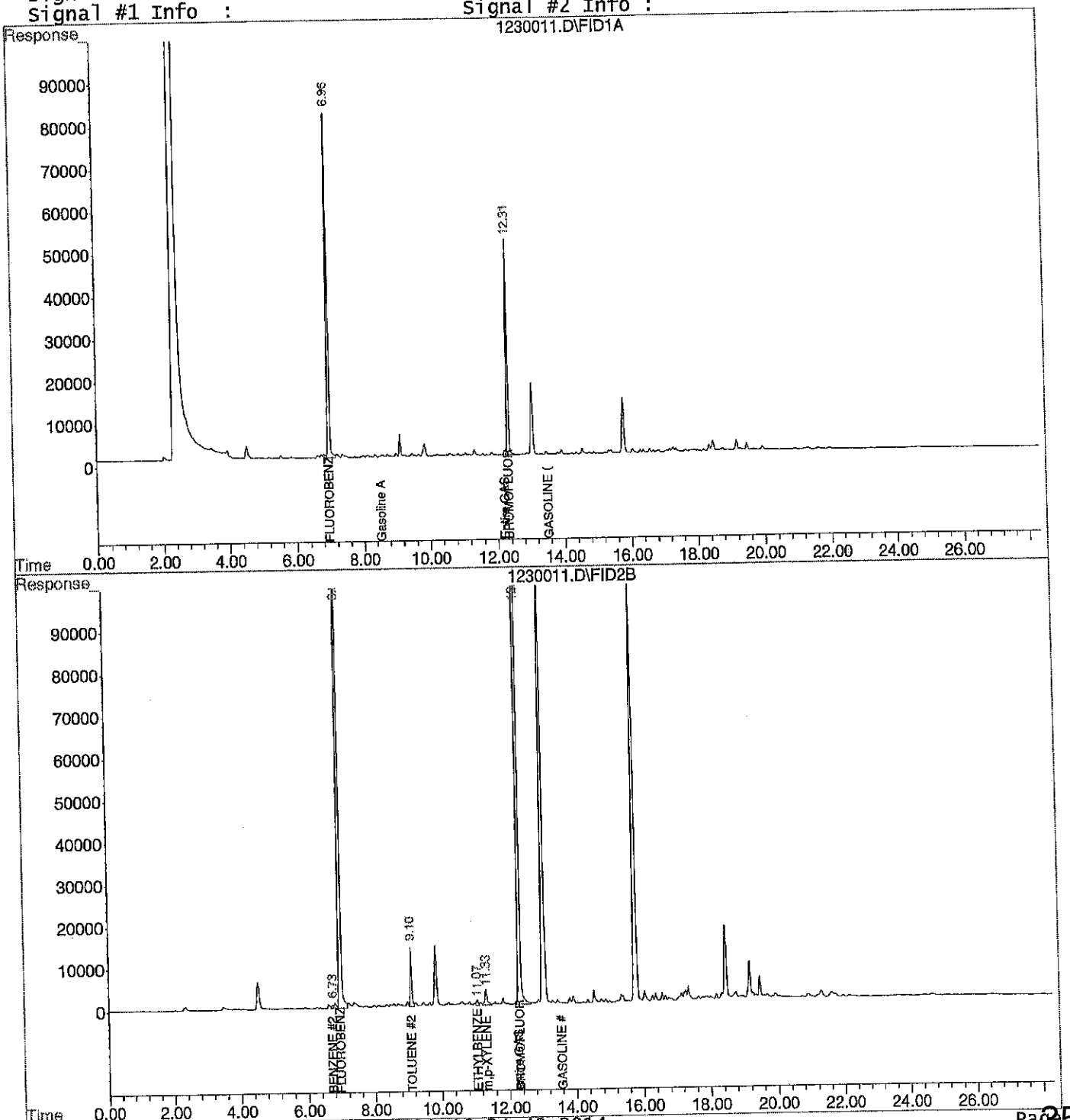
Signal #1 : d:\btex\DATA\D141230\1230011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D141230\1230011.D\FID2B.CH
Acq On : 30 Dec 2014 15:56 Operator:
Sample : 12-293-01s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 16:24 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D141230\1230012.D\FID2B.CH
Acq On : 30 Dec 2014 16:29 Operator:
Sample : 12-293-02s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 16:58 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	2113613	30.376	PPB
5)	S	BROMOFLUOROBENZENE	12.31	1293222	31.734	PPB
11)	S	FLUOROBENZENE #2	6.95	5526514	24.797	PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	7836501	26.010	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1032871	0.014	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3037757	0.035	PPM
3)	H	GASOLINE (9-24-14)	13.51	1209352	0.009	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6441678	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3983970	N.D.	PPM
9)		MTBE #2	0.00	0	N.D.	PPB
10)		BENZENE #2	6.72	18314	0.018	PPB
12)		TOLUENE #2	9.10	70757	0.077	PPB
13)		ETHYLBENZENE #2	11.07	24943	N.D.	PPB
14)		m,p-XYLENE #2	11.32	83107	N.D.	PPB
15)		o-XYLENE #2	11.82	34160	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

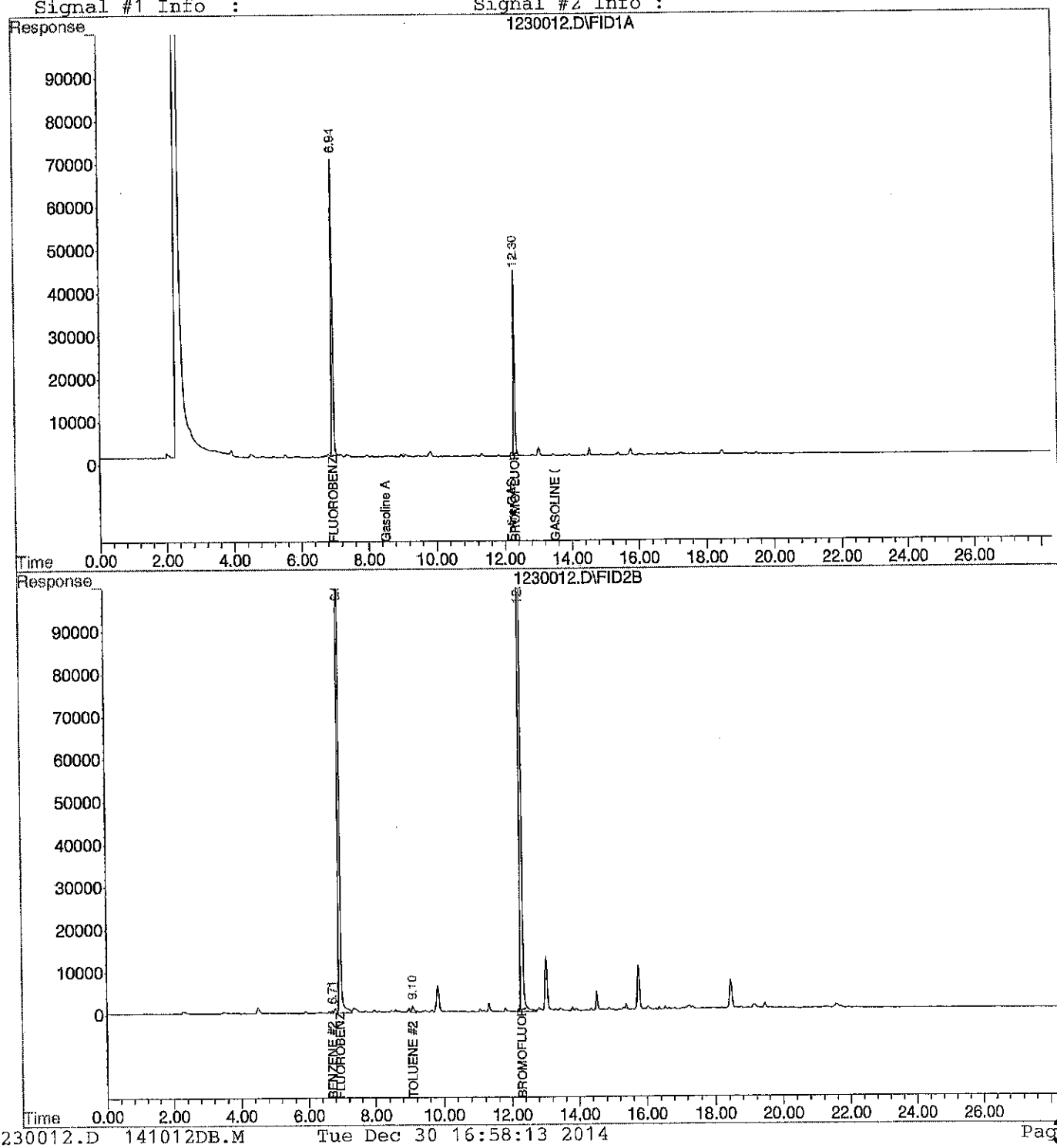
Signal #1 : d:\btex\DATA\D141230\1230012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D141230\1230012.D\FID2B.CH
Acq On : 30 Dec 2014 16:29 Operator:
Sample : 12-293-02s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 16:58 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D141230\1230014.D\FID2B.CH
Acq On : 30 Dec 2014 17:37 Operator:
Sample : 12-293-03s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 18:05 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	2230690	32.077	PPB
5)	S	BROMOFLUOROBENZENE	12.31	1371472	33.689	PPB
11)	S	FLUOROBENZENE #2	6.95	5845927	26.249	PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	8442008	28.056	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1307720	0.020	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	12564783	0.181	PPM
3)	H	GASOLINE (9-24-14)	13.51	2686557	0.046	PPM
7)	H	entire GAS envelope #2 (9-	12.26	28884073	0.152	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	6382070	N.D.	PPM
9)		MTBE #2	4.74	3286	N.D.	PPB
10)		BENZENE #2	6.72	23108	0.034	PPB
12)		TOLUENE #2	9.10	53285	0.014	PPB
13)		ETHYLBENZENE #2	11.06	31579	0.011	PPB
14)		m,p-XYLENE #2	11.32	118026	N.D.	PPB
15)		o-XYLENE #2	11.82	36888	N.D.	PPB

Quantitation Report (Not Reviewed)

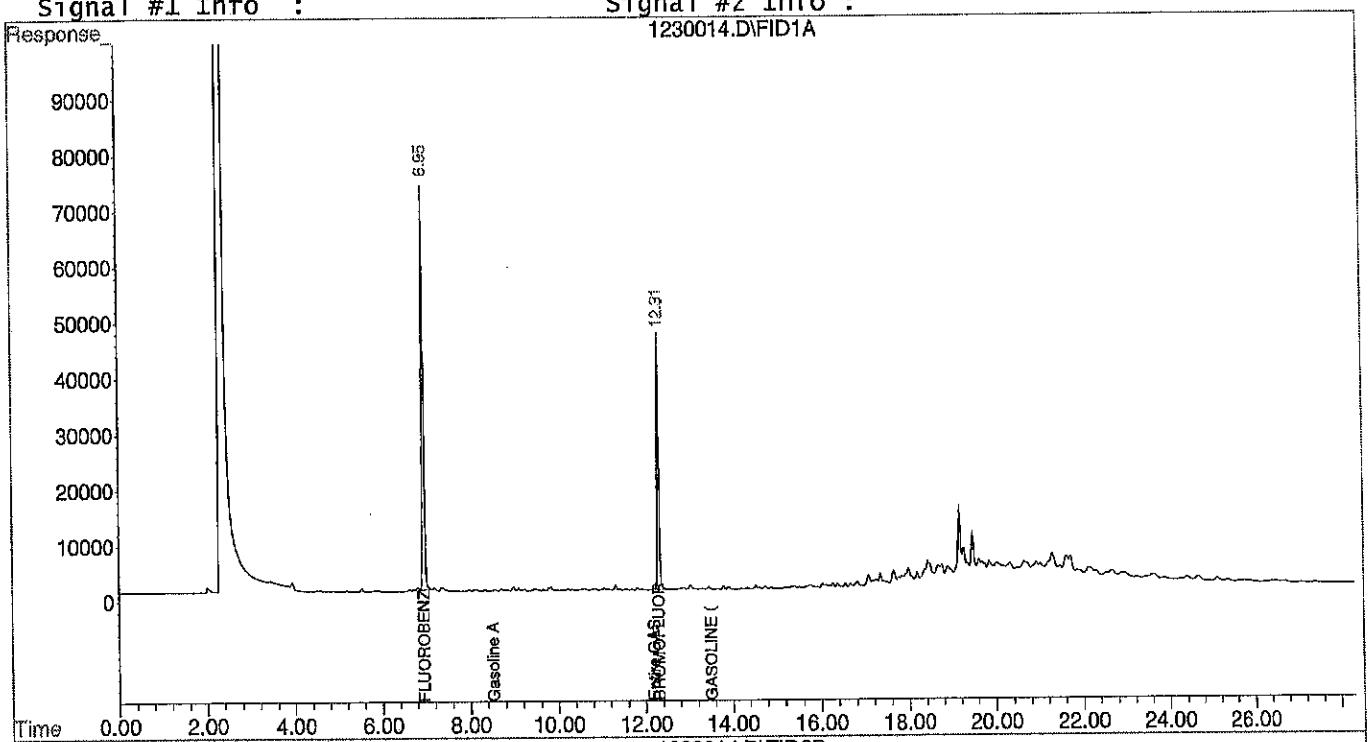
Signal #1 : d:\btex\DATA\D141230\1230014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D141230\1230014.D\FID2B.CH
Acq On : 30 Dec 2014 17:37 Operator:
Sample : 12-293-03s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

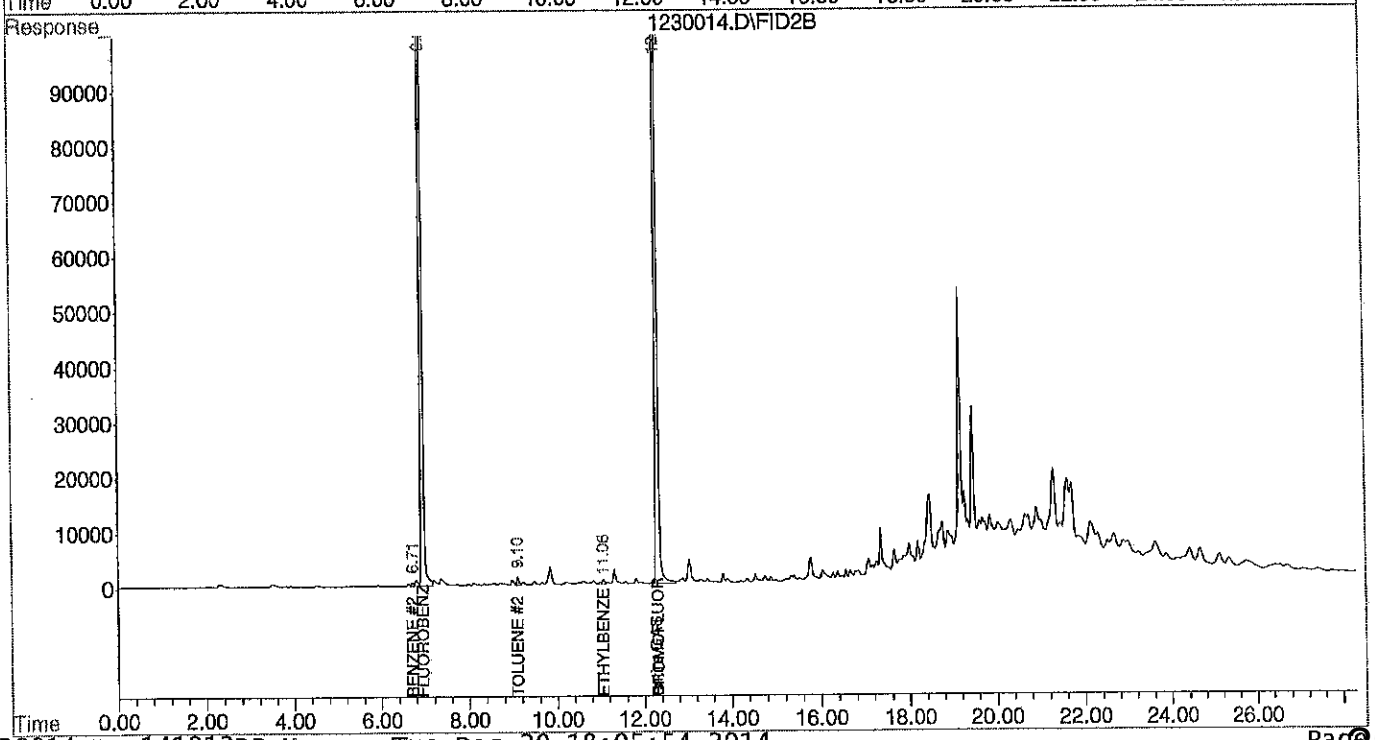
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 18:05 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230013.D\FID1A.CH Vial: 13
Signal #2 : d:\btex\DATA\D141230\1230013.D\FID2B.CH
Acq On : 30 Dec 2014 17:03 Operator:
Sample : 12-293-04s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 17:31 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	2198827	31.614 PPB
5)	S	BROMOFLUOROBENZENE	12.31	1322952	32.477 PPB
11)	S	FLUOROBENZENE #2	6.95	5710916	25.635 PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	8030710	26.666 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	984389	0.013 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3056727	0.035 PPM
3)	H	GASOLINE (9-24-14)	13.51	1233210	0.010 PPM
7)	H	entire GAS envelope #2 (9-	12.26	8045503	0.007 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	5260843	N.D. PPM
9)		MTBE #2	0.00	0	N.D. PPB
10)		BENZENE #2	6.72	19679	0.023 PPB
12)		TOLUENE #2	9.10	58930	0.035 PPB
13)		ETHYLBENZENE #2	11.07	27511	N.D. PPB
14)		m,p-XYLENE #2	11.32	73941	N.D. PPB
15)		o-XYLENE #2	11.82	35753	N.D. PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

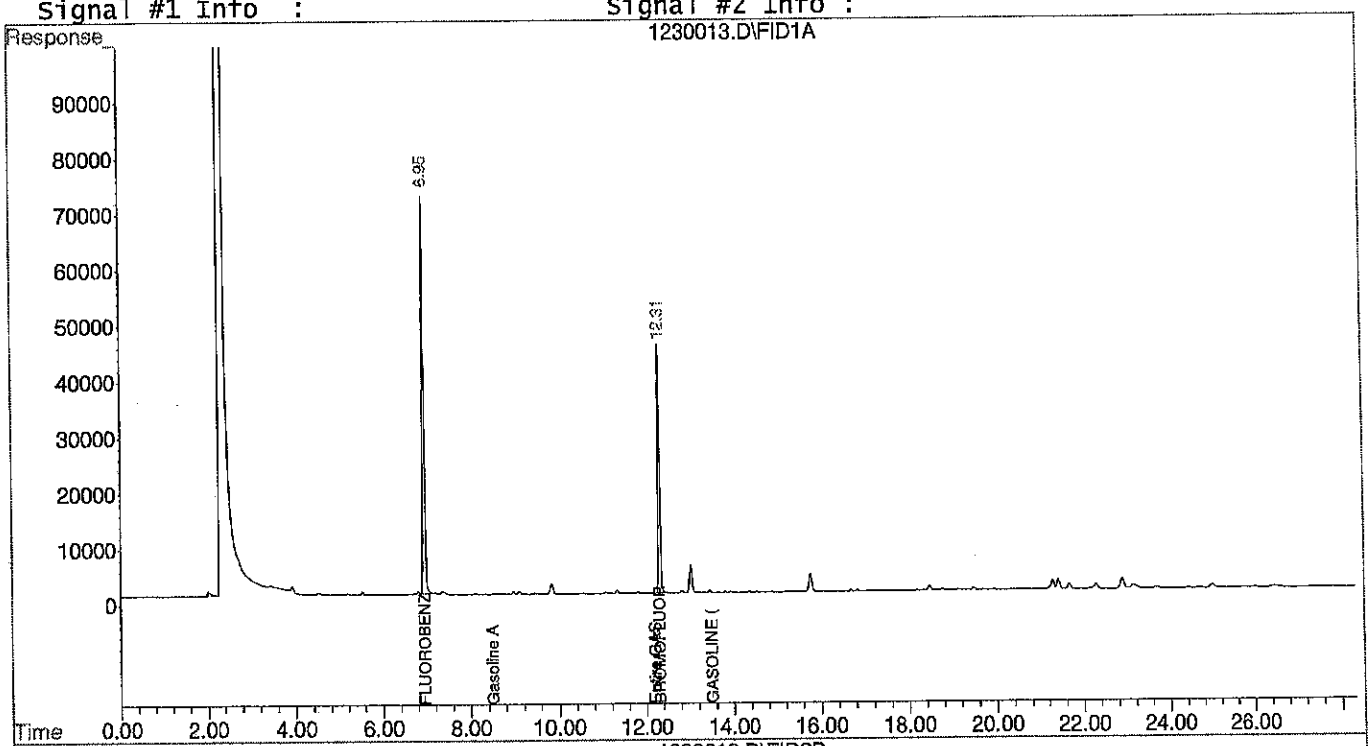
Signal #1 : d:\btex\DATA\D141230\1230013.D\FID1A.CH Vial: 13
Signal #2 : d:\btex\DATA\D141230\1230013.D\FID2B.CH
Acq On : 30 Dec 2014 17:03 Operator:
Sample : 12-293-04s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

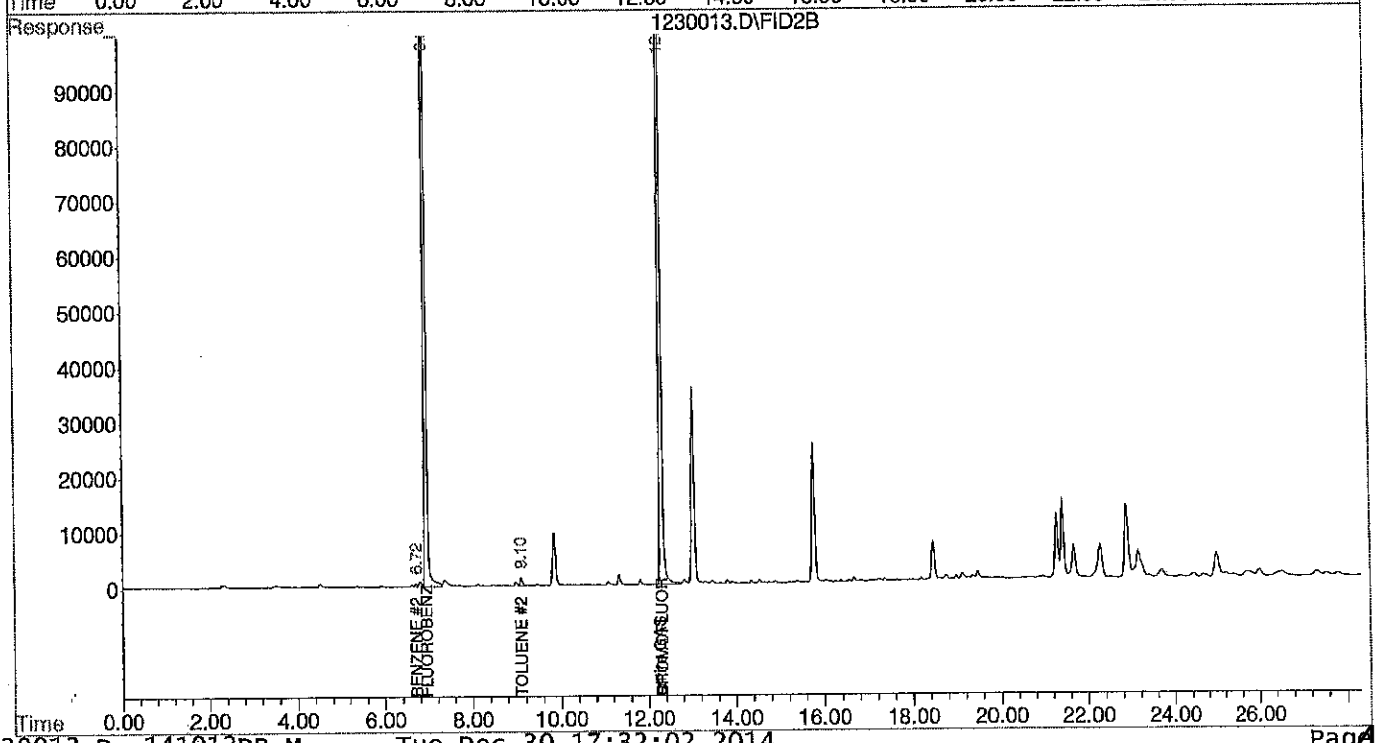
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 17:31 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230010.D\FID1A.CH Vial: 10
Signal #2 : d:\btex\DATA\D141230\1230010.D\FID2B.CH
Acq On : 30 Dec 2014 15:09 Operator:
Sample : 12-293-05s 1:100 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 15:37 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	1017236	14.447 PPB
5)	S	BROMOFLUOROBENZENE	12.30	615637	14.806 PPB
11)	S	FLUOROBENZENE #2	6.94	2571329	11.360 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	3581399	11.636 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	2652388	0.047 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	6033040	0.081 PPM
3)	H	GASOLINE (9-24-14)	13.51	3101697	0.057 PPM
7)	H	entire GAS envelope #2 (9-	12.26	10750653	0.026 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	6758705	0.002 PPM
9)		MTBE #2	0.00	0	N.D. PPB
10)		BENZENE #2	6.72	59967	0.160 PPB
12)		TOLUENE #2	9.10	60557	0.041 PPB
13)		ETHYLBENZENE #2	11.06	60825	0.130 PPB
14)		m,p-XYLENE #2	11.32	191905	0.114 PPB
15)		o-XYLENE #2	11.82	65473	N.D. PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

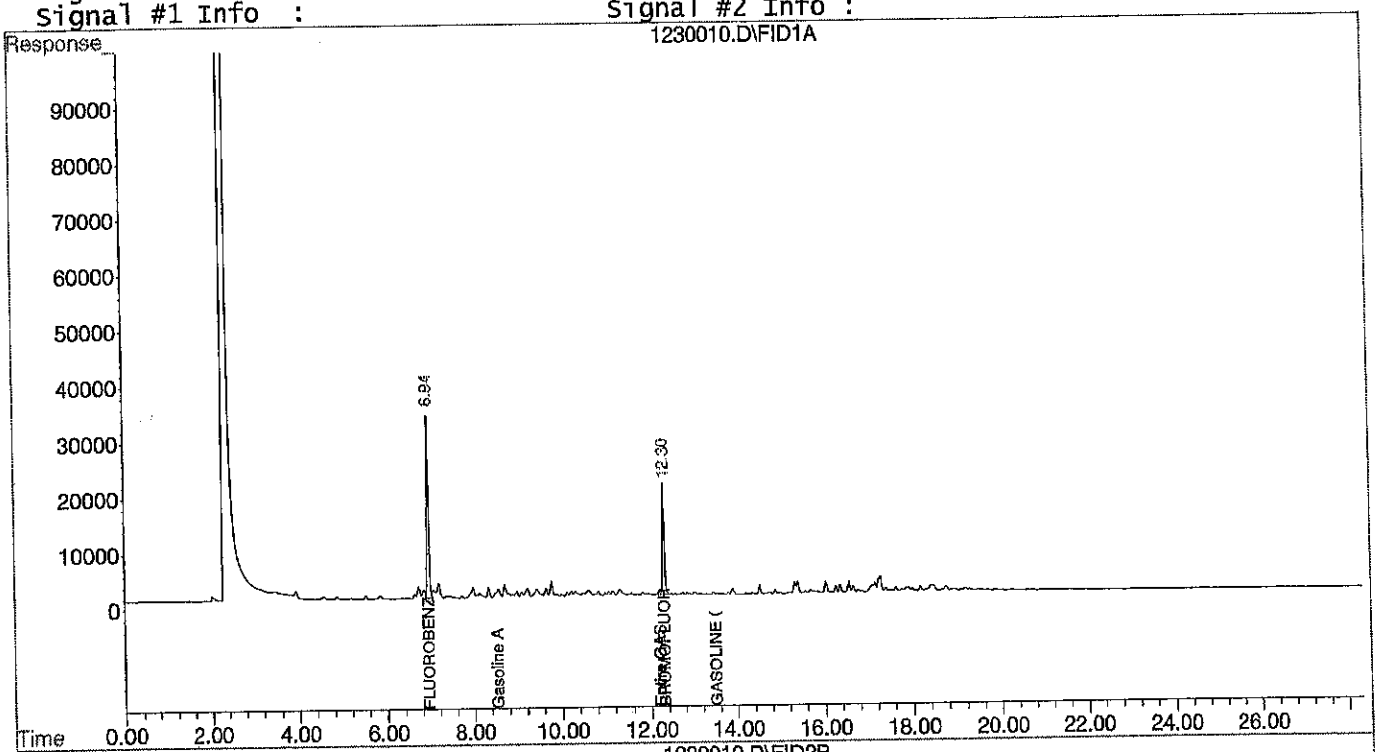
Signal #1 : d:\btex\DATA\D141230\1230010.D\FID1A.CH Vial: 10
Signal #2 : d:\btex\DATA\D141230\1230010.D\FID2B.CH
Acq On : 30 Dec 2014 15:09 Operator:
Sample : 12-293-05s 1:100 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

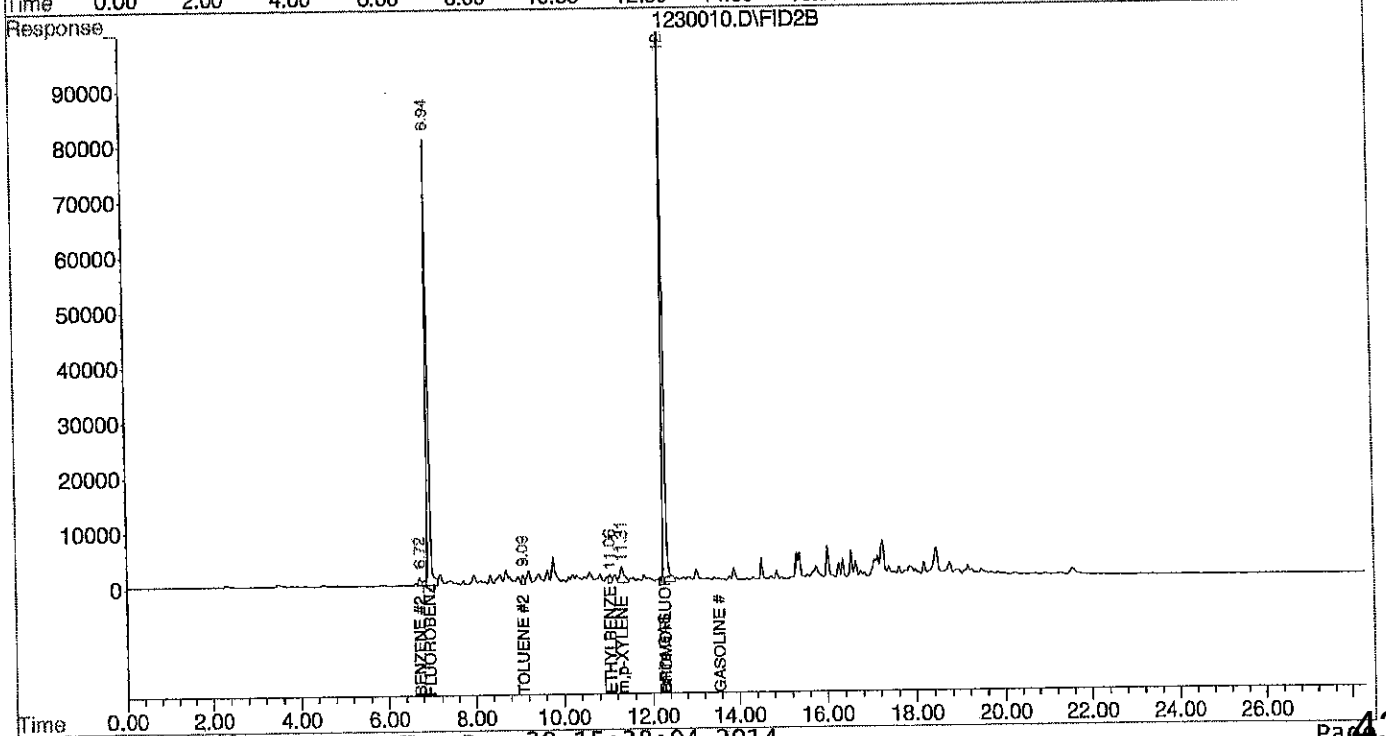
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 15:37 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D141230\1230003.D\FID2B.CH
Acq On : 30 Dec 2014 10:06 Operator:
Sample : MB1230S1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 10:34 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	2506666	36.086 PPB
5)	S	BROMOFLUOROBENZENE	12.31	1448730	35.619 PPB
11)	S	FLUOROBENZENE #2	6.95	6367892	28.622 PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	8886264	29.556 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	1137786	0.016 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3603523	0.044 PPM
3)	H	GASOLINE (9-24-14)	13.51	1348510	0.013 PPM
7)	H	entire GAS envelope #2 (9-	12.26	6817864	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3764099	N.D. PPM
9)		MTBE #2	4.69	9103	0.076 PPB
10)		BENZENE #2	6.72	74108	0.208 PPB
12)		TOLUENE #2	9.10	276101	0.816 PPB
13)		ETHYLBENZENE #2	11.07	93548	0.263 PPB
14)		m,p-XYLENE #2	11.32	229078	0.242 PPB
15)		o-XYLENE #2	11.82	102096	0.141 PPB

Quantitation Report (Not Reviewed)

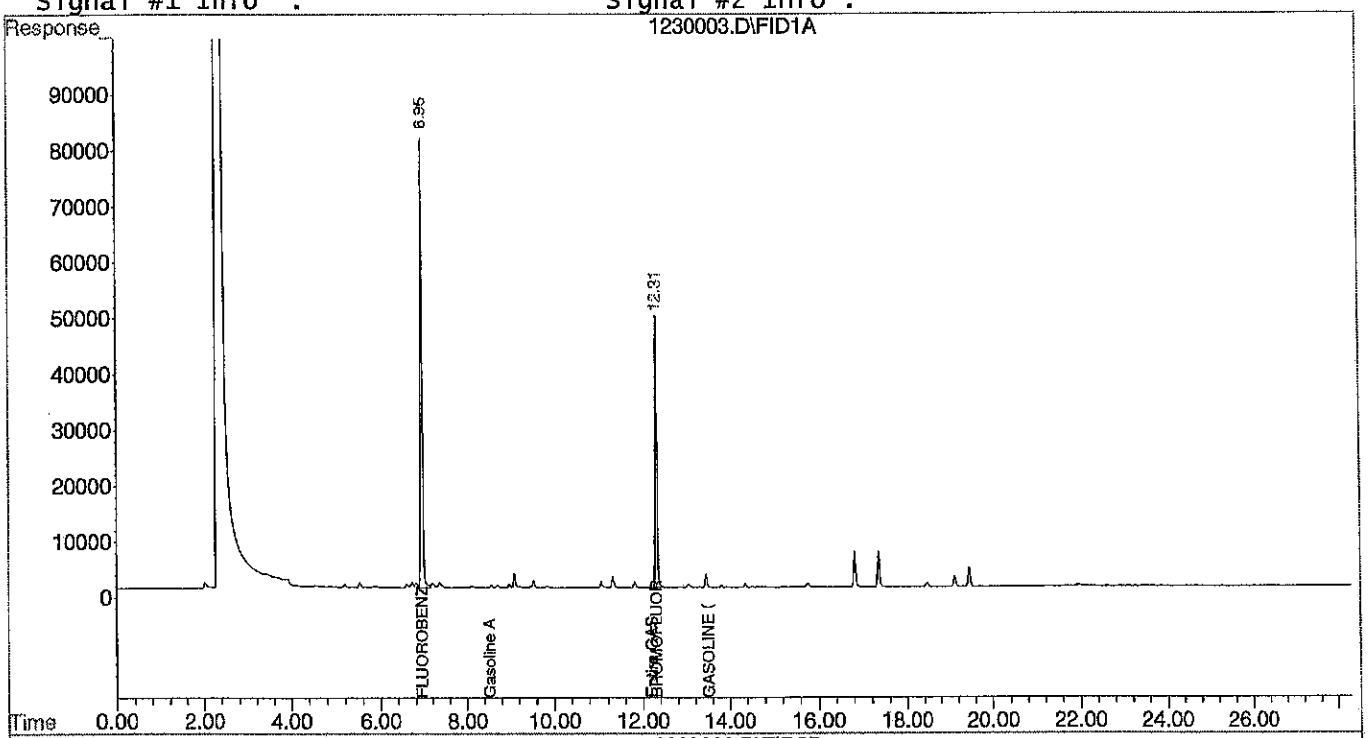
Signal #1 : d:\btex\DATA\D141230\1230003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D141230\1230003.D\FID2B.CH
Acq On : 30 Dec 2014 10:06 Operator:
Sample : MB1230S1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

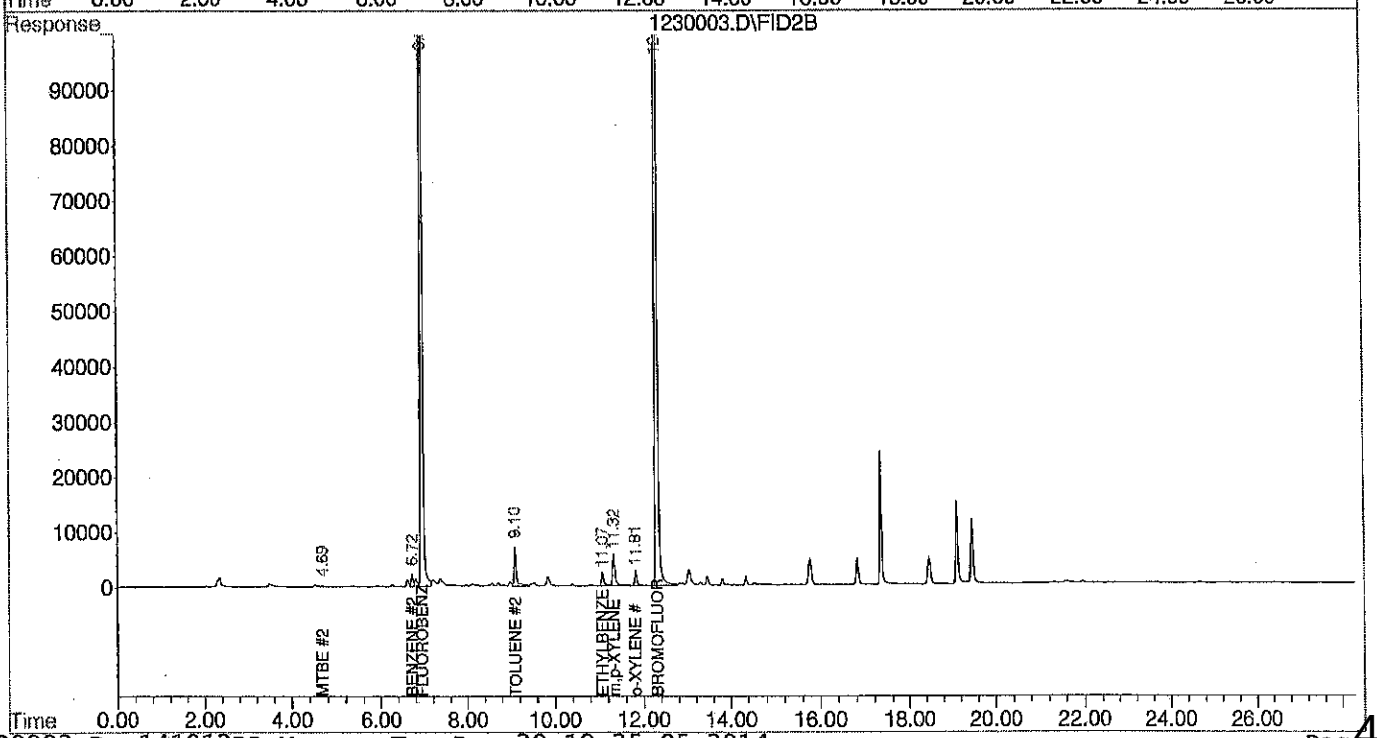
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 10:34 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D141230\1230014.D\FID2B.CH
Acq On : 30 Dec 2014 17:37 Operator:
Sample : 12-293-03s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 18:05 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	2230690	32.077	PPB
5)	S	BROMOFLUOROBENZENE	12.31	1371472	33.689	PPB
11)	S	FLUOROBENZENE #2	6.95	5845927	26.249	PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	8442008	28.056	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1307720	0.020	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	12564783	0.181	PPM
3)	H	GASOLINE (9-24-14)	13.51	2686557	0.046	PPM
7)	H	entire GAS envelope #2 (9-	12.26	28884073	0.152	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	6382070	N.D.	PPM
9)		MTBE #2	4.74	3286	N.D.	PPB
10)		BENZENE #2	6.72	23108	0.034	PPB
12)		TOLUENE #2	9.10	53285	0.014	PPB
13)		ETHYLBENZENE #2	11.06	31579	0.011	PPB
14)		m,p-XYLENE #2	11.32	118026	N.D.	PPB
15)		o-XYLENE #2	11.82	36888	N.D.	PPB

Quantitation Report (Not Reviewed)

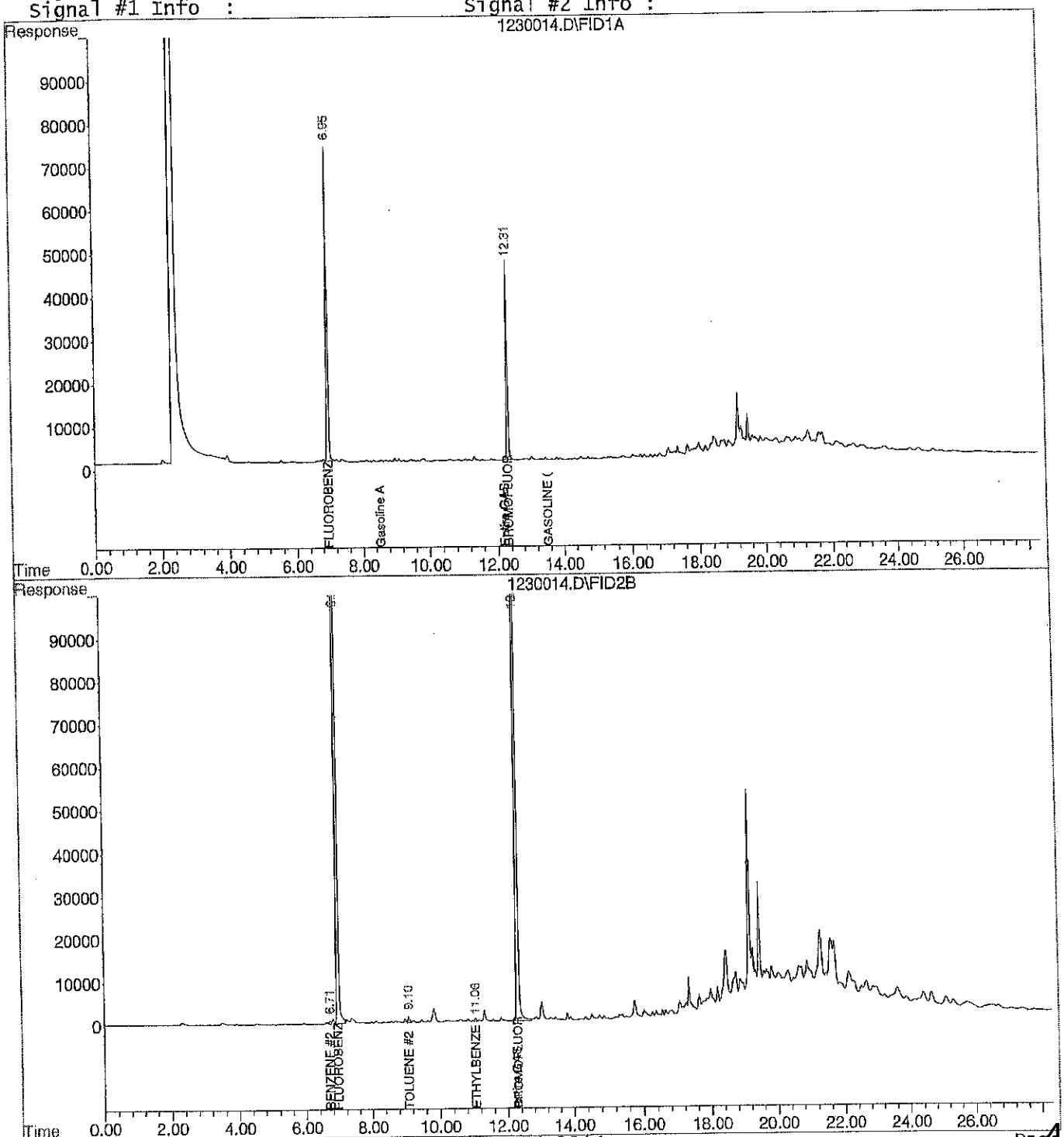
Signal #1 : d:\btex\DATA\D141230\1230014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D141230\1230014.D\FID2B.CH
Acq On : 30 Dec 2014 17:37 Operator:
Sample : 12-293-03s Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 18:05 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230015.D\FID1A.CH Vial: 15
Signal #2 : d:\btex\DATA\D141230\1230015.D\FID2B.CH
Acq On : 30 Dec 2014 18:10 Operator:
Sample : 12-293-03s DUP Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 18:39 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	2332349	33.553 PPB
5)	S	BROMOFLUOROBENZENE	12.31	1421128	34.930 PPB
11)	S	FLUOROBENZENE #2	6.94	6171641	27.730 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	8909664	29.635 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	1827338	0.030 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	8008737	0.111 PPM
3)	H	GASOLINE (9-24-14)	13.51	2686823	0.046 PPM
7)	H	entire GAS envelope #2 (9-	12.26	24607679	0.123 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	11630180	0.047 PPM
9)		MTBE #2	0.00	0	N.D. PPB
10)		BENZENE #2	6.71	35812	0.078 PPB
12)		TOLUENE #2	9.10	59293	0.036 PPB
13)		ETHYLBENZENE #2	11.06	37414	0.034 PPB
14)		m,p-XYLENE #2	11.32	110624	N.D. PPB
15)		o-XYLENE #2	11.81	35819	N.D. PPB

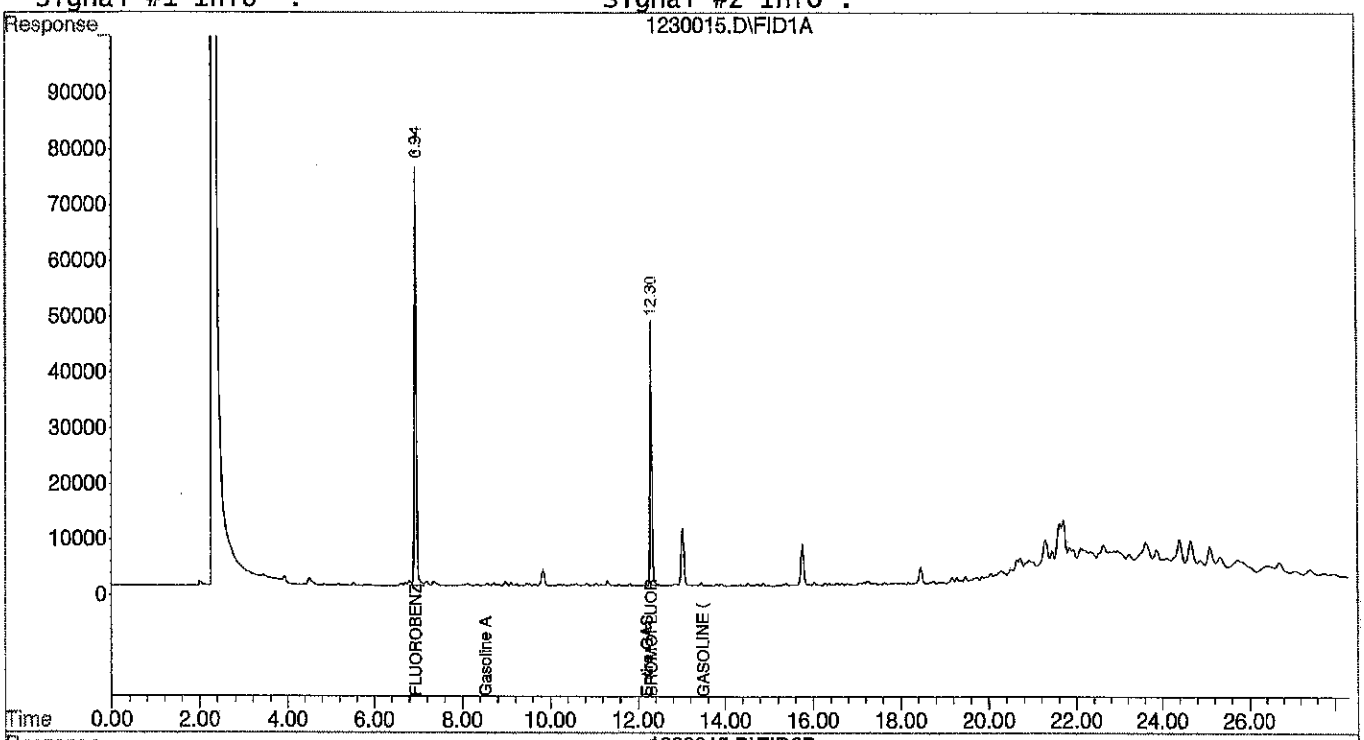
Quantitation Report (Not Reviewed)

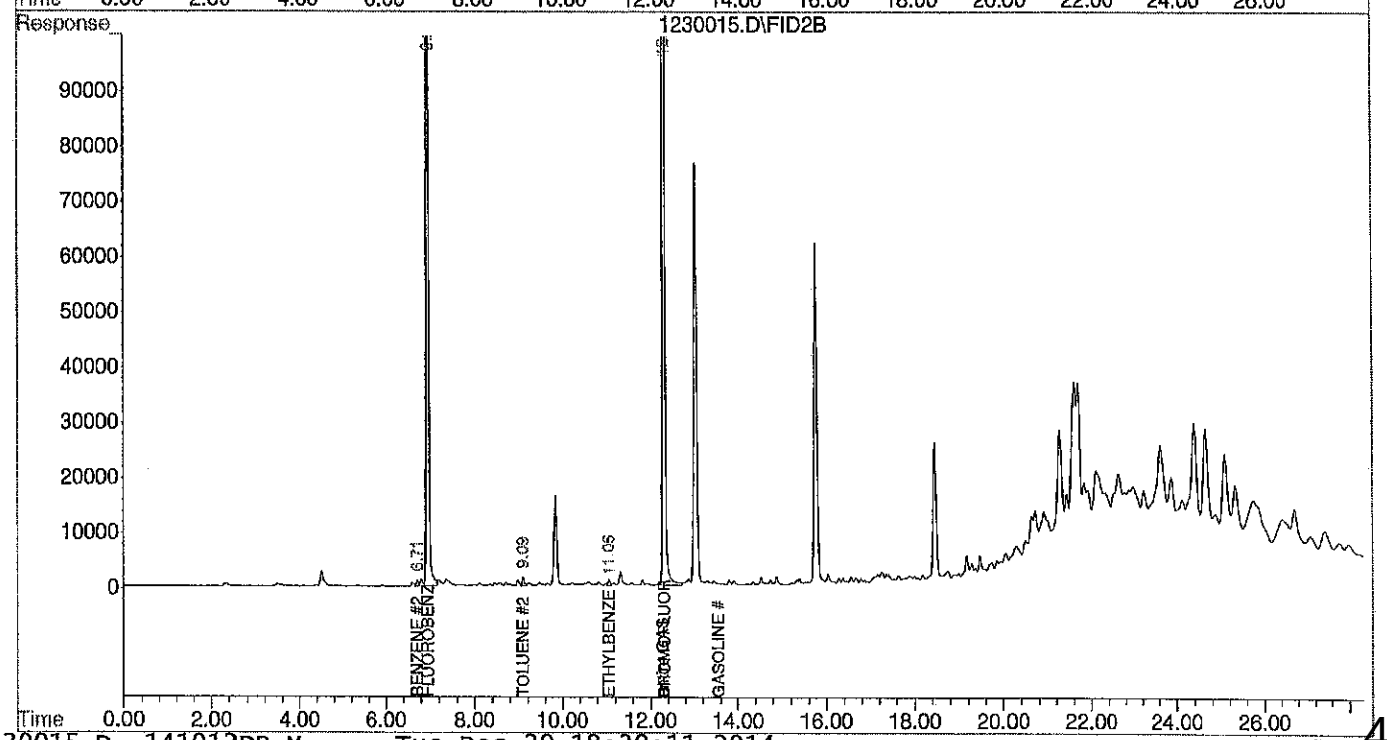
Signal #1 : d:\btex\DATA\D141230\1230015.D\FID1A.CH Vial: 15
Signal #2 : d:\btex\DATA\D141230\1230015.D\FID2B.CH
Acq On : 30 Dec 2014 18:10 Operator:
Sample : 12-293-03s DUP Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 18:39 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D141230\1230006.D\FID2B.CH
Acq On : 30 Dec 2014 12:44 Operator:
Sample : SB1230S1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 13:12 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	3028665	43.670 PPB
5)	S	BROMOFLUOROBENZENE	12.31	1660633	40.913 PPB
11)	S	FLUOROBENZENE #2	6.95	8329515	37.541 PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	10825183	36.106 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	14098098	0.280 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	29831235	0.446 PPM
3)	H	GASOLINE (9-24-14)	13.51	19719351	0.477 PPM
7)	H	entire GAS envelope #2 (9-	12.26	98961604	0.640 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	71608656	0.593 PPM
9)		MTBE #2	4.67	1638928	22.397 PPB
10)		BENZENE #2	6.71	5968629	20.294 PPB
12)		TOLUENE #2	9.09	5593275	19.949 PPB
13)		ETHYLBENZENE #2	11.06	4823453	19.524 PPB
14)		m,p-XYLENE #2	11.32	5861609	19.661 PPB
15)		o-XYLENE #2	11.81	4961845	19.564 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

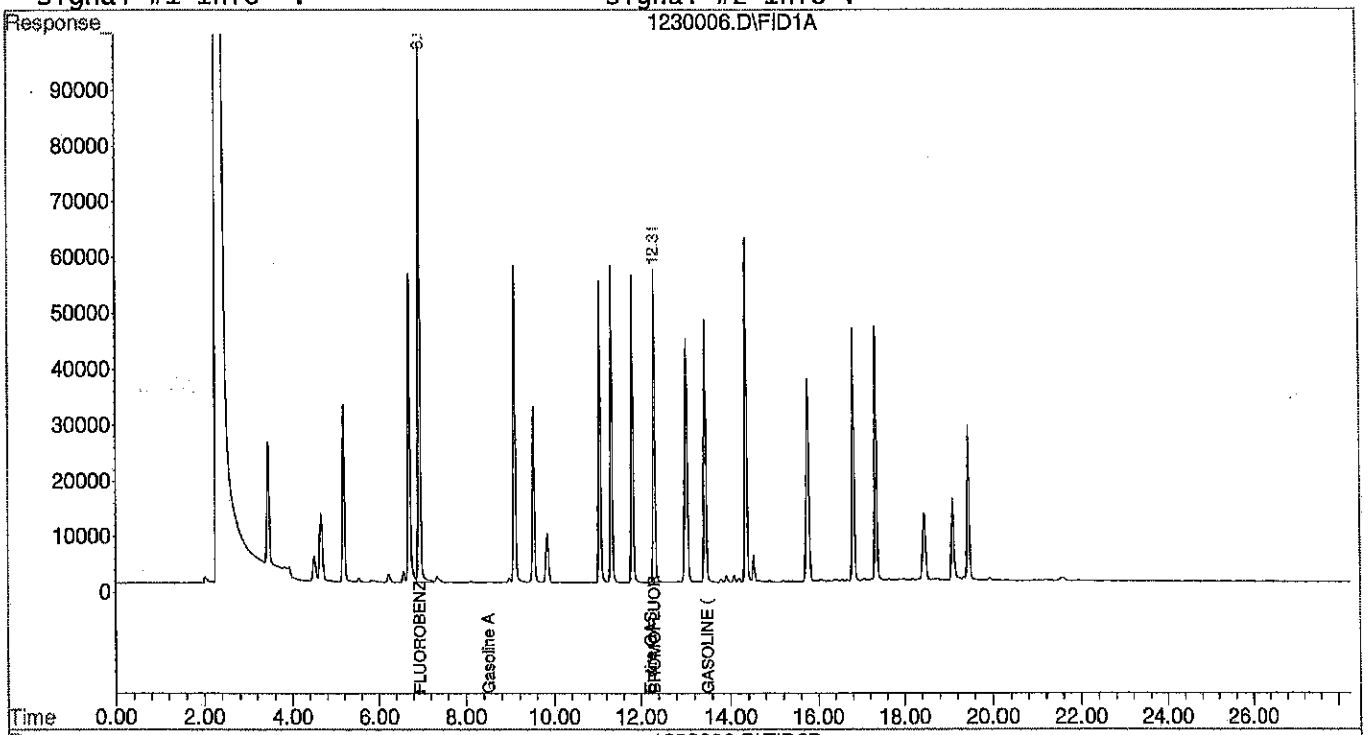
Signal #1 : d:\btex\DATA\D141230\1230006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D141230\1230006.D\FID2B.CH
Acq On : 30 Dec 2014 12:44 Operator:
Sample : SB1230S1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

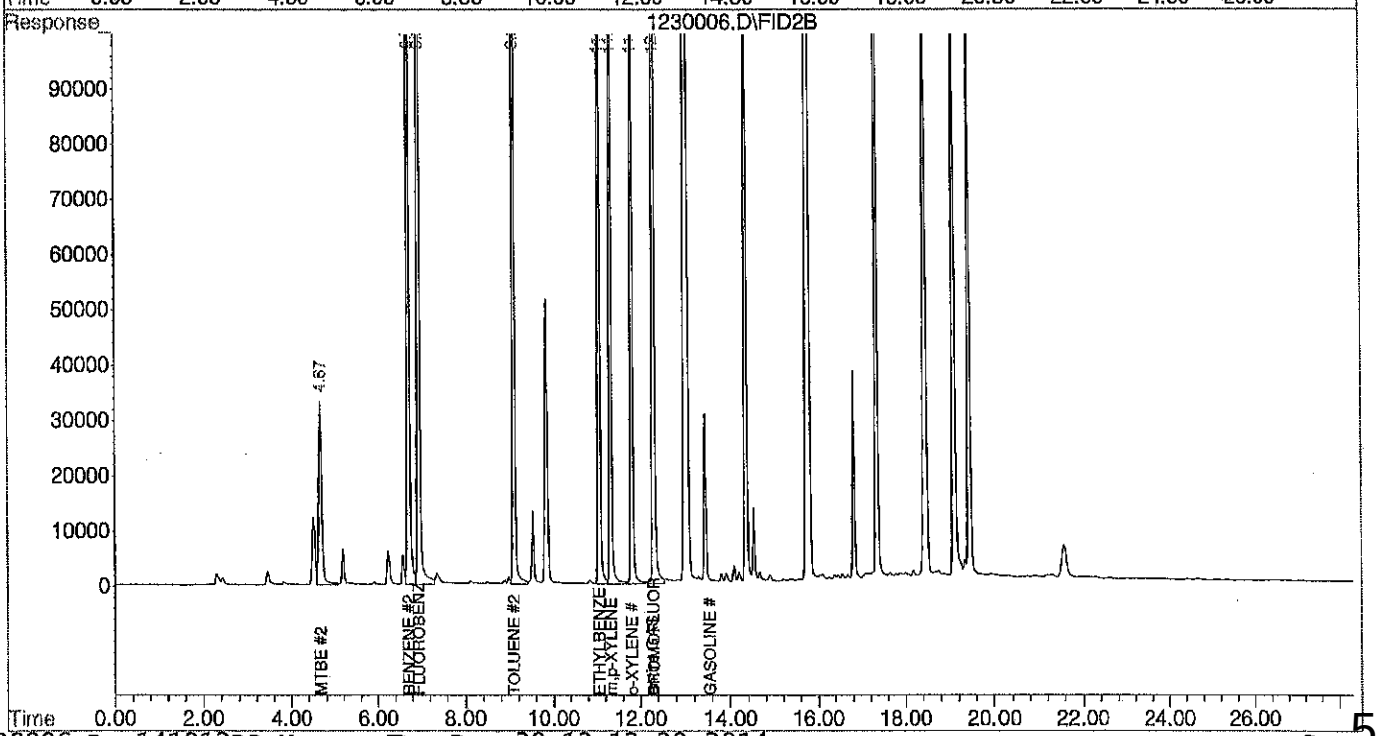
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 13:12 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D141230\1230007.D\FID2B.CH
Acq On : 30 Dec 2014 13:18 Operator:
Sample : SBD1230S1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 13:46 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	3172181	45.755	PPB
5)	S	BROMOFLUOROBENZENE	12.31	1734022	42.746	PPB
11)	S	FLUOROBENZENE #2	6.95	8797651	39.669	PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	11366872	37.936	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	14072996	0.279	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	29571091	0.442	PPM
3)	H	GASOLINE (9-24-14)	13.51	19923361	0.482	PPM
7)	H	entire GAS envelope #2 (9-	12.26	87210254	0.559	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	60977103	0.497	PPM
9)		MTBE #2	4.67	1919453	26.238	PPB
10)		BENZENE #2	6.71	6269475	21.319	PPB
12)		TOLUENE #2	9.09	5888428	21.011	PPB
13)		ETHYLBENZENE #2	11.06	5153325	20.867	PPB
14)		m,p-XYLENE #2	11.32	6232810	20.940	PPB
15)		o-XYLENE #2	11.81	5286830	20.863	PPB

Quantitation Report (Not Reviewed)

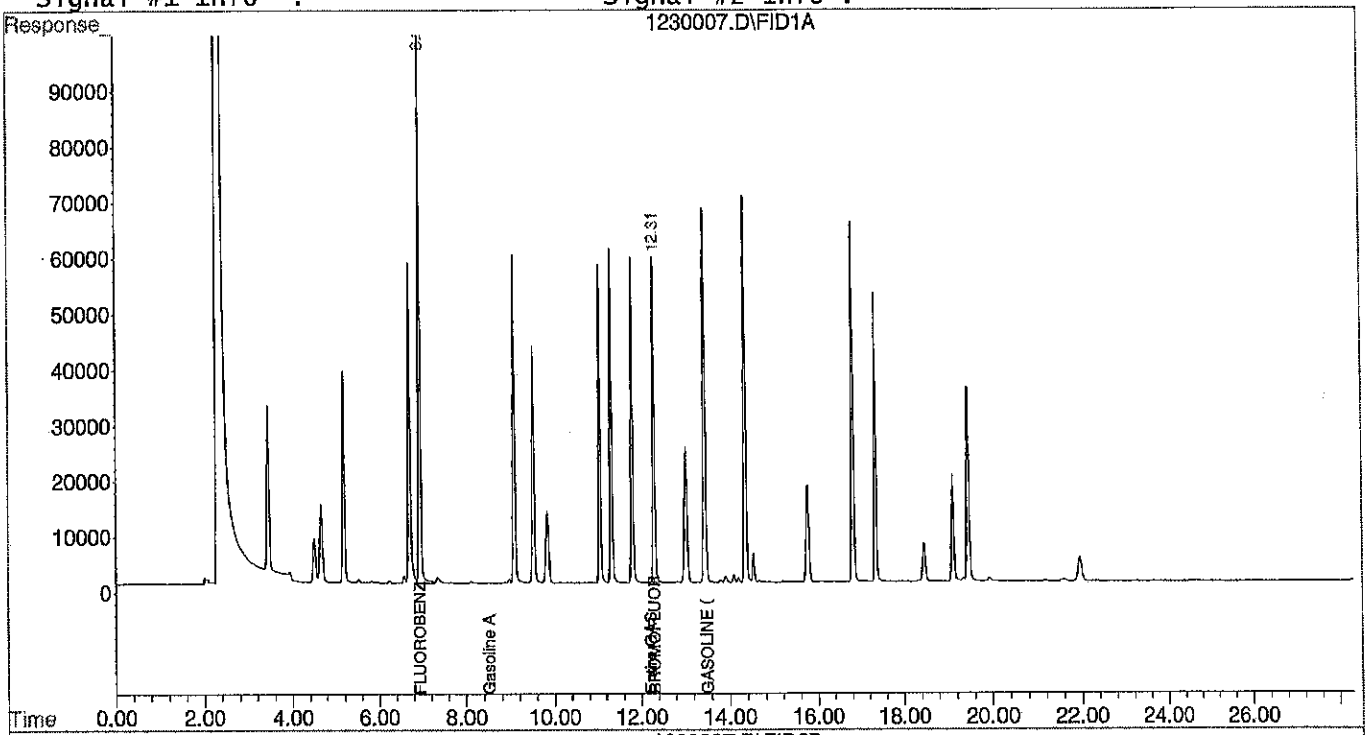
Signal #1 : d:\btex\DATA\D141230\1230007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D141230\1230007.D\FID2B.CH
Acq On : 30 Dec 2014 13:18 Operator:
Sample : SBD1230S1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

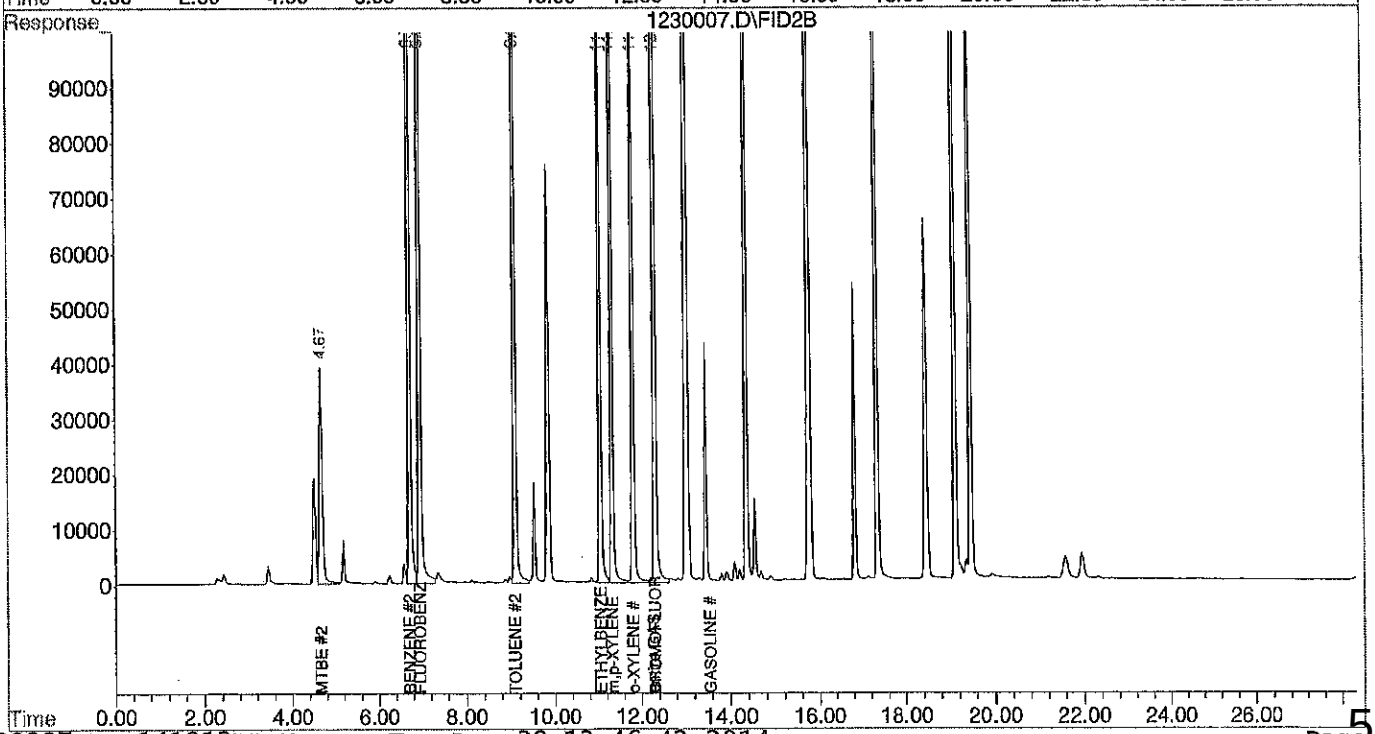
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 13:46 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D141230\1230001.D\FID2B.CH
Acq On : 30 Dec 2014 8:33 Operator:
Sample : CCVD1230G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 9:01 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.84	7251024	105.013	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1195363	29.289	PPB
11)	S	FLUOROBENZENE #2	6.97	475160	1.830	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	2502640	7.992	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	274574435	5.571	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	371474618	5.679	PPM
3)	H	GASOLINE (9-24-14)	13.51	208035408	5.241	PPM
7)	H	entire GAS envelope #2 (9-	12.26	693469804	4.781	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	519037064	4.672	PPM
9)		MTBE #2	4.58	4005315	54.804	PPB
10)		BENZENE #2	6.71	45799746	156.021	PPB
12)		TOLUENE #2	9.09	116627792	419.491	PPB
13)		ETHYLBENZENE #2	11.05	28682950	116.683	PPB
14)		m,p-XYLENE #2	11.31	104824865	360.839	PPB
15)		o-XYLENE #2	11.80	39834564	158.940	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

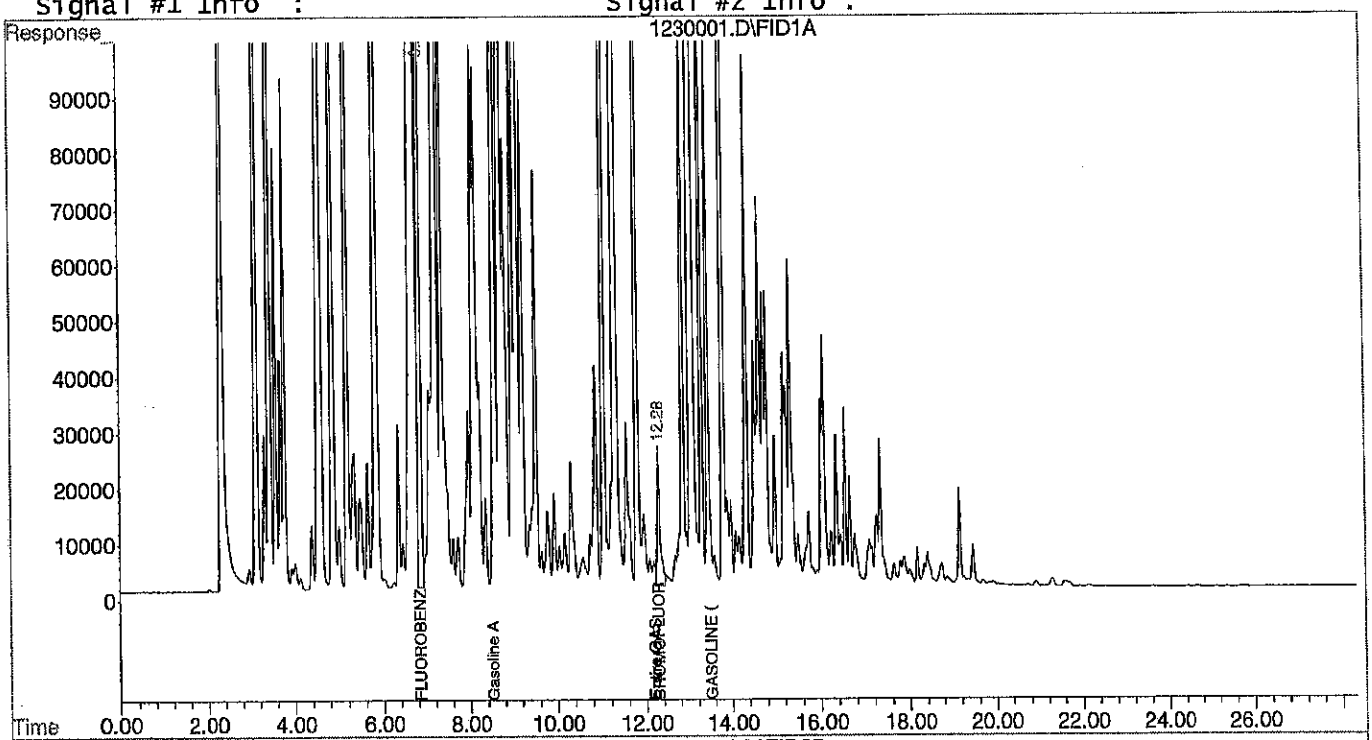
Signal #1 : d:\btex\DATA\D141230\1230001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D141230\1230001.D\FID2B.CH
Acq On : 30 Dec 2014 8:33 Operator:
Sample : CCVD1230G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

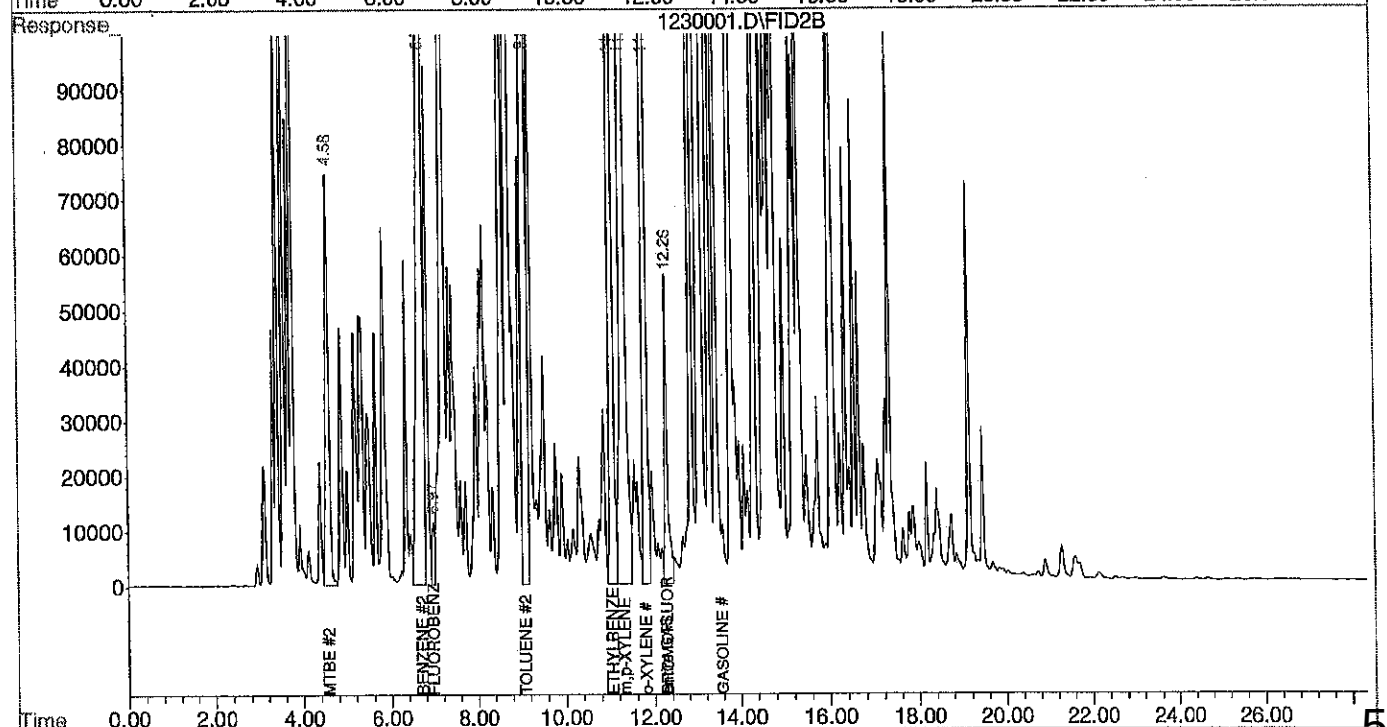
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 9:01 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230018.D\FID1A.CH Vial: 18
Signal #2 : d:\btex\DATA\D141230\1230018.D\FID2B.CH
Acq On : 30 Dec 2014 19:51 Operator:
Sample : CCVD1230G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 20:20 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.84	7517278	108.882	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1289157	31.633	PPB
11)	S	FLUOROBENZENE #2	6.97	518371	2.026	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	2634853	8.439	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	278453425	5.650	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	376910613	5.762	PPM
3)	H	GASOLINE (9-24-14)	13.51	214356221	5.401	PPM
7)	H	entire GAS envelope #2 (9-	12.26	708506094	4.886	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	526688871	4.742	PPM
9)		MTBE #2	4.58	4249369	58.146	PPB
10)		BENZENE #2	6.71	47751892	162.673	PPB
12)		TOLUENE #2	9.09	118488651	426.187	PPB
13)		ETHYLBENZENE #2	11.05	29390298	119.564	PPB
14)		m,p-XYLENE #2	11.31	105973801	364.800	PPB
15)		o-XYLENE #2	11.80	40571463	161.886	PPB

Quantitation Report (Not Reviewed)

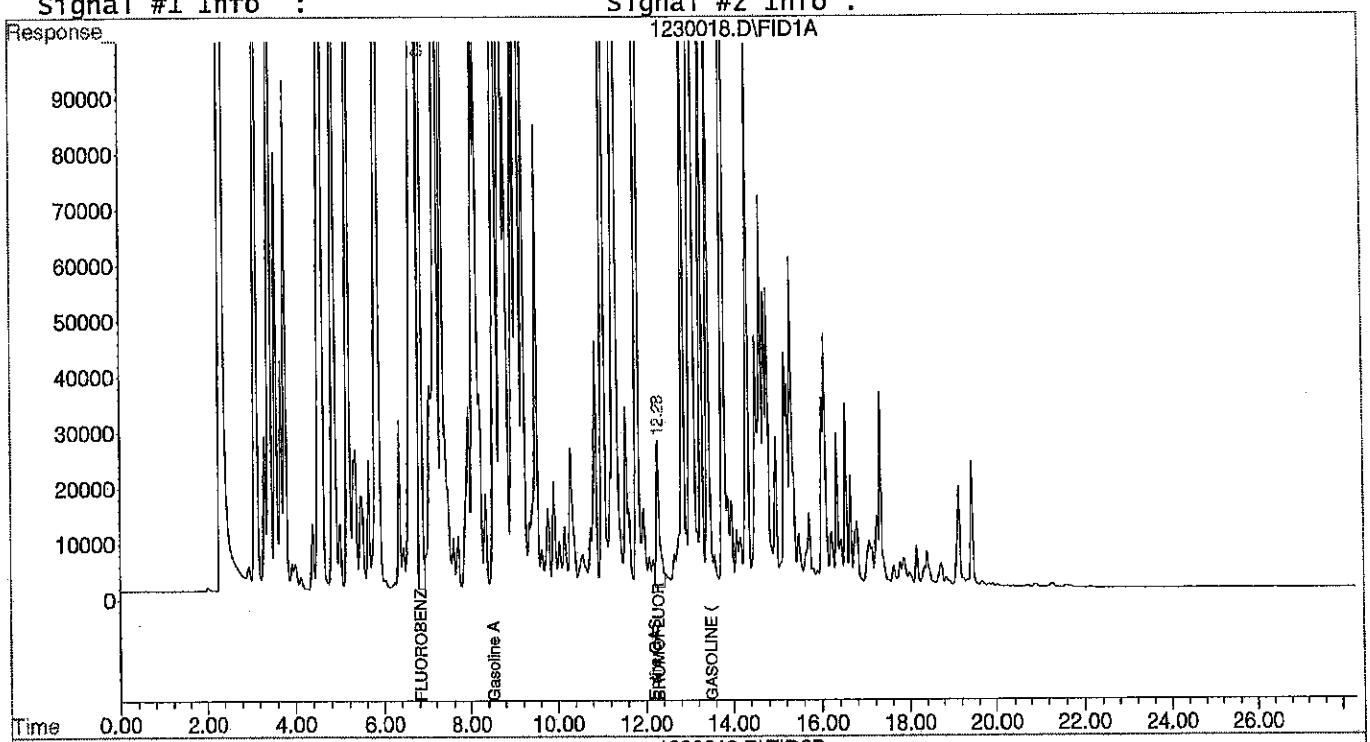
Signal #1 : d:\btex\DATA\D141230\1230018.D\FID1A.CH Vial: 18
Signal #2 : d:\btex\DATA\D141230\1230018.D\FID2B.CH
Acq On : 30 Dec 2014 19:51 Operator:
Sample : CCVD1230G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

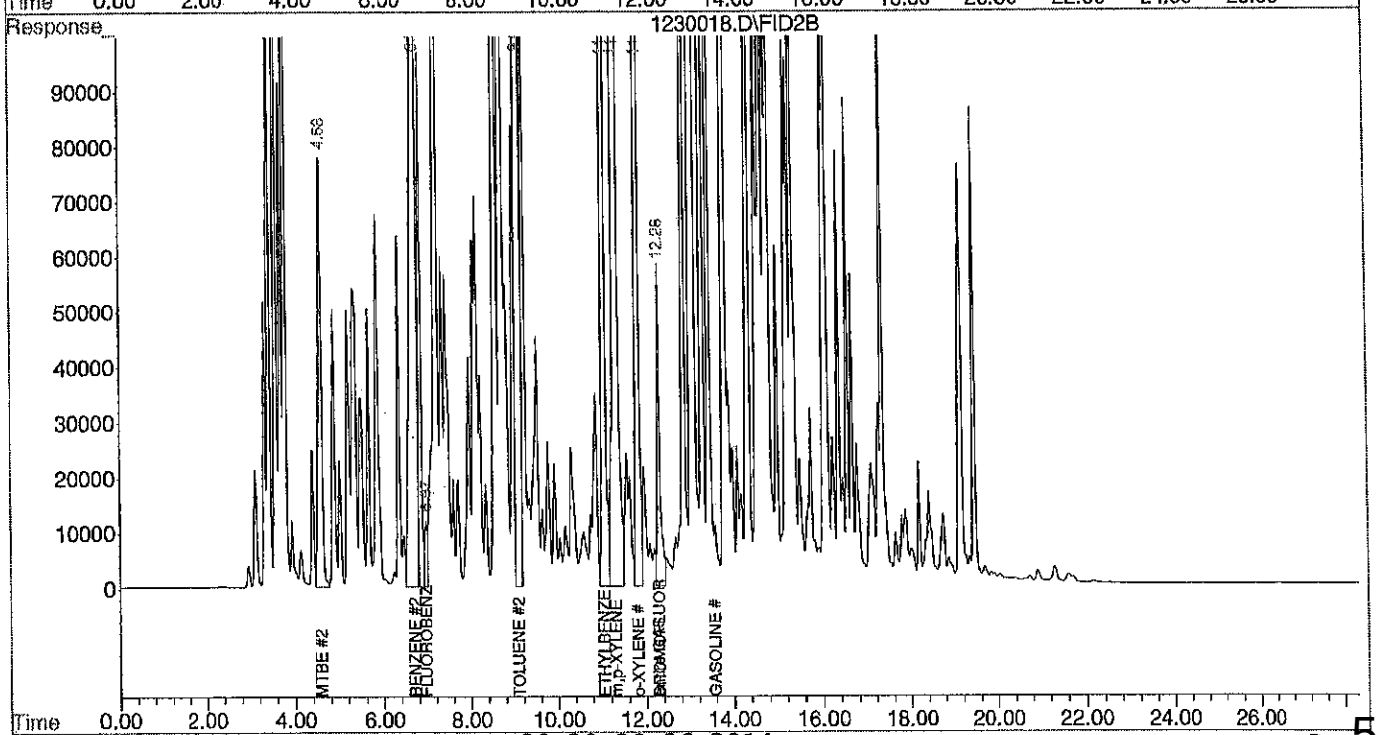
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 20:20 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D141230\1230002.D\FID2B.CH
Acq On : 30 Dec 2014 9:06 Operator:
Sample : CCVD1230B-1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 9:35 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3121858	45.024 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1804831	44.515 PPB
11)	S	FLUOROBENZENE #2	6.93	8590187	38.726 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11690680	39.030 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30622747	0.615 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	51491435	0.777 PPM
3)	H	GASOLINE (9-24-14)	13.51	34025028	0.839 PPM
7)	H	entire GAS envelope #2 (9-	12.26	115479456	0.755 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	82058070	0.689 PPM
9)		MTBE #2	4.65	4266303	58.378 PPB
10)		BENZENE #2	6.69	14902483	50.737 PPB
12)		TOLUENE #2	9.08	14181786	50.854 PPB
13)		ETHYLBENZENE #2	11.04	12279644	49.887 PPB
14)		m,p-XYLENE #2	11.31	14896393	50.808 PPB
15)		o-XYLENE #2	11.79	12413809	49.348 PPB

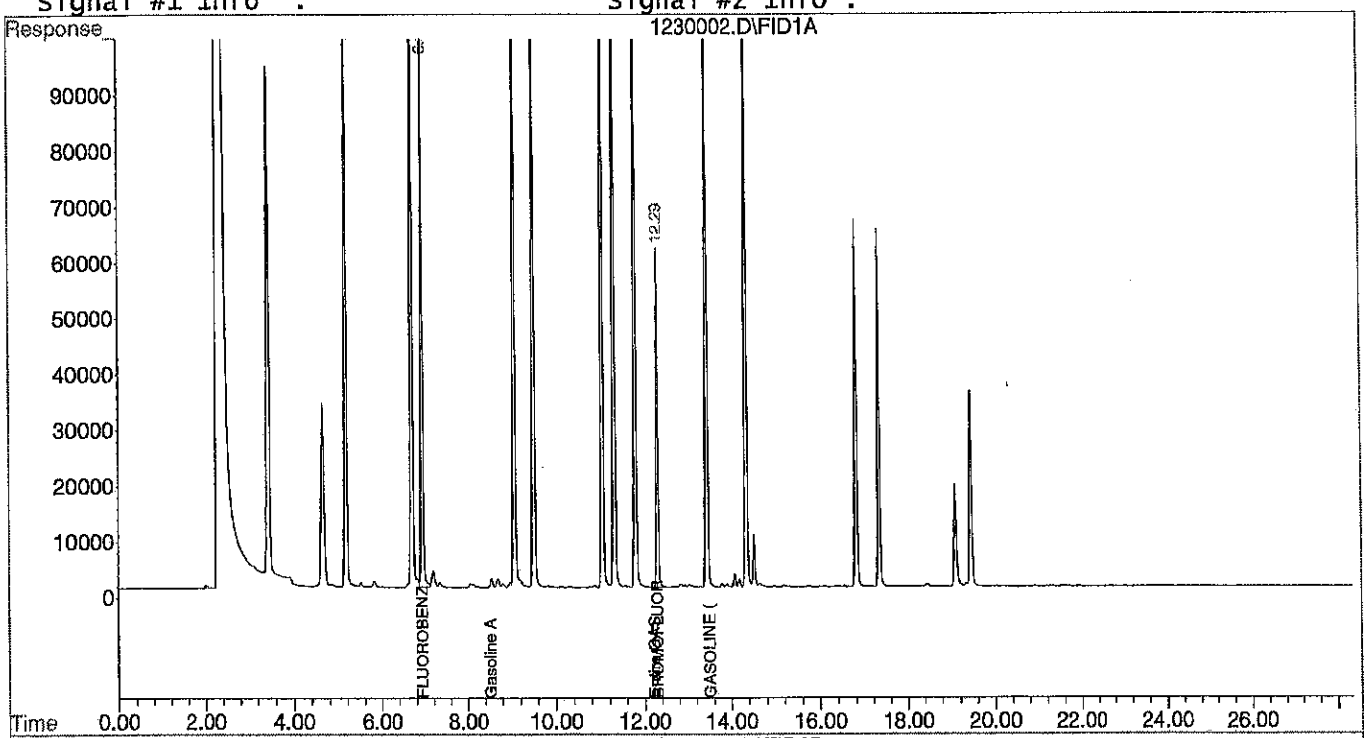
Quantitation Report (Not Reviewed)

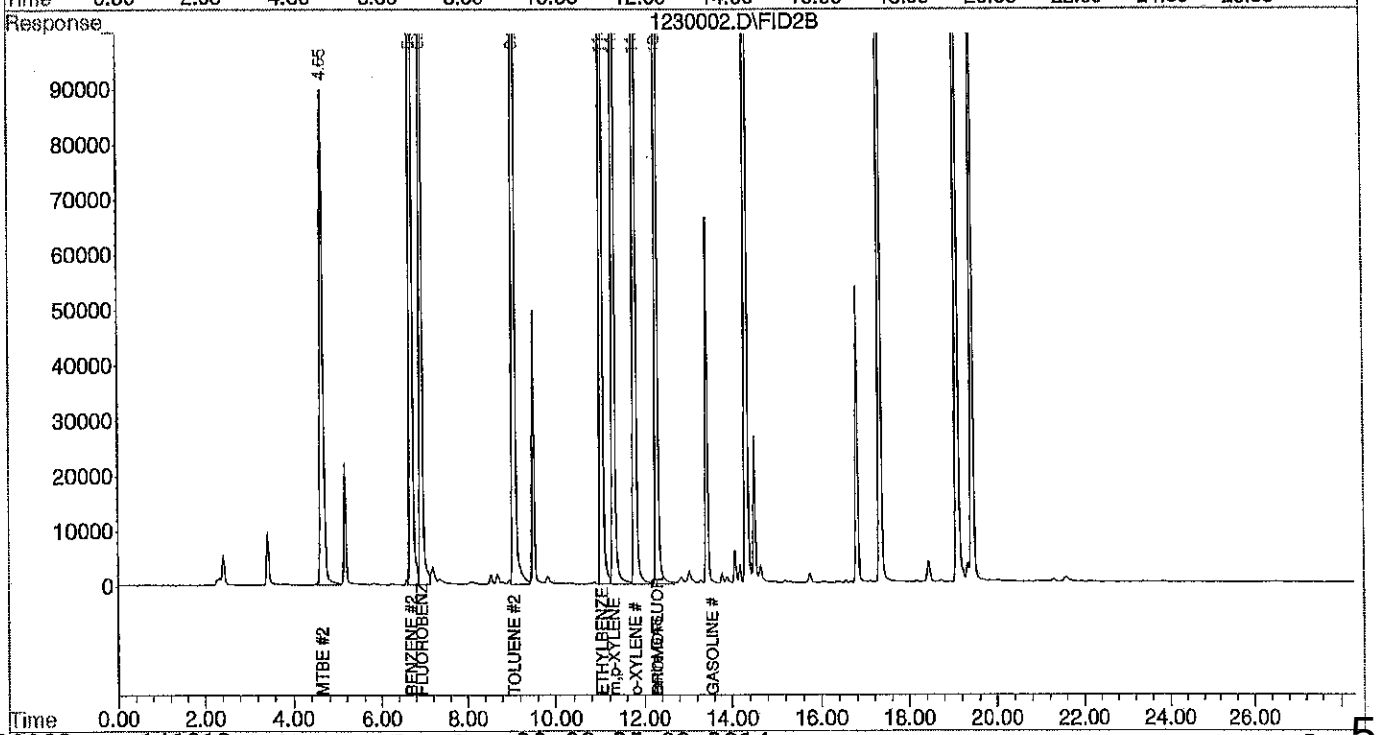
Signal #1 : d:\btex\DATA\D141230\1230002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D141230\1230002.D\FID2B.CH
Acq On : 30 Dec 2014 9:06 Operator:
Sample : CCVD1230B-1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 9:35 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141230\1230017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D141230\1230017.D\FID2B.CH
Acq On : 30 Dec 2014 19:18 Operator:
Sample : CCVD1230B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 19:46 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	3071507	44.292 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1787514	44.083 PPB
11)	S	FLUOROBENZENE #2	6.95	8483647	38.242 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11635948	38.845 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30640624	0.616 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	56994794	0.862 PPM
3)	H	GASOLINE (9-24-14)	13.51	37562955	0.929 PPM
7)	H	entire GAS envelope #2 (9-	12.26	140791747	0.932 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	91922913	0.779 PPM
9)		MTBE #2	4.66	4553790	62.315 PPB
10)		BENZENE #2	6.71	15253049	51.931 PPB
12)		TOLUENE #2	9.09	14296182	51.265 PPB
13)		ETHYLBENZENE #2	11.05	12537992	50.939 PPB
14)		m,p-XYLENE #2	11.32	15110403	51.546 PPB
15)		o-XYLENE #2	11.81	12688332	50.445 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

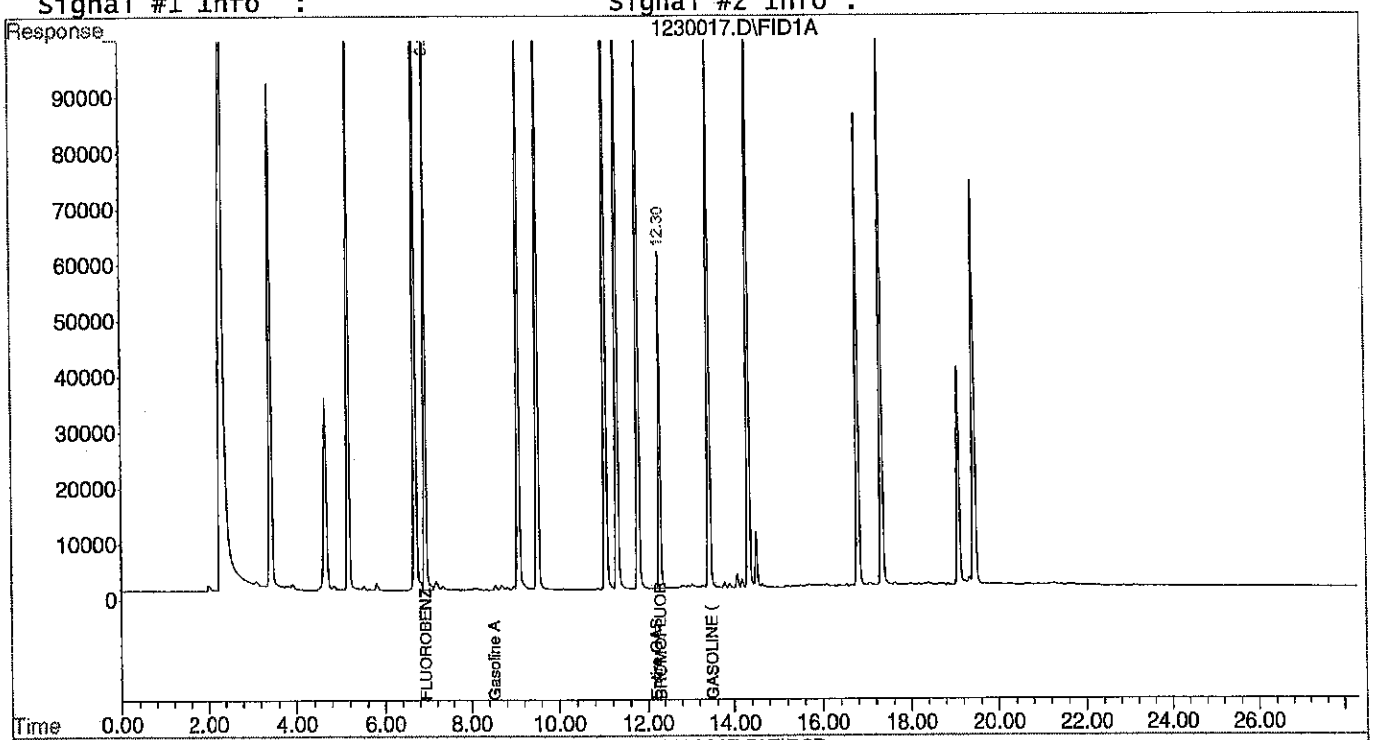
Signal #1 : d:\btex\DATA\D141230\1230017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D141230\1230017.D\FID2B.CH
Acq On : 30 Dec 2014 19:18 Operator:
Sample : CCVD1230B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

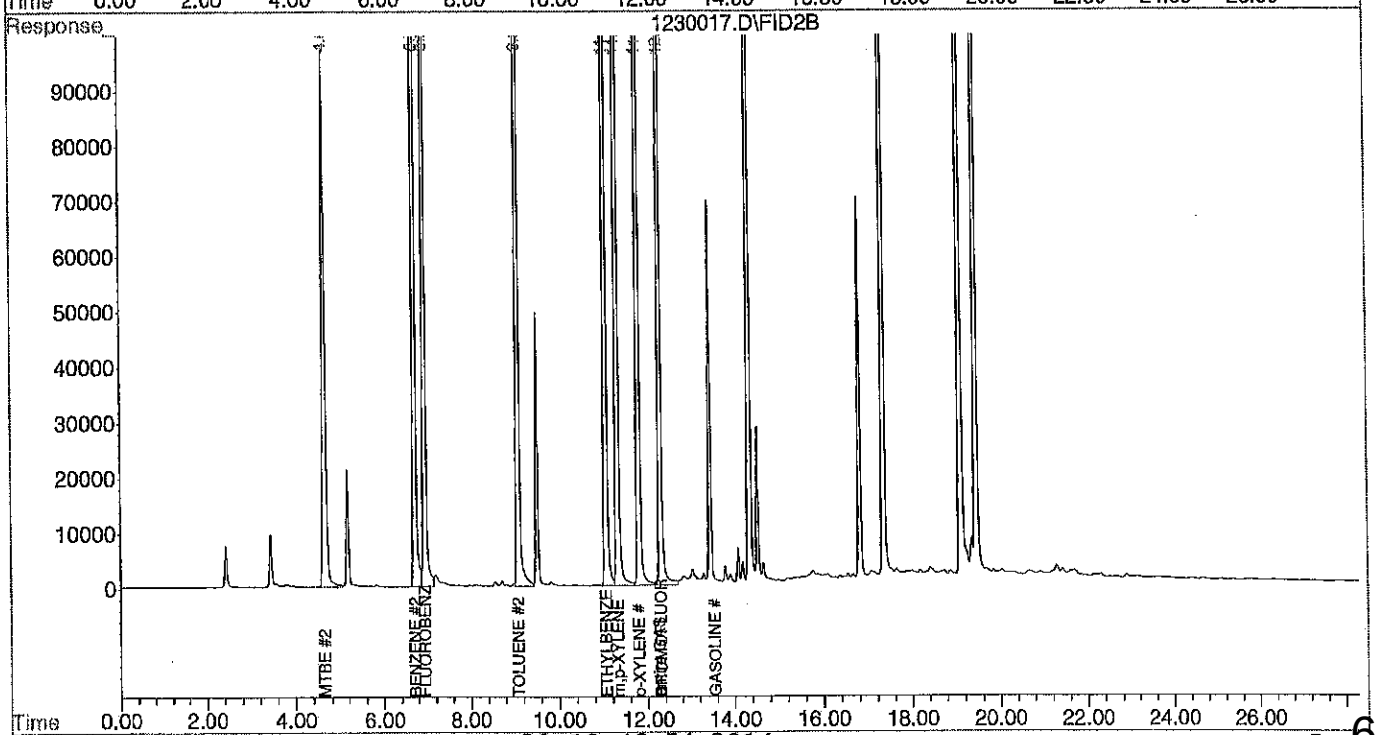
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 30 19:46 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231004.D\FID1A.CH Vial: 4
Signal #2 : d:\btex\DATA\D141231\1231004.D\FID2B.CH
Acq On : 31 Dec 2014 12:25 Operator:
Sample : 12-293-06a Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

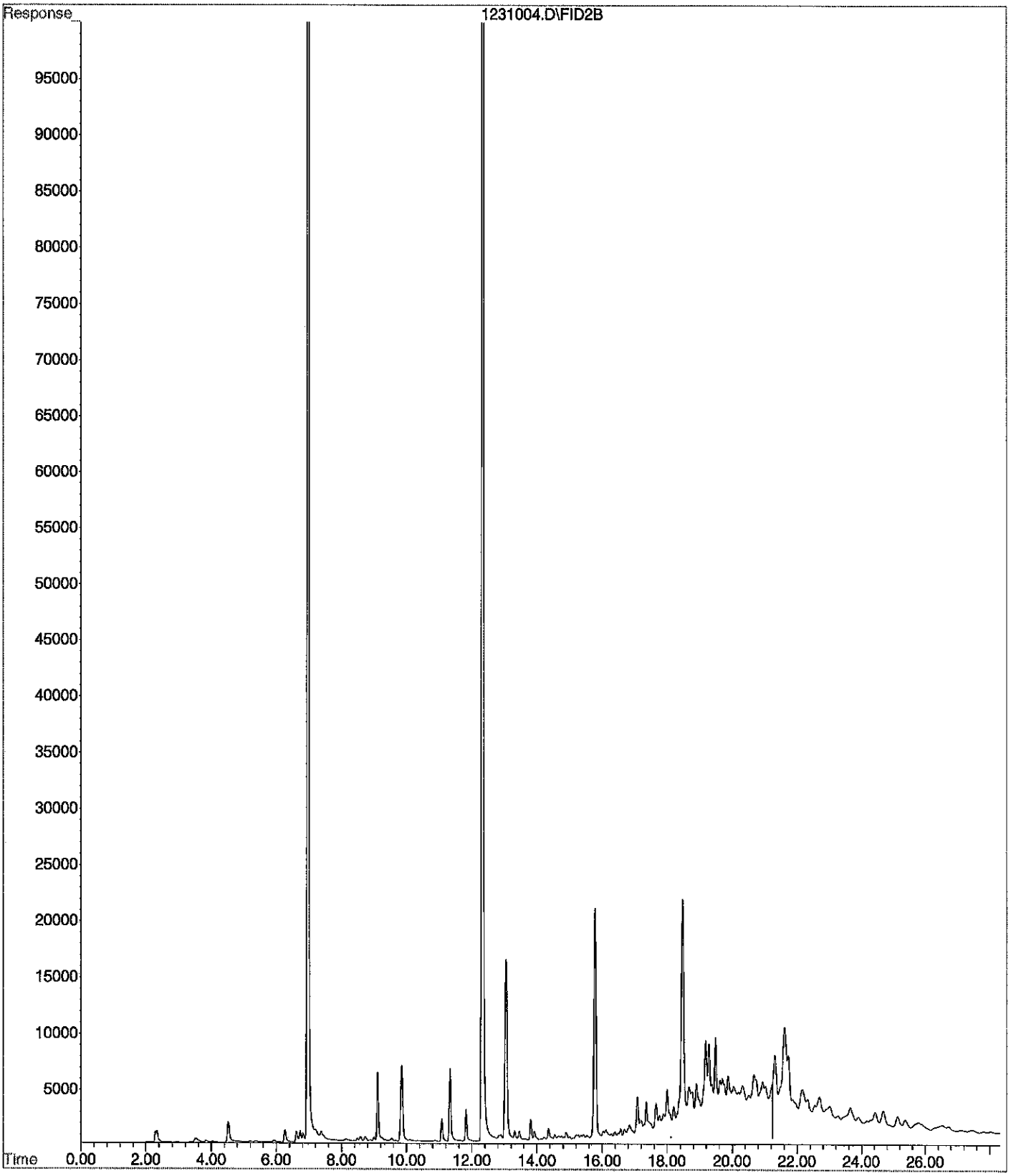
Quant Time: Dec 31 12:54 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.96	3099349	44.697	PPB
5)	S	BROMOFLUOROBENZENE	12.32	1827727	45.087	PPB
11)	S	FLUOROBENZENE #2	6.96	7806658	35.164	PPB
16)	S	BROMOFLUOROBENZENE #2	12.32	11068994	36.930	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1189283	0.017	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	7819142	0.108	PPM
3)	H	GASOLINE (9-24-14)	13.51	1992004	0.029	PPM
7)	H	entire GAS envelope #2 (9-	12.26	17591426	0.074	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	6250814	N.D.	PPM
9)		MTBE #2	0.00	0	N.D.	PPB
10)		BENZENE #2	6.73	36566	0.080	PPB
12)		TOLUENE #2	9.11	239241	0.684	PPB
13)		ETHYLBENZENE #2	11.08	72125	0.176	PPB
14)		m,p-XYLENE #2	11.33	244636	0.296	PPB
15)		o-XYLENE #2	11.83	100733	0.136	PPB

File : X:\BTEX\DARYL\DATA\D141231\1231004.D
Operator :
Acquired : 31 Dec 2014 12:25 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-293-06a
Misc Info :
Vial Number: 4



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D141231\1231003.D\FID2B.CH
Acq On : 31 Dec 2014 10:36 Operator:
Sample : MB1231W1 Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

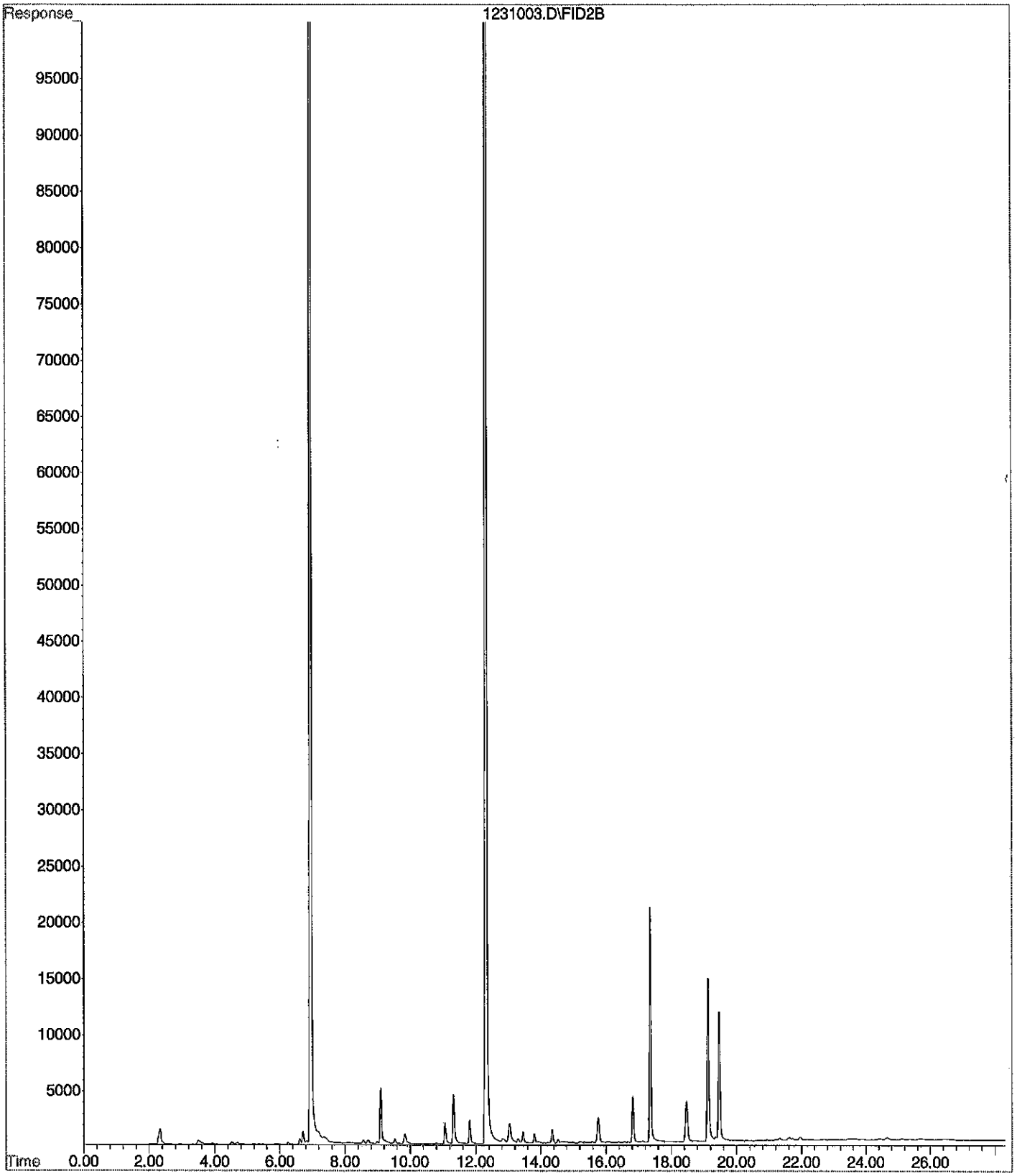
Quant Time: Dec 31 11:05 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	3047251	43.940	PPB
5)	S	BROMOFLUOROBENZENE	12.31	1746164	43.050	PPB
11)	S	FLUOROBENZENE #2	6.95	7949470	35.813	PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	10784178	35.967	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	814103	0.010	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2858237	0.032	PPM
3)	H	GASOLINE (9-24-14)	13.51	1010656	0.004	PPM
7)	H	entire GAS envelope #2 (9-	12.26	5358214	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2817092	N.D.	PPM
9)		MTBE #2	4.69	10617	0.097	PPB
10)		BENZENE #2	6.72	43173	0.103	PPB
12)		TOLUENE #2	9.10	200063	0.543	PPB
13)		ETHYLBENZENE #2	11.07	66234	0.152	PPB
14)		m,p-XYLENE #2	11.32	178021	0.066	PPB
15)		o-XYLENE #2	11.82	77113	0.041	PPB

File : X:\BTEX\DARYL\DATA\D141231\1231003.D
Operator :
Acquired : 31 Dec 2014 10:36 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB1231W1
Misc Info :
Vial Number: 3



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231005.D\FID1A.CH Vial: 5
Signal #2 : d:\btex\DATA\D141231\1231005.D\FID2B.CH
Acq On : 31 Dec 2014 13:00 Operator:
Sample : 12-296-05e Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 13:28 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

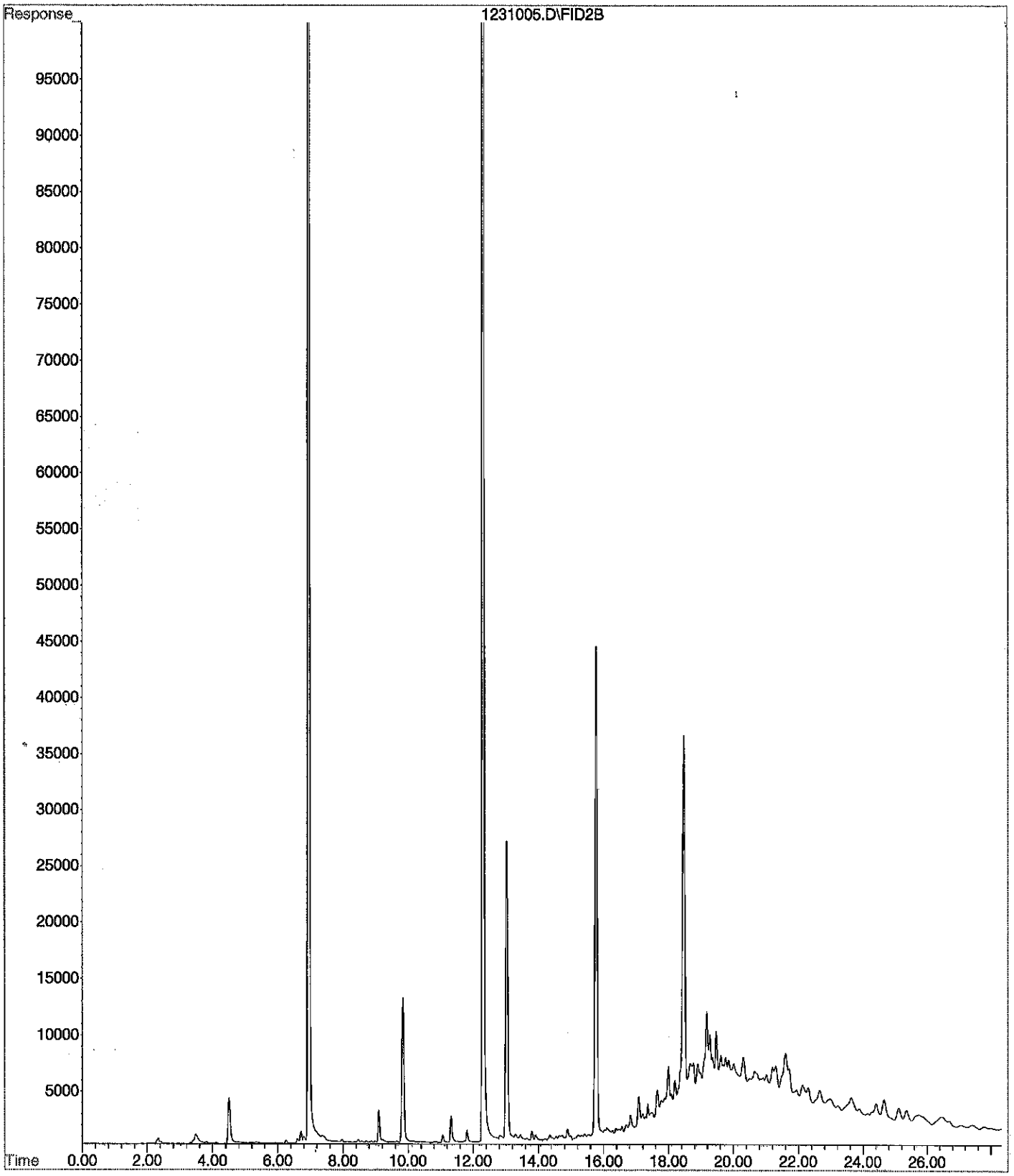
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.95	3161260	45.596	PPB
5)	S	BROMOFLUOROBENZENE	12.31	1860696	45.911	PPB
11)	S	FLUOROBENZENE #2	6.95	8443143	38.058	PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	11627026	38.815	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	893885	0.011	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	8552398	0.120	PPM
3)	H	GASOLINE (9-24-14)	13.51	2255097	0.036	PPM
7)	H	entire GAS envelope #2 (9-	12.26	23775205	0.117	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	8217330	0.016	PPM
9)		MTBE #2	0.00	0	N.D.	PPB
10)		BENZENE #2	6.71	35482	0.077	PPB
12)		TOLUENE #2	9.10	111967	0.226	PPB
13)		ETHYLBENZENE #2	11.07	25350	N.D.	PPB
14)		m,p-XYLENE #2	11.32	94308	N.D.	PPB
15)		o-XYLENE #2	11.82	43755	N.D.	PPB

1/5 ✓

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D141231\1231005.D
Operator :
Acquired : 31 Dec 2014 13:00 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-296-05e
Misc Info :
Vial Number: 5



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231009.D\FID1A.CH vial: 9
Signal #2 : d:\btex\DATA\D141231\1231009.D\FID2B.CH
Acq On : 31 Dec 2014 17:20 Operator:
Sample : 12-296-05e DUP Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 17:49 2014 Quant Results File: 141012DB.RES

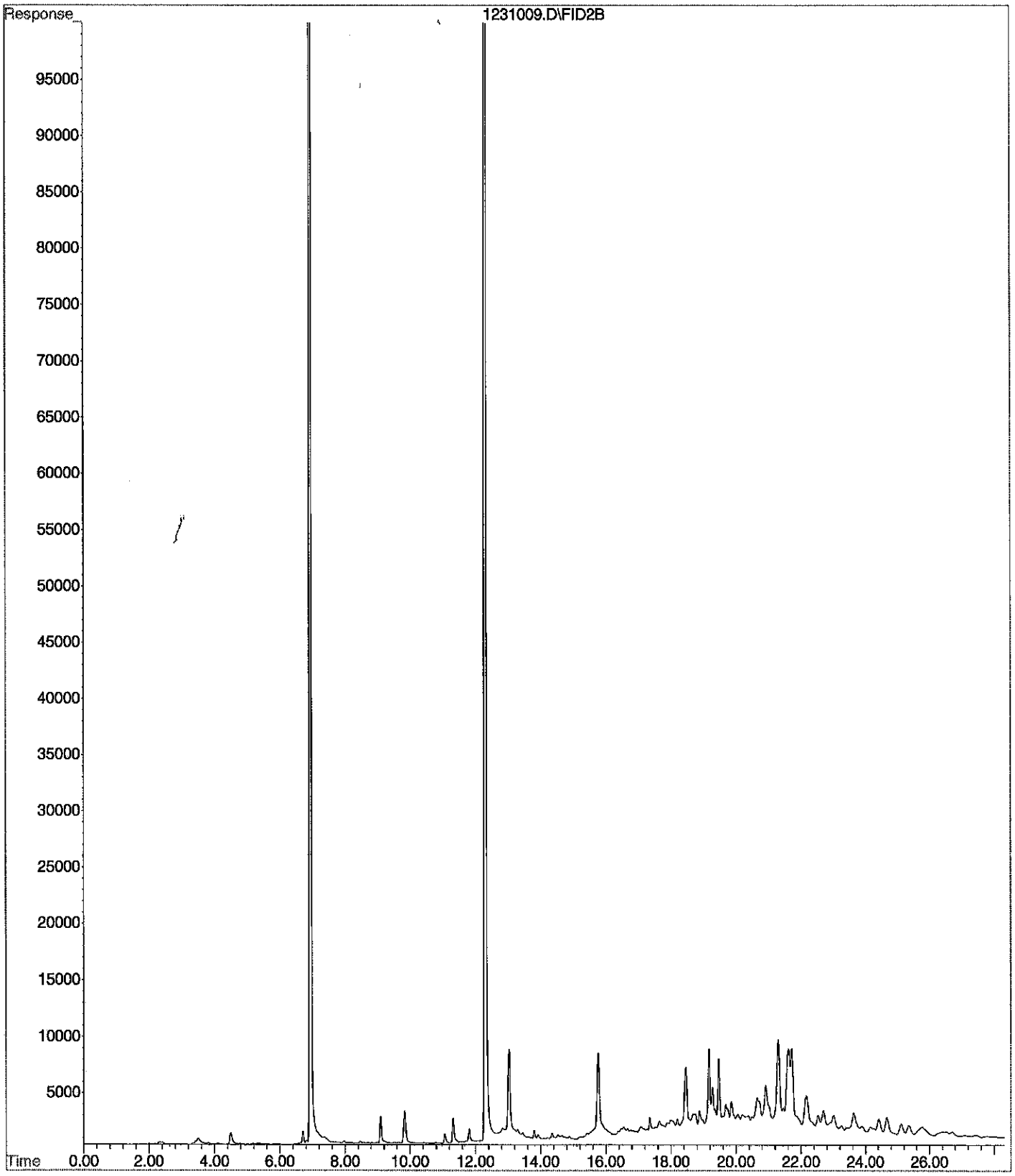
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	3005918	43.339	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1790057	44.146	PPB
11)	S	FLUOROBENZENE #2	6.94	8199356	36.949	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11361963	37.919	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	797239	0.009	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4306960	0.055	PPM
3)	H	GASOLINE (9-24-14)	13.51	1505528	0.017	PPM
7)	H	entire GAS envelope #2 (9-	12.26	11379189	0.030	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	4842254	N.D.	PPM
9)		MTBE #2	0.00	0	N.D.	PPB
10)		BENZENE #2	6.71	48243	0.120	PPB
12)		TOLUENE #2	9.09	87978	0.139	PPB
13)		ETHYLBENZENE #2	11.06	31542	0.010	PPB
14)		m,p-XYLENE #2	11.32	94875	N.D.	PPB
15)		o-XYLENE #2	11.81	71666	0.020	PPB

1/5/2

File : X:\BTEX\DARYL\DATA\D141231\1231009.D
Operator :
Acquired : 31 Dec 2014 17:20 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-296-05e DUP
Misc Info :
Vial Number: 9



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D141231\1231006.D\FID2B.CH
Acq On : 31 Dec 2014 15:40 Operator:
Sample : 12-296-05e MS Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 16:09 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

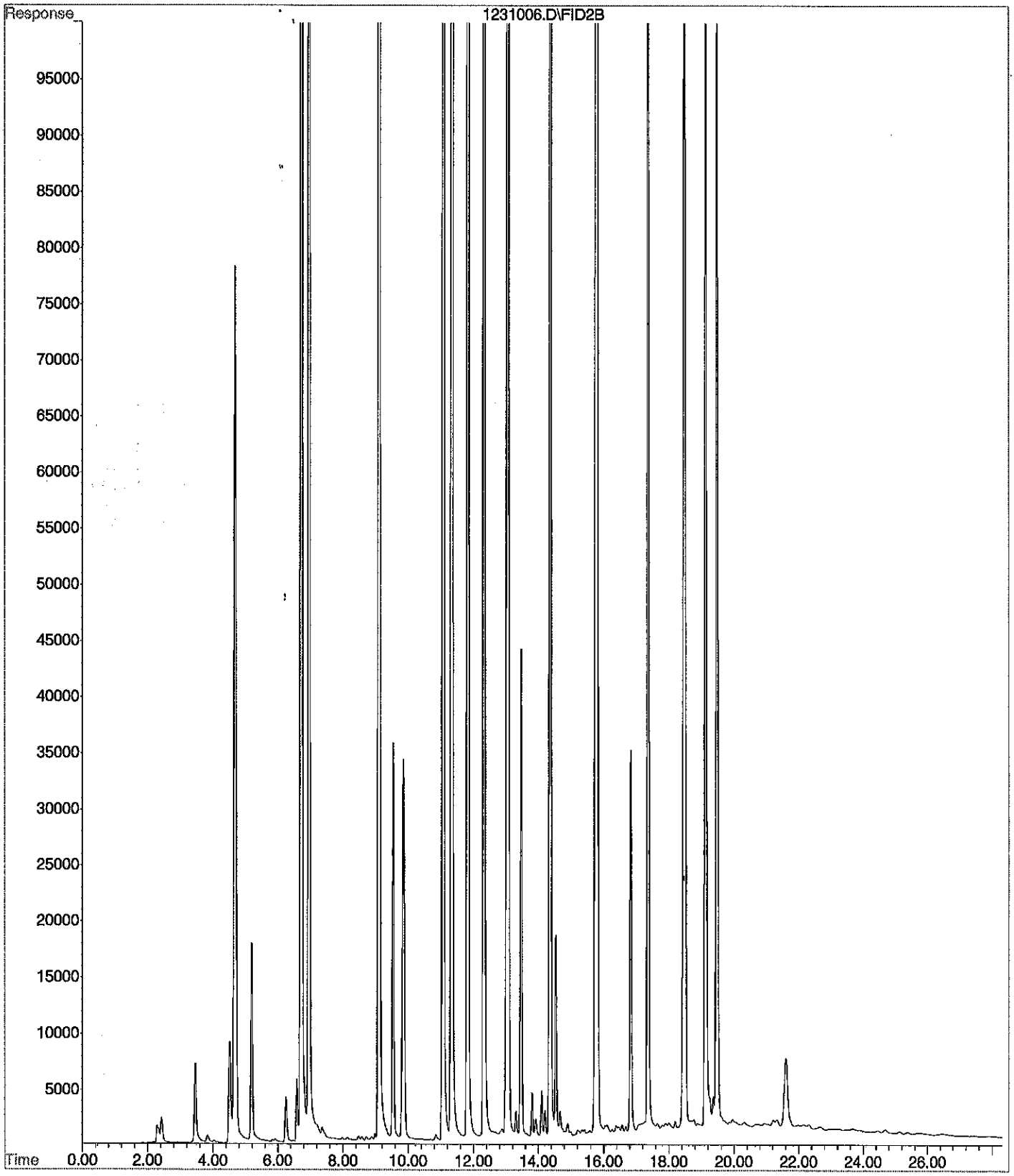
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
4)	S	FLUOROBENZENE	6.96	3201908	46.187 PPB
5)	S	BROMOFLUOROBENZENE	12.32	1783653	43.986 PPB
11)	S	FLUOROBENZENE #2	6.96	8657981	39.034 PPB
16)	S	BROMOFLUOROBENZENE #2	12.32	11360999	37.916 PPB
Target Compounds					
1)	H	Gasoline AK GRO (9-24-14)	8.51	30293471	0.609 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	49771725	0.751 PPM
3)	H	GASOLINE (9-24-14)	13.51	32211884	0.793 PPM
7)	H	entire GAS envelope #2 (9-	12.26	134218542	0.886 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	95987568	0.816 PPM
9)		MTBE #2	4.67	3771267	51.598 PPB
10)		BENZENE #2	6.72	14568340	49.598 PPB
12)		TOLUENE #2	9.10	13827551	49.579 PPB
13)		ETHYLBENZENE #2	11.07	11885067	48.280 PPB
14)		m,p-XYLENE #2	11.33	14409734	49.131 PPB
15)		o-XYLENE #2	11.82	11996165	47.678 PPB

116

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D141231\1231006.D
Operator :
Acquired : 31 Dec 2014 15:40 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-296-05e MS
Misc Info :
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D141231\1231007.D\FID2B.CH
Acq On : 31 Dec 2014 16:14 Operator:
Sample : 12-296-05e MSD Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 16:42 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

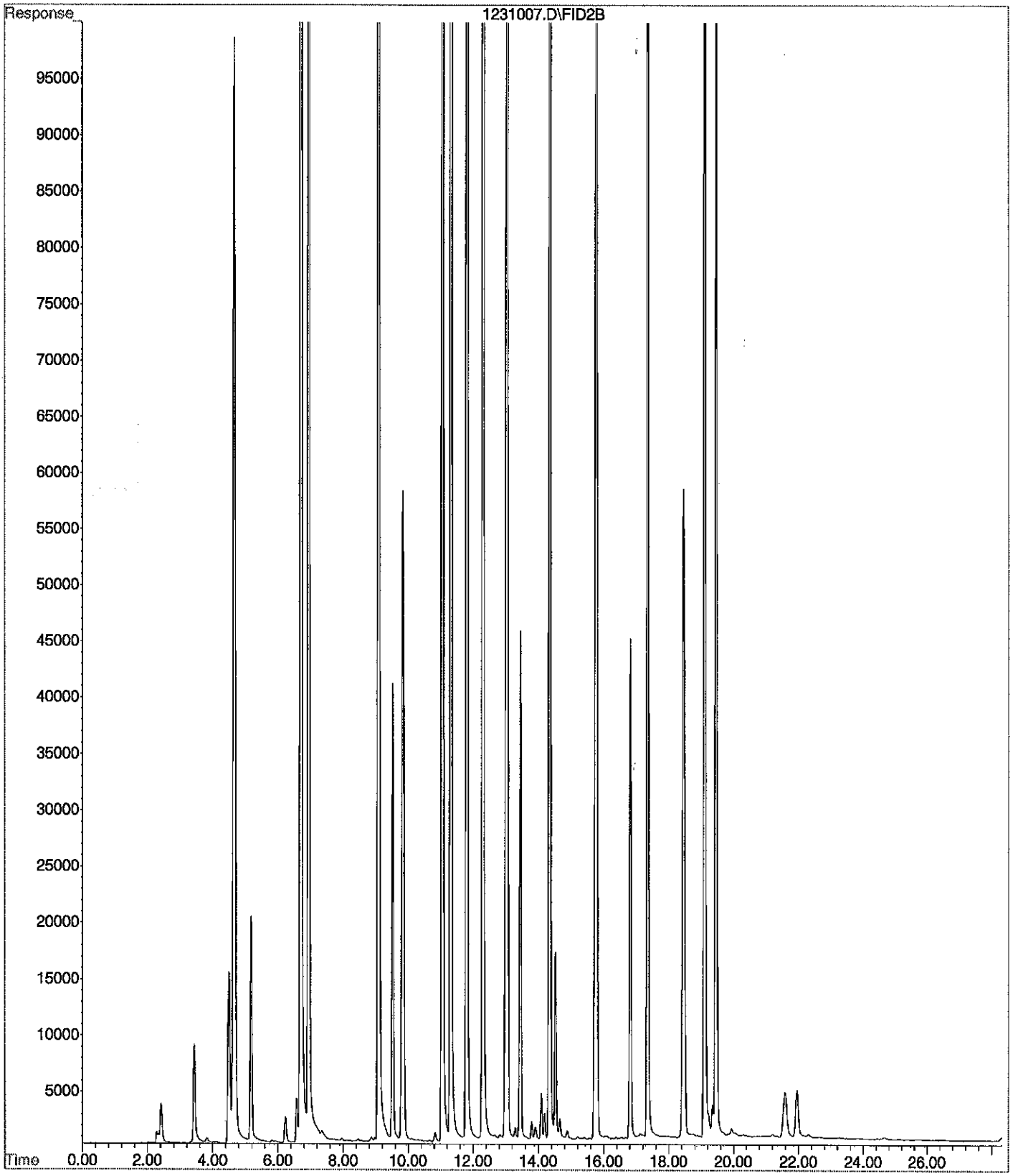
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3229660	46.590 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1756843	43.317 PPB
11)	S	FLUOROBENZENE #2	6.94	9012804	40.648 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11321485	37.783 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	29863889	0.600 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	47695328	0.719 PPM
3)	H	GASOLINE (9-24-14)	13.51	30870284	0.759 PPM
7)	H	entire GAS envelope #2 (9-	12.26	122623703	0.805 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	86658100	0.731 PPM
9)		MTBE #2	4.66	4717350	64.555 PPB
10)		BENZENE #2	6.70	15056816	51.263 PPB
12)		TOLUENE #2	9.09	13922977	49.922 PPB
13)		ETHYLBENZENE #2	11.05	11958689	48.580 PPB
14)		m,p-XYLENE #2	11.32	14213813	48.455 PPB
15)		o-XYLENE #2	11.80	11800073	46.895 PPB

16

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D141231\1231007.D
Operator :
Acquired : 31 Dec 2014 16:14 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-296-05e MSD
Misc Info :
Vial Number: 7



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D141231\1231001.D\FID2B.CH
Acq On : 31 Dec 2014 9:18 Operator:
Sample : CCVD1231G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 9:46 2014 Quant Results File: 141012DB.RES

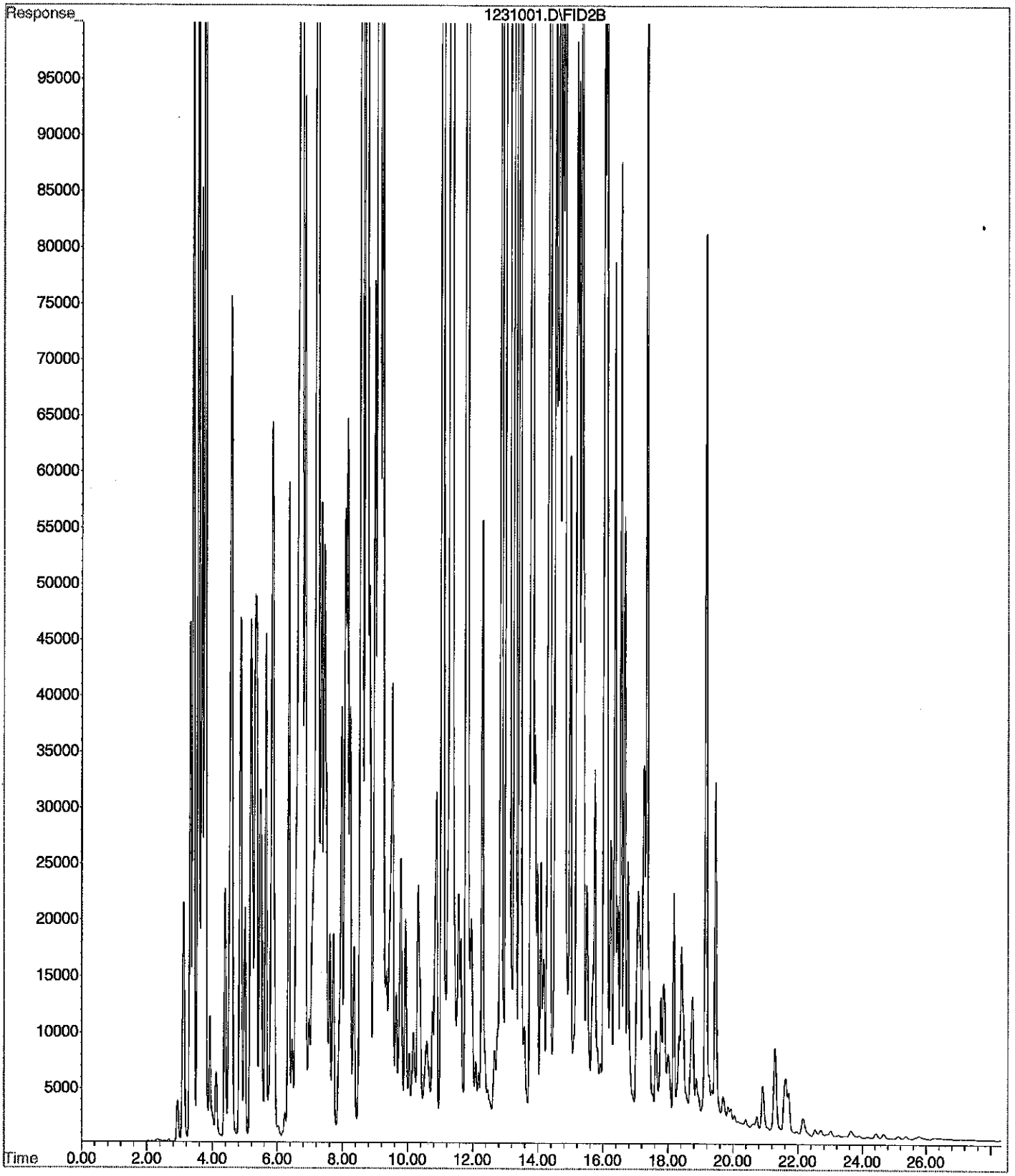
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.84	7168886	103.820 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1208240	29.611 PPB
11)	S	FLUOROBENZENE #2	6.97	463066	1.775 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	2462082	7.855 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	273581099	5.551 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	370284189	5.661 PPM
3)	H	GASOLINE (9-24-14)	13.51	208769473	5.260 PPM
7)	H	entire GAS envelope #2 (9-	12.26	693916257	4.784 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	518522095	4.667 PPM
9)		MTBE #2	4.58	4067634	55.657 PPB
10)		BENZENE #2	6.71	45961128	156.571 PPB
12)		TOLUENE #2	9.09	117546648	422.797 PPB
13)		ETHYLBENZENE #2	11.05	28706856	116.781 PPB
14)		m,p-XYLENE #2	11.31	105253722	362.317 PPB
15)		o-XYLENE #2	11.81	39900680	159.205 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D141231\1231001.D
Operator :
Acquired : 31 Dec 2014 9:18 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD1231G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231018.D\FID1A.CH Vial: 18
Signal #2 : d:\btex\DATA\D141231\1231018.D\FID2B.CH
Acq On : 31 Dec 2014 22:22 Operator:
Sample : CCVD1231G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 22:50 2014 Quant Results File: 141012DB.RES

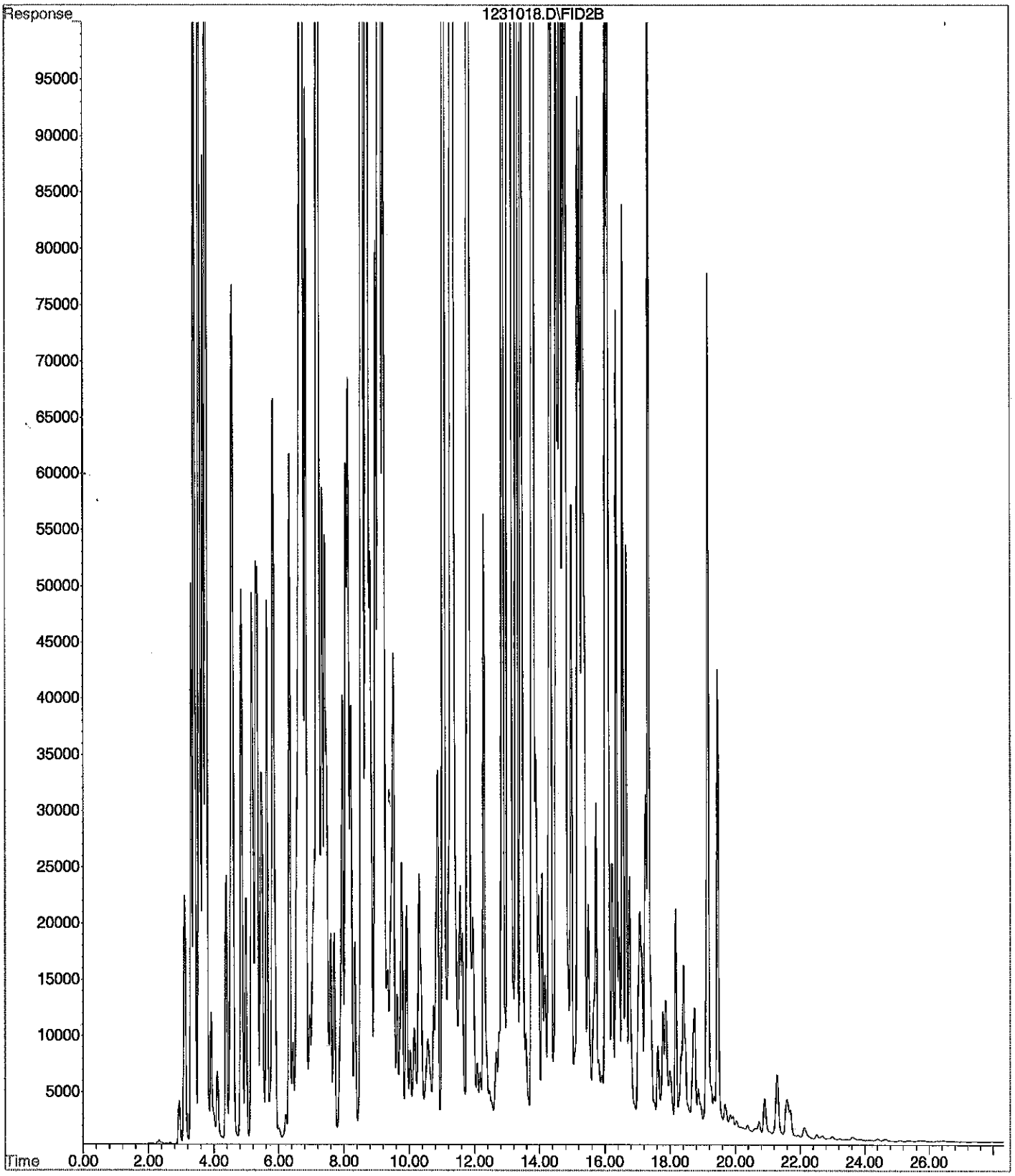
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1195481	29.292	PPB
11)	S	FLUOROBENZENE #2	6.96	499422	1.940	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2517676	8.043	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	279077136	5.662	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	372891147	5.701	PPM
3)	H	GASOLINE (9-24-14)	13.51	205958928	5.189	PPM
7)	H	entire GAS envelope #2 (9-	12.26	686814907	4.735	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	510246499	4.592	PPM
9)		MTBE #2	4.57	4188813	57.317	PPB
10)		BENZENE #2	6.69	46657506	158.944	PPB
12)		TOLUENE #2	9.08	117639471	423.131	PPB
13)		ETHYLBENZENE #2	11.04	28466360	115.801	PPB
14)		m,p-XYLENE #2	11.30	104641175	360.206	PPB
15)		o-XYLENE #2	11.80	39365279	157.065	PPB

1/5

File : X:\BTEX\DARYL\DATA\D141231\1231018.D
Operator :
Acquired : 31 Dec 2014 22:22 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD1231G-2
Misc Info : V2-36-08
Vial Number: 18



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D141231\1231002.D\FID2B.CH
Acq On : 31 Dec 2014 9:51 Operator:
Sample : CCVD1231B-1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

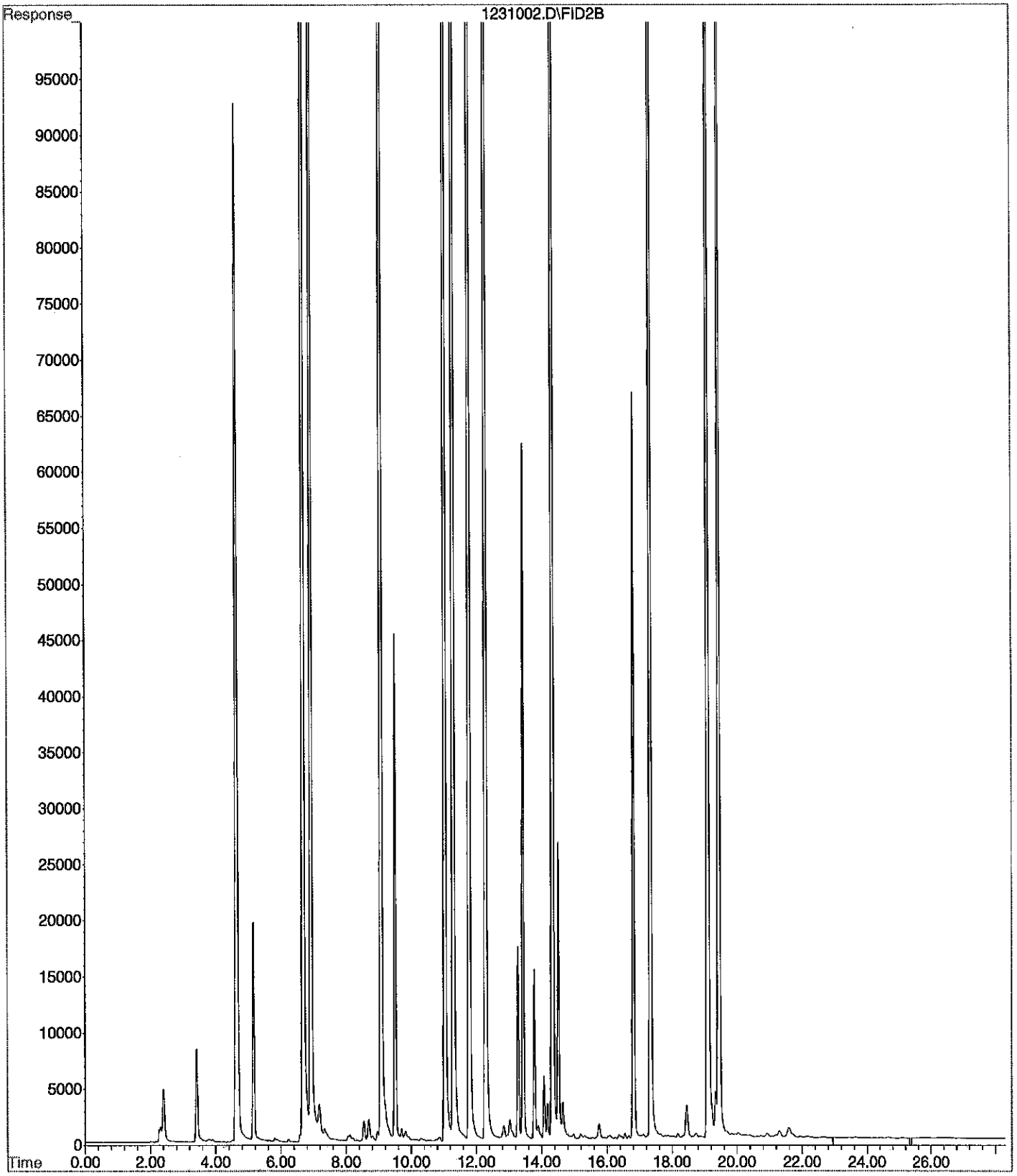
Quant Time: Dec 31 10:20 2014 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3237472	46.703 PPB
5)	S	BROMOFLUOROBENZENE	12.29	2029550	50.129 PPB
11)	S	FLUOROBENZENE #2	6.93	8882242	40.054 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	12594044	42.081 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30045371	0.604 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	51866091	0.783 PPM
3)	H	GASOLINE (9-24-14)	13.51	34588234	0.853 PPM
7)	H	entire GAS envelope #2 (9-	12.26	120004261	0.787 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	84035692	0.707 PPM
9)		MTBE #2	4.65	4365328	59.734 PPB
10)		BENZENE #2	6.69	14928198	50.824 PPB
12)		TOLUENE #2	9.07	14191636	50.889 PPB
13)		ETHYLBENZENE #2	11.04	12238573	49.719 PPB
14)		m,p-XYLENE #2	11.31	15305077	52.217 PPB
15)		o-XYLENE #2	11.79	12550651	49.894 PPB

File : X:\BTEX\DARYL\DATA\D141231\1231002.D
Operator :
Acquired : 31 Dec 2014 9:51 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD1231B-1
Misc Info : V2-36-23,V2-36-22
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D141231\1231017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D141231\1231017.D\FID2B.CH
Acq On : 31 Dec 2014 21:48 Operator:
Sample : CCVD1231B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Dec 31 22:17 2014 Quant Results File: 141012DB.RES

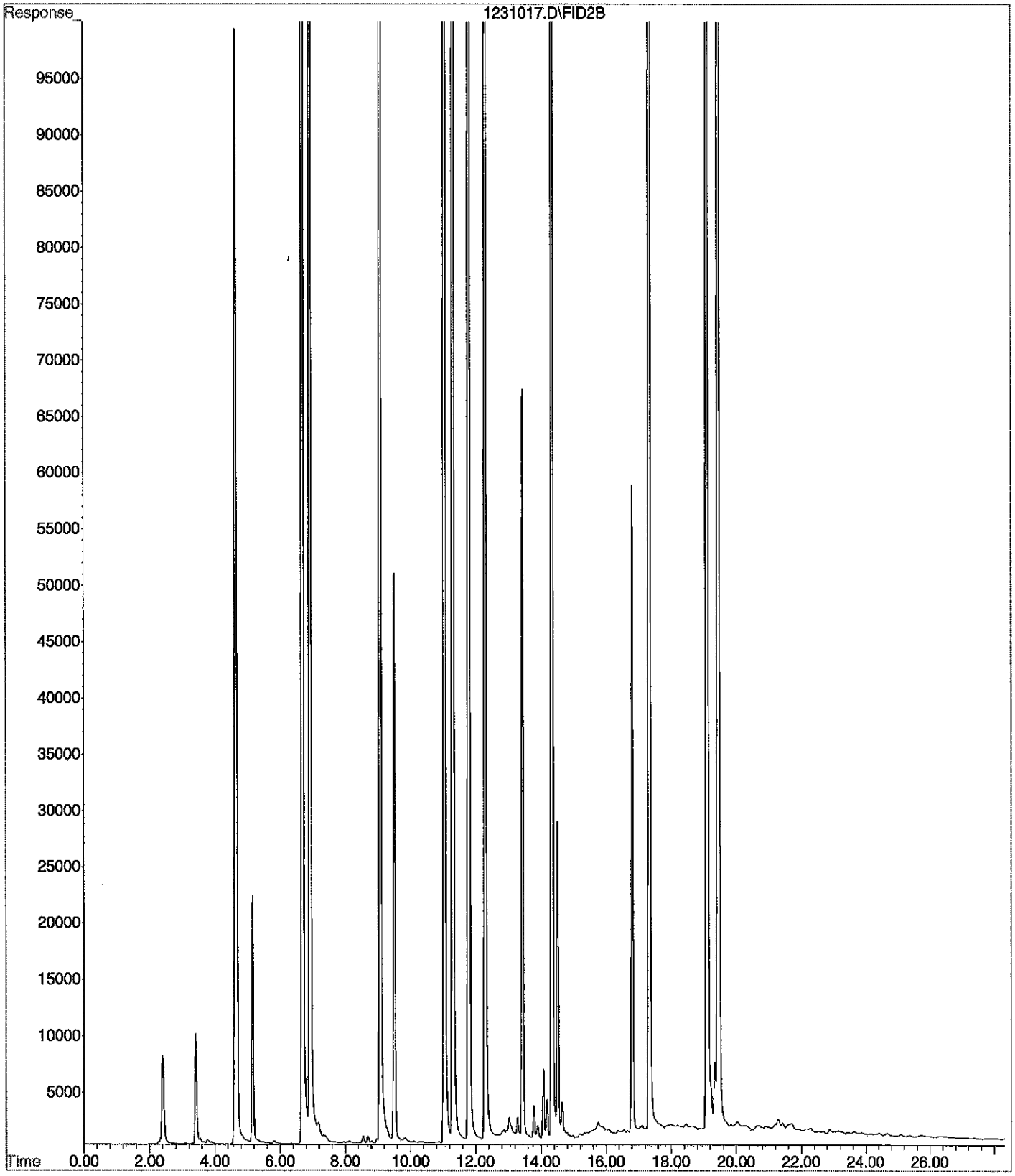
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3226104	46.538 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1887772	46.587 PPB
11)	S	FLUOROBENZENE #2	6.93	8987794	40.534 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	12298839	41.084 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30394255	0.611 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	54608304	0.825 PPM
3)	H	GASOLINE (9-24-14)	13.51	35921150	0.887 PPM
7)	H	entire GAS envelope #2 (9-	12.26	136827290	0.904 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	90190696	0.763 PPM
9)		MTBE #2	4.64	4625888	63.302 PPB
10)		BENZENE #2	6.69	15399561	52.430 PPB
12)		TOLUENE #2	9.07	14459152	51.852 PPB
13)		ETHYLBENZENE #2	11.04	12640930	51.358 PPB
14)		m,p-XYLENE #2	11.31	15240784	51.996 PPB
15)		o-XYLENE #2	11.79	12822813	50.982 PPB

1157

File : X:\BTEX\DARYL\DATA\D141231\1231017.D
Operator :
Acquired : 31 Dec 2014 21:48 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD1231B-2
Misc Info : V2-36-23,V2-36-22
Vial Number: 17



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 1230-T07.D
Sample : 12-293-01

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 14:29
Operator : ZT
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 15:04:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.669	131284131	45.628	PPM
Spiked Amount	50.000		Recovery =	91.26%	
	Target Compounds				
2) H	Gasoline	3.500	12771528	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	11691899	0.591	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	9421111	1.099	PPM
5) H	Oil (11-04-14)	22.000	54637296	14.362	PPM
6) H	Oil Acid Clean (11-...	22.000	54637296	4.043	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	8504626	1.004	PPM
8) H	Oil Combo (11-04-14)	22.000	53585362	14.112	PPM
9) H	Oil Acid Clean Combo ...	22.000	53585362	3.516	PPM
10) H	Alaska 102 DF2	13.025	9674874	NoCal	PPM
11) H	Alaska 103 Oil	20.000	24048955	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	8296977	1.312	PPM
13) H	Mineral Oil Combo (1...	16.000	5541312	1.026	PPM
14) H	Oil MO Combo (11-04-14)	22.000	52810609	14.221	PPM
15) H	Oil Acid Clean MO Com...	22.000	52810609	3.242	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

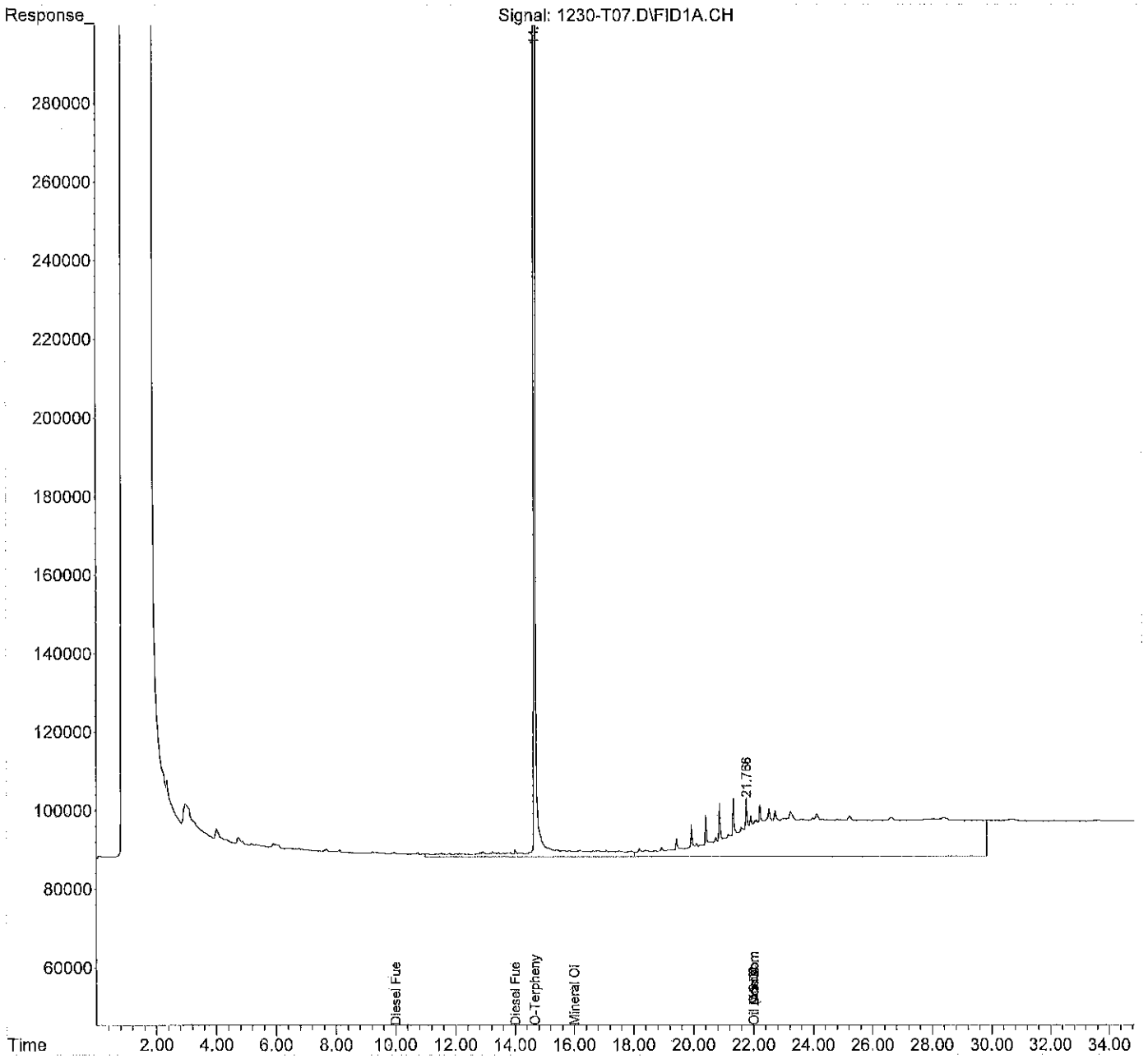
Quantitation Report (Not Reviewed)

Data File : 1230-T07.D
Sample : 12-293-01

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 14:29
Operator : ZT
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 15:04:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T08.D
Sample : 12-293-02

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 15:11
Operator : ZT
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 15:46:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.667	119972566	41.718	PPM
Spiked Amount	50.000		Recovery =	83.44%	
	Target Compounds				
2) H	Gasoline	3.500	10992469	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	25904964	6.603	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	31850245	11.074	PPM
5) H	Oil (11-04-14)	22.000	68526802	21.189	PPM
6) H	Oil Acid Clean (11-...	22.000	68526802	11.725	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	27987256	9.811	PPM
8) H	Oil Combo (11-04-14)	22.000	62793906	18.748	PPM
9) H	Oil Acid Clean Combo ...	22.000	62793906	8.716	PPM
10) H	Alaska 102 DF2	13.025	32783911	NoCal	PPM
11) H	Alaska 103 Oil	20.000	29850614	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	34132603	11.591	PPM
13) H	Mineral Oil Combo (1...	16.000	27292012	9.949	PPM
14) H	Oil MO Combo (11-04-14)	22.000	59451976	17.696	PPM
15) H	Oil Acid Clean MO Com...	22.000	59451976	7.118	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

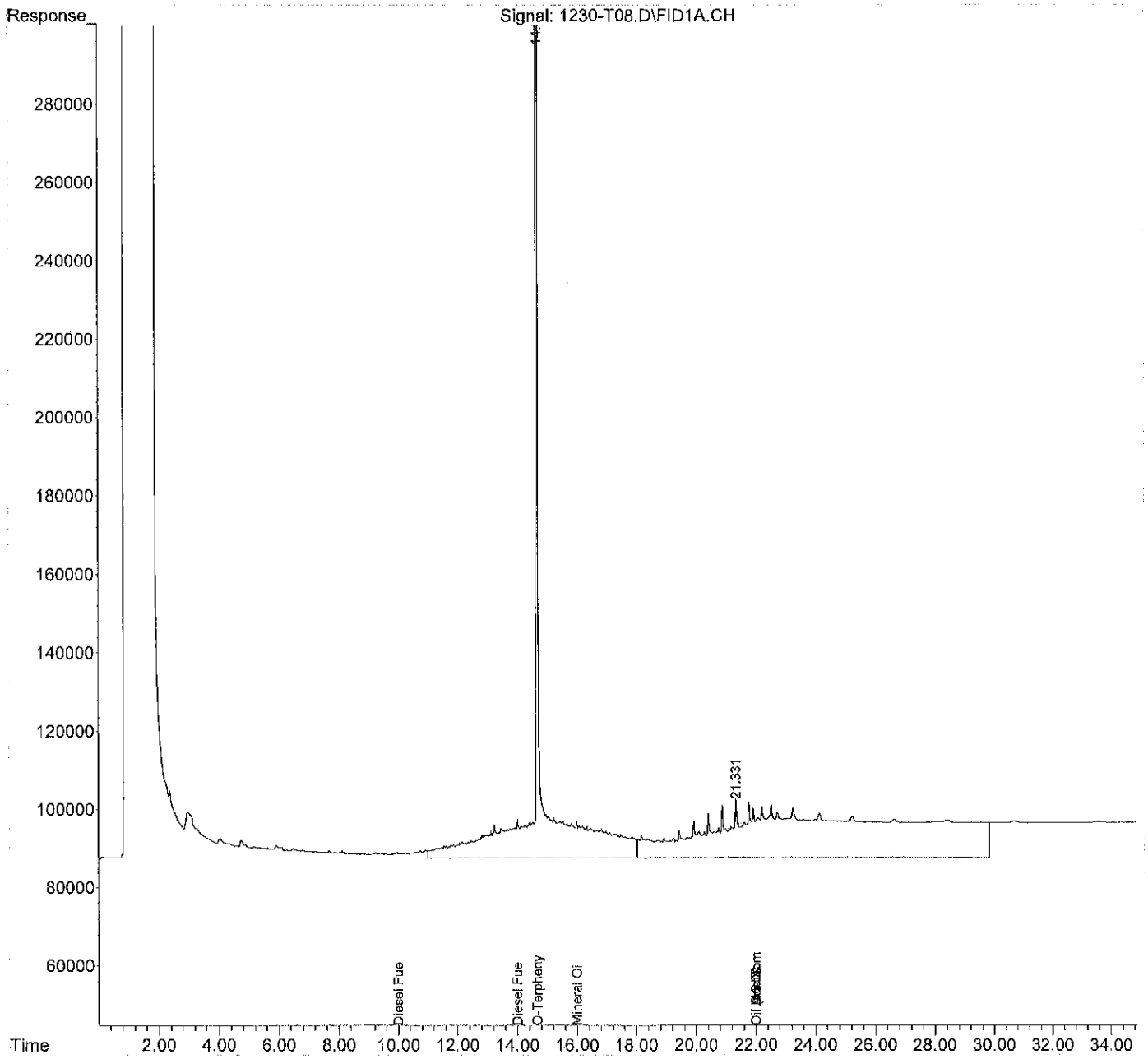
Quantitation Report (Not Reviewed)

Data File : 1230-T08.D
Sample : 12-293-02

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 15:11
Operator : ZT
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 15:46:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T09.D
Sample : 12-293-03

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 15:54
Operator : ZT
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 16:29:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.667	118006758	41.038	PPM
Spiked Amount	50.000		Recovery =	82.08%	
	Target Compounds				
2) H	Gasoline	3.500	12832884	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	12166152	0.792	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	9685511	1.216	PPM
5) H	Oil (11-04-14)	22.000	50544940	12.351	PPM
6) H	Oil Acid Clean (11-...	22.000	50544940	1.780	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	8812573	1.144	PPM
8) H	Oil Combo (11-04-14)	22.000	49543002	12.077	PPM
9) H	Oil Acid Clean Combo ...	22.000	49543002	1.234	PPM
10) H	Alaska 102 DF2	13.025	9917925	NoCal	PPM
11) H	Alaska 103 Oil	20.000	21634325	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	8004321	1.195	PPM
13) H	Mineral Oil Combo (1...	16.000	5604001	1.052	PPM
14) H	Oil MO Combo (11-04-14)	22.000	48798960	12.123	PPM
15) H	Oil Acid Clean MO Com...	22.000	48798960	0.901	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

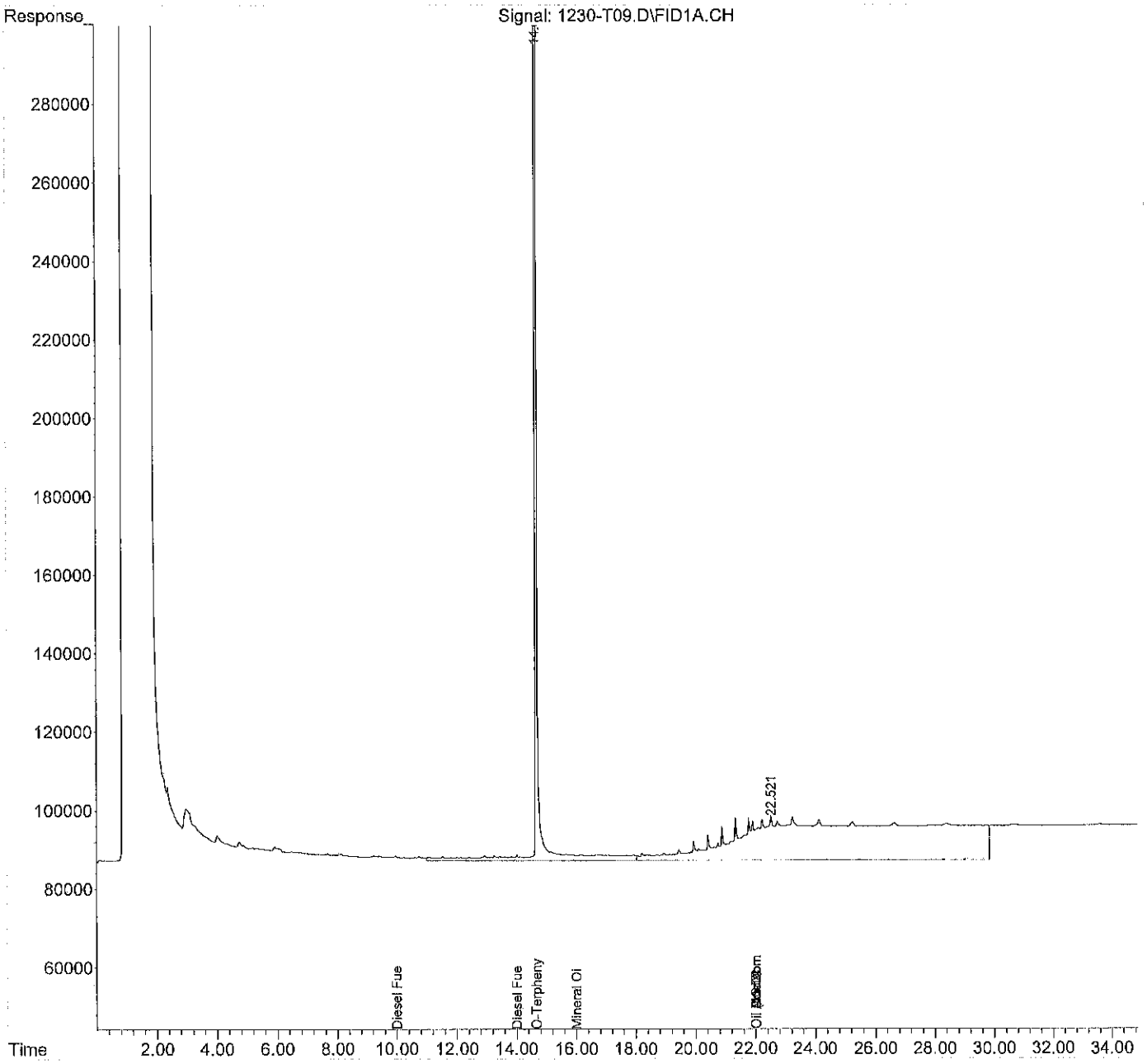
Quantitation Report (Not Reviewed)

Data File : 1230-T09.D
Sample : 12-293-03

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 15:54
Operator : ZT
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 16:29:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T11.D
Sample : 12-293-04

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 17:19
Operator : ZT
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 17:54:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.668	123073469	42.790	PPM
Spiked Amount	50.000		Recovery =	85.58%	
	Target Compounds				
2) H	Gasoline	3.500	11150093	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	11315805	0.432	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	9900632	1.312	PPM
5) H	Oil (11-04-14)	22.000	48624056	11.407	PPM
6) H	Oil Acid Clean (11-...	22.000	48624056	0.718	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	8773095	1.126	PPM
8) H	Oil Combo (11-04-14)	22.000	47492580	11.045	PPM
9) H	Oil Acid Clean Combo ...	22.000	47492580	0.076	PPM
10) H	Alaska 102 DF2	13.025	10220904	NoCal	PPM
11) H	Alaska 103 Oil	20.000	20987608	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	8805164	1.514	PPM
13) H	Mineral Oil Combo (1...	16.000	6089838	1.251	PPM
14) H	Oil MO Combo (11-04-14)	22.000	46541012	10.941	PPM
15) H	Oil Acid Clean MO Com...	22.000	46541012	N.D.	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

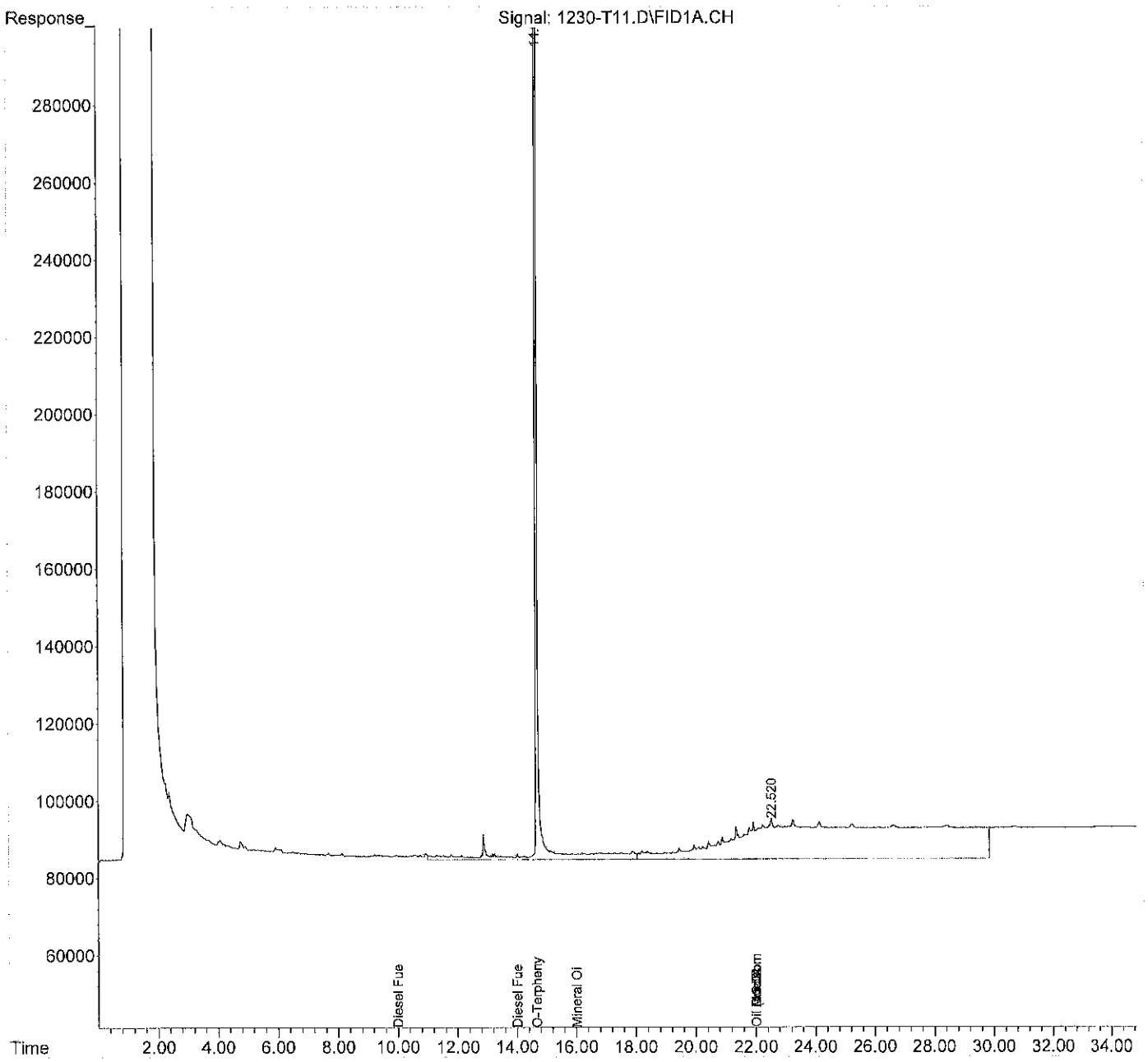
Quantitation Report (Not Reviewed)

Data File : 1230-T11.D
Sample : 12-293-04

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 17:19
Operator : ZT
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 17:54:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T12.D
Sample : 12-293-05

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 18:01
Operator : ZT
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 18:36:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.668	127433879	44.297	PPM
Spiked Amount	50.000		Recovery =	88.59%	
	Target Compounds				
2) H	Gasoline	3.500	11813176	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	16333270	2.554	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	18201264	5.004	PPM
5) H	Oil (11-04-14)	22.000	59860893	16.930	PPM
6) H	Oil Acid Clean (11-...	22.000	59860893	6.932	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	15251903	4.054	PPM
8) H	Oil Combo (11-04-14)	22.000	56975902	15.819	PPM
9) H	Oil Acid Clean Combo ...	22.000	56975902	5.431	PPM
10) H	Alaska 102 DF2	13.025	18952849	NoCal	PPM
11) H	Alaska 103 Oil	20.000	26347203	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	17085921	4.809	PPM
13) H	Mineral Oil Combo (1...	16.000	11937020	3.650	PPM
14) H	Oil MO Combo (11-04-14)	22.000	54449686	15.079	PPM
15) H	Oil Acid Clean MO Com...	22.000	54449686	4.199	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

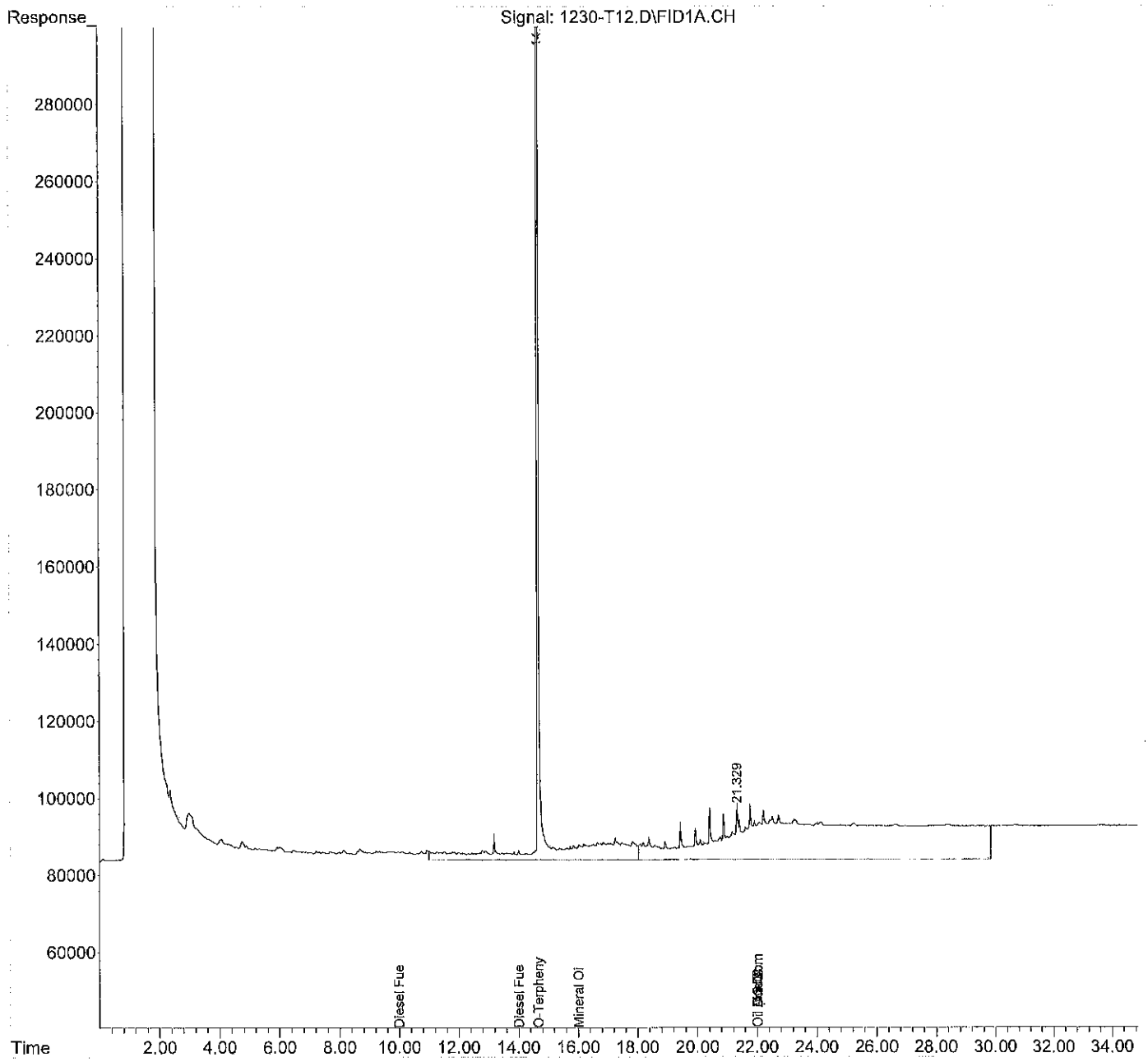
Quantitation Report (Not Reviewed)

Data File : 1230-T12.D
Sample : 12-293-05

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 18:01
Operator : ZT
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 18:36:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T06.D
Sample : MB1230S1 ACU

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 13:46
Operator : ZT
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 14:21:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.669	132538583	46.062	PPM
Spiked Amount	50.000		Recovery =	92.12%	
	Target Compounds				
2) H	Gasoline	3.500	10950067	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	8577029	N.D.	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	5745012	N.D.	PPM
5) H	Oil (11-04-14)	22.000	48690369	11.439	PPM
6) H	Oil Acid Clean (11-...	22.000	48690369	0.754	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	5386530	N.D.	PPM
8) H	Oil Combo (11-04-14)	22.000	48247553	11.425	PPM
9) H	Oil Acid Clean Combo ...	22.000	48247553	0.502	PPM
10) H	Alaska 102 DF2	13.025	5855414	NoCal	PPM
11) H	Alaska 103 Oil	20.000	20733207	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	4626426	N.D.	PPM
13) H	Mineral Oil Combo (1...	16.000	3012273	N.D.	PPM
14) H	Oil MO Combo (11-04-14)	22.000	47964191	11.686	PPM
15) H	Oil Acid Clean MO Com...	22.000	47964191	0.414	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

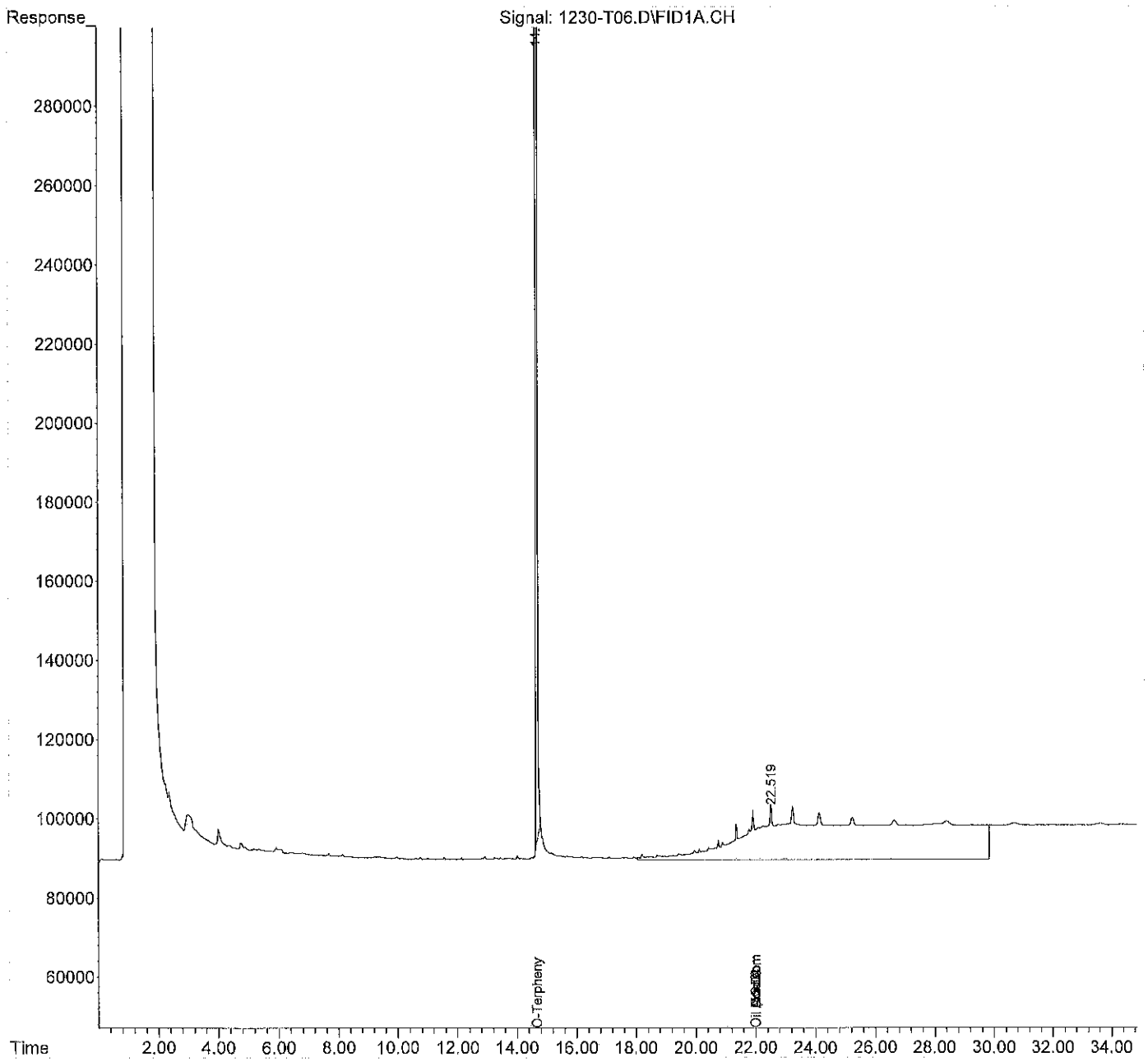
Quantitation Report (Not Reviewed)

Data File : 1230-T06.D
Sample : MB1230S1 ACU

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 13:46
Operator : ZT
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 14:21:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T10.D
Sample : 12-293-03 DUP

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 16:36
Operator : ZT
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 17:11:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.667	121967668	42.407	PPM
Spiked Amount	50.000		Recovery =	84.81%	
	Target Compounds				
2) H	Gasoline	3.500	10307318	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	9630106	N.D.	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	7498336	0.243	PPM
5) H	Oil (11-04-14)	22.000	43159811	8.721	PPM
6) H	Oil Acid Clean (11-...	22.000	43159811	N.D.	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	6939772	0.297	PPM
8) H	Oil Combo (11-04-14)	22.000	42490224	8.526	PPM
9) H	Oil Acid Clean Combo ...	22.000	42490224	N.D.	PPM
10) H	Alaska 102 DF2	13.025	7622630	NoCal	PPM
11) H	Alaska 103 Oil	20.000	18017587	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	5690039	0.274	PPM
13) H	Mineral Oil Combo (1...	16.000	4242138	0.493	PPM
14) H	Oil MO Combo (11-04-14)	22.000	42007635	8.570	PPM
15) H	Oil Acid Clean MO Com...	22.000	42007635	N.D.	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

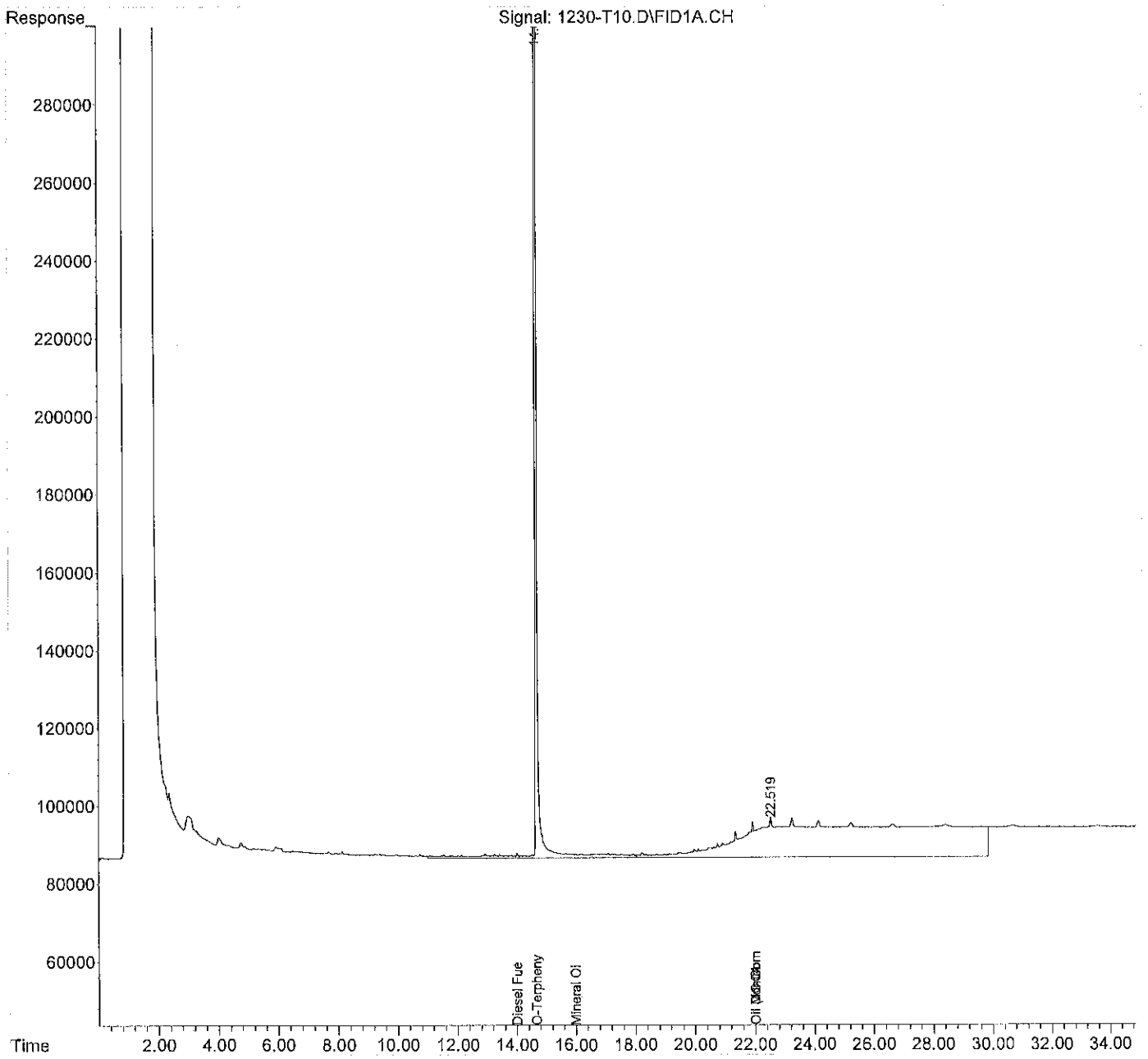
Quantitation Report (Not Reviewed)

Data File : 1230-T10.D
Sample : 12-293-03 DUP

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 16:36
Operator : ZT
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 17:11:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T01.D
Sample : CCV1230F-T1

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 9:55
Operator : ZT
Misc : SV3-11-24
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 10:30:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	32688624	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	219860311	88.643	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	218505211	94.093	PPM
5) H	Oil (11-04-14)	22.000	71093982	22.451	PPM
6) H	Oil Acid Clean (11-...	22.000	71093982	13.145	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	214545354	94.138	PPM
8) H	Oil Combo (11-04-14)	22.000	60504414	17.595	PPM
9) H	Oil Acid Clean Combo ...	22.000	60504414	7.423	PPM
10) H	Alaska 102 DF2	13.025	218964880	NoCal	PPM
11) H	Alaska 103 Oil	20.000	24989450	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	140645903	53.970	PPM
13) H	Mineral Oil Combo (1...	16.000	137020578	54.964	PPM
14) H	Oil MO Combo (11-04-14)	22.000	56925051	16.374	PPM
15) H	Oil Acid Clean MO Com...	22.000	56925051	5.643	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

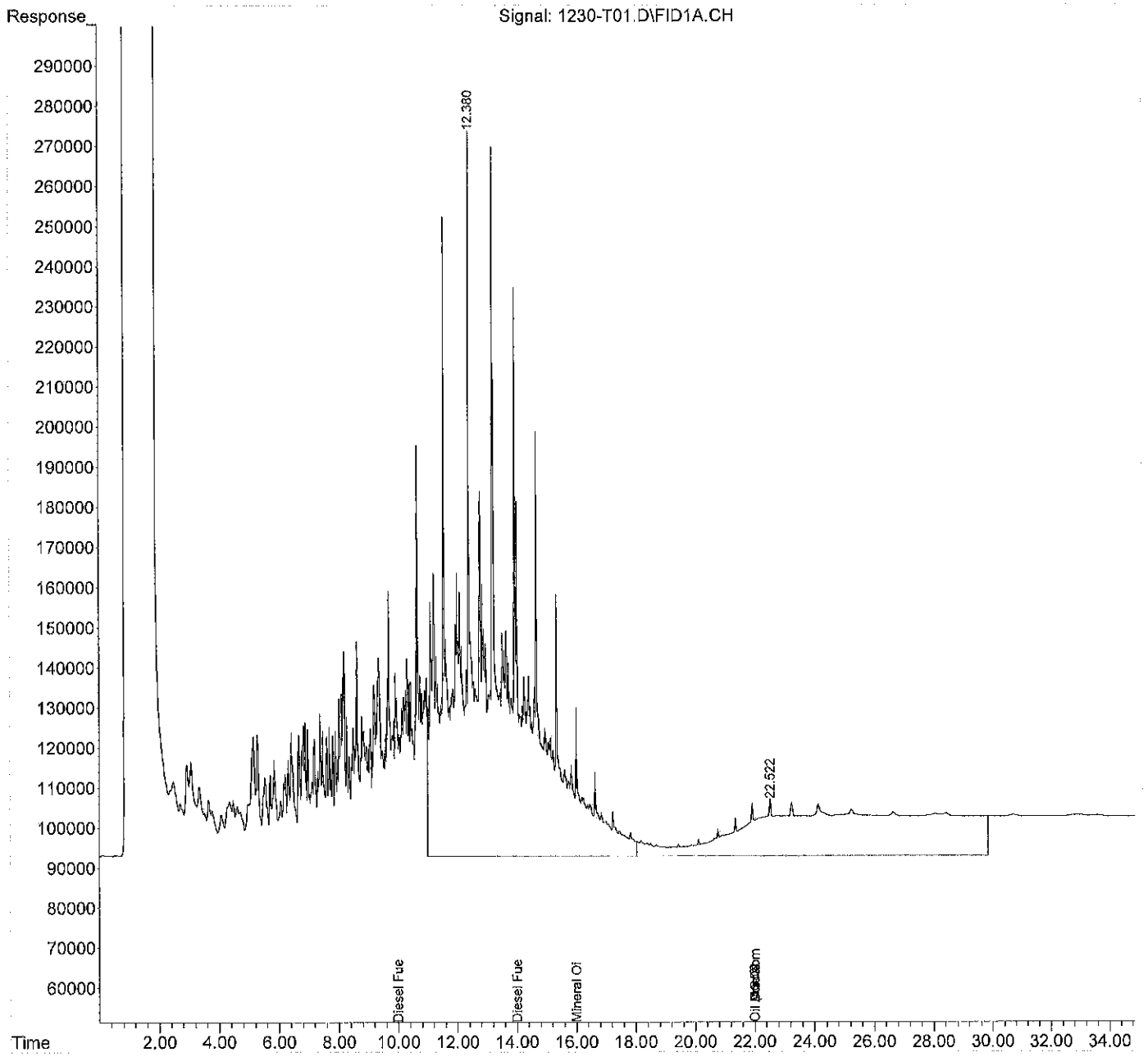
Quantitation Report (Not Reviewed)

Data File : 1230-T01.D
Sample : CCV1230F-T1

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 9:55
Operator : ZT
Misc : SV3-11-24
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 10:30:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 1230-T13.D
Sample : CCV1230F-T2

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 18:43
Operator : ZT
Misc : SV3-11-24
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 19:18:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	33447267	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	227061635	91.689	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	226840905	97.801	PPM
5) H	Oil (11-04-14)	22.000	65677672	19.789	PPM
6) H	Oil Acid Clean (11-...	22.000	65677672	10.149	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	222334239	97.659	PPM
8) H	Oil Combo (11-04-14)	22.000	54231634	14.437	PPM
9) H	Oil Acid Clean Combo ...	22.000	54231634	3.881	PPM
10) H	Alaska 102 DF2	13.025	227403164	NoCal	PPM
11) H	Alaska 103 Oil	20.000	21934397	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	147495047	56.695	PPM
13) H	Mineral Oil Combo (1...	16.000	143412207	57.586	PPM
14) H	Oil MO Combo (11-04-14)	22.000	50159325	12.834	PPM
15) H	Oil Acid Clean MO Com...	22.000	50159325	1.695	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

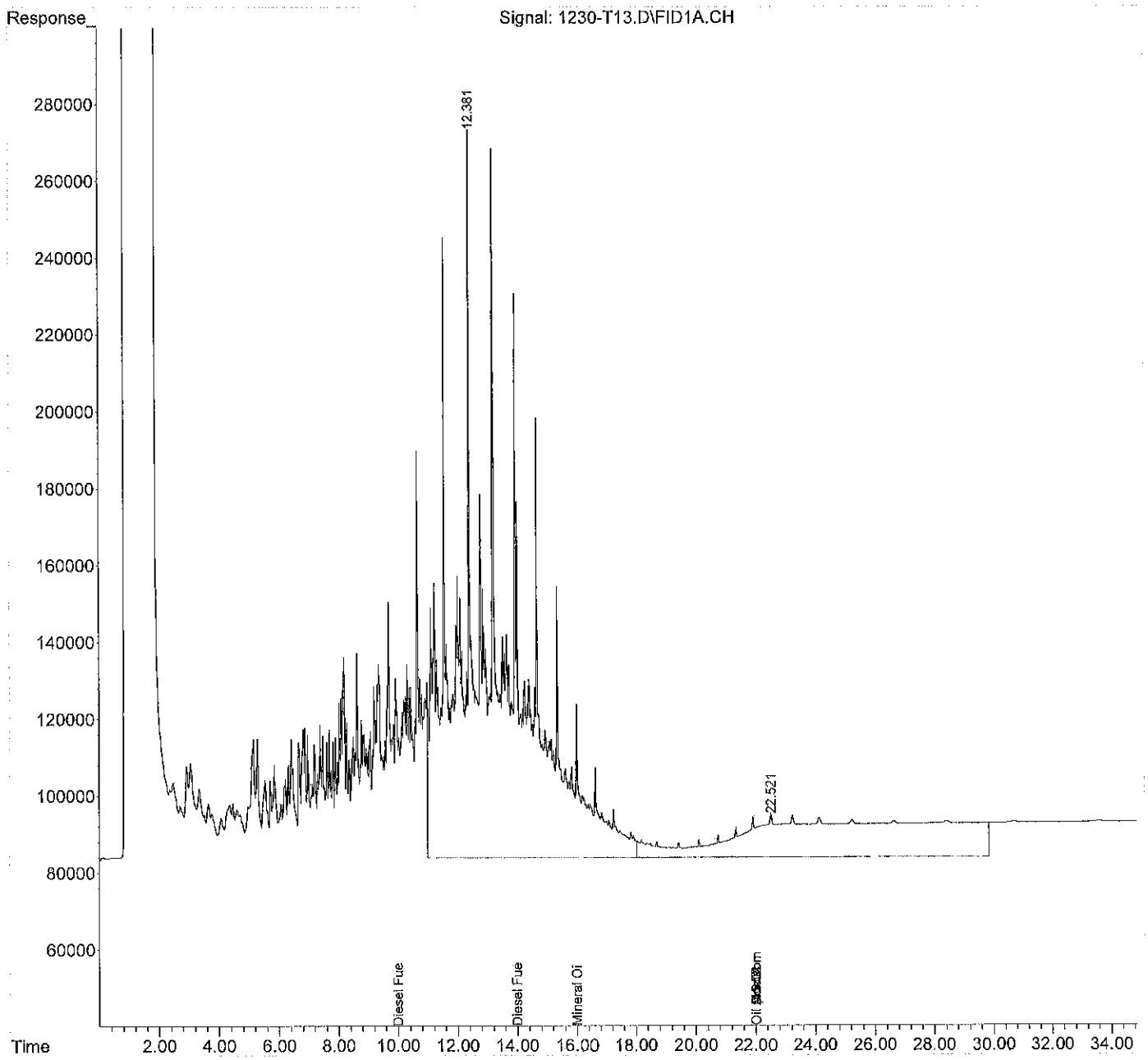
Quantitation Report (Not Reviewed)

Data File : 1230-T13.D
Sample : CCV1230F-T2

Data Path : X:\DIESELS\TERI\DATA\T141230\
Signal(s) : FID1A.CH
Acq On : 30 Dec 2014 18:43
Operator : ZT
Misc : SV3-11-24
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 30 19:18:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230016.D
Acq On : 30 Dec 2014 3:20 pm
Operator :
Sample : 12-293-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 30 15:35:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.030	136	360895	2000.00	ppb	0.00
6) Acenaphthene-d10	5.277	164	224876	2000.00	ppb	0.00
10) Phenanthrene-d10	6.281	188	452464	2000.00	ppb	0.00
17) Chrysene-d12	8.378	240	453832	2000.00	ppb	0.00
21) Perylene-d12	9.825	264	401056	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.577	82	7709	503.48	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery =	50.35%		
7) 2-Fluorobiphenyl	4.820	172	94738	784.52	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	78.45%		
11) Pyrene-d10	7.281	212	119117	657.32	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	65.73%		
18) Terphenyl-d14	7.450	244	89453	576.25	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	57.63%		
Target Compounds						Qvalue
3) Naphthalene	4.042	128	2505	16.65	ppb	100
4) 2-Methylnaphthalene	4.559	142	382	4.76	ppb	100
5) 1-Methylnaphthalene	4.613	142	2063	14.62	ppb	100
8) Acenaphthylene	5.169	152	1396	8.68	ppb	100
9) Acenaphthene	5.292	153	1675	14.08	ppb	100
12) Fluorene	5.708	166	1853	13.13	ppb	100
13) Phenanthrene	6.297	178	6279	~~51.70~~	ppb 23.75	100
14) Anthracene	6.297	178	6279	25.96	ppb	100
15) Fluoranthene	7.136	202	2888	12.83	ppb	100
16) Pyrene	7.293	202	3747	15.28	ppb	100
19) Benzo[a]anthracene	8.374	228	2388	~~12.59~~	ppb 7.60	100
20) Chrysene	8.374 40	228	2388	~~9.13~~	ppb 3.66	100
22) Benzo[b]fluoranthene	9.477	252	873	~~5.42~~	ppb 2.53	100
23) Benzo(j,k)fluoranthene	9.477	252	873	~~3.56~~	ppb ø	100
24) Benzo[a]pyrene	9.770	252	387	2.04	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.902	276	338	1.53	ppb	100
26) Dibenz[a,h]anthracene	10.844	278	11	0.06	ppb	100
27) Benzo[g,h,i]perylene	11.148	276	565	3.14	ppb	100

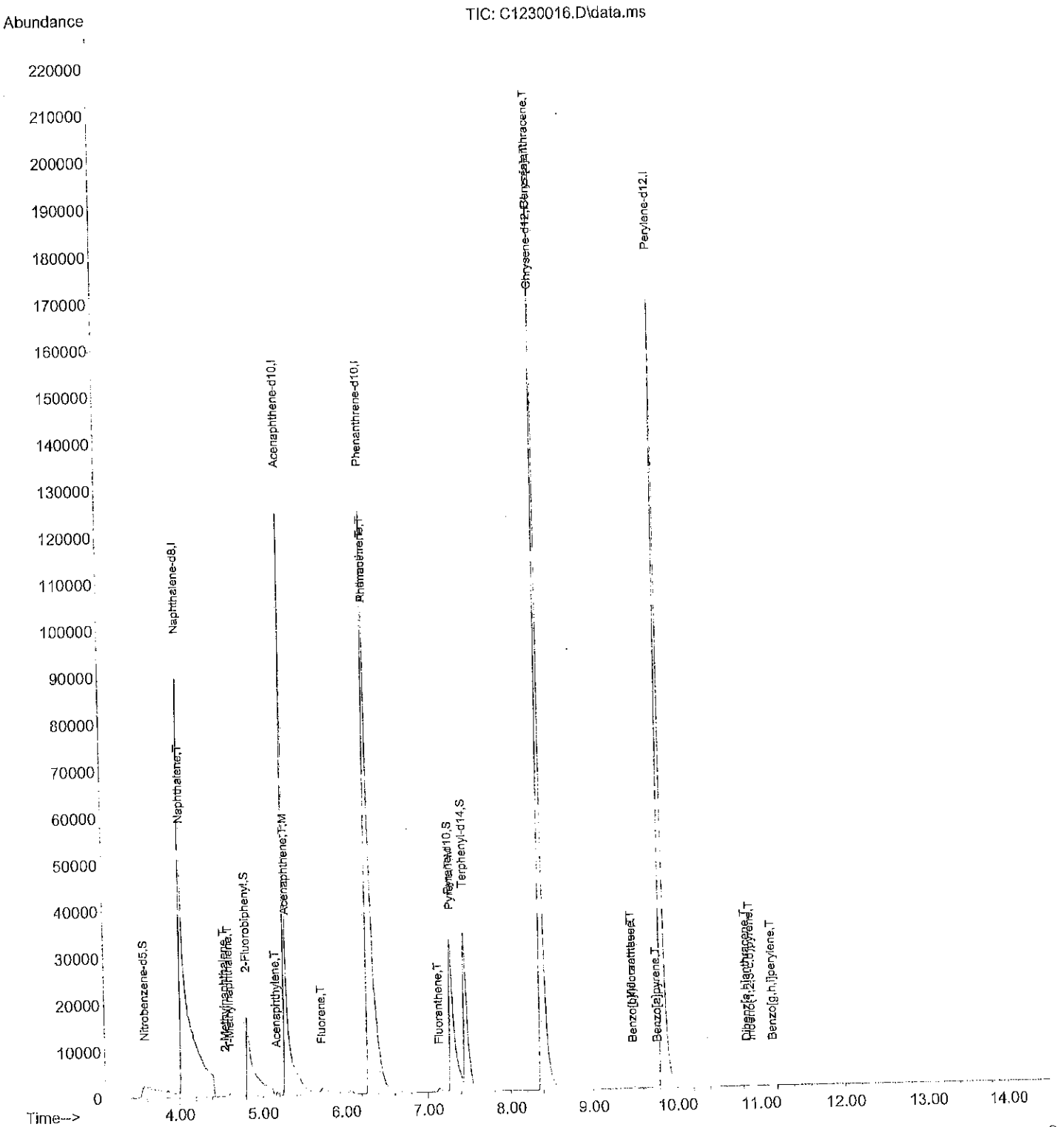
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230016.D
Acq On : 30 Dec 2014 3:20 pm
Operator :
Sample : 12-293-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 30 15:35:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



CSIM1230.M Tue Dec 30 15:35:14 2014

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230019.D
Acq On : 30 Dec 2014 4:25 pm
Operator :
Sample : 12-293-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 30 16:40:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.029	136	336247	2000.00	ppb	0.00
6) Acenaphthene-d10	5.269	164	212113	2000.00	ppb	0.00
10) Phenanthrene-d10	6.282	188	428322	2000.00	ppb	0.00
17) Chrysene-d12	8.379	240	425466	2000.00	ppb	0.00
21) Perylene-d12	9.824	264	377229	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.577	82	9399	613.73	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 61.37%			
7) 2-Fluorobiphenyl	4.820	172	106223	932.56	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 93.26%#			
11) Pyrene-d10	7.281	212	146729	855.32	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 85.53%			
18) Terphenyl-d14	7.450	244	111941	769.19	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 76.92%			
Target Compounds						Qvalue
3) Naphthalene	4.041	128	5375	38.35	ppb	100
4) 2-Methylnaphthalene	4.570	142	584	7.81	ppb	100
5) 1-Methylnaphthalene	4.613	142	999	7.60	ppb	100
8) Acenaphthylene	5.169	152	3123	20.58	ppb	100
9) Acenaphthene	5.292	153	706	6.29	ppb	100
12) Fluorene	5.716	166	1137	8.51	ppb	100
13) Phenanthrene	6.298	178	9439	~~82.10~~	ppb 41.75	100
14) Anthracene	6.298	178	9439	~~41.22~~	ppb 21.46	100
15) Fluoranthene	7.136	202	3768	17.68	ppb	100
16) Pyrene	7.287	202	5091	21.93	ppb	100
19) Benzo[a]anthracene	8.375	228	1614	9.08	ppb	100
20) Chrysene	8.379	228	1614	~~6.58~~	ppb 11.69	100
22) Benzo[b]fluoranthene	9.485	252	2831	~~18.68~~	ppb 7.24	100
23) Benzo(j,k)fluoranthene	9.485	252	2831	~~12.27~~	ppb 7.27	100
24) Benzo[a]pyrene	9.774	252	1643	9.21	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.805	276	63	~~0.30~~	ppb 5.64	100
26) Dibenz[a,h]anthracene	10.922	278	346	2.01	ppb	100
27) Benzo[g,h,i]perylene	11.136	276	1045	6.17	ppb	100

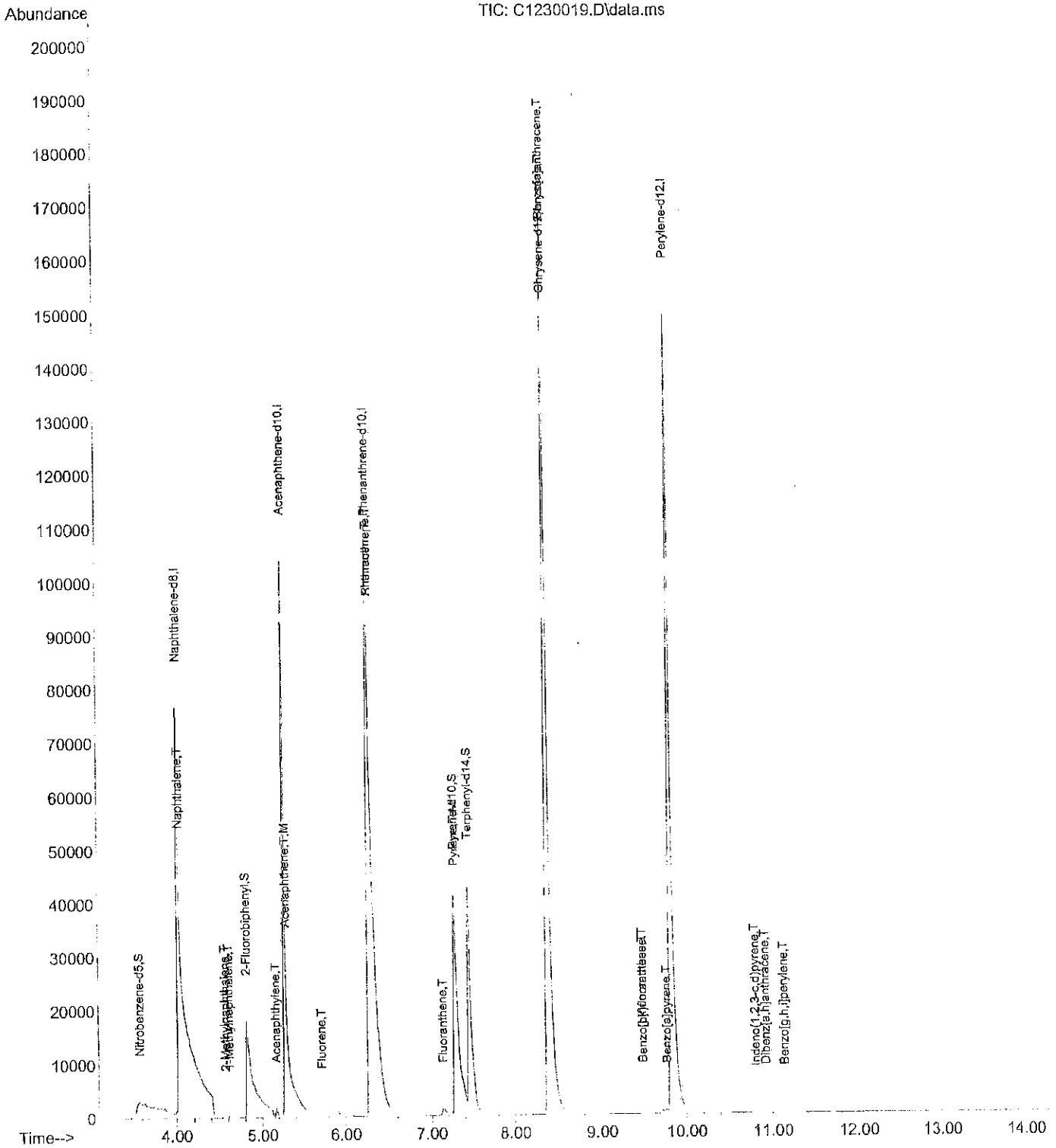
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230019.D
Acq On : 30 Dec 2014 4:25 pm
Operator :
Sample : 12-293-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 30 16:40:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230020.D
Acq On : 30 Dec 2014 4:46 pm
Operator :
Sample : 12-293-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 30 17:01:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.030	136	347651	2000.00	ppb	0.00
6) Acenaphthene-d10	5.275	164	220235	2000.00	ppb	0.00
10) Phenanthrene-d10	6.290	188	445536	2000.00	ppb	0.01
17) Chrysene-d12	8.379	240	445966	2000.00	ppb	0.00
21) Perylene-d12	9.829	264	393333	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.577	82	8382	550.55	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 55.06%			
7) 2-Fluorobiphenyl	4.821	172	60215	509.15	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 50.91%			
11) Pyrene-d10	7.280	212	169241	948.43	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.84%			
18) Terphenyl-d14	7.454	244	132572	869.08	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 86.91%			
Target Compounds						Qvalue
3) Naphthalene	4.042	128	246	1.70	ppb	100
4) 2-Methylnaphthalene	4.555	142	47	0.61	ppb	100
5) 1-Methylnaphthalene	4.618	142	643	4.73	ppb	100
8) Acenaphthylene	5.175	152	293	1.86	ppb	100
9) Acenaphthene	5.291	153	184	1.58	ppb	100
12) Fluorene	5.715	166	1018	7.33	ppb	100
13) Phenanthrene	6.297	178	2764	~~23.11~~	ppb 8.10	100
14) Anthracene	6.~~297~~ 353	178	2764	~~11.60~~	ppb 5.84	100
15) Fluoranthene	7.141	202	891	4.02	ppb	100
16) Pyrene	7.292	202	1423	5.89	ppb	100
19) Benzo[a]anthracene	8.375 ~~317~~	228	2527	~~13.56~~	ppb 4.34	100
20) Chrysene	8.~~375~~ 317	228	2527	~~9.83~~	ppb 3.01	100
22) Benzo[b]fluoranthene	9.~~494~~ 440	252	1204	~~7.62~~	ppb 2.95	100
23) Benzo(j,k)fluoranthene	9.494	252	1204	5.00	ppb	100
24) Benzo[a]pyrene	9.771	252	360	1.94	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.926	276	249	1.15	ppb	100
26) Dibenz[a,h]anthracene	10.938	278	490	2.72	ppb	100
27) Benzo[g,h,i]perylene	11.164	276	401	2.27	ppb	100

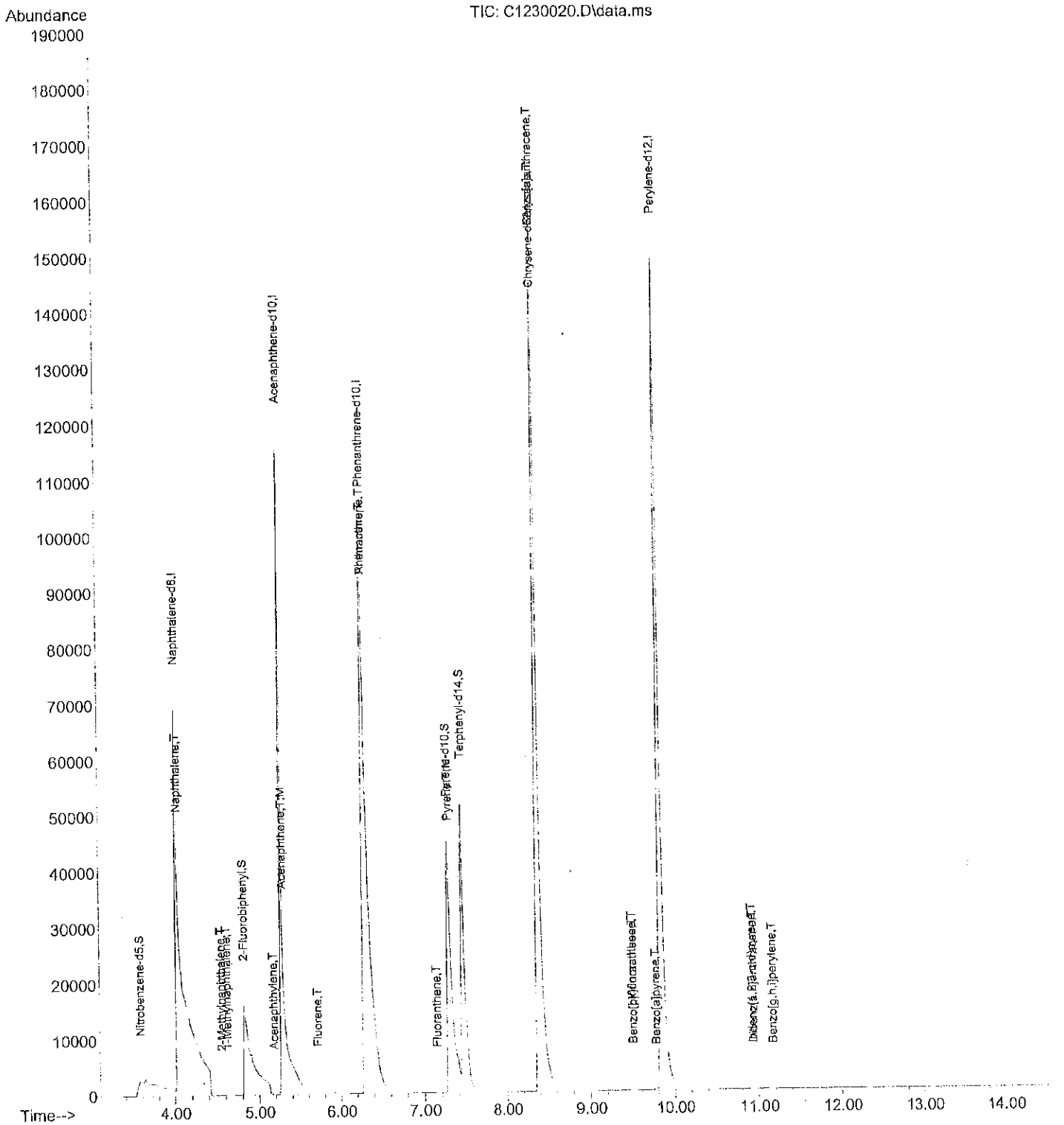
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230020.D
Acq On : 30 Dec 2014 4:46 pm
Operator :
Sample : 12-293-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 30 17:01:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230021.D
Acq On : 30 Dec 2014 5:08 pm
Operator :
Sample : 12-293-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 30 17:23:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

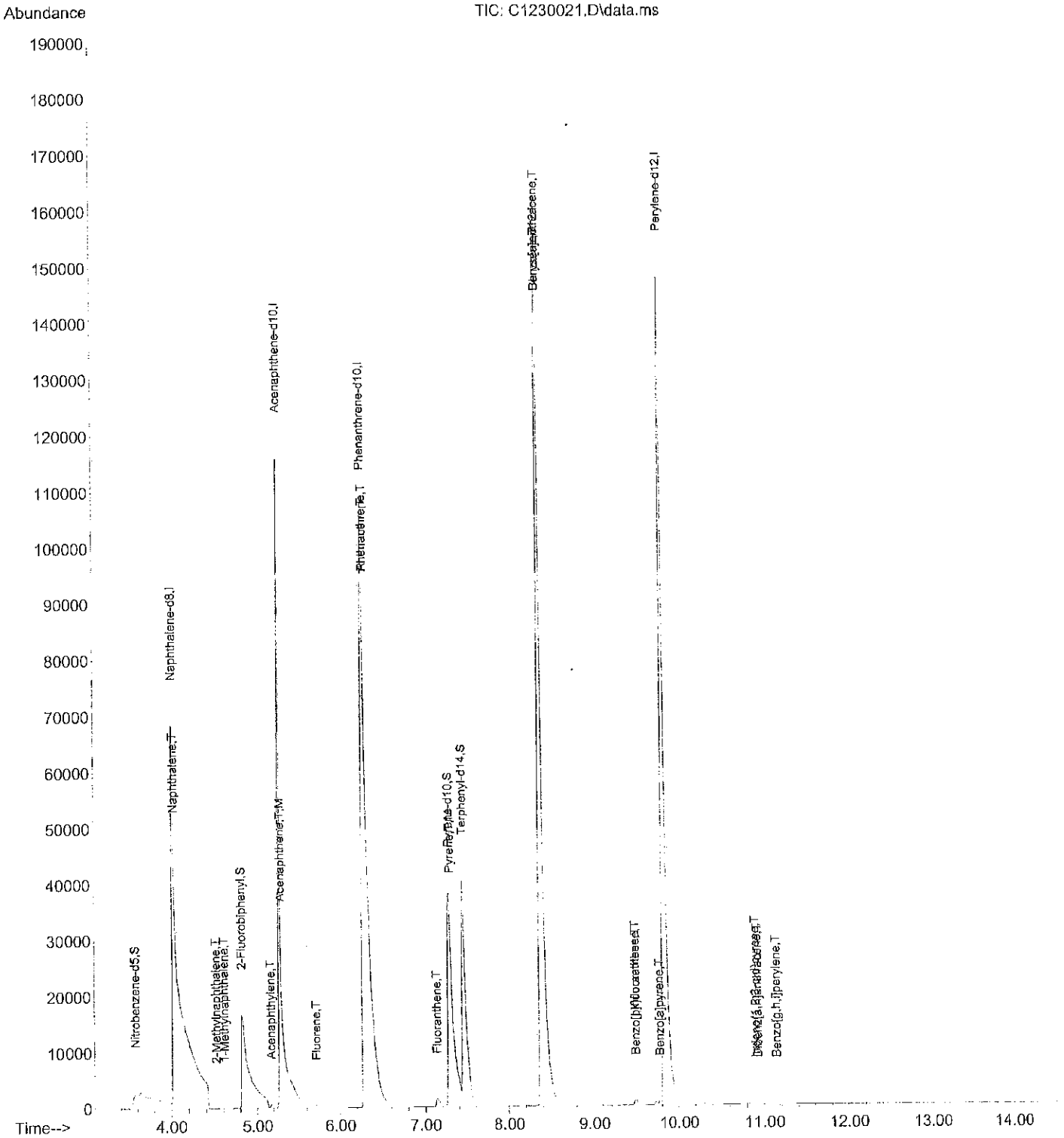
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.030	136	348568	2000.00	ppb	0.00
6) Acenaphthene-d10	5.276	164	220124	2000.00	ppb	0.00
10) Phenanthrene-d10	6.285	188	447057	2000.00	ppb	0.00
17) Chrysene-d12	8.378	240	449599	2000.00	ppb	0.00
21) Perylene-d12	9.829	264	395772	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.578	82	8199	540.61	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery =	54.06%		
7) 2-Fluorobiphenyl	4.821	172	110852	937.78	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	93.78%#		
11) Pyrene-d10	7.288	212	147932	826.20	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery =	82.62%		
18) Terphenyl-d14	7.450	244	114649	745.51	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	74.55%		
Target Compounds						Qvalue
3) Naphthalene	4.042	128	2984	20.54	ppb	100
4) 2-Methylnaphthalene	4.520	142	15	0.19	ppb	100
5) 1-Methylnaphthalene	4.614	142	298	2.19	ppb	100
8) Acenaphthylene	5.168	152	1356	8.61	ppb	100
9) Acenaphthene	5.291	153	661	5.67	ppb	100
12) Fluorene	5.715	166	828	5.94	ppb	100
13) Phenanthrene	6.301	178	7931	~~66.09~~	ppb	100
14) Anthracene	6.301	178	7931	~~33.18~~	ppb	100
15) Fluoranthene	7.137	202	5902	26.53	ppb	100
16) Pyrene	7.299	202	6823	~~28.16~~	ppb	100
19) Benzo[a]anthracene	8.378	228	1636	8.71	ppb	100
20) Chrysene	8.~~378~~	228	1636	~~6.31~~	ppb	100
22) Benzo[b]fluoranthene	9.486	252	2701	~~16.99~~	ppb	100
23) Benzo(j,k)fluoranthene	9.486	252	2701	~~11.15~~	ppb	100
24) Benzo[a]pyrene	9.774	252	1553	8.30	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.907	276	727	3.35	ppb	100
26) Dibenz[a,h]anthracene	10.926	278	232	1.28	ppb	100
27) Benzo[g,h,i]perylene	11.145	276	761	4.28	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230021.D
Acq On : 30 Dec 2014 5:08 pm
Operator :
Sample : 12-293-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 30 17:23:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230022.D
Acq On : 30 Dec 2014 5:30 pm
Operator :
Sample : 12-293-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 30 17:45:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.031	136	351523	2000.00	ppb	0.00
6) Acenaphthene-d10	5.275	164	219273	2000.00	ppb	0.00
10) Phenanthrene-d10	6.285	188	442002	2000.00	ppb	0.00
17) Chrysene-d12	8.378	240	443830	2000.00	ppb	0.00
21) Perylene-d12	9.825	264	392292	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.590	82	8356	544.83	ppb	0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 54.48%			
7) 2-Fluorobiphenyl	4.820	172	79790	677.62	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 67.76%			
11) Pyrene-d10	7.276	212	141569	799.70	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 79.97%			
18) Terphenyl-d14	7.450	244	109592	721.89	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 72.19%			
Target Compounds						Qvalue
3) Naphthalene	4.043	128	3988	27.21	ppb	100
4) 2-Methylnaphthalene	4.551	142	143	1.83	ppb	100
5) 1-Methylnaphthalene	4.614	142	2749	20.00	ppb	100
8) Acenaphthylene	5.167	152	1556	9.92	ppb	100
9) Acenaphthene	5.291	153	2909	25.07	ppb	100
12) Fluorene	5.714	166	2098	15.22	ppb	100
13) Phenanthrene	6.297	178	6420	~~54.11~~	ppb 25.52	100
14) Anthracene	6.~~297~~324	178	6420	~~27.17~~	ppb 14.26	100
15) Fluoranthene	7.137	202	4146	18.85	ppb	100
16) Pyrene	7.288	202	4454	18.59	ppb	100
19) Benzo[a]anthracene	8.378	228	1010	5.45	ppb	100
20) Chrysene	8.~~378~~397	228	1010	~~3.95~~	ppb 6.81	100
22) Benzo[b]fluoranthene	9.485	252	1094	~~6.94~~	ppb 3.08	100
23) Benzo(j,k)fluoranthene	9.485	252	1094	~~4.56~~	ppb 2.04	100
24) Benzo[a]pyrene	9.770	252	467	2.52	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.910	276	121	0.56	ppb	100
26) Dibenz[a,h]anthracene	10.805	278	5	0.03	ppb	100
27) Benzo[g,h,i]perylene	11.051	276	15	0.09	ppb	100

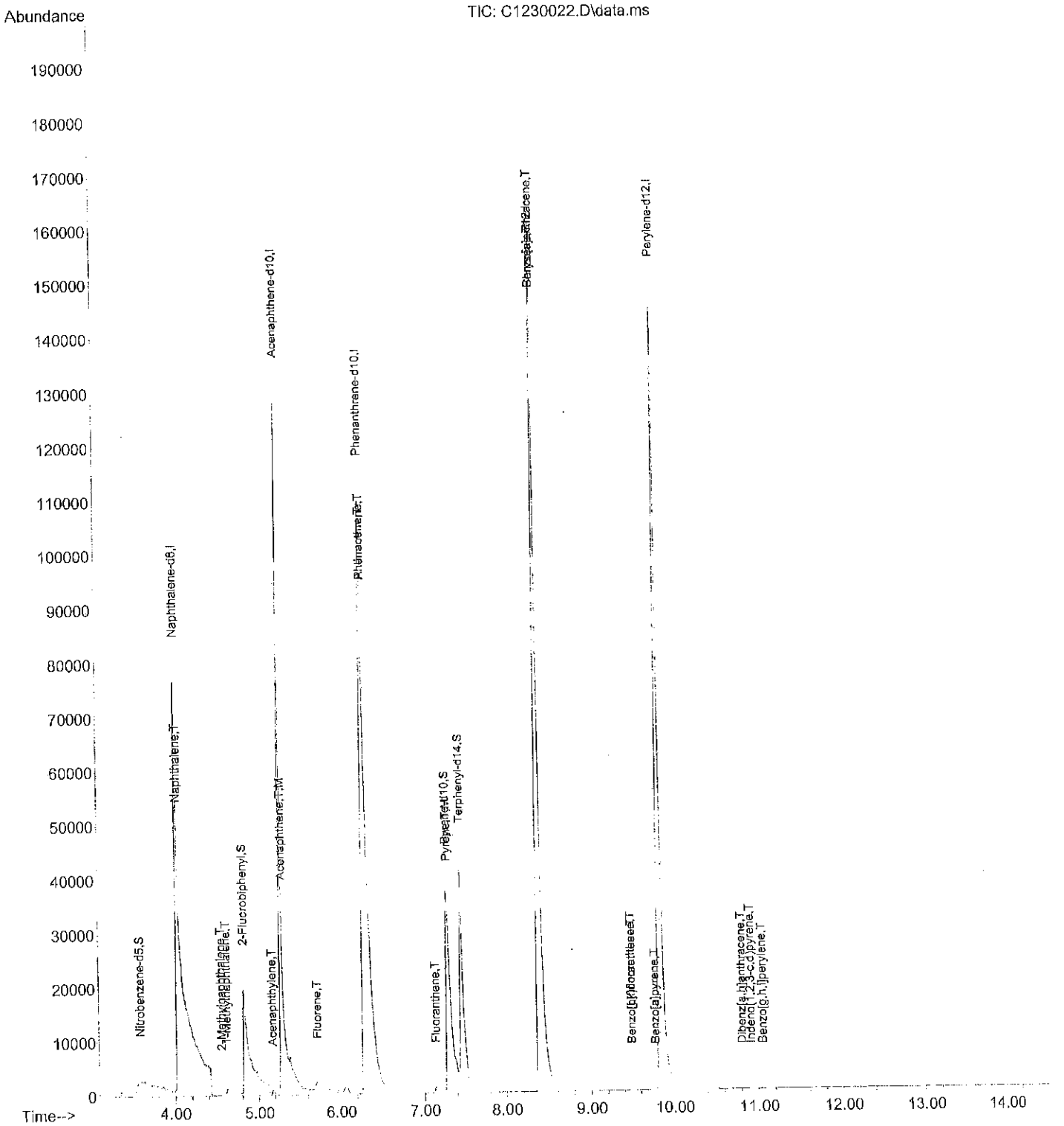
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230022.D
Acq On : 30 Dec 2014 5:30 pm
Operator :
Sample : 12-293-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 30 17:45:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C141230\
Data File : C1230013.D
Acq On : 30 Dec 2014 2:15 pm
Operator :
Sample : MB1230S1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 14:30:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.030	136	346416	2000.00	ppb	0.00
6) Acenaphthene-d10	5.276	164	221508	2000.00	ppb	0.00
10) Phenanthrene-d10	6.282	188	452104	2000.00	ppb	0.00
17) Chrysene-d12	8.380	240	450801	2000.00	ppb	0.00
21) Perylene-d12	9.829	264	396642	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.577	82	9940	625.61	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery =	62.56%		
7) 2-Fluorobiphenyl	4.820	172	83390	701.05	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	70.10%		
11) Pyrene-d10	7.280	212	167556	925.35	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	92.53%		
18) Terphenyl-d14	7.449	244	131273	851.34	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	85.13%		
Target Compounds						Qvalue
3) Naphthalene	0.000		0	N.D.		
4) 2-Methylnaphthalene	4.554	142	28	0.36	ppb	100
5) 1-Methylnaphthalene	4.621	142	71	0.52	ppb	100
8) Acenaphthylene	5.176	152	364	2.30	ppb	100
9) Acenaphthene	5.322	153	167	1.42	ppb	100
12) Fluorene	5.507	166	964	6.84	ppb	100
13) Phenanthrene	6.298	178	1725	~~14.21~~	ppb	100
14) Anthracene	6.298	178	1725	~~7.14~~	ppb	100
15) Fluoranthene	7.129	202	112	0.50	ppb	100
16) Pyrene	7.292	202	329	1.34	ppb	100
19) Benzo[a]anthracene	8.380	228	1445	7.67	ppb	100
20) Chrysene	8.380	228	1445	~~5.56~~	ppb	100
22) Benzo[b]fluoranthene	9.498	252	331	2.08	ppb	100
23) Benzo(j,k)fluoranthene	9.498	252	331	~~1.36~~	ppb	100
24) Benzo[a]pyrene	9.779	252	127	0.68	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.914	276	283	1.30	ppb	100
26) Dibenz[a,h]anthracene	10.922	278	298	1.64	ppb	100
27) Benzo[g,h,i]perylene	11.140	276	91	0.51	ppb	100

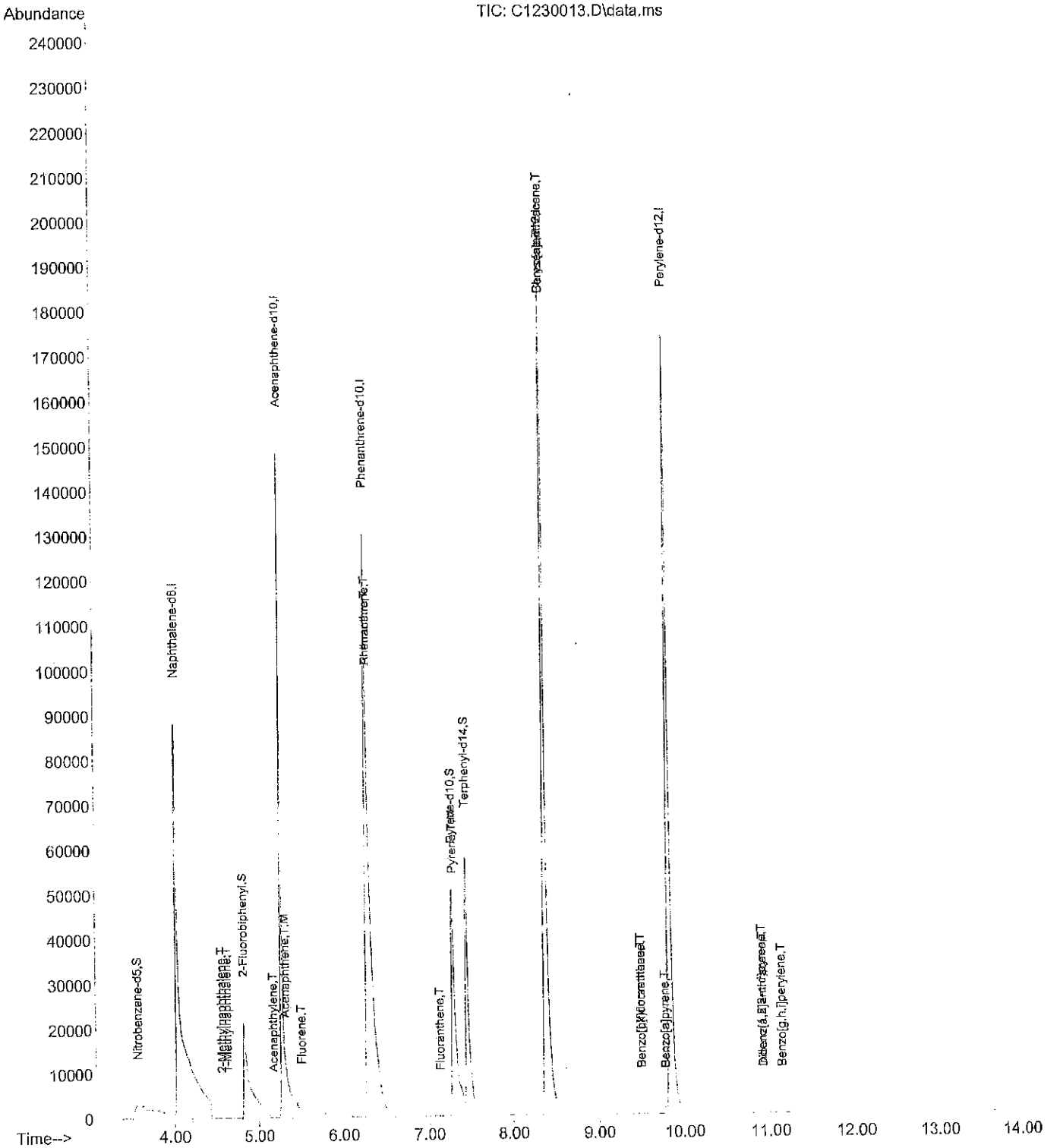
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14 JM

Quantitation Report (Not Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C141230\
Data File : C1230013.D
Acq On : 30 Dec 2014 2:15 pm
Operator :
Sample : MB1230S1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 14:30:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230017.D
Acq On : 30 Dec 2014 3:41 pm
Operator :
Sample : 12-293-01 MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 30 15:56:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.030	136	353110	2000.00	ppb	0.00
6) Acenaphthene-d10	5.276	164	216147	2000.00	ppb	0.00
10) Phenanthrene-d10	6.279	188	436619	2000.00	ppb	0.00
17) Chrysene-d12	8.374	240	442564	2000.00	ppb	0.00
21) Perylene-d12	9.824	264	392275	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.578	82	8020	526.82	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 52.68%			
7) 2-Fluorobiphenyl	4.820	172	105598	909.77	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 90.98%#			
11) Pyrene-d10	7.275	212	140840	805.39	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 80.54%			
18) Terphenyl-d14	7.449	244	106640	704.46	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 70.45%			
Target Compounds						Qvalue
3) Naphthalene	4.042	128	58558	397.80	ppb	100
4) 2-Methylnaphthalene	4.543	142	16187	206.21	ppb	100
5) 1-Methylnaphthalene	4.609	142	60052	434.95	ppb	100
8) Acenaphthylene	5.169	152	56963	368.37	ppb	100
9) Acenaphthene	5.292	153	43477	380.12	ppb	100
12) Fluorene	5.662	166	53068	389.73	ppb	100
13) Phenanthrene	6.295	178	38260	326.45	ppb	100
14) Anthracene	6.334	178	108202	463.52	ppb	100
15) Fluoranthene	7.124	202	82362	379.06	ppb	100
16) Pyrene	7.287	202	91246	385.63	ppb	100
19) Benzo[a]anthracene	8.358	228	50873	275.12	ppb	100
20) Chrysene	8.397	228	97782	383.41	ppb	100
22) Benzo[b]fluoranthene	9.481	252	137590	~~873.16~~ 343.04	ppb	100
23) Benzo(j,k)fluoranthene	9.481	252	137590	~~573.29~~ 340.03	ppb	100
24) Benzo[a]pyrene	9.766	252	68290	368.28	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.859	276	70091	325.43	ppb	100
26) Dibenz[a,h]anthracene	10.878	278	60226	335.71	ppb	100
27) Benzo[g,h,i]perylene	11.105	276	60457	343.37	ppb	100

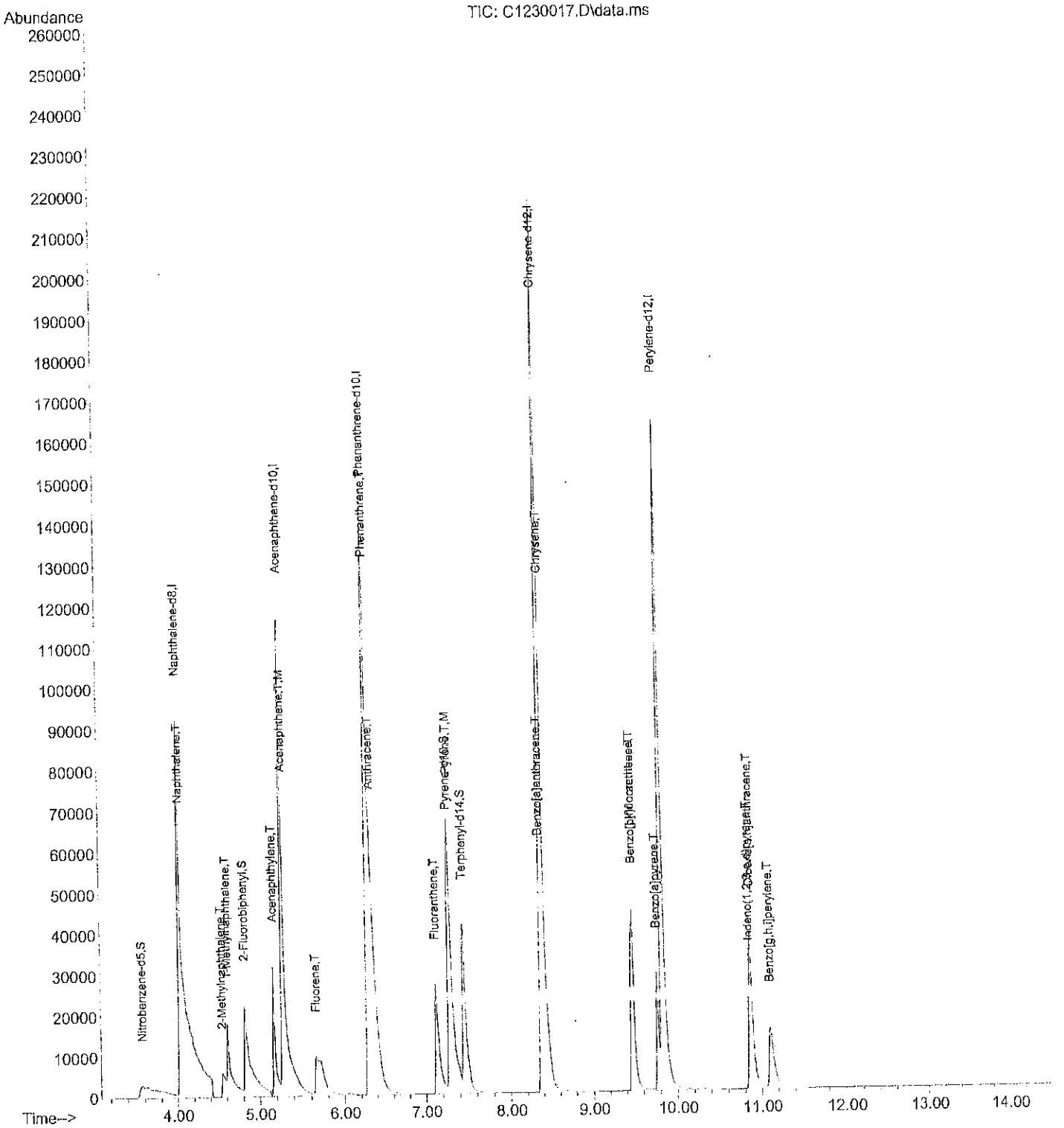
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14 EM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230017.D
Acq On : 30 Dec 2014 3:41 pm
Operator :
Sample : 12-293-01 MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 30 15:56:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



CSIM1230.M Tue Dec 30 15:56:49 2014

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230018.D
Acq On : 30 Dec 2014 4:03 pm
Operator :
Sample : 12-293-01 MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 30 16:18:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.029	136	349065	2000.00	ppb	0.00
6) Acenaphthene-d10	5.276	164	215194	2000.00	ppb	0.00
10) Phenanthrene-d10	6.279	188	440975	2000.00	ppb	0.00
17) Chrysene-d12	8.375	240	445029	2000.00	ppb	0.00
21) Perylene-d12	9.822	264	394013	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.570	82	9854	618.18	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 61.82%			
7) 2-Fluorobiphenyl	4.820	172	117685	1018.40	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 101.84%#			
11) Pyrene-d10	7.275	212	160091	906.44	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 90.64%			
18) Terphenyl-d14	7.449	244	121753	799.84	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.98%			
Target Compounds						Qvalue
3) Naphthalene	4.041	128	58753	403.75	ppb	100
4) 2-Methylnaphthalene	4.547	142	17643	227.36	ppb	100
5) 1-Methylnaphthalene	4.609	142	64747	474.39	ppb	100
8) Acenaphthylene	5.168	152	63081	409.74	ppb	100
9) Acenaphthene	5.292	153	47744	419.27	ppb	100
12) Fluorene	5.661	166	58309	423.99	ppb	100
13) Phenanthrene	6.294	178	43138	364.43	ppb	100
14) Anthracene	6.337	178	120288	510.20	ppb	100
15) Fluoranthene	7.124	202	92572	421.84	ppb	100
16) Pyrene	7.286	202	102677	429.65	ppb	100
19) Benzo[a]anthracene	8.359	228	56635	304.58	ppb	100
20) Chrysene	8.398	228	106991	417.19	ppb	100
22) Benzo[b]fluoranthene	9.471	252	150952	~~953.73~~	ppb	392.09 100
23) Benzo(j,k)fluoranthene	9.483	252	150952	~~626.19~~	ppb	384.81 100
24) Benzo[a]pyrene	9.768	252	74571	400.38	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.861	276	75042	346.88	ppb	100
26) Dibenz[a,h]anthracene	10.880	278	64576	358.37	ppb	100
27) Benzo[g,h,i]perylene	11.106	276	64992	367.50	ppb	100

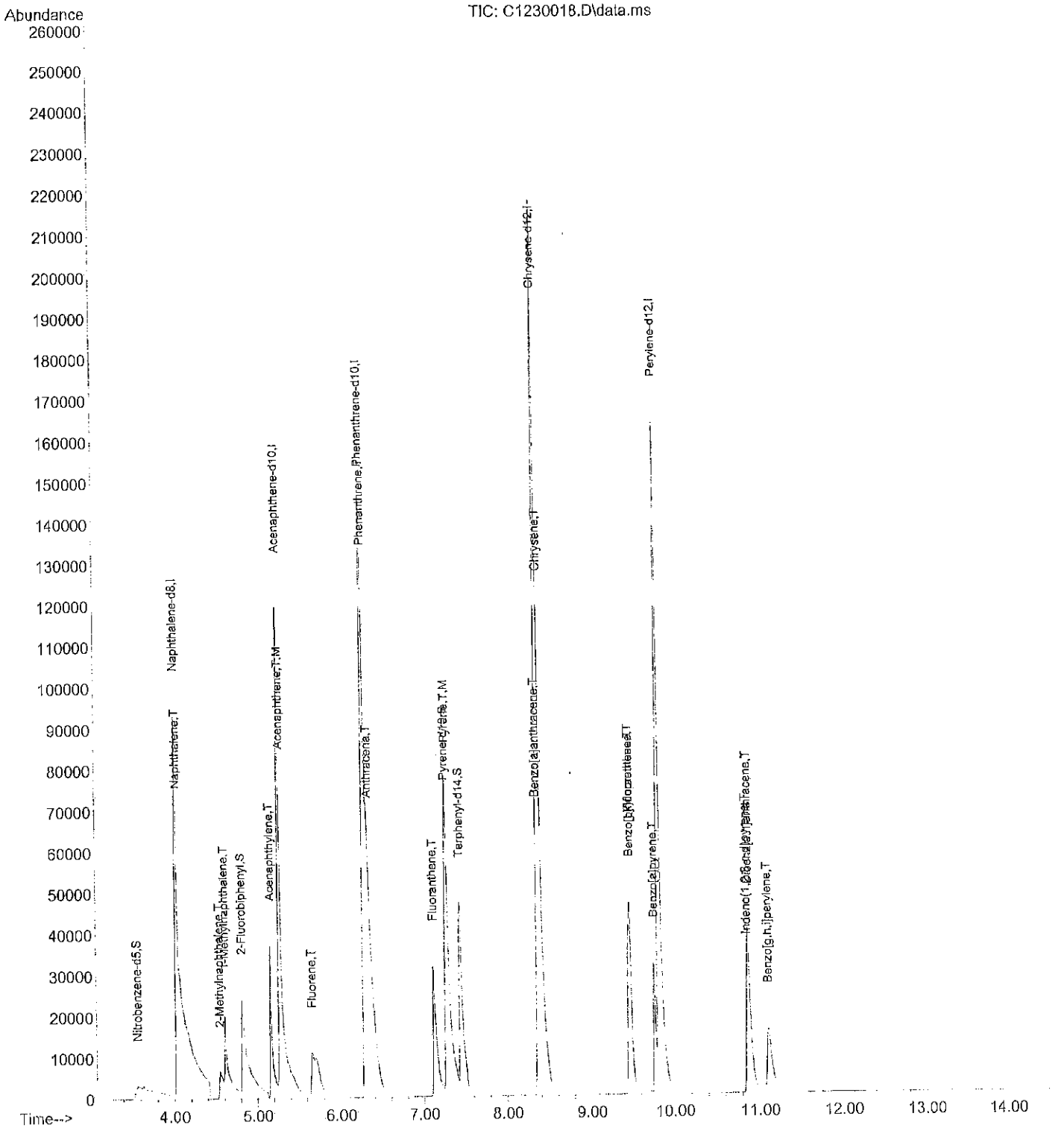
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/31/14 gm

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C141230\
Data File : C1230018.D
Acq On : 30 Dec 2014 4:03 pm
Operator :
Sample : 12-293-01 MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 30 16:18:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C141230\
Data File : C1230012.D
Acq On : 30 Dec 2014 1:49 pm
Operator :
Sample : PAH CCV1230
Misc : SV4-49-02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 14:11:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.029	136	381672	2000.00	ppb	0.00
6) Acenaphthene-d10	5.275	164	234415	2000.00	ppb	0.00
10) Phenanthrene-d10	6.277	188	478195	2000.00	ppb	0.00
17) Chrysene-d12	8.374	240	480165	2000.00	ppb	0.00
21) Perylene-d12	9.825	264	424076	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.635	82	7849m	489.54	ppb	0.06
Spiked Amount 1000.000	Range 24 - 92		Recovery = 48.95%			
7) 2-Fluorobiphenyl	4.824	172	60279	478.86	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 47.89%			
11) Pyrene-d10	7.276	212	91511	477.81	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 47.78%			
18) Terphenyl-d14	7.450	244	73953	450.27	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 45.03%			
Target Compounds						Qvalue
3) Naphthalene	4.041	128	85055	534.57	ppb	100
4) 2-Methylnaphthalene	4.601	142	35070m	413.32	ppb	
5) 1-Methylnaphthalene	4.609	142	66026m	442.43	ppb	
8) Acenaphthylene	5.167	152	75086	447.73	ppb	100
9) Acenaphthene	5.291	153	59130	476.69	ppb	100
12) Fluorene	5.660	166	67020m	449.40	ppb	
13) Phenanthrene	6.293	178	53661	418.05	ppb	100
14) Anthracene	6.332	178	114868m	449.29	ppb	
15) Fluoranthene	7.125	202	109857	461.64	ppb	100
16) Pyrene	7.287	202	122870	474.13	ppb	100
19) Benzo[a]anthracene	8.359	228	81175m	404.62	ppb	
20) Chrysene	8.398	228	128483	464.34	ppb	100
22) Benzo[b]fluoranthene	9.465	252	76483m	448.97	ppb	
23) Benzo(j,k)fluoranthene	9.477	252	120391m	464.01	ppb	
24) Benzo[a]pyrene	9.770	252	97855	488.15	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.856	276	106506	457.42	ppb	100
26) Dibenz[a,h]anthracene	10.875	278	90099	464.56	ppb	100
27) Benzo[g,h,i]perylene	11.105	276	91090	478.56	ppb	100

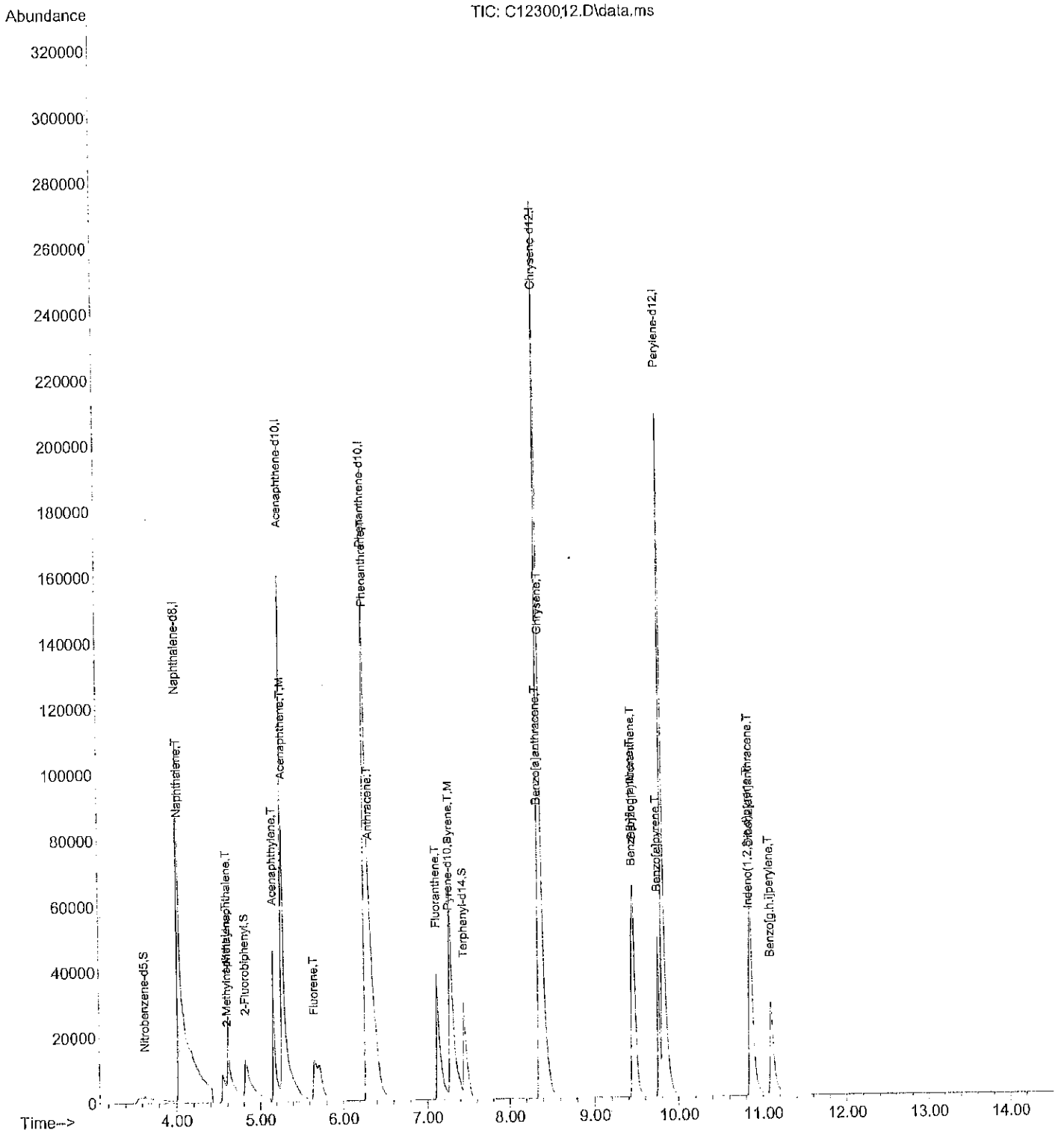
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/30/14

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C141230\
Data File : C1230012.D
Acq On : 30 Dec 2014 1:49 pm
Operator :
Sample : PAH CCV1230
Misc : SV4-49-02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 14:11:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C141230\
Data File : C1230012.D
Acq On : 30 Dec 2014 1:49 pm
Operator :
Sample : PAH CCV1230
Misc : SV4-49-02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 14:11:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\CSIM1230.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Dec 30 13:25:59 2014
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	96	0.00
2	S	Nitrobenzene-d5	500.000	489.537	2.1	104	0.06
3	T	Naphthalene	500.000	534.566	-6.9	94	0.00
4	T	2-Methylnaphthalene	500.000	413.324	17.3	122	0.06
5	T	1-Methylnaphthalene	500.000	442.431	11.5	73	0.00
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	97	0.00
7	S	2-Fluorobiphenyl	500.000	478.857	4.2	105	0.00
8	T	Acenaphthylene	500.000	447.728	10.5	90	0.00
9	T,M	Acenaphthene	500.000	476.685	4.7	95	0.00
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	98	0.00
11	S	Pyrene-d10	500.000	477.807	4.4	94	0.00
12	T	Fluorene	500.000	449.397	10.1	93	0.00
13	T	Phenanthrene	500.000	418.049	16.4	88	0.00
14	T	Anthracene	500.000	449.292	10.1	99	0.00
15	T	Fluoranthene	500.000	461.639	7.7	92	0.00
16	T,M	Pyrene	500.000	474.134	5.2	96	0.00
17	I	Chrysene-d12	2000.000	2000.000	0.0	99	0.00
18	S	Terphenyl-d14	500.000	450.272	9.9	95	0.00
19	T	Benzo[a]anthracene	500.000	404.615	19.1	87	0.00
20	T	Chrysene	500.000	464.336	7.1	102	0.00
21	I	Perylene-d12	2000.000	2000.000	0.0	99	0.00
22	T	Benzo[b]fluoranthene	500.000	448.969	10.2	110	0.01
23	T	Benzo(j,k)fluoranthene	500.000	464.009	7.2	86	0.00
24	T	Benzo[a]pyrene	500.000	488.152	2.4	94	0.00
25	T	Indeno(1,2,3-c,d)pyrene	500.000	457.425	8.5	95	0.00
26	T	Dibenz[a,h]anthracene	500.000	464.565	7.1	96	0.00
27	T	Benzo[g,h,i]perylene	500.000	478.558	4.3	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Total Cadmium Data

P141230F1. Mean Only Report 12/30/2014, 3:48:01 PM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	12/30/2014, 9:02:35 AM
Standard 5	Cd 228.802	10.000	ppb	12/30/2014, 10:03:56 AM
Standard 4	Cd 228.802	100.00	ppb	12/30/2014, 9:18:16 AM
Standard 3	Cd 228.802	1000.0	ppb	12/30/2014, 9:23:20 AM
Standard 2	Cd 228.802	2500.0	ppb	12/30/2014, 9:28:24 AM
Standard 1	Cd 228.802	5000.0	ppb	12/30/2014, 9:33:29 AM
Initial Calib Verif	Cd 228.802	1021.7	ppb	12/30/2014, 10:14:47 AM
LLICV	Cd 228.802	10.897	ppb	12/30/2014, 10:24:48 AM
Initial Calib Blank	Cd 228.802	-1.458uv	ppb	12/30/2014, 10:31:52 AM
Cont Calib Verif	Cd 228.802	1026.2	ppb	12/30/2014, 10:36:57 AM
Cont Calib Blank	Cd 228.802	0.613	ppb	12/30/2014, 10:43:03 AM
ICSA	Cd 228.802	0.029uv	ppb	12/30/2014, 10:48:08 AM
ICSAB	Cd 228.802	937.11	ppb	12/30/2014, 10:53:12 AM
MB1230TM1	Cd 228.802	-1.925uv	ppb	12/30/2014, 11:02:49 AM
SB1230TM1	Cd 228.802	1035.8	ppb	12/30/2014, 11:07:55 AM
12-292-01	Cd 228.802	1.916uv	ppb	12/30/2014, 11:13:02 AM
12-292-01 D	Cd 228.802	1.953uv	ppb	12/30/2014, 11:18:07 AM
12-292-01 L	Cd 228.802	-0.763uv	ppb	12/30/2014, 11:23:11 AM
12-292-01 MS	Cd 228.802	1010.5	ppb	12/30/2014, 11:28:15 AM
12-292-01 MSD	Cd 228.802	1017.1	ppb	12/30/2014, 11:33:21 AM
12-294-01	Cd 228.802	3.363	ppb	12/30/2014, 11:38:26 AM
Cont Calib Verif	Cd 228.802	1057.2	ppb	12/30/2014, 11:43:31 AM
Cont Calib Blank	Cd 228.802	0.412uv	ppb	12/30/2014, 11:49:41 AM
LLCCV	Cd 228.802	10.709	ppb	12/30/2014, 11:54:48 AM
MB1230SM1	Cd 228.802	-1.256uv	ppb	12/30/2014, 12:28:53 PM
SB1230SM1	Cd 228.802	973.50	ppb	12/30/2014, 12:33:57 PM
12-256-04a	Cd 228.802	2.927	ppb	12/30/2014, 12:38:59 PM
12-256-04a D	Cd 228.802	1.797uv	ppb	12/30/2014, 12:44:03 PM
12-256-04a L	Cd 228.802	-0.067uv	ppb	12/30/2014, 12:49:07 PM
12-256-04a MS	Cd 228.802	952.98	ppb	12/30/2014, 12:54:12 PM
12-256-04a MSD	Cd 228.802	932.65	ppb	12/30/2014, 12:59:16 PM
12-293-01	Cd 228.802	3.545	ppb	12/30/2014, 1:04:20 PM
12-293-02	Cd 228.802	6.371	ppb	12/30/2014, 1:09:26 PM
12-293-03	Cd 228.802	3.179	ppb	12/30/2014, 1:14:30 PM
Cont Calib Verif	Cd 228.802	1005.4	ppb	12/30/2014, 2:17:58 PM
Cont Calib Blank	Cd 228.802	1.622uv	ppb	12/30/2014, 2:23:45 PM
LLCCV	Cd 228.802	11.524	ppb	12/30/2014, 2:28:51 PM
12-293-04	Cd 228.802	5.566	ppb	12/30/2014, 2:39:16 PM
12-293-05	Cd 228.802	4.533	ppb	12/30/2014, 2:44:21 PM
12-272-01a	Cd 228.802	6.725	ppb	12/30/2014, 2:49:28 PM
12-272-03a	Cd 228.802	5.632	ppb	12/30/2014, 2:54:34 PM
12-272-05a	Cd 228.802	5.260	ppb	12/30/2014, 2:59:41 PM
12-256-01a	Cd 228.802	1.259	ppb	12/30/2014, 3:04:47 PM
12-256-02a	Cd 228.802	1.155	ppb	12/30/2014, 3:09:54 PM
12-256-03a	Cd 228.802	1.547	ppb	12/30/2014, 3:14:59 PM
Cont Calib Verif	Cd 228.802	1015.7	ppb	12/30/2014, 3:20:04 PM
Cont Calib Blank	Cd 228.802	0.038uv	ppb	12/30/2014, 3:29:37 PM
LLCCV	Cd 228.802	8.293	ppb	12/30/2014, 3:42:09 PM

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 12, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-035

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 8, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

Case Narrative

Samples were collected on January 7, 2015 and received by the laboratory on January 8, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BENZENE (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-30-8.0	01-035-01	Soil	1-7-15	1-8-15	
EX-31-8.0	01-035-02	Soil	1-7-15	1-8-15	
EX-32-8.5	01-035-03	Soil	1-7-15	1-8-15	
EX-33-5.5	01-035-04	Soil	1-7-15	1-8-15	
TRIP BLANK-010715	01-035-05	Water	---	1-8-15	

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-30-8.0**					
Laboratory ID:	01-035-01					
Benzene	**ND**	0.020	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*68-123*				
Client ID:	**EX-31-8.0**					
Laboratory ID:	01-035-02					
Benzene	**ND**	0.020	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*68-123*				
Client ID:	**EX-32-8.5**					
Laboratory ID:	01-035-03					
Benzene	**ND**	0.020	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*68-123*				
Client ID:	**EX-33-5.5**					
Laboratory ID:	01-035-04					
Benzene	**ND**	0.020	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*68-123*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TRIP BLANK-010715**					
Laboratory ID:	01-035-05					
Benzene	**ND**	1.0	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	100	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*71-113*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-30-8.0**					
Laboratory ID:	01-035-01					
Diesel Range Organics	**ND**	32	NWTPH-Dx	1-8-15	1-8-15	X1
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	1-8-15	1-8-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**EX-31-8.0**					
Laboratory ID:	01-035-02					
Diesel Range Organics	**ND**	32	NWTPH-Dx	1-8-15	1-8-15	X1
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	1-8-15	1-8-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**EX-32-8.5**					
Laboratory ID:	01-035-03					
Diesel Range Organics	**ND**	33	NWTPH-Dx	1-8-15	1-8-15	X1
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	1-8-15	1-8-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**EX-33-5.5**					
Laboratory ID:	01-035-04					
Diesel Range Organics	**ND**	27	NWTPH-Dx	1-8-15	1-8-15	X1
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	1-8-15	1-8-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*106*	*50-150*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-30-8.0**					
Laboratory ID:	01-035-01					
Benzo[a]anthracene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Chrysene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[b]fluoranthene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo(j,k)fluoranthene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[a]pyrene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Dibenz[a,h]anthracene	**ND**	0.0086	EPA 8270D/SIM	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*85*	*32 - 114*				
Pyrene-d10	*78*	*33 - 121*				
Terphenyl-d14	*81*	*31 - 116*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-31-8.0**					
Laboratory ID:	01-035-02					
Benzo[a]anthracene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Chrysene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[b]fluoranthene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo(j,k)fluoranthene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[a]pyrene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Dibenz[a,h]anthracene	**ND**	0.0085	EPA 8270D/SIM	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*78*	*32 - 114*				
Pyrene-d10	*74*	*33 - 121*				
Terphenyl-d14	*78*	*31 - 116*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-32-8.5**					
Laboratory ID:	01-035-03					
Benzo[a]anthracene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Chrysene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[b]fluoranthene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo(j,k)fluoranthene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[a]pyrene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270D/SIM	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*32 - 114*				
Pyrene-d10	*77*	*33 - 121*				
Terphenyl-d14	*79*	*31 - 116*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-33-5.5**					
Laboratory ID:	01-035-04					
Benzo[a]anthracene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Chrysene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[b]fluoranthene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo(j,k)fluoranthene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[a]pyrene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Dibenz[a,h]anthracene	**ND**	0.0071	EPA 8270D/SIM	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*77*	*32 - 114*				
Pyrene-d10	*78*	*33 - 121*				
Terphenyl-d14	*82*	*31 - 116*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-035-01					
Client ID:	**EX-30-8.0**					
Cadmium	**ND**	0.65	6010C	1-8-15	1-8-15	
Lab ID:	01-035-02					
Client ID:	**EX-31-8.0**					
Cadmium	**ND**	0.64	6010C	1-8-15	1-8-15	
Lab ID:	01-035-03					
Client ID:	**EX-32-8.5**					
Cadmium	**ND**	0.65	6010C	1-8-15	1-8-15	
Lab ID:	01-035-04					
Client ID:	**EX-33-5.5**					
Cadmium	**ND**	0.54	6010C	1-8-15	1-8-15	

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0109S1					
Benzene	**ND**	0.020	EPA 8021B	1-9-15	1-9-15	
Toluene	**ND**	0.050	EPA 8021B	1-9-15	1-9-15	
Ethyl Benzene	**ND**	0.050	EPA 8021B	1-9-15	1-9-15	
m,p-Xylene	**ND**	0.050	EPA 8021B	1-9-15	1-9-15	
o-Xylene	**ND**	0.050	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*68-123*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-035-04										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*96*	*96*	*68-123*			
SPIKE BLANKS											
Laboratory ID:	SB0109S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.970**	**1.03**	1.00	1.00		**97**	**103**	75-117	6	13	
Surrogate:											
Fluorobenzene						*93*	*99*	*68-123*			

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0109G-1	5.00	4.40	12	+/- 20%
CCVD0109G-2	5.00	4.43	11	+/- 20%

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0109B-1	50.0	50.4	-1	+/- 15%
Benzene	CCVD0109B-2	50.0	49.2	2	+/- 15%

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0109W1					
Benzene	**ND**	1.0	EPA 8021B	1-9-15	1-9-15	
Gasoline	**ND**	100	NWTPH-Gx	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*82*	*71-113*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-030-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**1240**	**1200**	NA	NA		NA		NA	3	30	
Surrogate:											
Fluorobenzene						*103*	*98*	*71-113*			
SPIKE BLANKS											
Laboratory ID:	SB0109W1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**49.4**	**50.6**	50.0	50.0		**99**	**101**	80-118	2	11	
Surrogate:											
Fluorobenzene						*96*	*99*	*71-113*			

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0109G-1	5.00	4.40	12	+/- 20%
CCVD0109G-2	5.00	4.43	11	+/- 20%

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0109B-1	50.0	50.4	-1	+/- 15%
Benzene	CCVD0109B-2	50.0	49.2	2	+/- 15%
Benzene	CCVD0109B-3	50.0	49.0	2	+/- 15%

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0108S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	1-8-15	1-8-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	1-8-15	1-8-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-021-05										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Surrogate:											
o-Terphenyl						*81*	*88*	*50-150*			

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0108F-T1	100	100	0.0	+/-15%
CCV0108F-T2	100	98.0	2.0	+/-15%
CCV0108F-T3	100	102	-2.0	+/-15%

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0109S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-9-15	1-9-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*89*	*32 - 114*				
Pyrene-d10	*89*	*33 - 121*				
Terphenyl-d14	*94*	*31 - 116*				

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	01-035-03										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0808**	**0.0781**	0.0833	0.0833	ND	97	94	42 - 134	3	27	
Chrysene	**0.0656**	**0.0639**	0.0833	0.0833	ND	79	77	45 - 114	3	27	
Benzo[b]fluoranthene	**0.0694**	**0.0698**	0.0833	0.0833	ND	83	84	38 - 131	1	33	
Benzo(j,k)fluoranthene	**0.0656**	**0.0616**	0.0833	0.0833	ND	79	74	44 - 114	6	34	
Benzo[a]pyrene	**0.0711**	**0.0694**	0.0833	0.0833	ND	85	83	40 - 136	2	29	
Indeno(1,2,3-c,d)pyrene	**0.0684**	**0.0672**	0.0833	0.0833	ND	82	81	45 - 126	2	30	
Dibenz[a,h]anthracene	**0.0685**	**0.0673**	0.0833	0.0833	ND	82	81	46 - 121	2	28	
Surrogate:											
2-Fluorobiphenyl						*84*	*82*	*32 - 114*			
Pyrene-d10						*81*	*79*	*33 - 121*			
Terphenyl-d14						*84*	*82*	*31 - 116*			

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	1-8-15
Date Analyzed:	1-8-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0108SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 1-8-15
Date Analyzed: 1-8-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-035-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 1-8-15
Date Analyzed: 1-8-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-035-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**55.0**	110	**48.6**	97	12	

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV010815P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLICV010815P	0.0100	0.00978	2.2	+/- 30%
Cadmium	CCV1010815P	1.00	1.02	-2.0	+/- 10%
Cadmium	CCV2010815P	1.00	0.934	6.6	+/- 10%
Cadmium	CCV3010815P	1.00	1.02	-2.0	+/- 10%
Cadmium	CCV4010815P	1.00	1.04	-4.0	+/- 10%
Cadmium	CCV5010815P	1.00	1.04	-4.0	+/- 10%
Cadmium	LLCCV5010815P	0.0100	0.00980	2.0	+/- 30%
Cadmium	CCV6010815P	1.00	1.02	-2.0	+/- 10%
Cadmium	LLCCV6010815P	0.0100	0.0107	-7.0	+/- 30%

Date of Report: January 12, 2015
Samples Submitted: January 8, 2015
Laboratory Reference: 1501-035
Project: 5147-012-06

% MOISTURE

Date Analyzed: 1-8-15

Client ID	Lab ID	% Moisture
EX-30-8.0	01-035-01	23
EX-31-8.0	01-035-02	22
EX-32-8.5	01-035-03	23
EX-33-5.5	01-035-04	7

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 01-035

Company: GeoEngineers Inc.
Project Number: 5147-02-06
Project Name: Shell Site
Project Manager: Abhijit Joshi
Sampled by: Nate Solomon

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx w/ silica cleanup	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Benzene 8021B	cPAHs 8270D/SIM	Cadmium 6010C			% Moisture
1	EX-30-8.0	1/7/15	1205	Soil	2			X	X													X	X	X			10
2	EX-31-8.0		1220		2			X	X													X	X	X			
3	EX-32-8.5		1230		2			X	X													X	X	X			
4	EX-33-5.5		1240		2			X	X													X	X	X			
5	TRIPBLANK-010715	N/A	N/A	Liquid	2			X														X					

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GeoEngineers	1/8/15	10:12	
Received		GeoEngineers	1/8/15	10:12	
Relinquished		GeoEngineers	1/8/15	11:21	
Received		OSE	1/8/15	1121	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 01-035

Initiated by: MV

Date Initiated: 1/8/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 3	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D150109\0109014.D\FID2B.CH
Acq On : 9 Jan 2015 17:48 Operator:
Sample : 01-035-01s Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 18:16 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

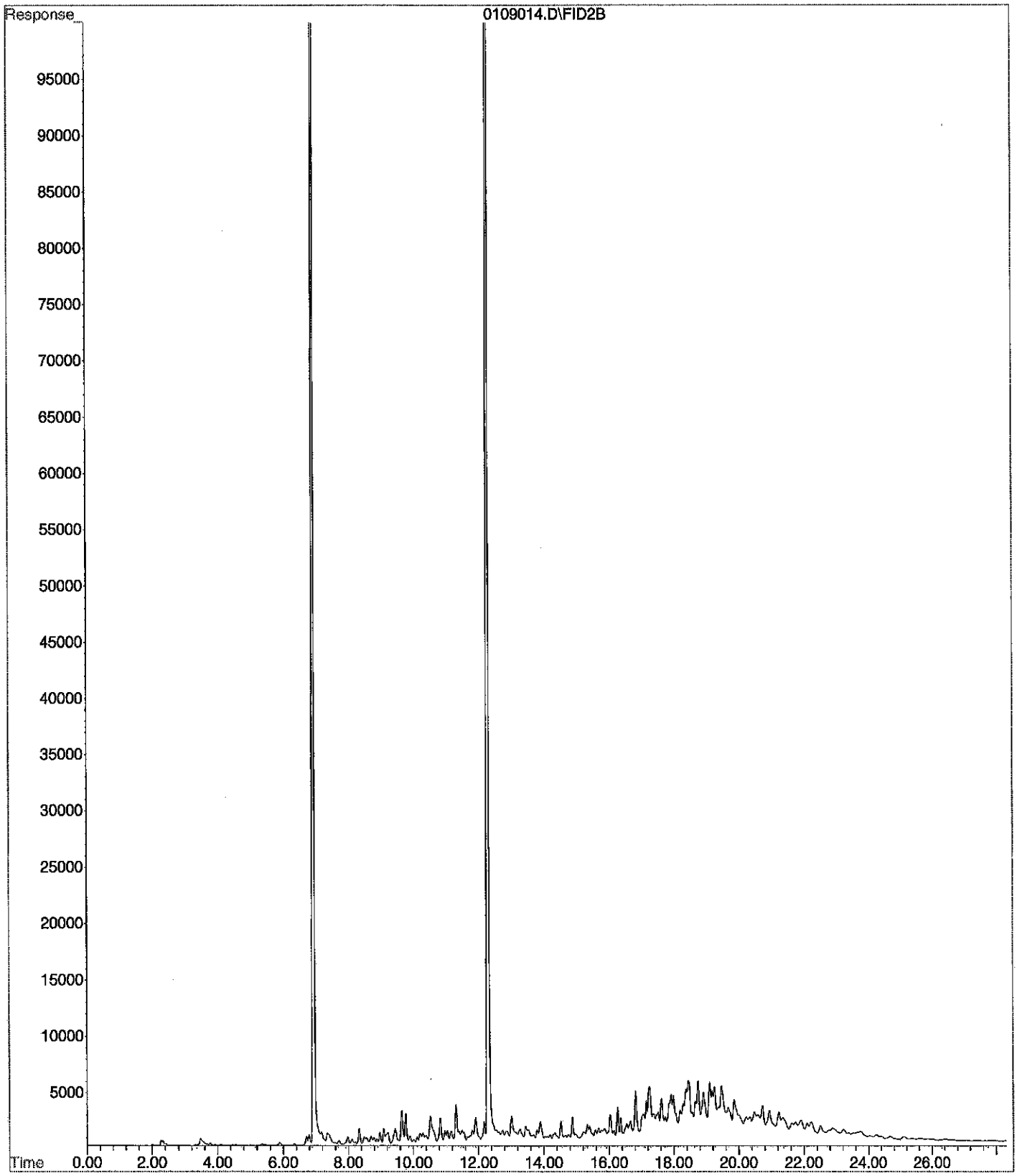
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	2279078	32.780	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1354056	33.254	PPB
11)	S	FLUOROBENZENE #2	6.94	5929211	26.628	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	8483239	28.195	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	2140724	0.037	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	7159073	0.098	PPM
3)	H	GASOLINE (9-24-14)	13.51	3409135	0.065	PPM
7)	H	entire GAS envelope #2 (9-	12.26	14448421	0.052	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	7167456	0.006	PPM
9)		MTBE #2	4.57	2517	N.D.	PPB
10)		BENZENE #2	6.71	31045	0.061	PPB
12)		TOLUENE #2	9.09	57574	0.030	PPB
13)		ETHYLBENZENE #2	11.05	49640	0.084	PPB
14)		m,p-XYLENE #2	11.31	161378	0.009	PPB
15)		o-XYLENE #2	11.81	53940	N.D.	PPB

1/12

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109014.D
Operator :
Acquired : 9 Jan 2015 17:48 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-035-01s
Misc Info : V2-36-23
Vial Number: 14



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109013.D\FID1A.CH Vial: 13
Signal #2 : d:\btex\DATA\D150109\0109013.D\FID2B.CH
Acq On : 9 Jan 2015 17:14 Operator:
Sample : 01-035-02s Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 17:43 2015 Quant Results File: 141012DB.RES

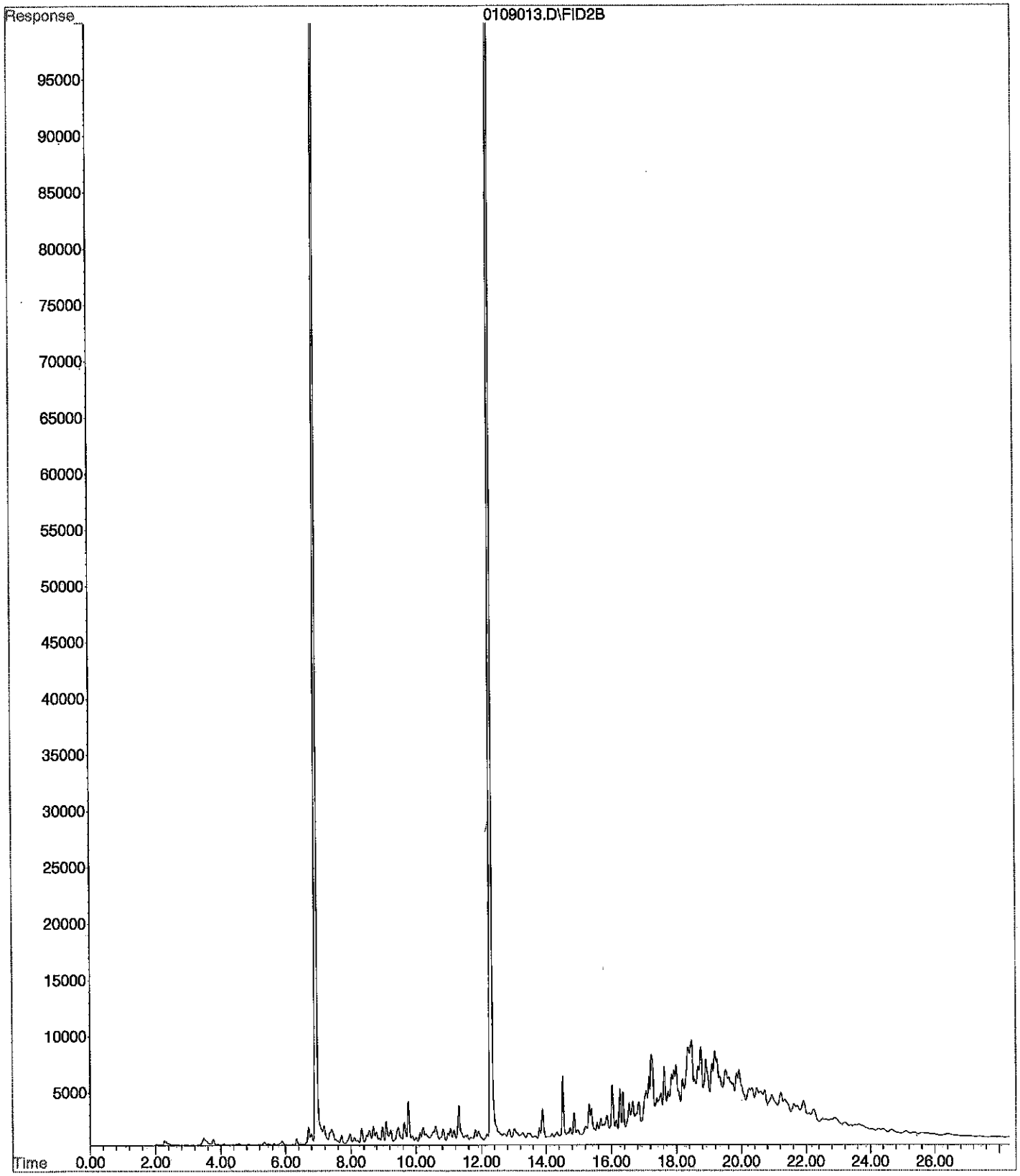
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	2168941	31.179 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1267137	31.082 PPB
11)	S	FLUOROBENZENE #2	6.94	5636373	25.296 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	7954804	26.410 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	2235407	0.039 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	10211196	0.145 PPM
3)	H	GASOLINE (9-24-14)	13.51	3937854	0.078 PPM
7)	H	entire GAS envelope #2 (9-	12.26	21167349	0.099 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	8824543	0.021 PPM
9)		MTBE #2	4.57	10765	0.099 PPB
10)		BENZENE #2	6.71	66218	0.181 PPB
12)		TOLUENE #2	9.09	83301	0.122 PPB
13)		ETHYLBENZENE #2	11.05	53510	0.100 PPB
14)		m,p-XYLENE #2	11.31	190727	0.110 PPB
15)		o-XYLENE #2	11.82	52262	N.D. PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109013.D
Operator :
Acquired : 9 Jan 2015 17:14 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-035-02s
Misc Info : V2-36-23
Vial Number: 13



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D150109\0109012.D\FID2B.CH
Acq On : 9 Jan 2015 16:41 Operator:
Sample : 01-035-03s RR Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

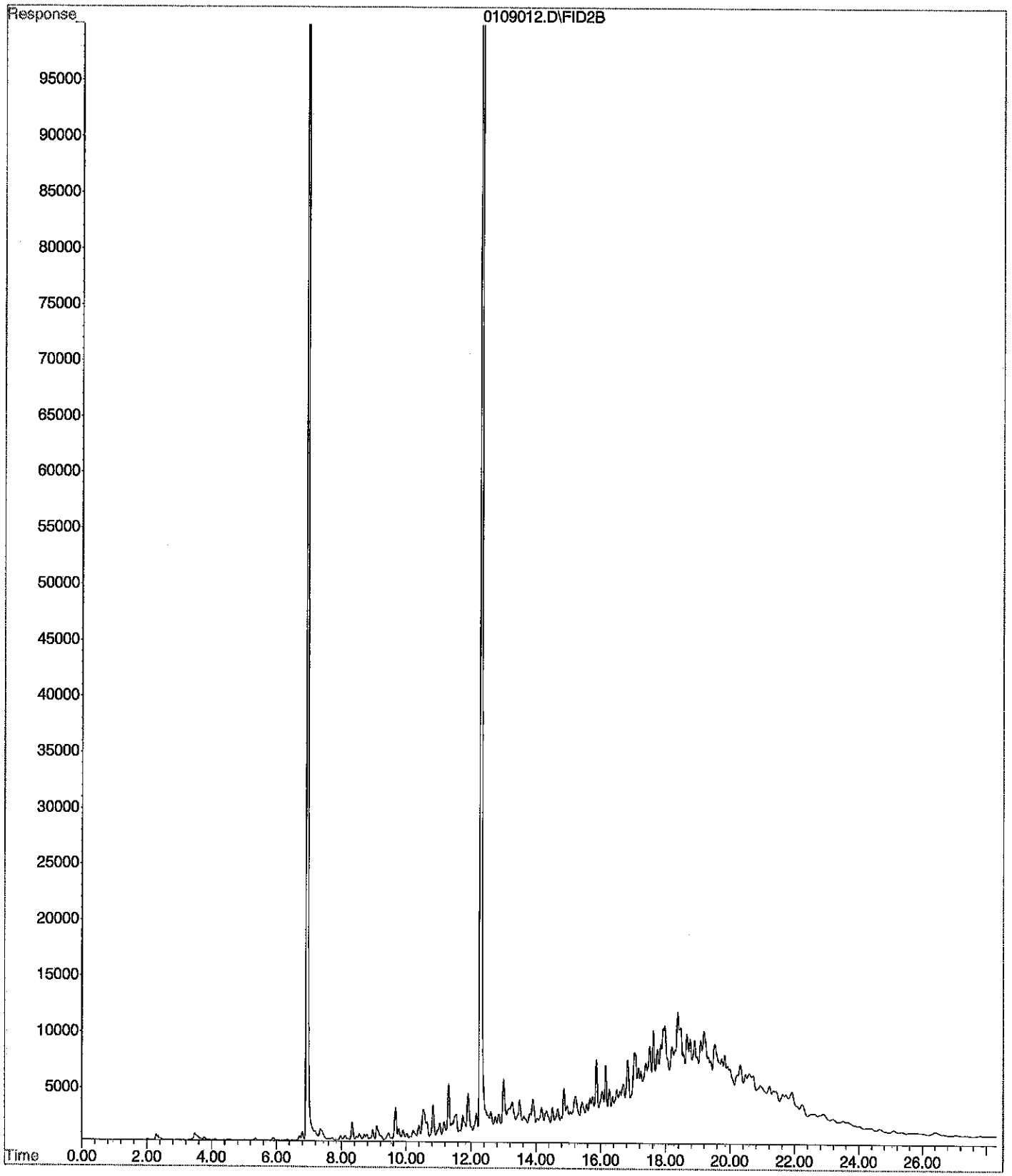
Quant Time: Jan 9 17:09 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	2140053	30.760 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1321255	32.434 PPB
11)	S	FLUOROBENZENE #2	6.94	5545216	24.882 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	8271783	27.481 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	2750229	0.049 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	13901391	0.202 PPM
3)	H	GASOLINE (9-24-14)	13.51	6946082	0.154 PPM
7)	H	entire GAS envelope #2 (9-	12.26	30288319	0.162 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	14866142	0.076 PPM
9)		MTBE #2	4.74	215	N.D. PPB
10)		BENZENE #2	6.71	17588	0.016 PPB
12)		TOLUENE #2	9.09	69830	0.074 PPB
13)		ETHYLBENZENE #2	11.05	103058	0.302 PPB
14)		m,p-XYLENE #2	11.31	220311	0.212 PPB
15)		o-XYLENE #2	11.75	146366	0.318 PPB

File : X:\BTEX\DARYL\DATA\D150109\0109012.D
Operator :
Acquired : 9 Jan 2015 16:41 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-035-03s RR
Misc Info : V2-36-23
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109005.D\FID1A.CH Vial: 5
Signal #2 : d:\btex\DATA\D150109\0109005.D\FID2B.CH
Acq On : 9 Jan 2015 12:30 Operator:
Sample : 12-035-04s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 12:59 2015 Quant Results File: 141012DB.RES

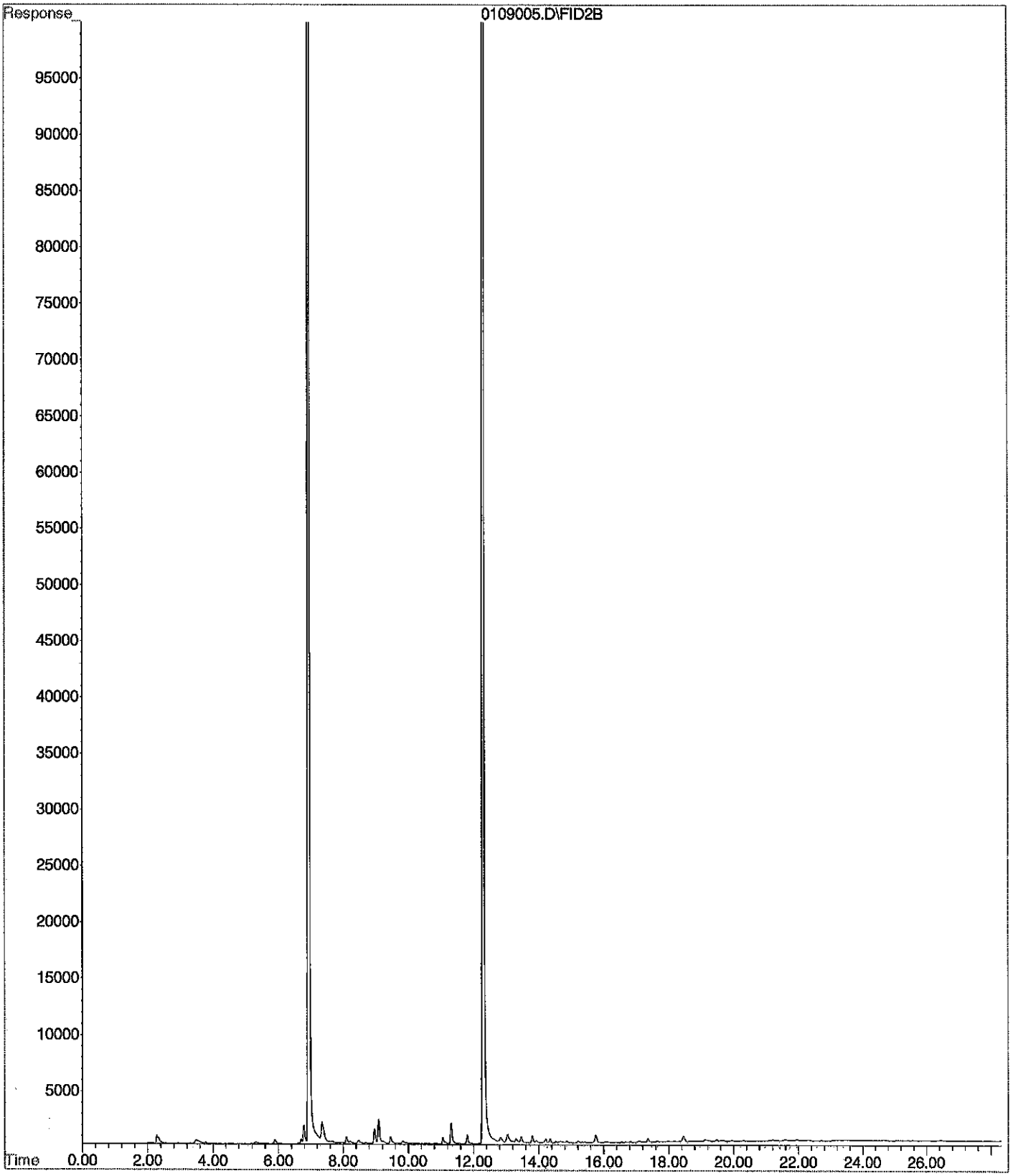
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	2898923	41.785	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1744730	43.014	PPB
11)	S	FLUOROBENZENE #2	6.94	7448839	33.537	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	10536904	35.132	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	720952	0.008	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2342248	0.025	PPM
3)	H	GASOLINE (9-24-14)	13.51	620733	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	2596843	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1368543	N.D.	PPM
9)		MTBE #2	4.57	1482	N.D.	PPB
10)		BENZENE #2	6.70	14220	0.004	PPB
12)		TOLUENE #2	9.09	87957	0.139	PPB
13)		ETHYLBENZENE #2	11.06	26227	N.D.	PPB
14)		m,p-XYLENE #2	11.32	75534	N.D.	PPB
15)		o-XYLENE #2	11.81	34235	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109005.D
Operator :
Acquired : 9 Jan 2015 12:30 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-035-04s
Misc Info : V2-36-17
Vial Number: 5



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150109\0109003.D\FID1A.CH Vial: 3
Signal #2 : X:\BTEX\DARYL\DATA\D150109\0109003.D\FID2B.CH
Acq On : 9 Jan 2015 11:23 Operator:
Sample : MB0109S1 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

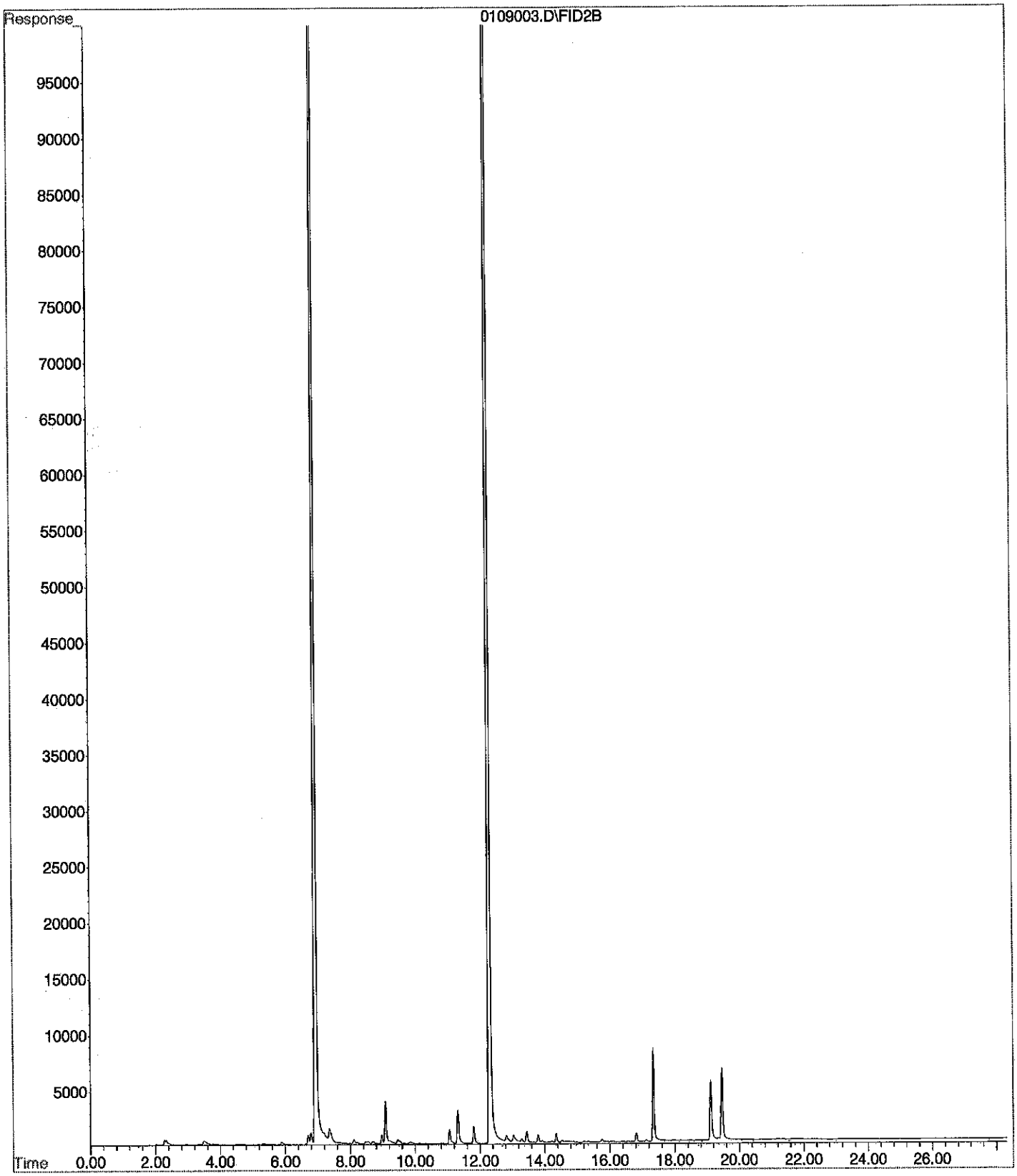
Quant Time: Jan 9 11:51 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	3232159	46.626	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1916821	47.313	PPB
11)	S	FLUOROBENZENE #2	6.94	8503116	38.330	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11700883	39.064	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	766267	0.009	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2255594	0.023	PPM
3)	H	GASOLINE (9-24-14)	13.51	705105	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	3119816	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1619626	N.D.	PPM
9)		MTBE #2	4.68	5541	0.028	PPB
10)		BENZENE #2	6.71	30008	0.058	PPB
12)		TOLUENE #2	9.09	161658	0.404	PPB
13)		ETHYLBENZENE #2	11.06	50515	0.088	PPB
14)		m,p-XYLENE #2	11.31	123602	N.D.	PPB
15)		o-XYLENE #2	11.81	55238	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150109\0109003.D
Operator :
Acquired : 9 Jan 2015 11:23 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB0109S1
Misc Info : V2-36-17
Vial Number: 3



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109005.D\FID1A.CH Vial: 5
Signal #2 : d:\btex\DATA\D150109\0109005.D\FID2B.CH
Acq On : 9 Jan 2015 12:30 Operator:
Sample : 12-035-04s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 12:59 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

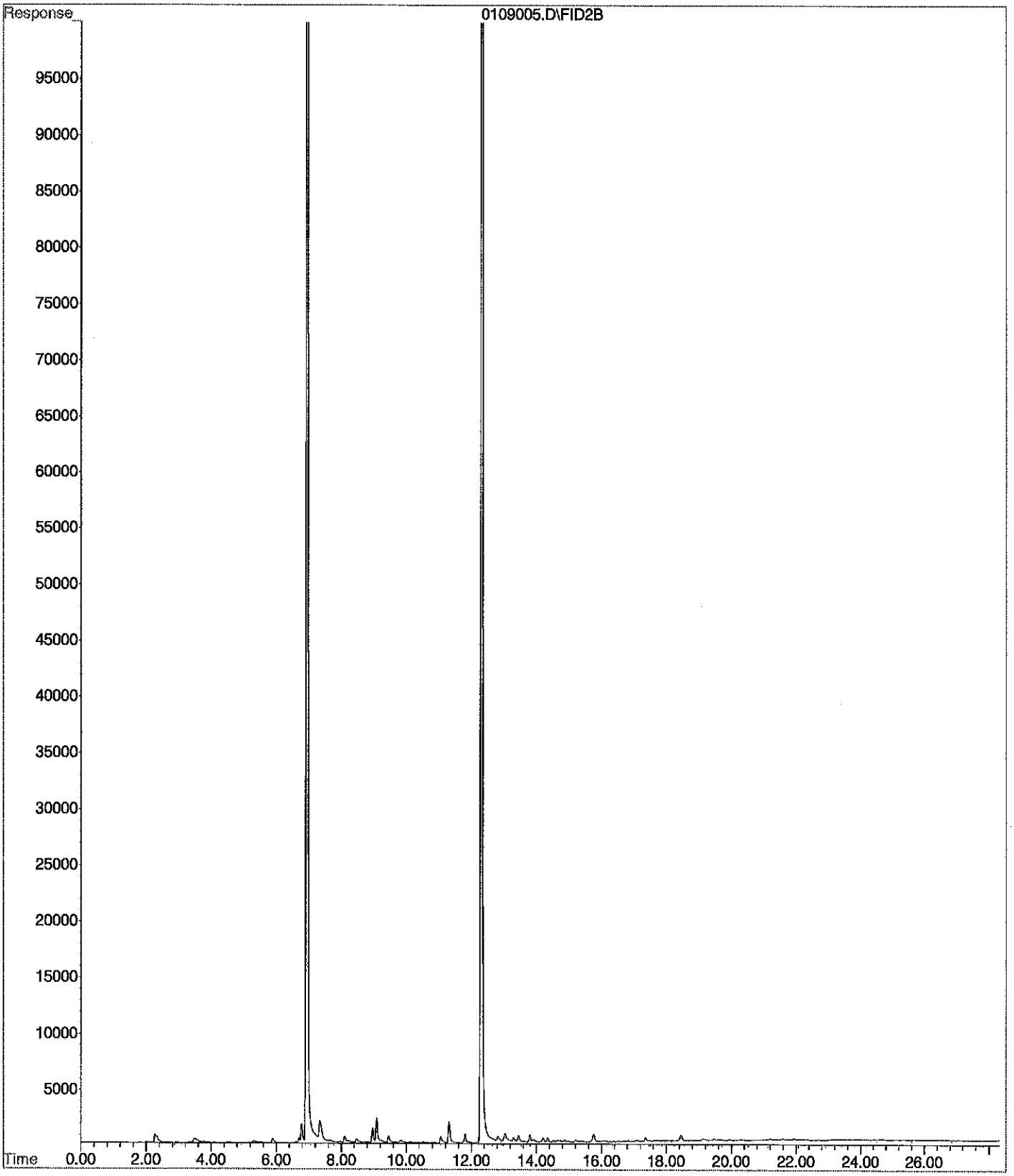
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.94	2898923	41.785	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1744730	43.014	PPB
11)	S	FLUOROBENZENE #2	6.94	7448839	33.537	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	10536904	35.132	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	720952	0.008	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2342248	0.025	PPM
3)	H	GASOLINE (9-24-14)	13.51	620733	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	2596843	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1368543	N.D.	PPM
9)		MTBE #2	4.57	1482	N.D.	PPB
10)		BENZENE #2	6.70	14220	0.004	PPB
12)		TOLUENE #2	9.09	87957	0.139	PPB
13)		ETHYLBENZENE #2	11.06	26227	N.D.	PPB
14)		m,p-XYLENE #2	11.32	75534	N.D.	PPB
15)		o-XYLENE #2	11.81	34235	N.D.	PPB

1/9 ✓

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109005.D
Operator :
Acquired : 9 Jan 2015 12:30 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-035-04s
Misc Info : v2-36-17
Vial Number: 5



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D150109\0109006.D\FID2B.CH
Acq On : 9 Jan 2015 13:04 Operator:
Sample : 12-035-04s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 13:32 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

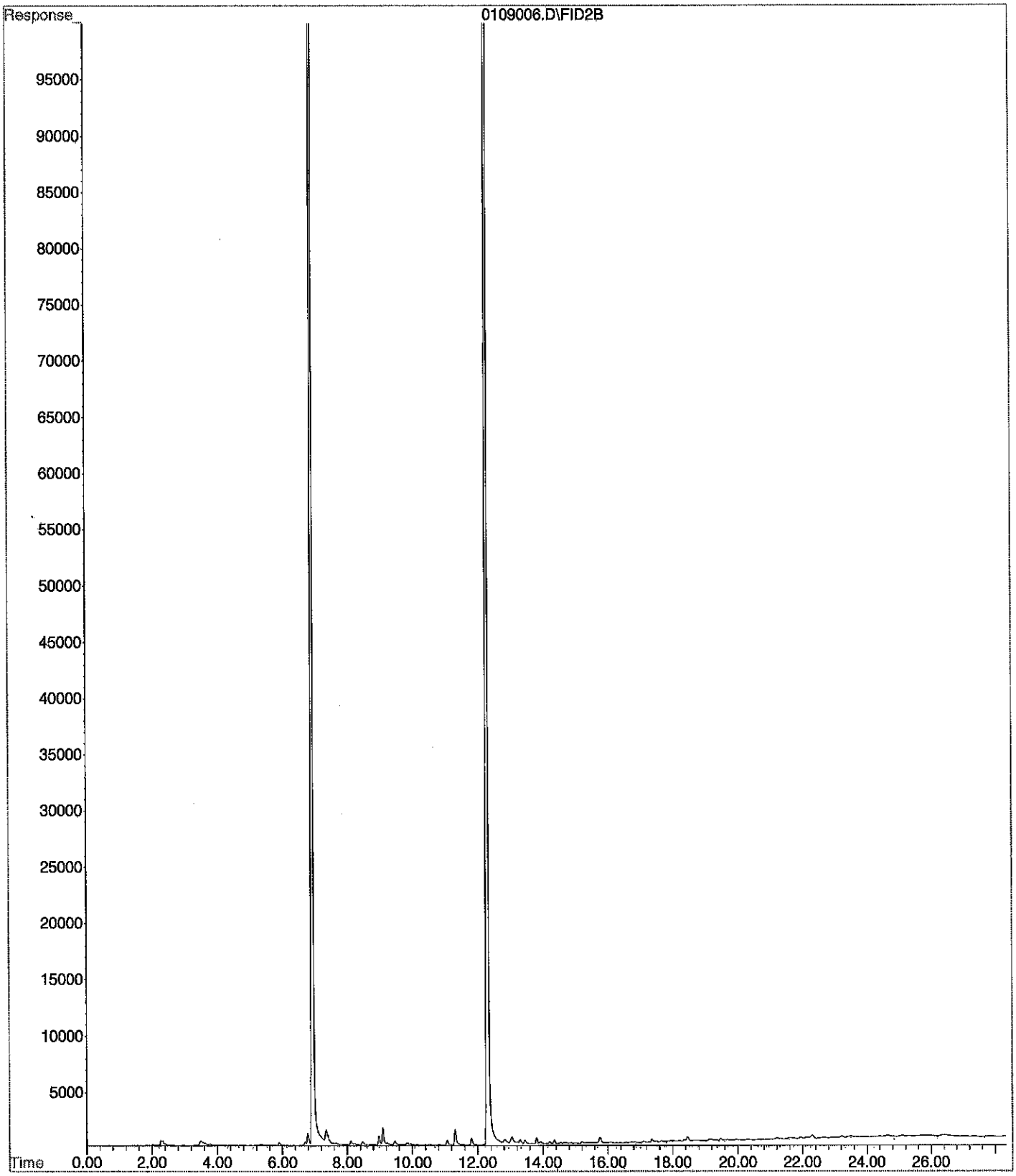
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	2856074	41.162	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1738253	42.852	PPB
11)	S	FLUOROBENZENE #2	6.94	7386020	33.251	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	10508993	35.038	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	654944	0.007	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2190169	0.022	PPM
3)	H	GASOLINE (9-24-14)	13.51	603623	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	2551961	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1220929	N.D.	PPM
9)		MTBE #2	4.56	2242	N.D.	PPB
10)		BENZENE #2	6.71	14083	0.004	PPB
12)		TOLUENE #2	9.09	75270	0.093	PPB
13)		ETHYLBENZENE #2	11.06	20555	N.D.	PPB
14)		m,p-XYLENE #2	11.32	60386	N.D.	PPB
15)		o-XYLENE #2	11.81	27142	N.D.	PPB

1/9/

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109006.D
Operator :
Acquired : 9 Jan 2015 13:04 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 12-035-04s DUP
Misc Info : V2-36-17
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109015.D\FID1A.CH Vial: 15
Signal #2 : d:\btex\DATA\D150109\0109015.D\FID2B.CH
Acq On : 9 Jan 2015 18:21 Operator:
Sample : SB0109S1 Inst : Daryl
Misc : V2-36-17,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 18:50 2015 Quant Results File: 141012DB.RES

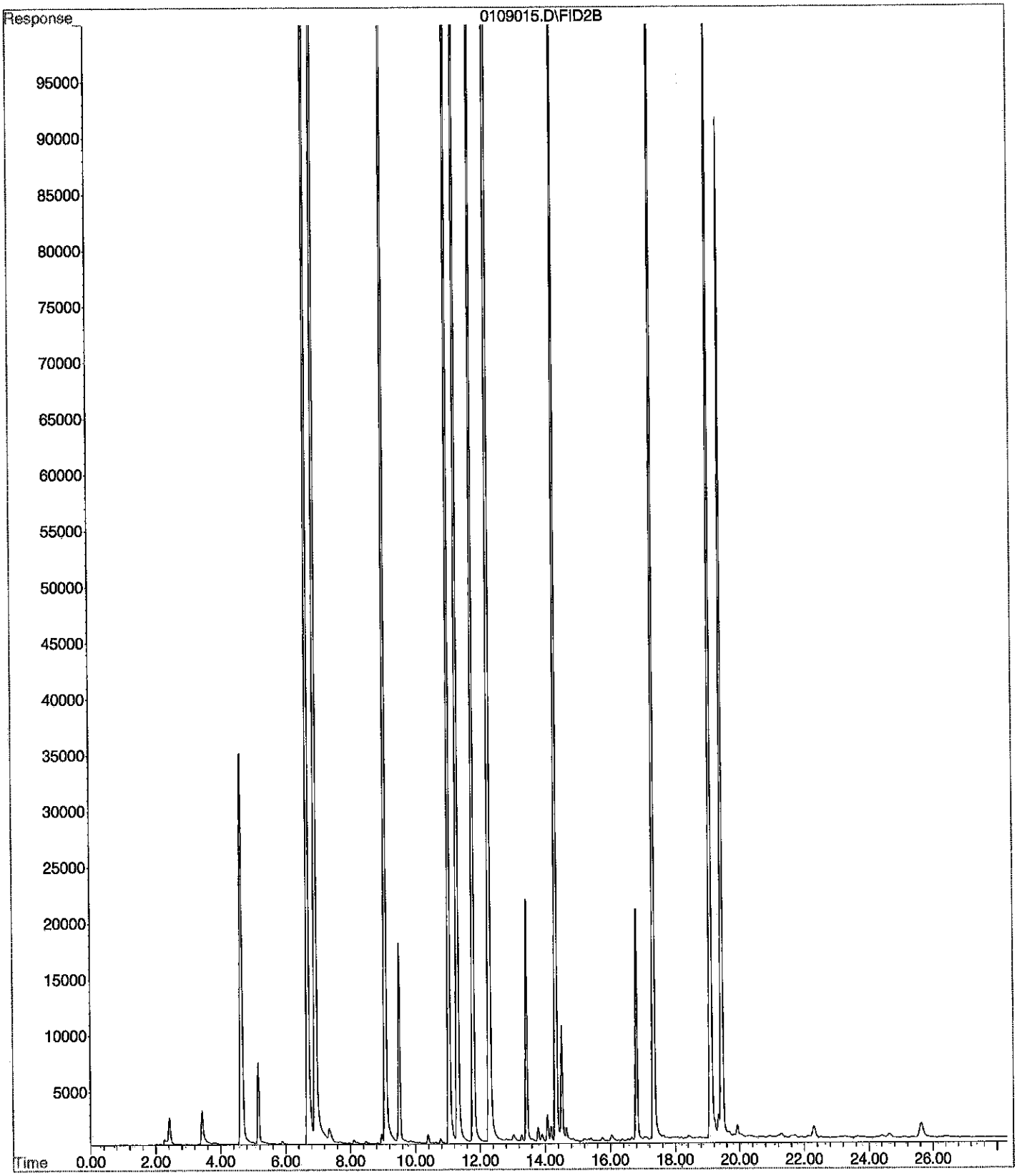
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3107700	44.818 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1841316	45.427 PPB
11)	S	FLUOROBENZENE #2	6.94	8275255	37.294 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11343941	37.858 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	12029681	0.238 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	21796341	0.323 PPM
3)	H	GASOLINE (9-24-14)	13.51	13965751	0.332 PPM
7)	H	entire GAS envelope #2 (9-	12.26	49682576	0.297 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	32784997	0.240 PPM
9)		MTBE #2	4.65	1684123	23.015 PPB
10)		BENZENE #2	6.70	5704641	19.394 PPB
12)		TOLUENE #2	9.08	5309609	18.928 PPB
13)		ETHYLBENZENE #2	11.05	4656996	18.846 PPB
14)		m,p-XYLENE #2	11.31	5582643	18.699 PPB
15)		o-XYLENE #2	11.80	4714489	18.576 PPB

1/12

File : X:\BTEX\DARYL\DATA\D150109\0109015.D
Operator :
Acquired : 9 Jan 2015 18:21 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SB0109S1
Misc Info : V2-36-17,V2-36-22
Vial Number: 15



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109016.D\FID1A.CH Vial: 16
Signal #2 : d:\btex\DATA\D150109\0109016.D\FID2B.CH
Acq On : 9 Jan 2015 18:55 Operator:
Sample : SBD0109S1 Inst : Daryl
Misc : V2-36-17,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 19:23 2015 Quant Results File: 141012DB.RES

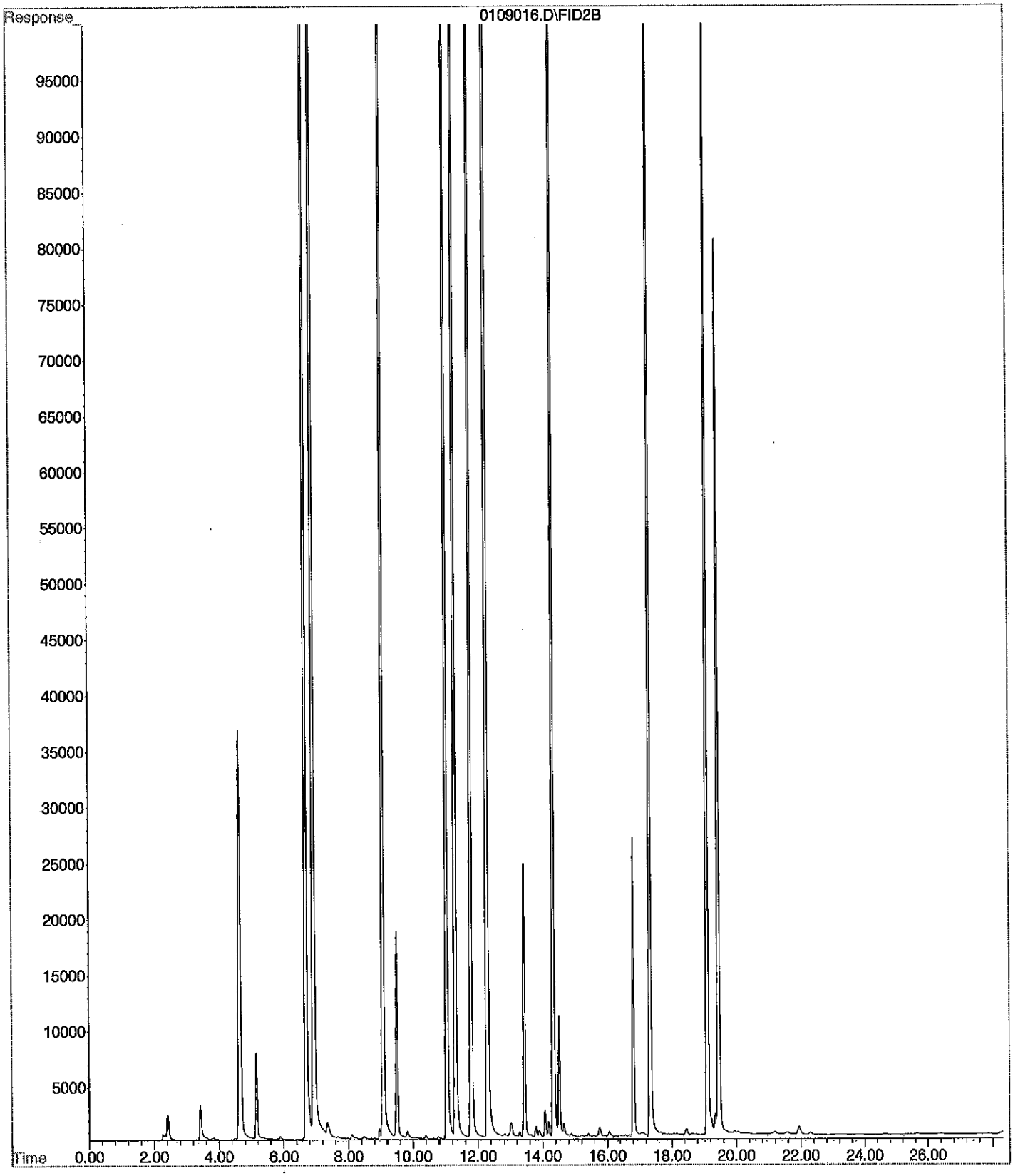
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3283122	47.367 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1933181	47.722 PPB
11)	S	FLUOROBENZENE #2	6.93	8807688	39.715 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11934199	39.852 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	12842151	0.254 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23042222	0.342 PPM
3)	H	GASOLINE (9-24-14)	13.51	15040394	0.359 PPM
7)	H	entire GAS envelope #2 (9-	12.26	51026167	0.307 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	34687835	0.257 PPM
9)		MTBE #2	4.65	1774467	24.253 PPB
10)		BENZENE #2	6.69	6058110	20.599 PPB
12)		TOLUENE #2	9.08	5647925	20.146 PPB
13)		ETHYLBENZENE #2	11.04	4944819	20.018 PPB
14)		m,p-XYLENE #2	11.31	5926970	19.886 PPB
15)		o-XYLENE #2	11.80	4996554	19.703 PPB

1112

File : X:\BTEX\DARYL\DATA\D150109\0109016.D
Operator :
Acquired : 9 Jan 2015 18:55 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SBD0109S1
Misc Info : V2-36-17,V2-36-22
Vial Number: 16



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150109\0109001.D\FID2B.CH
Acq On : 9 Jan 2015 10:13 Operator:
Sample : CCVD0109G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

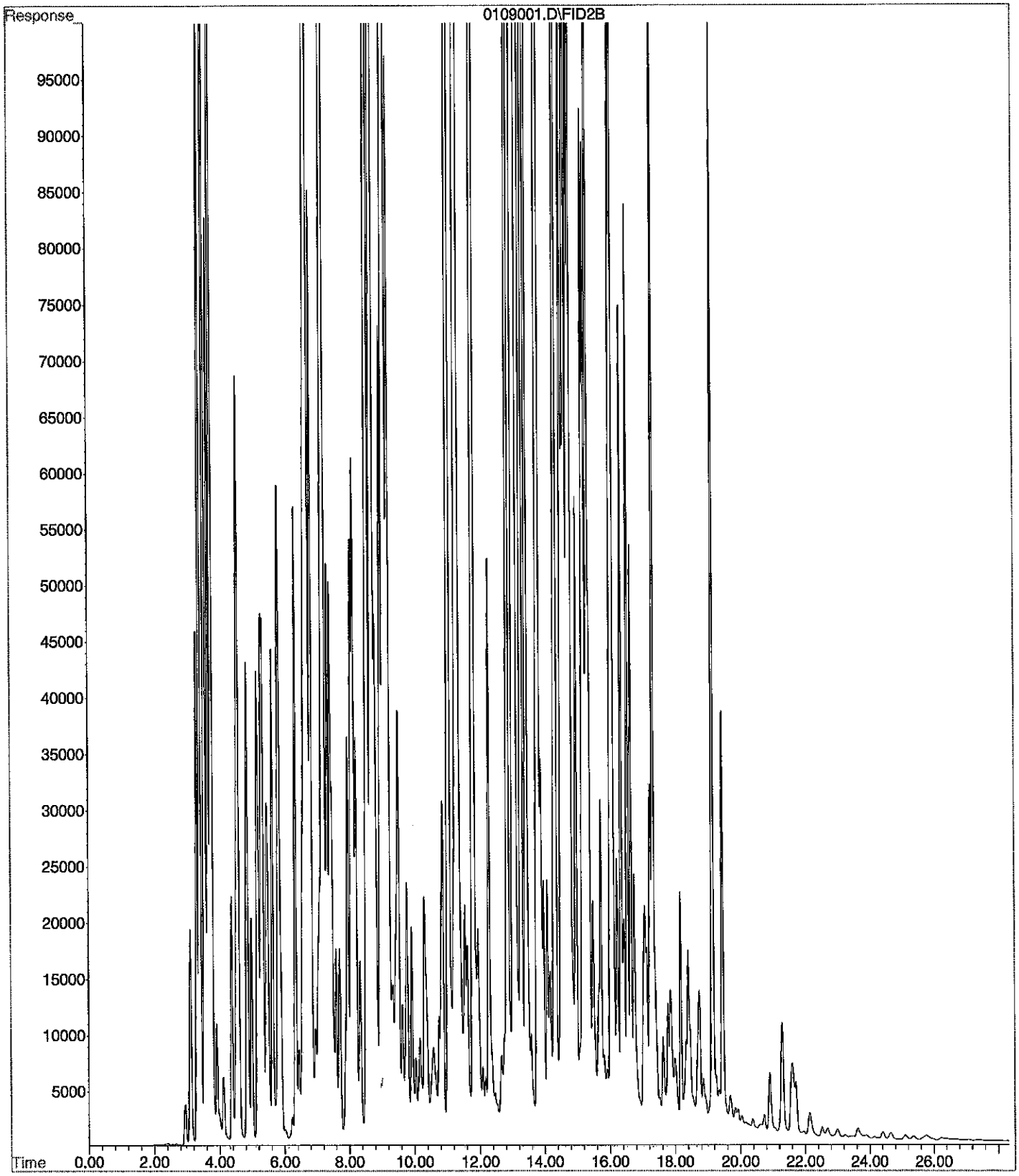
Quant Time: Jan 9 10:42 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.83	6970093	100.932	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1189411	29.141	PPB
11)	S	FLUOROBENZENE #2	6.97	438353	1.662	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2326352	7.397	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	267632965	5.430	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	362587166	5.543	PPM
3)	H	GASOLINE (9-24-14)	13.51	205338058	5.173	PPM
7)	H	entire GAS envelope #2 (9-	12.26	655294020	4.515	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	489452744	4.402	PPM
9)		MTBE #2	4.57	3715401	50.833	PPB
10)		BENZENE #2	6.70	43166291	147.047	PPB
12)		TOLUENE #2	9.09	111038055	399.377	PPB
13)		ETHYLBENZENE #2	11.05	26920633	109.507	PPB
14)		m,p-XYLENE #2	11.30	99717515	343.231	PPB
15)		o-XYLENE #2	11.80	37311035	148.855	PPB

File : X:\BTEX\DARYL\DATA\D150109\0109001.D
Operator :
Acquired : 9 Jan 2015 10:13 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109032.D\FID1A.CH Vial: 32
Signal #2 : d:\btex\DATA\D150109\0109032.D\FID2B.CH
Acq On : 10 Jan 2015 3:48 Operator:
Sample : CCVD0109G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

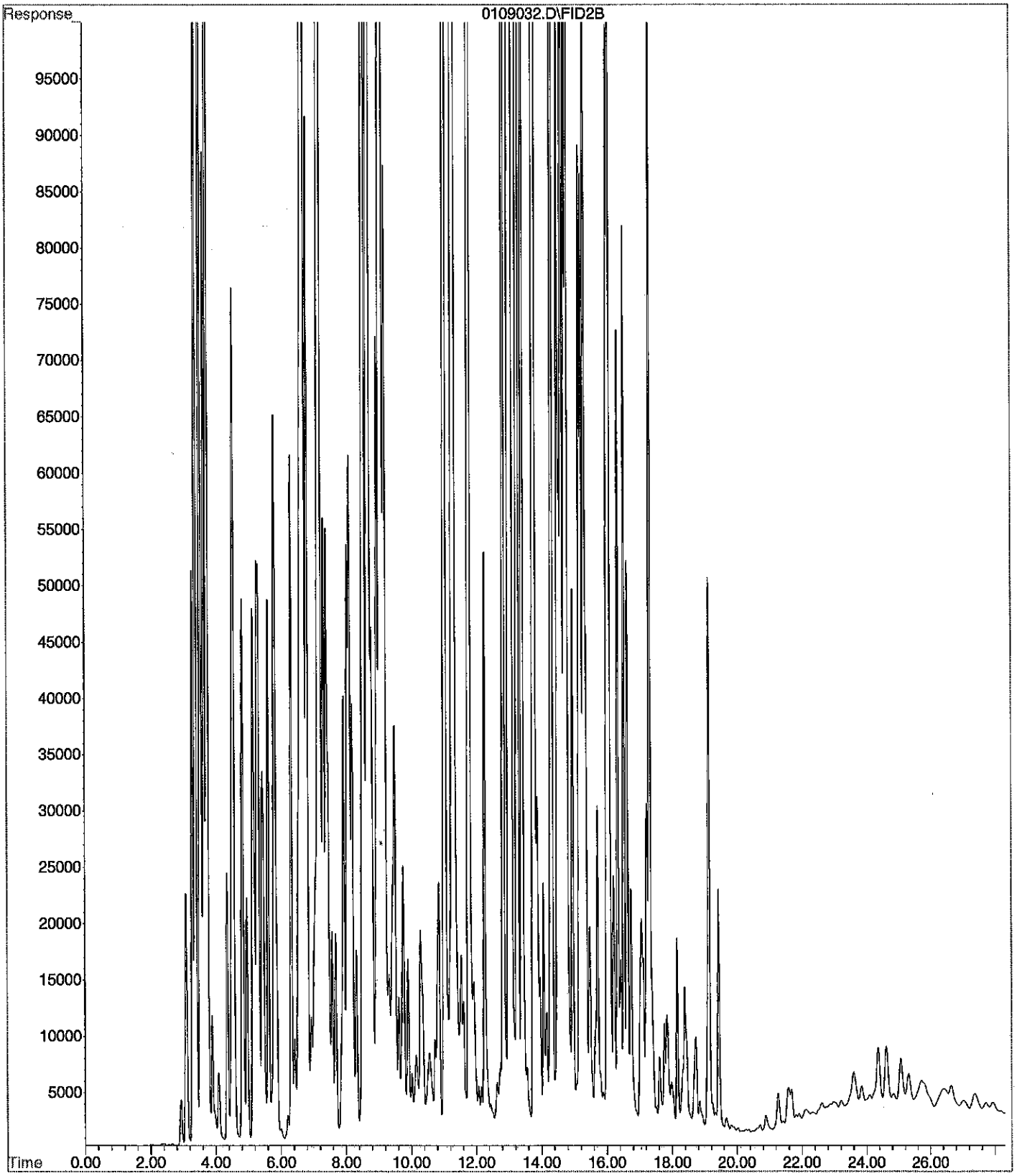
Quant Time: Jan 10 4:16 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1055765	25.802	PPB
11)	S	FLUOROBENZENE #2	6.94	476136	1.834	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	2153886	6.814	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	284322281	5.769	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	376312197	5.753	PPM
3)	H	GASOLINE (9-24-14)	13.51	203641142	5.130	PPM
7)	H	entire GAS envelope #2 (9-	12.26	665075551	4.584	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	492823407	4.433	PPM
9)		MTBE #2	4.55	4156557	56.875	PPB
10)		BENZENE #2	6.68	46387568	158.024	PPB
12)		TOLUENE #2	9.07	116226950	418.049	PPB
13)		ETHYLBENZENE #2	11.03	27955933	113.723	PPB
14)		m,p-XYLENE #2	11.29	102933030	354.317	PPB
15)		o-XYLENE #2	11.79	38948602	155.399	PPB

File : X:\BTEX\DARYL\DATA\D150109\0109032.D
Operator :
Acquired : 10 Jan 2015 3:48 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109G-2
Misc Info : V2-36-08
Vial Number: 32



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150109\0109002.D\FID2B.CH
Acq On : 9 Jan 2015 10:47 Operator:
Sample : CCVD0109B-1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 11:15 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

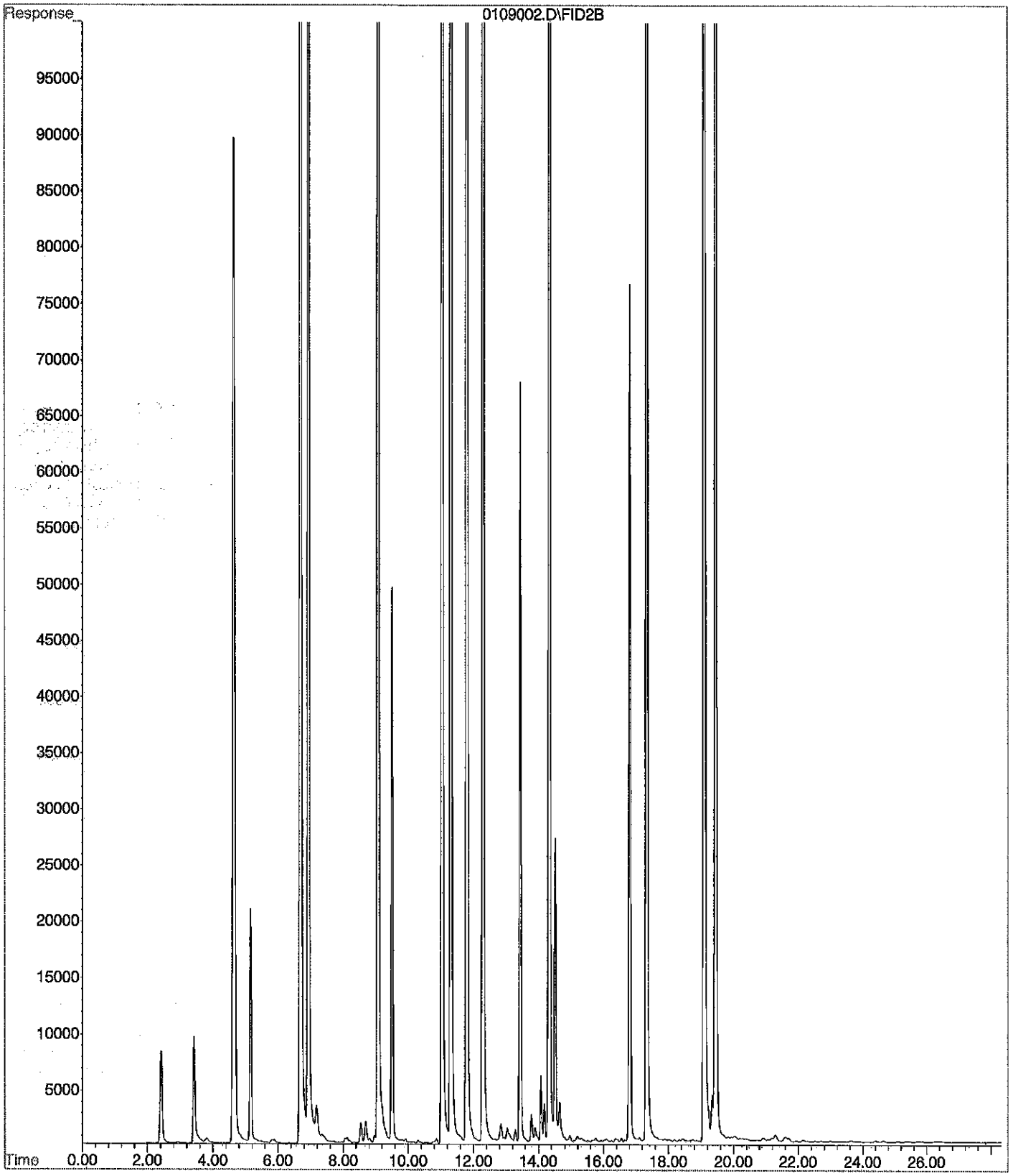
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3326680	47.999 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1961631	48.433 PPB
11)	S	FLUOROBENZENE #2	6.93	8799666	39.678 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	12137539	40.539 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	31434946	0.632 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	54708602	0.827 PPM
3)	H	GASOLINE (9-24-14)	13.51	37173132	0.919 PPM
7)	H	entire GAS envelope #2 (9-	12.26	123451206	0.811 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	85089360	0.716 PPM
9)		MTBE #2	4.64	4234407	57.941 PPB
10)		BENZENE #2	6.69	14813530	50.434 PPB
12)		TOLUENE #2	9.07	14074251	50.467 PPB
13)		ETHYLBENZENE #2	11.04	12207677	49.594 PPB
14)		m,p-XYLENE #2	11.31	14688010	50.090 PPB
15)		o-XYLENE #2	11.79	12274522	48.791 PPB

1/9

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109002.D
Operator :
Acquired : 9 Jan 2015 10:47 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109B-1
Misc Info : V2-36-23,V2-36-22
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150109\0109017.D\FID2B.CH
Acq On : 9 Jan 2015 19:29 Operator:
Sample : CCVD0109B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

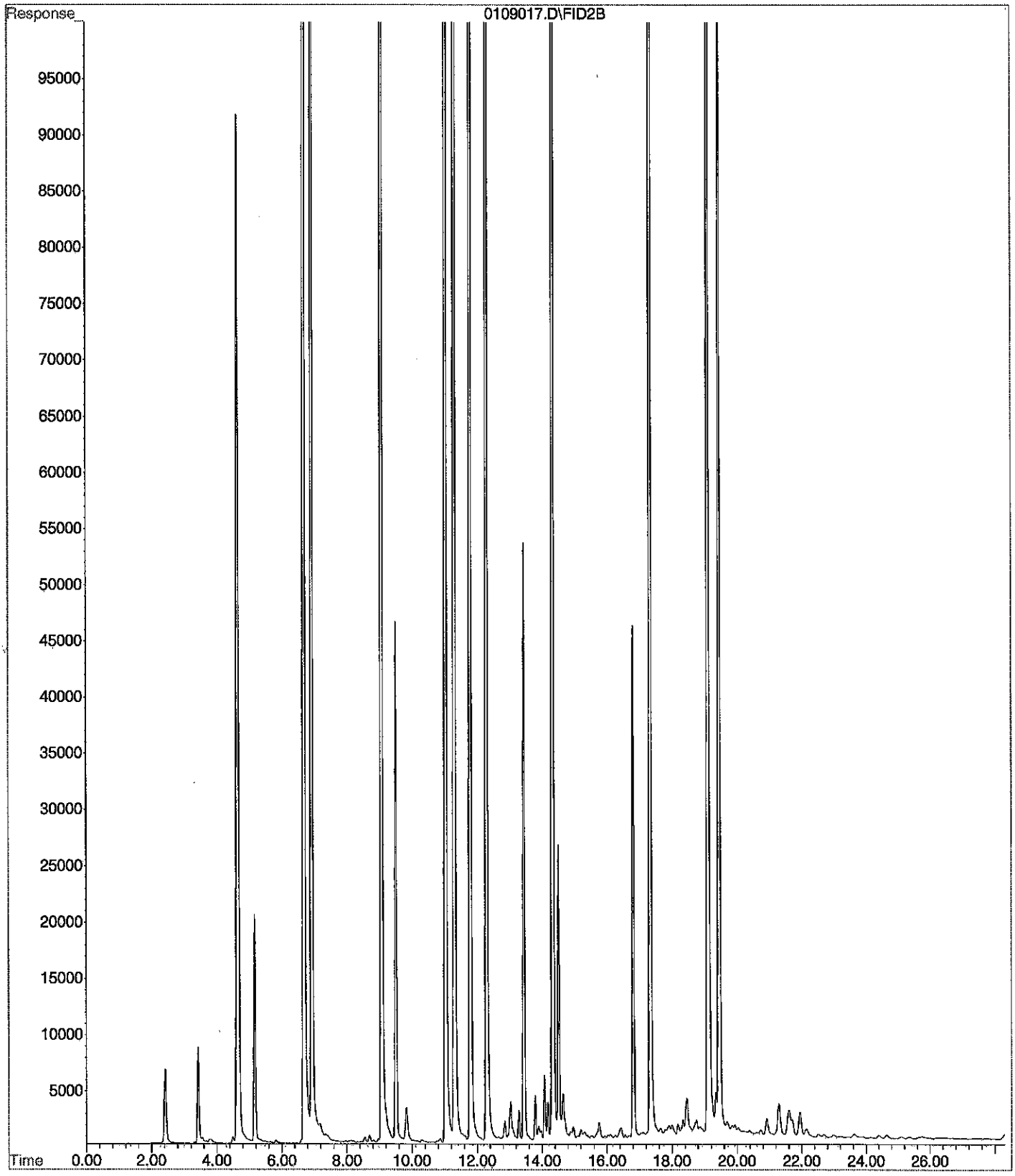
Quant Time: Jan 9 19:57 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3247714	46.852 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1914659	47.259 PPB
11)	S	FLUOROBENZENE #2	6.93	8763648	39.515 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11870837	39.638 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	29553122	0.594 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50315517	0.759 PPM
3)	H	GASOLINE (9-24-14)	13.51	33961537	0.838 PPM
7)	H	entire GAS envelope #2 (9-	12.26	117369642	0.769 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	82251968	0.691 PPM
9)		MTBE #2	4.65	4318011	59.086 PPB
10)		BENZENE #2	6.69	14439398	49.159 PPB
12)		TOLUENE #2	9.08	13529657	48.507 PPB
13)		ETHYLBENZENE #2	11.04	11873217	48.232 PPB
14)		m,p-XYLENE #2	11.31	14246102	48.566 PPB
15)		o-XYLENE #2	11.79	11891440	47.260 PPB

File : X:\BTEX\DARYL\DATA\D150109\0109017.D
Operator :
Acquired : 9 Jan 2015 19:29 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109B-2
Misc Info : V2-36-23,V2-36-22
Vial Number: 17



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150109\0109011.D\FID2B.CH
Acq On : 9 Jan 2015 16:07 Operator:
Sample : 01-035-05a Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 16:36 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	3150871	45.445	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1852946	45.717	PPB
11)	S	FLUOROBENZENE #2	6.94	8272507	37.282	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11497630	38.378	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	561659	0.005	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3033727	0.035	PPM
3)	H	GASOLINE (9-24-14)	13.51	1420851	0.014	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6911202	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3419191	N.D.	PPM
9)		MTBE #2	4.70	453	N.D.	PPB
10)		BENZENE #2	6.71	9755	N.D.	PPB
12)		TOLUENE #2	9.09	36291	N.D.	PPB
13)		ETHYLBENZENE #2	11.07	9413	N.D.	PPB
14)		m,p-XYLENE #2	11.32	40776	N.D.	PPB
15)		o-XYLENE #2	11.81	24537	N.D.	PPB

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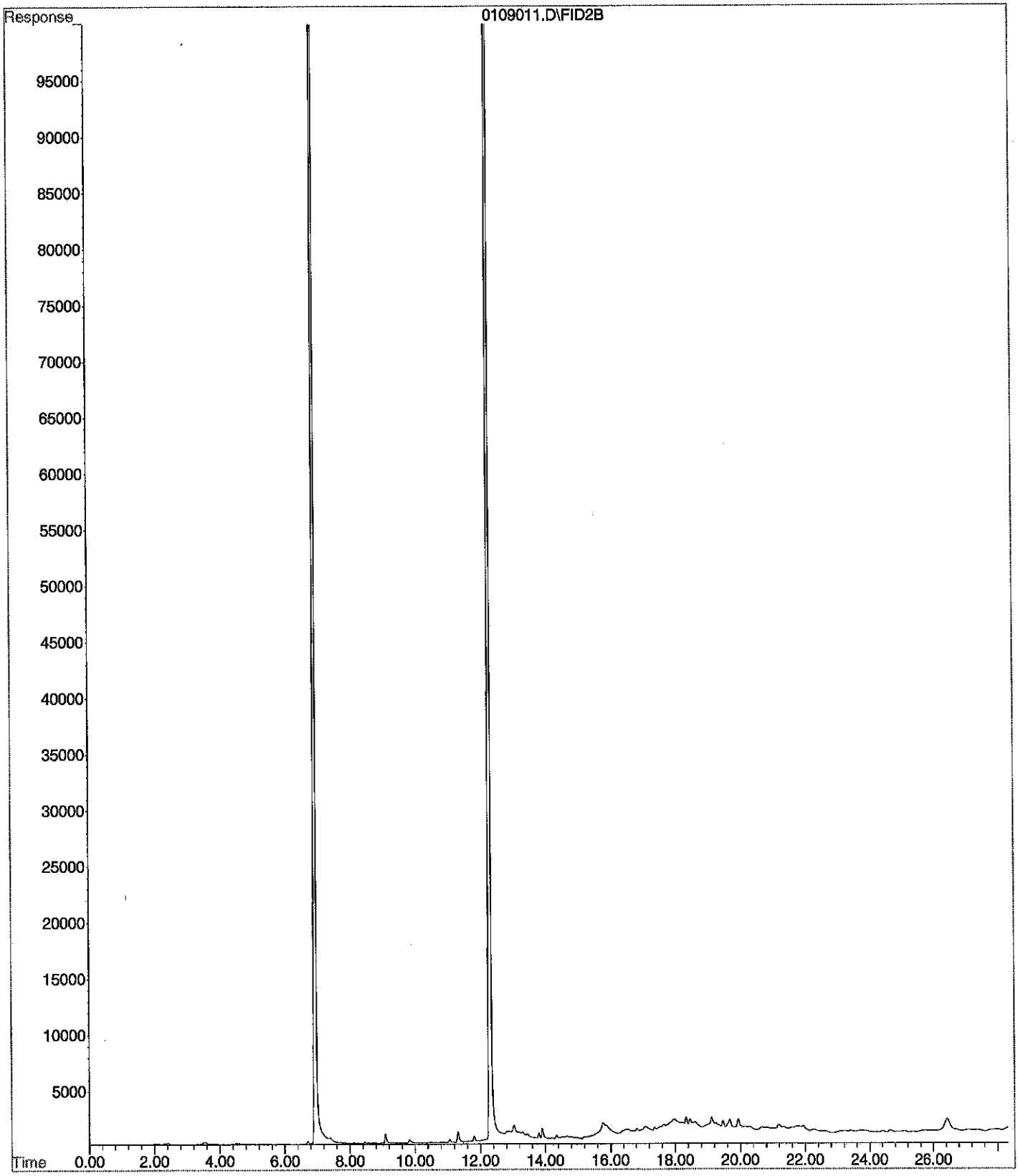
(f)=RT Delta > 1/2 Window (m)=manual int.
0109011.D 141012DB.M Fri Jan 09 16:36:06 2015 Page 1

File : X:\BTEX\DARYL\DATA\D150109\0109011.D
Operator :
Acquired : 9 Jan 2015 16:07 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-035-05a
Misc Info : V2-36-23
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150109\0109010.D\FID1A.CH Vial: 10
Signal #2 : X:\BTEX\DARYL\DATA\D150109\0109010.D\FID2B.CH
Acq On : 9 Jan 2015 15:33 Operator:
Sample : MB0109W1 Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 16:02 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	2793432	40.252	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1647388	40.582	PPB
11)	S	FLUOROBENZENE #2	6.94	7261305	32.684	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	10096097	33.643	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	439236	0.002	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	1669662	0.014	PPM
3)	H	GASOLINE (9-24-14)	13.51	692209	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	3983932	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2014114	N.D.	PPM
9)		MTBE #2	4.68	911	N.D.	PPB
10)		BENZENE #2	6.70	8555	N.D.	PPB
12)		TOLUENE #2	9.09	32029	N.D.	PPB
13)		ETHYLBENZENE #2	11.06	8626	N.D.	PPB
14)		m,p-XYLENE #2	11.32	39766	N.D.	PPB
15)		o-XYLENE #2	11.81	15231	N.D.	PPB

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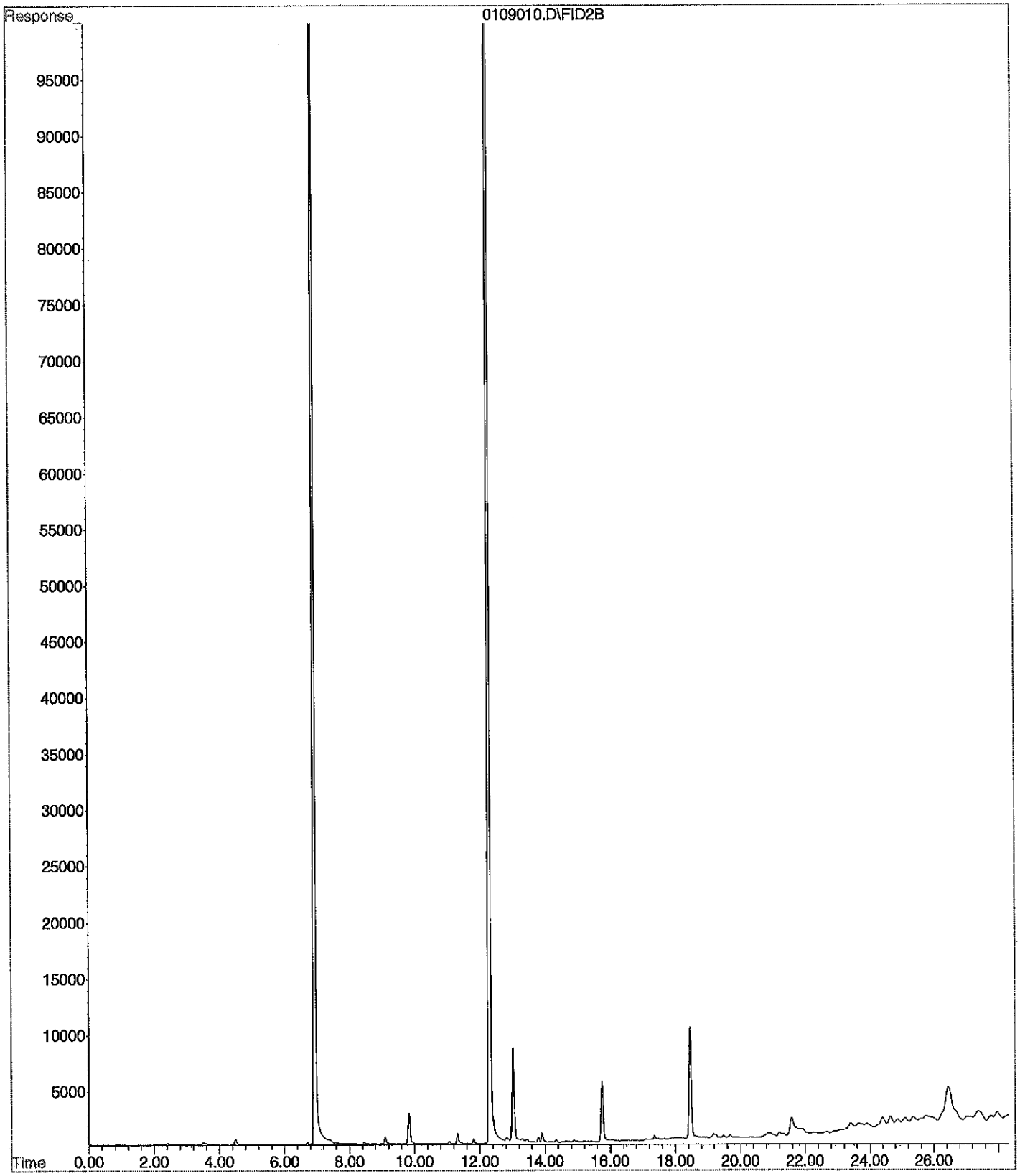
File : X:\BTEX\DARYL\DATA\D150109\0109010.D
Operator :
Acquired : 9 Jan 2015 15:33 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB0109W1
Misc Info : V2-36-23
Vial Number: 10



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150109\0109026.D\FID1A.CH Vial: 26
Signal #2 : X:\BTEX\DARYL\DATA\D150109\0109026.D\FID2B.CH
Acq On : 10 Jan 2015 00:29 Operator:
Sample : 01-030-01a 1:4 Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 10 0:57 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	3464064	49.995	PPB
5)	S	BROMOFLUOROBENZENE	12.28	2003384	49.476	PPB
11)	S	FLUOROBENZENE #2	6.92	9107672	41.079	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	12283894	41.034	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	12142816	0.240	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	24535977	0.365	PPM
3)	H	GASOLINE (9-24-14)	13.51	13828927	0.328	PPM
7)	H	entire GAS envelope #2 (9-	12.26	51570017	0.310	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	40487689	0.310	PPM
9)		MTBE #2	4.56	573892	7.811	PPB
10)		BENZENE #2	6.69	290716	0.946	PPB
12)		TOLUENE #2	9.07	704254	2.357	PPB
13)		ETHYLBENZENE #2	11.03	2696865	10.864	PPB
14)		m,p-XYLENE #2	11.29	10121698	34.347	PPB
15)		o-XYLENE #2	11.78	1385229	5.269	PPB

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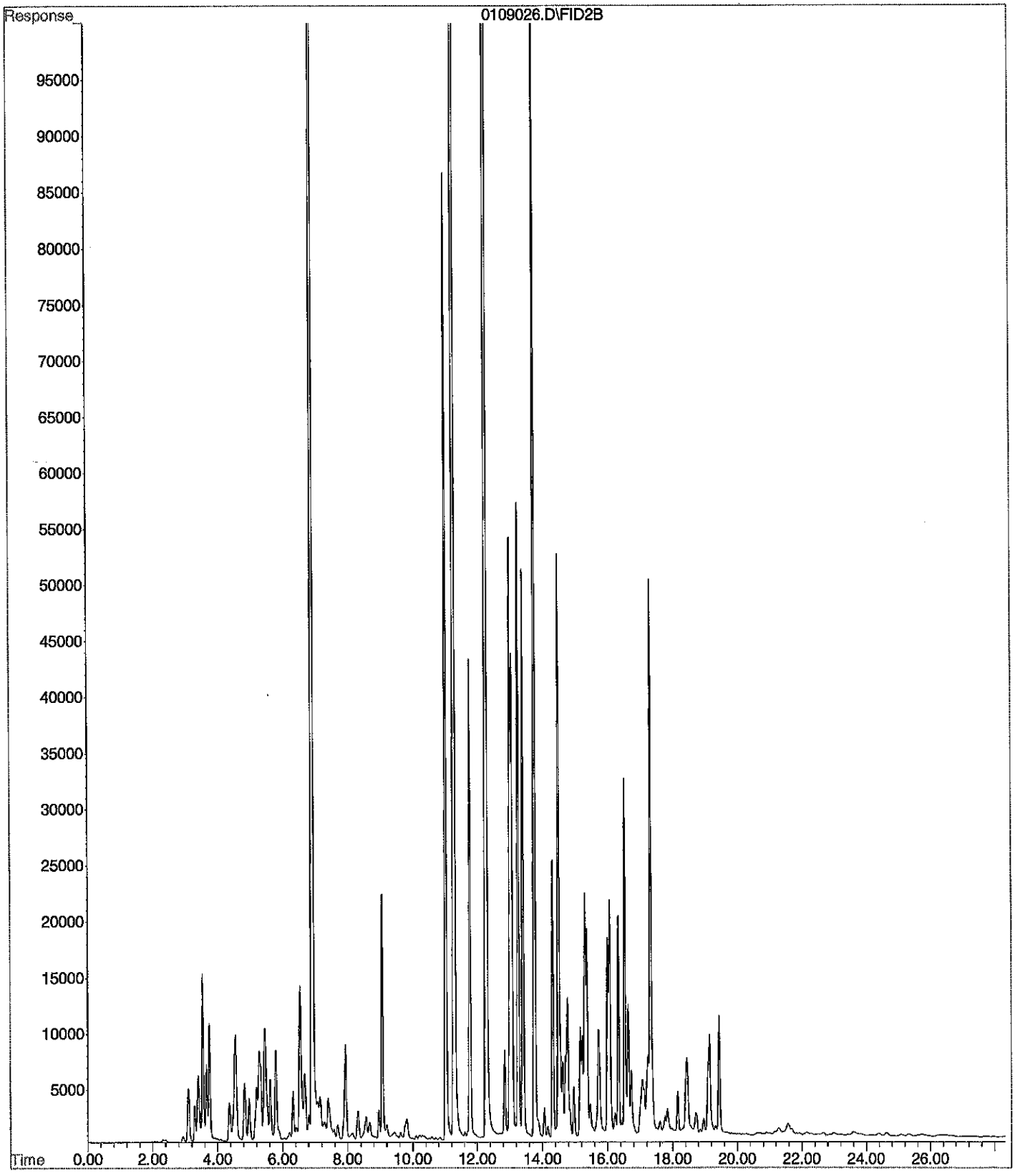
File : X:\BTEX\DARYL\DATA\D150109\0109026.D
Operator :
Acquired : 10 Jan 2015 00:29 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-030-01a 1:4
Misc Info : V2-36-23
Vial Number: 26



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150109\0109025.D\FID1A.CH Vial: 25
Signal #2 : X:\BTEX\DARYL\DATA\D150109\0109025.D\FID2B.CH
Acq On : 9 Jan 2015 23:55 Operator:
Sample : 01-030-01a 1:4 DUP Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 10 0:24 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	3314693	47.825	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1923923	47.491	PPB
11)	S	FLUOROBENZENE #2	6.92	8726251	39.345	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11796867	39.388	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	11679807	0.231	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	25188588	0.375	PPM
3)	H	GASOLINE (9-24-14)	13.51	13249173	0.314	PPM
7)	H	entire GAS envelope #2 (9-	12.26	54341897	0.330	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	39399522	0.300	PPM
9)		MTBE #2	4.56	562386	7.654	PPB
10)		BENZENE #2	6.69	299831	0.977	PPB
12)		TOLUENE #2	9.06	724485	2.430	PPB
13)		ETHYLBENZENE #2	11.03	2665854	10.738	PPB
14)		m,p-XYLENE #2	11.29	9948765	33.751	PPB
15)		o-XYLENE #2	11.78	1410122	5.369	PPB

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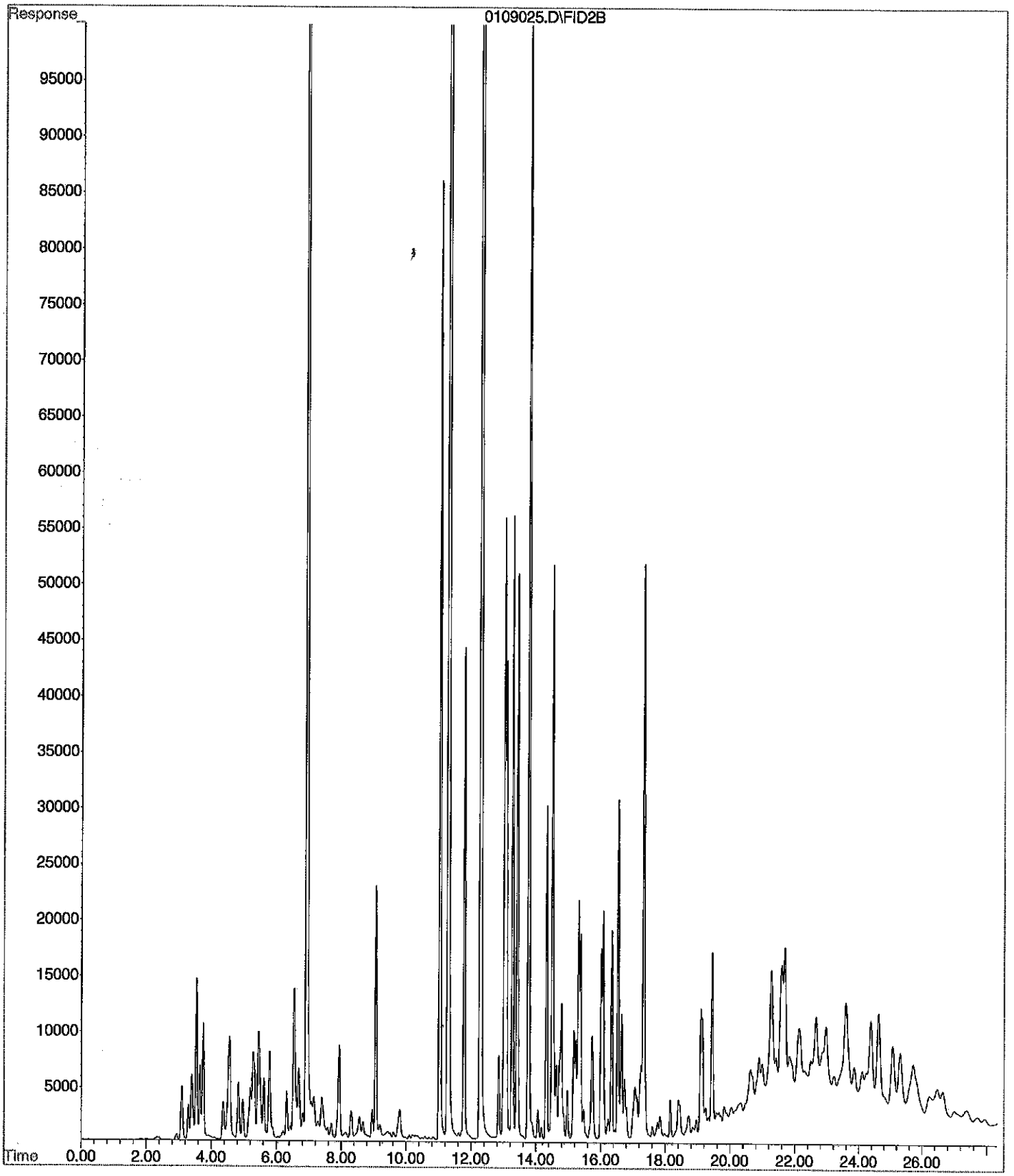
File : X:\BTEX\DARYL\DATA\D150109\0109025.D
Operator :
Acquired : 9 Jan 2015 23:55 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-030-01a 1:4 DUP
Misc Info : V2-36-23
Vial Number: 25



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109023.D\FID1A.CH Vial: 23
Signal #2 : d:\btex\DATA\D150109\0109023.D\FID2B.CH
Acq On : 9 Jan 2015 22:49 Operator:
Sample : SB0109W1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 23:17 2015 Quant Results File: 141012DB.RES

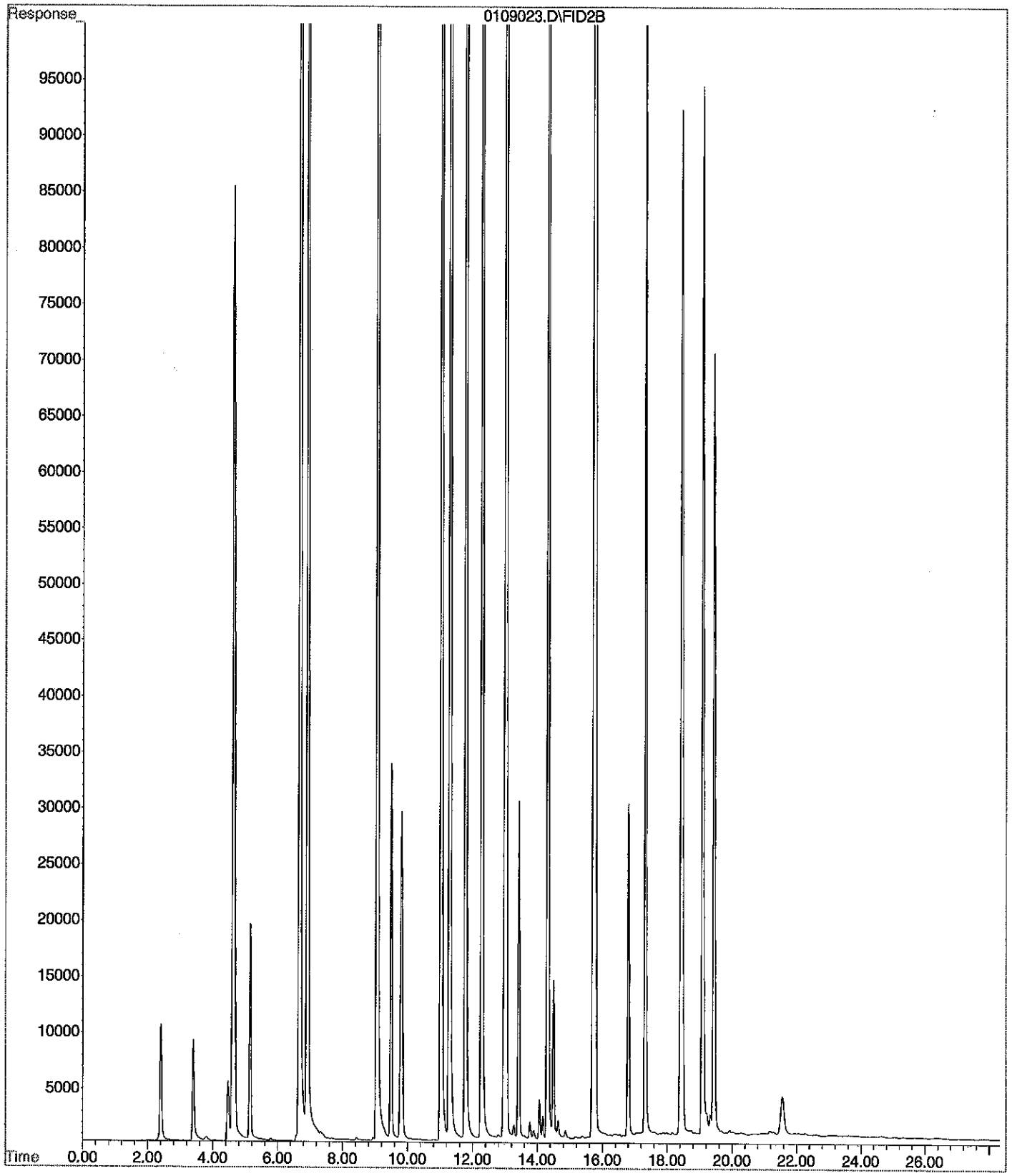
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3146800	45.386 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1621444	39.934 PPB
11)	S	FLUOROBENZENE #2	6.92	8501096	38.321 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	10164386	33.874 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28839240	0.579 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	44385418	0.669 PPM
3)	H	GASOLINE (9-24-14)	13.51	29265950	0.719 PPM
7)	H	entire GAS envelope #2 (9-	12.26	121710697	0.799 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	89281312	0.755 PPM
9)		MTBE #2	4.63	4079675	55.822 PPB
10)		BENZENE #2	6.68	14498554	49.360 PPB
12)		TOLUENE #2	9.06	13512935	48.447 PPB
13)		ETHYLBENZENE #2	11.03	11609932	47.159 PPB
14)		m,p-XYLENE #2	11.29	13772215	46.933 PPB
15)		o-XYLENE #2	11.78	11415425	45.357 PPB

11:2

File : X:\BTEX\DARYL\DATA\D150109\0109023.D
Operator :
Acquired : 9 Jan 2015 22:49 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SB0109W1
Misc Info : V2-36-23,V2-36-22
Vial Number: 23



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109024.D\FID1A.CH Vial: 24
Signal #2 : d:\btex\DATA\D150109\0109024.D\FID2B.CH
Acq On : 9 Jan 2015 23:22 Operator:
Sample : SBD0109W1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 23:51 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

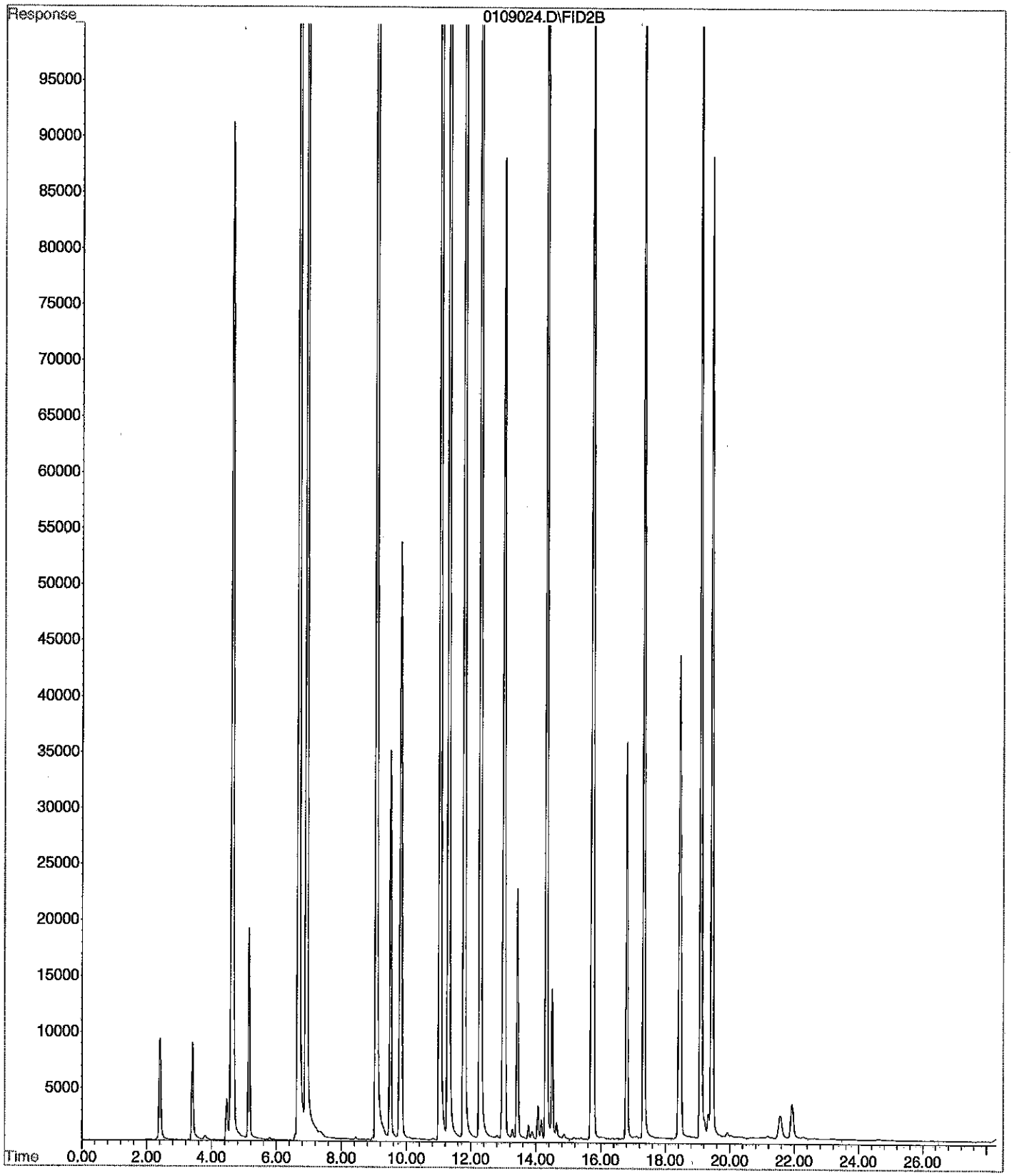
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3253745	46.940 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1682214	41.452 PPB
11)	S	FLUOROBENZENE #2	6.92	8783614	39.606 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	10456041	34.859 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	29172910	0.586 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	43063157	0.648 PPM
3)	H	GASOLINE (9-24-14)	13.51	28178110	0.691 PPM
7)	H	entire GAS envelope #2 (9-	12.26	109275806	0.712 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	78001382	0.652 PPM
9)		MTBE #2	4.63	4321122	59.129 PPB
10)		BENZENE #2	6.68	14876364	50.648 PPB
12)		TOLUENE #2	9.06	13808732	49.511 PPB
13)		ETHYLBENZENE #2	11.03	11900587	48.343 PPB
14)		m,p-XYLENE #2	11.30	14115122	48.115 PPB
15)		o-XYLENE #2	11.78	11623505	46.189 PPB

1/12

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109024.D
Operator :
Acquired : 9 Jan 2015 23:22 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SBD0109W1
Misc Info : V2-36-23,V2-36-22
Vial Number: 24



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150109\0109001.D\FID2B.CH
Acq On : 9 Jan 2015 10:13 Operator:
Sample : CCVD0109G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 10:42 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

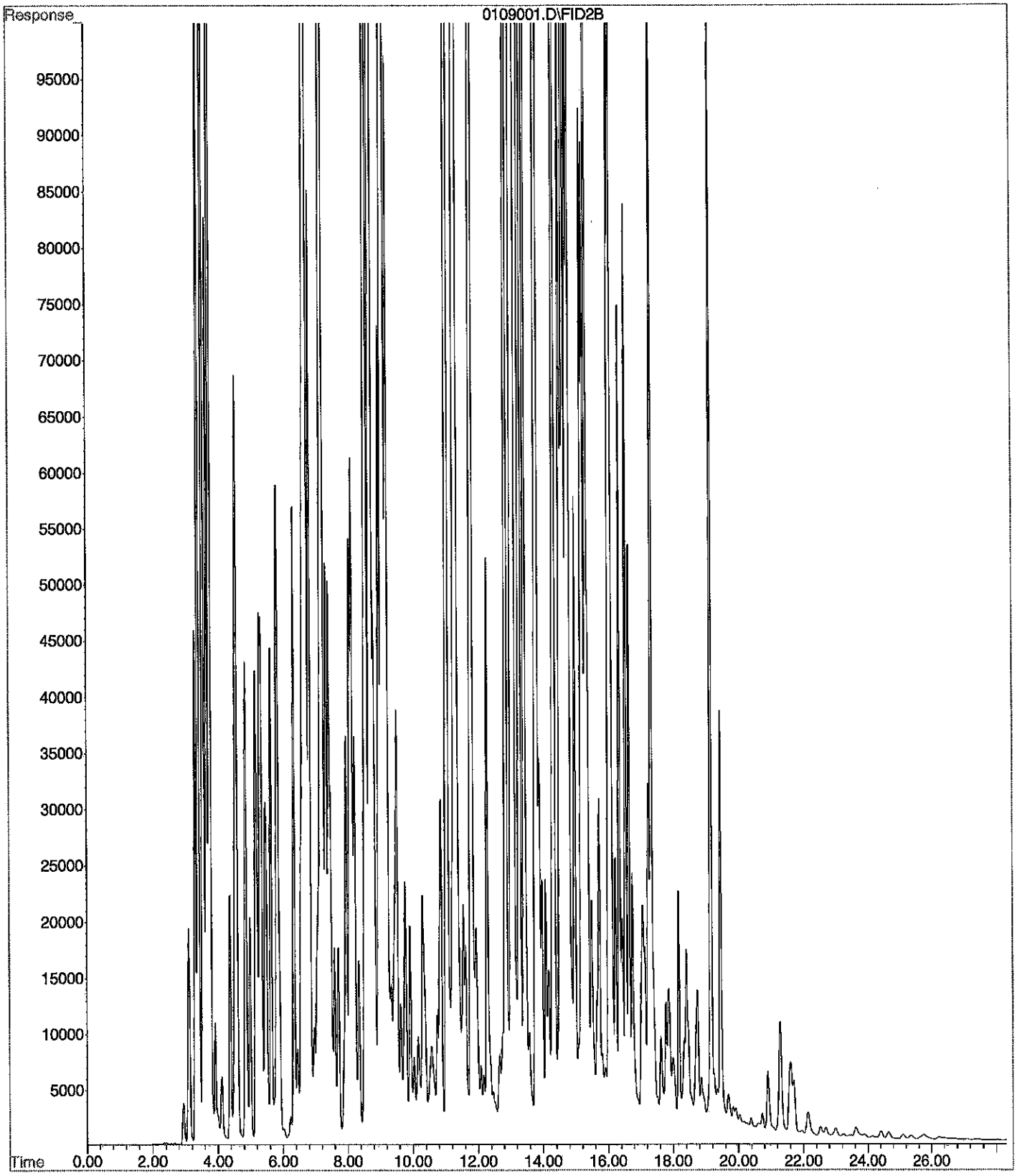
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.83	6970093	100.932	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1189411	29.141	PPB
11)	S	FLUOROBENZENE #2	6.97	438353	1.662	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2326352	7.397	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	267632965	5.430	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	362587166	5.543	PPM
3)	H	GASOLINE (9-24-14)	13.51	205338058	5.173	PPM
7)	H	entire GAS envelope #2 (9-	12.26	655294020	4.515	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	489452744	4.402	PPM
9)		MTBE #2	4.57	3715401	50.833	PPB
10)		BENZENE #2	6.70	43166291	147.047	PPB
12)		TOLUENE #2	9.09	111038055	399.377	PPB
13)		ETHYLBENZENE #2	11.05	26920633	109.507	PPB
14)		m,p-XYLENE #2	11.30	99717515	343.231	PPB
15)		o-XYLENE #2	11.80	37311035	148.855	PPB

1/9

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109001.D
Operator :
Acquired : 9 Jan 2015 10:13 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109032.D\FID1A.CH Vial: 32
Signal #2 : d:\btex\DATA\D150109\0109032.D\FID2B.CH
Acq On : 10 Jan 2015 3:48 Operator:
Sample : CCVD0109G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 10 4:16 2015 Quant Results File: 141012DB.RES

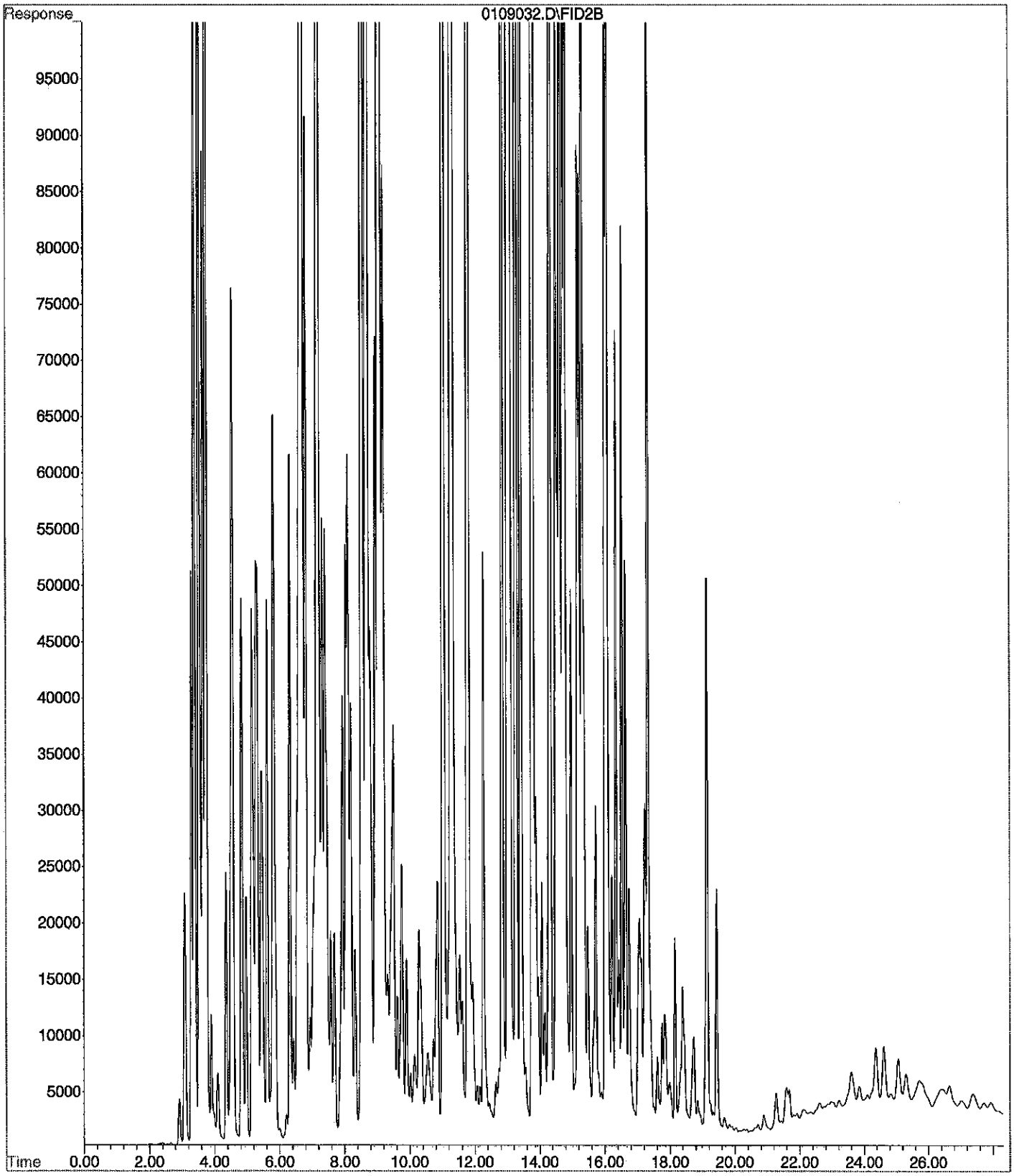
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1055765	25.802	PPB
11)	S	FLUOROBENZENE #2	6.94	476136	1.834	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	2153886	6.814	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	284322281	5.769	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	376312197	5.753	PPM
3)	H	GASOLINE (9-24-14)	13.51	203641142	5.130	PPM
7)	H	entire GAS envelope #2 (9-	12.26	665075551	4.584	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	492823407	4.433	PPM
9)		MTBE #2	4.55	4156557	56.875	PPB
10)		BENZENE #2	6.68	46387568	158.024	PPB
12)		TOLUENE #2	9.07	116226950	418.049	PPB
13)		ETHYLBENZENE #2	11.03	27955933	113.723	PPB
14)		m,p-XYLENE #2	11.29	102933030	354.317	PPB
15)		o-XYLENE #2	11.79	38948602	155.399	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150109\0109032.D
Operator :
Acquired : 10 Jan 2015 3:48 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109G-2
Misc Info : V2-36-08
Vial Number: 32



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150109\0109002.D\FID2B.CH
Acq On : 9 Jan 2015 10:47 Operator:
Sample : CCVD0109B-1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 9 11:15 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

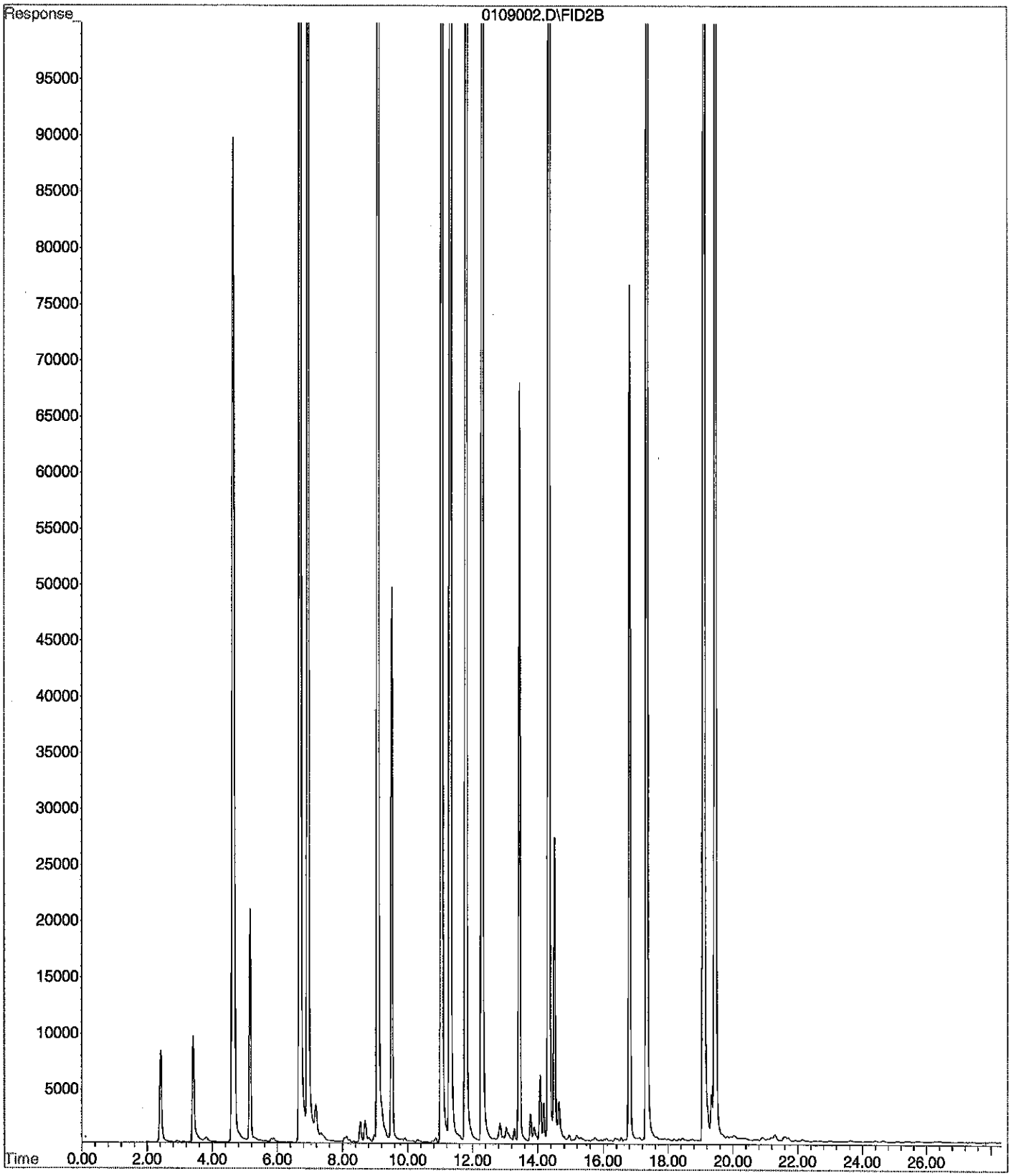
		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3326680	47.999 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1961631	48.433 PPB
11)	S	FLUOROBENZENE #2	6.93	8799666	39.678 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	12137539	40.539 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	31434946	0.632 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	54708602	0.827 PPM
3)	H	GASOLINE (9-24-14)	13.51	37173132	0.919 PPM
7)	H	entire GAS envelope #2 (9-	12.26	123451206	0.811 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	85089360	0.716 PPM
9)		MTBE #2	4.64	4234407	57.941 PPB
10)		BENZENE #2	6.69	14813530	50.434 PPB
12)		TOLUENE #2	9.07	14074251	50.467 PPB
13)		ETHYLBENZENE #2	11.04	12207677	49.594 PPB
14)		m,p-XYLENE #2	11.31	14688010	50.090 PPB
15)		o-XYLENE #2	11.79	12274522	48.791 PPB

1/9

(f)=RT Delta > 1/2 Window (m)=manual int.

75

File : X:\BTEX\DARYL\DATA\D150109\0109002.D
Operator :
Acquired : 9 Jan 2015 10:47 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109B-1
Misc Info : V2-36-23,V2-36-22
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150109\0109017.D\FID2B.CH
Acq On : 9 Jan 2015 19:29 Operator:
Sample : CCVD0109B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

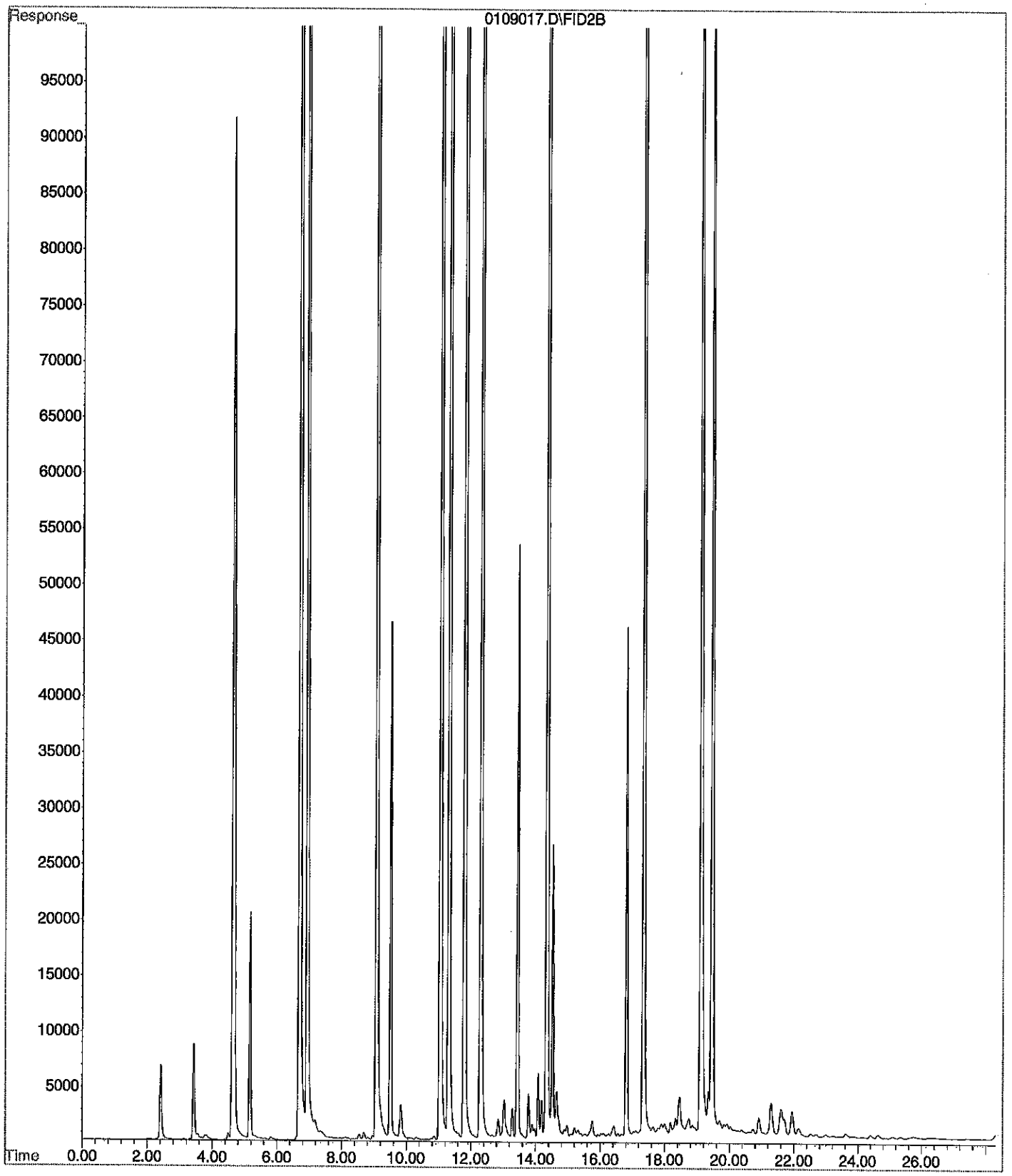
Quant Time: Jan 9 19:57 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3247714	46.852 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1914659	47.259 PPB
11)	S	FLUOROBENZENE #2	6.93	8763648	39.515 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11870837	39.638 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	29553122	0.594 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50315517	0.759 PPM
3)	H	GASOLINE (9-24-14)	13.51	33961537	0.838 PPM
7)	H	entire GAS envelope #2 (9-	12.26	117369642	0.769 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	82251968	0.691 PPM
9)		MTBE #2	4.65	4318011	59.086 PPB
10)		BENZENE #2	6.69	14439398	49.159 PPB
12)		TOLUENE #2	9.08	13529657	48.507 PPB
13)		ETHYLBENZENE #2	11.04	11873217	48.232 PPB
14)		m,p-XYLENE #2	11.31	14246102	48.566 PPB
15)		o-XYLENE #2	11.79	11891440	47.260 PPB

File : X:\BTEX\DARYL\DATA\D150109\0109017.D
Operator :
Acquired : 9 Jan 2015 19:29 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109B-2
Misc Info : V2-36-23,V2-36-22
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150109\0109031.D\FID1A.CH Vial: 31
Signal #2 : d:\btex\DATA\D150109\0109031.D\FID2B.CH
Acq On : 10 Jan 2015 3:15 Operator:
Sample : CCVD0109B-3 Inst : Daryl
Misc : V2-36-22,V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 10 3:43 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	3143215	45.334	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1822325	44.952	PPB
11)	S	FLUOROBENZENE #2	6.92	8563375	38.604	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11317137	37.768	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	29128145	0.585	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	46171175	0.696	PPM
3)	H	GASOLINE (9-24-14)	13.51	30794574	0.758	PPM
7)	H	entire GAS envelope #2 (9-	12.26	108245224	0.705	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	78074584	0.652	PPM
9)		MTBE #2	4.63	4147940	56.757	PPB
10)		BENZENE #2	6.68	14385040	48.973	PPB
12)		TOLUENE #2	9.06	13522179	48.480	PPB
13)		ETHYLBENZENE #2	11.03	11858225	48.171	PPB
14)		m,p-XYLENE #2	11.29	14136348	48.188	PPB
15)		o-XYLENE #2	11.78	11891975	47.262	PPB

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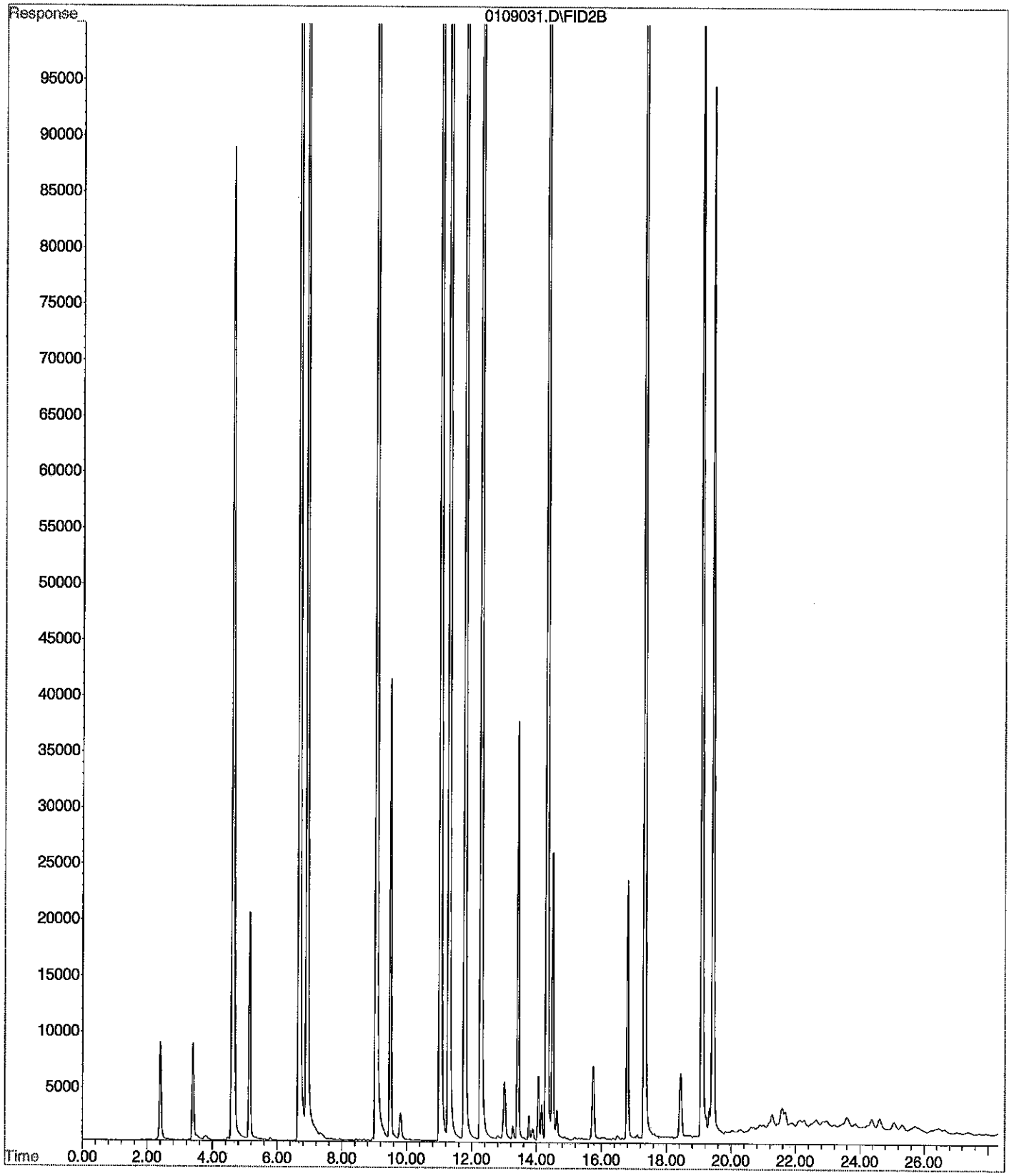
File : X:\BTEX\DARYL\DATA\D150109\0109031.D
Operator :
Acquired : 10 Jan 2015 3:15 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0109B-3
Misc Info : V2-36-22,V2-36-23
Vial Number: 31



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0108-T11.D
Sample : 01-035-01

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 20:09
Operator : ZT
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 20:44:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl (04-01-14)	14.670	127516181	44.325 PPM
Spiked Amount	50.000		Recovery =	88.65%
	Target Compounds			
2) H	Gasoline	3.500	11285884	NoCal PPM
3) H	Diesel Fuel #1 (12-0...	10.000	17616860	3.097 PPM
4) H	Diesel Fuel #2 (12-0...	14.000	15449601	3.780 PPM
5) H	Oil (11-04-14)	22.000	51393562	12.768 PPM
6) H	Oil Acid Clean (11-...	22.000	51393562	2.249 PPM
7) H	Diesel Fuel #2 Combo ...	14.000	14667669	3.790 PPM
8) H	Oil Combo (11-04-14)	22.000	50385152	12.501 PPM
9) H	Oil Acid Clean Combo ...	22.000	50385152	1.709 PPM
10) H	Alaska 102 DF2	13.025	15677928	NoCal PPM
11) H	Alaska 103 Oil	20.000	22218698	NoCal PPM
12) H	Mineral Oil (12-08-14)	16.000	12201618	2.865 PPM
13) H	Mineral Oil Combo (1...	16.000	9682862	2.725 PPM
14) H	Oil MO Combo (11-04-14)	22.000	49719176	12.604 PPM
15) H	Oil Acid Clean MO Com...	22.000	49719176	1.438 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

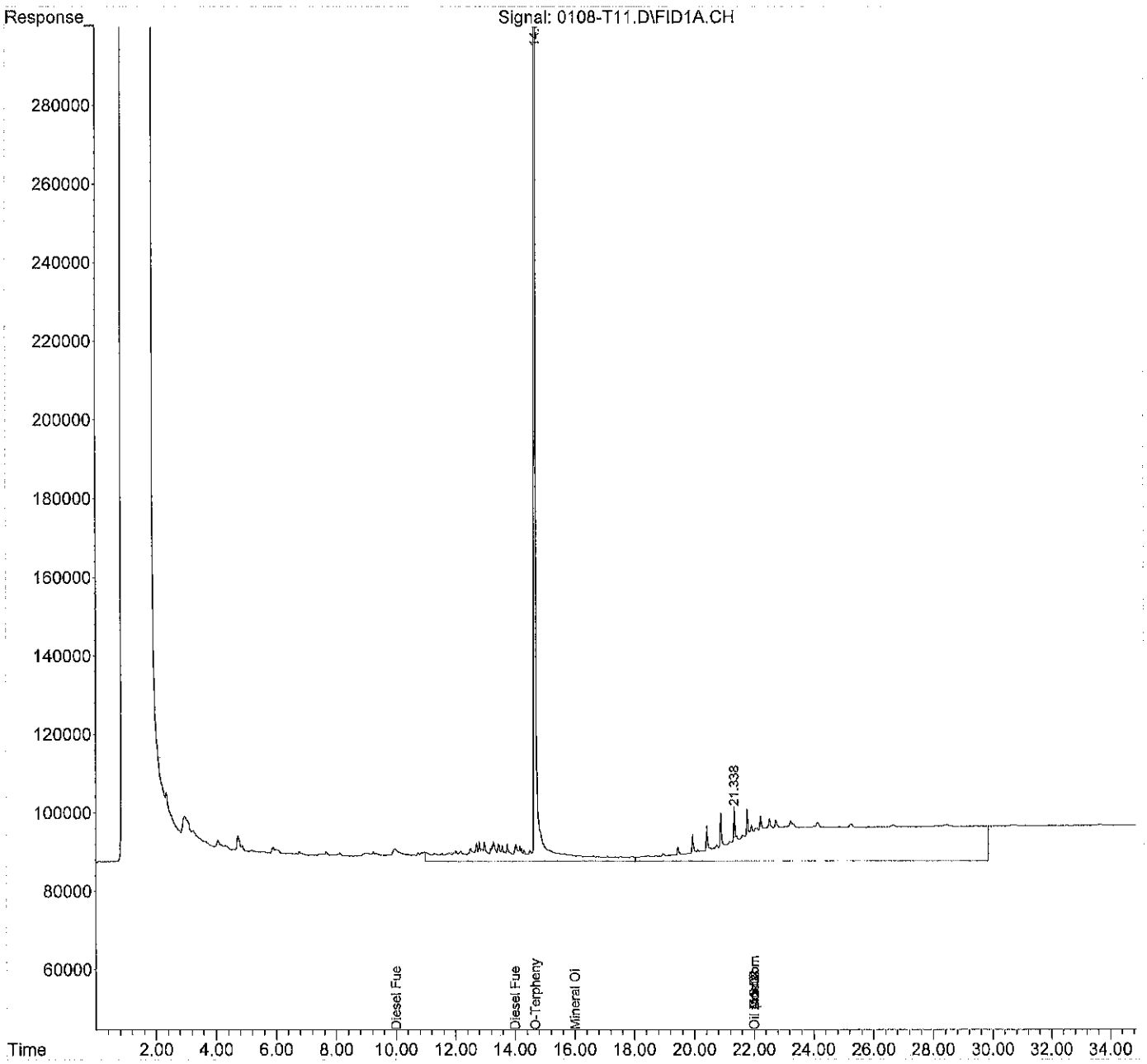
Quantitation Report (Not Reviewed)

Data File : 0108-T11.D
Sample : 01-035-01

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 20:09
Operator : ZT
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 20:44:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T12.D
Sample : 01-035-02

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 20:51
Operator : ZT
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 21:25:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.671	137483576	47.771	PPM
Spiked Amount	50.000		Recovery =	95.54%	
	Target Compounds				
2) H	Gasoline	3.500	11725507	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	18843488	3.616	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	16995221	4.467	PPM
5) H	Oil (11-04-14)	22.000	51603902	12.871	PPM
6) H	Oil Acid Clean (11-...	22.000	51603902	2.366	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	15983155	4.385	PPM
8) H	Oil Combo (11-04-14)	22.000	50306373	12.461	PPM
9) H	Oil Acid Clean Combo ...	22.000	50306373	1.665	PPM
10) H	Alaska 102 DF2	13.025	17276871	NoCal	PPM
11) H	Alaska 103 Oil	20.000	22144438	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	13916204	3.547	PPM
13) H	Mineral Oil Combo (1...	16.000	11063838	3.292	PPM
14) H	Oil MO Combo (11-04-14)	22.000	49441081	12.458	PPM
15) H	Oil Acid Clean MO Com...	22.000	49441081	1.276	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

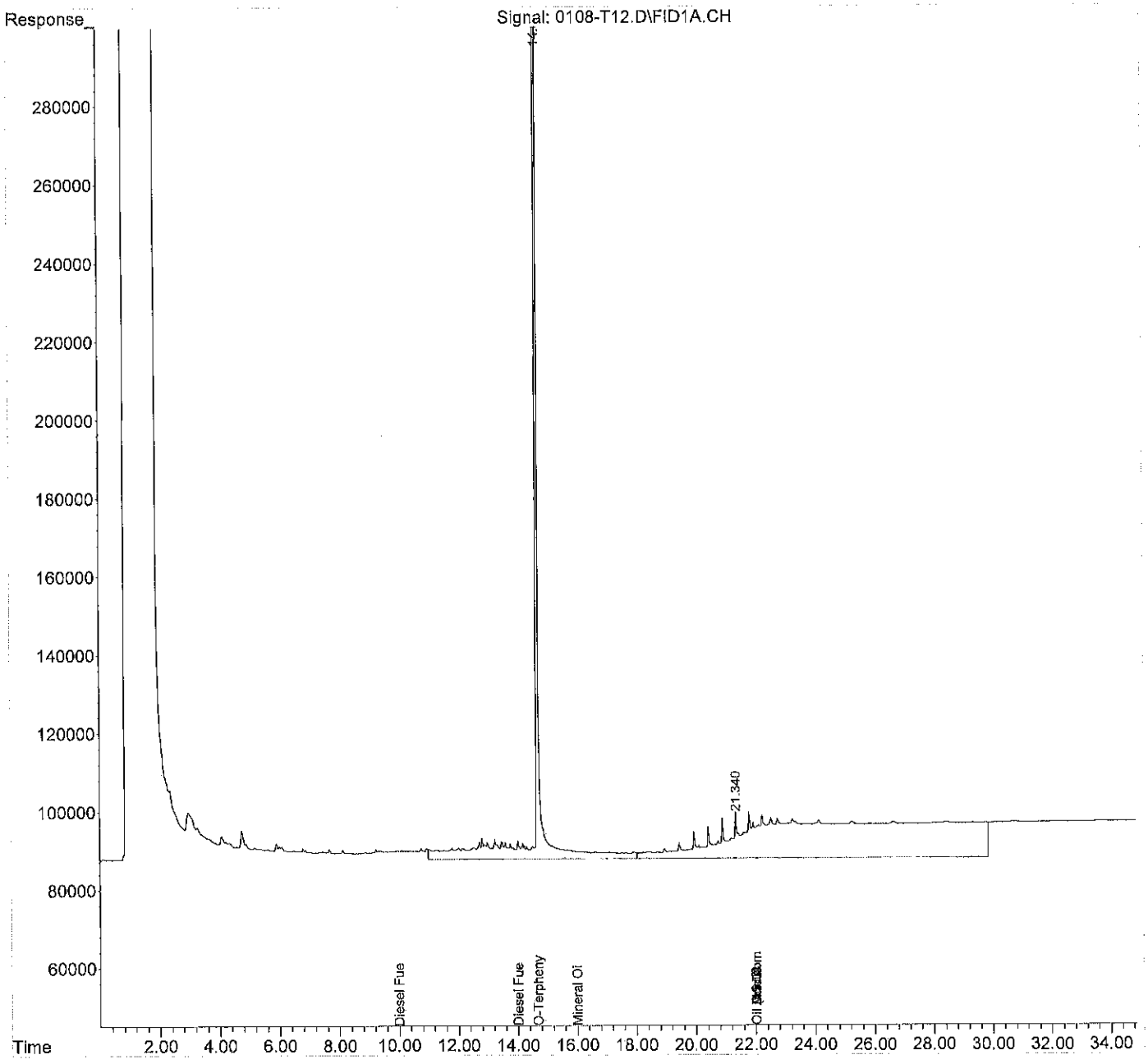
Quantitation Report (Not Reviewed)

Data File : 0108-T12.D
Sample : 01-035-02

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 20:51
Operator : ZT
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 21:25:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T13.D
Sample : 01-035-03

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 21:33
Operator : ZT
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 22:08:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.671	142886921	49.639	PPM
Spiked Amount	50.000		Recovery =	99.28%	
	Target Compounds				
2) H	Gasoline	3.500	11154377	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	23711873	5.675	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	24680937	7.886	PPM
5) H	Oil (11-04-14)	22.000	58532489	16.277	PPM
6) H	Oil Acid Clean (11-...	22.000	58532489	6.198	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	22357223	7.266	PPM
8) H	Oil Combo (11-04-14)	22.000	55886569	15.271	PPM
9) H	Oil Acid Clean Combo ...	22.000	55886569	4.816	PPM
10) H	Alaska 102 DF2	13.025	25344334	NoCal	PPM
11) H	Alaska 103 Oil	20.000	26097073	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	22404153	6.925	PPM
13) H	Mineral Oil Combo (1...	16.000	17308921	5.854	PPM
14) H	Oil MO Combo (11-04-14)	22.000	53912706	14.798	PPM
15) H	Oil Acid Clean MO Com...	22.000	53912706	3.885	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

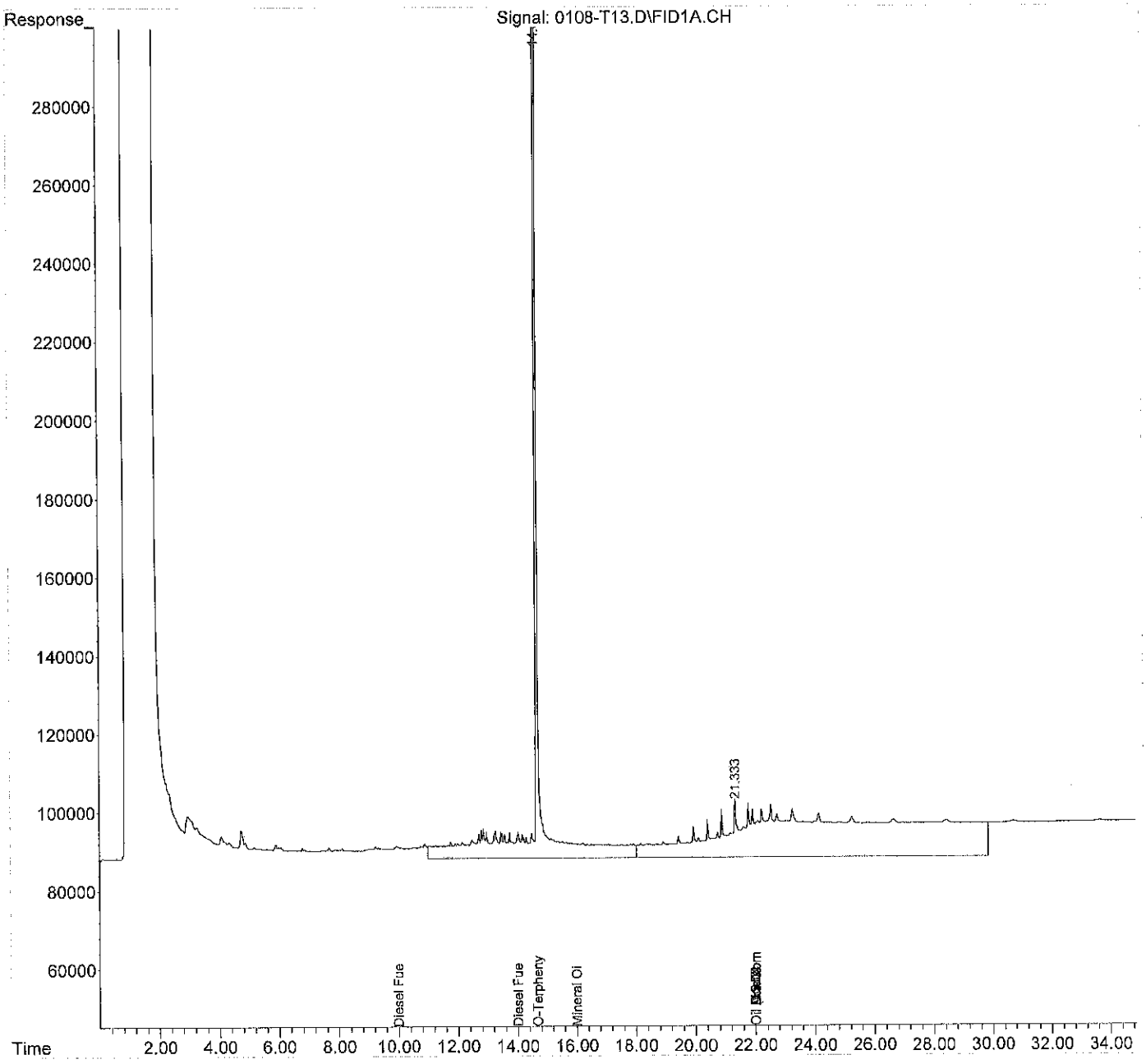
Quantitation Report (Not Reviewed)

Data File : 0108-T13.D
Sample : 01-035-03

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 21:33
Operator : ZT
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 22:08:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T14.D
Sample : 01-035-04

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 22:15
Operator : ZT
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 22:50:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.673	152184298	52.853	PPM
Spiked Amount	50.000		Recovery =	105.71%	
	Target Compounds				
2) H	Gasoline	3.500	12021121	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	15080657	2.025	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	13248391	2.801	PPM
5) H	Oil (11-04-14)	22.000	49916845	12.042	PPM
6) H	Oil Acid Clean (11-...	22.000	49916845	1.433	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	12117977	2.638	PPM
8) H	Oil Combo (11-04-14)	22.000	48592809	11.599	PPM
9) H	Oil Acid Clean Combo ...	22.000	48592809	0.697	PPM
10) H	Alaska 102 DF2	13.025	13566286	NoCal	PPM
11) H	Alaska 103 Oil	20.000	21339559	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	11859397	2.729	PPM
13) H	Mineral Oil Combo (1...	16.000	8922932	2.414	PPM
14) H	Oil MO Combo (11-04-14)	22.000	47630740	11.511	PPM
15) H	Oil Acid Clean MO Com...	22.000	47630740	0.219	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

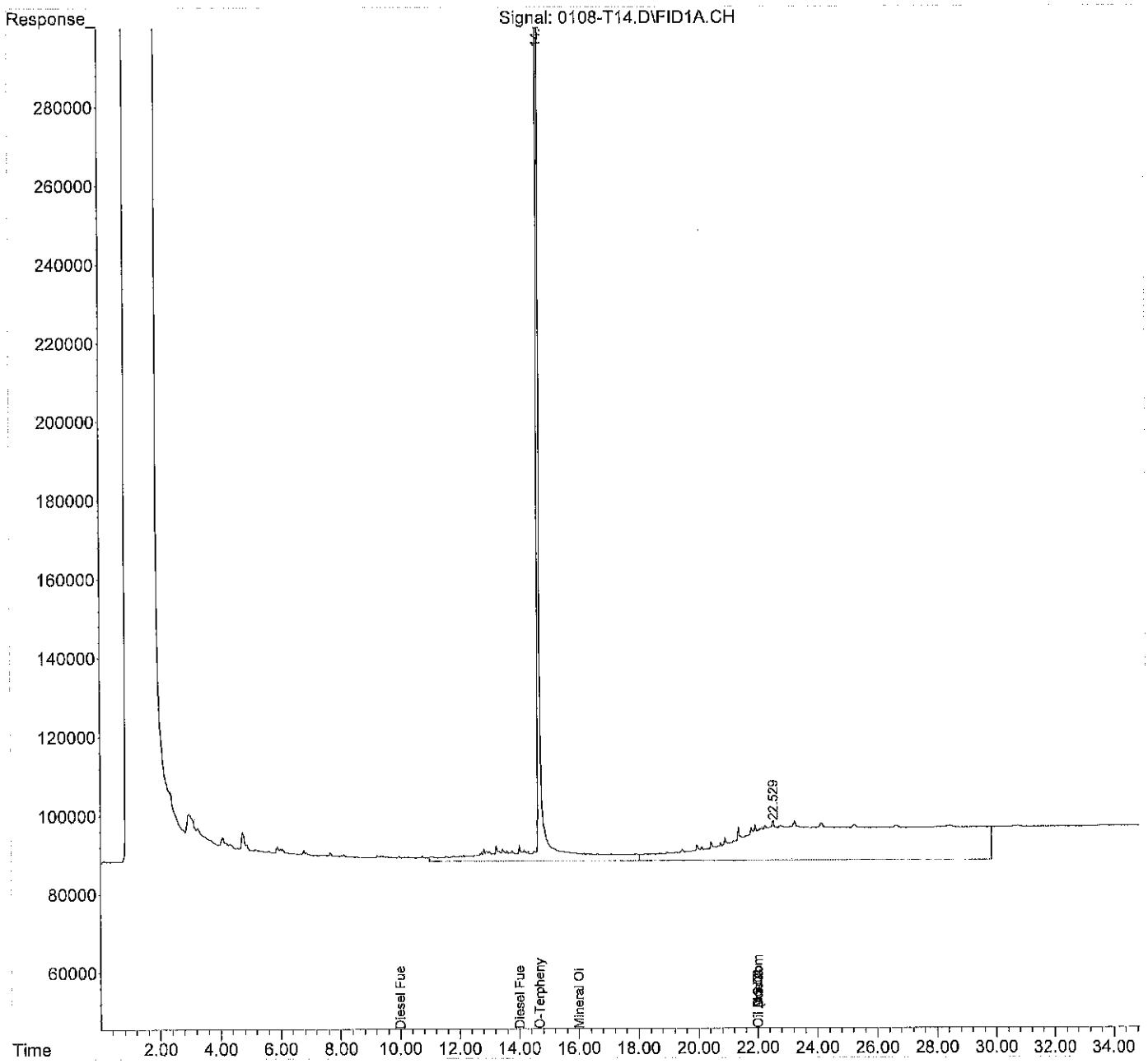
Quantitation Report (Not Reviewed)

Data File : 0108-T14.D
Sample : 01-035-04

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 22:15
Operator : ZT
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 22:50:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T05.D
Sample : MB0108S1 ACU

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 15:55
Operator : ZT
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 16:30:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.678	145828443	50.656	PPM
Spiked Amount	50.000		Recovery =	101.31%	
	Target Compounds				
2) H	Gasoline	3.500	10999863	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	18996927	3.681	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	18882825	5.307	PPM
5) H	Oil (11-04-14)	22.000	65566041	19.734	PPM
6) H	Oil Acid Clean (11-...	22.000	65566041	10.088	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	17160372	4.917	PPM
8) H	Oil Combo (11-04-14)	22.000	63536793	19.122	PPM
9) H	Oil Acid Clean Combo ...	22.000	63536793	9.135	PPM
10) H	Alaska 102 DF2	13.025	19403521	NoCal	PPM
11) H	Alaska 103 Oil	20.000	28937190	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	17348394	4.913	PPM
13) H	Mineral Oil Combo (1...	16.000	12914192	4.051	PPM
14) H	Oil MO Combo (11-04-14)	22.000	62075514	19.068	PPM
15) H	Oil Acid Clean MO Com...	22.000	62075514	8.649	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

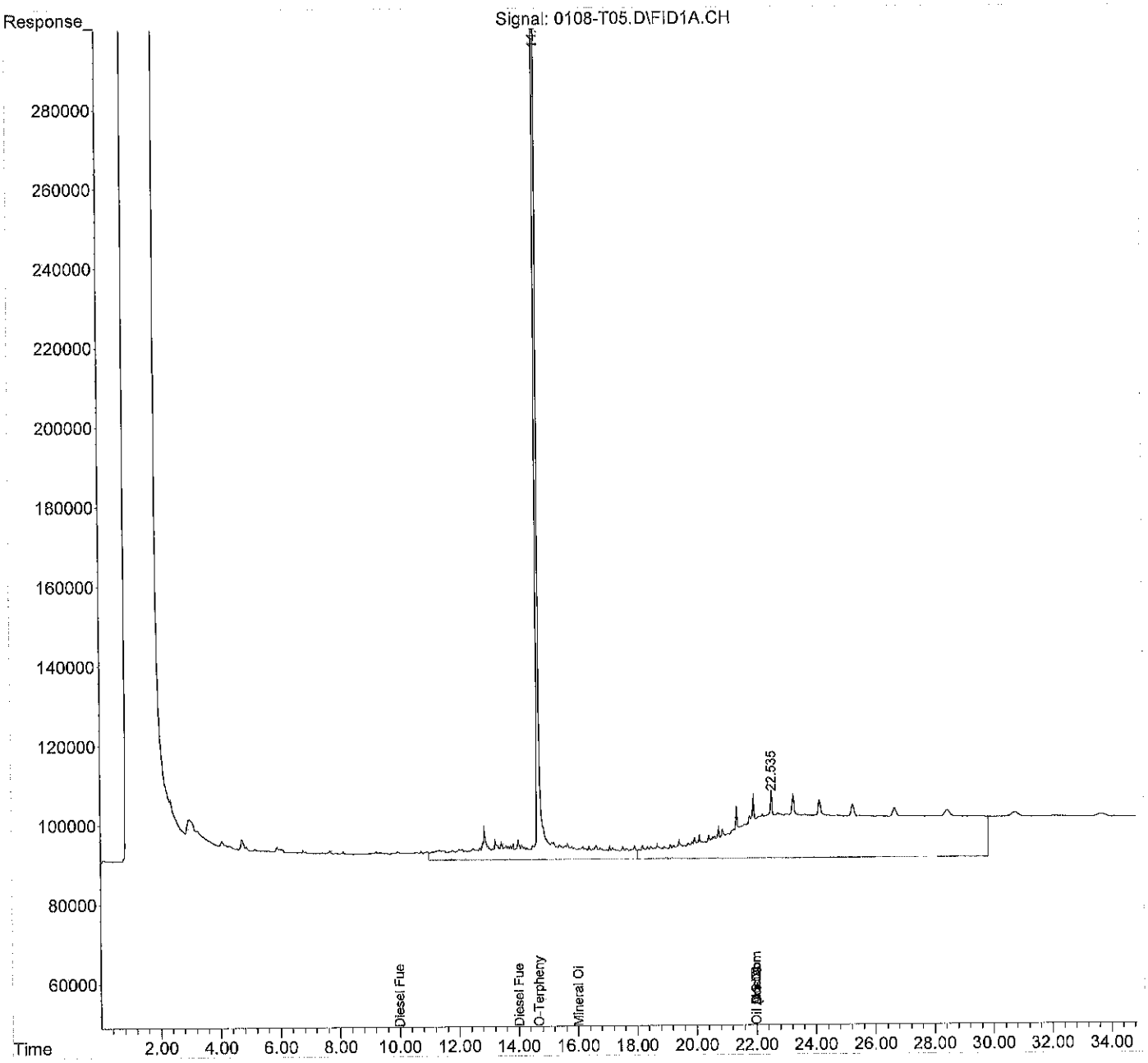
Quantitation Report (Not Reviewed)

Data File : 0108-T05.D
Sample : MB0108S1 ACU

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 15:55
Operator : ZT
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 16:30:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T08.D
Sample : 01-021-05

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 18:02
Operator : ZT
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 18:37:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.669	116098467	40.378	PPM
Spiked Amount	50.000		Recovery =	80.76%	
	Target Compounds				
2) H	Gasoline	3.500	14525370	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	15464861	2.187	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	13767154	3.032	PPM
5) H	Oil (11-04-14)	22.000	56668111	15.360	PPM
6) H	Oil Acid Clean (11-...	22.000	56668111	5.167	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	11700145	2.449	PPM
8) H	Oil Combo (11-04-14)	22.000	55394274	15.023	PPM
9) H	Oil Acid Clean Combo ...	22.000	55394274	4.538	PPM
10) H	Alaska 102 DF2	13.025	14078050	NoCal	PPM
11) H	Alaska 103 Oil	20.000	25145231	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	12123699	2.834	PPM
13) H	Mineral Oil Combo (1...	16.000	8966356	2.431	PPM
14) H	Oil MO Combo (11-04-14)	22.000	53498531	14.581	PPM
15) H	Oil Acid Clean MO Com...	22.000	53498531	3.644	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

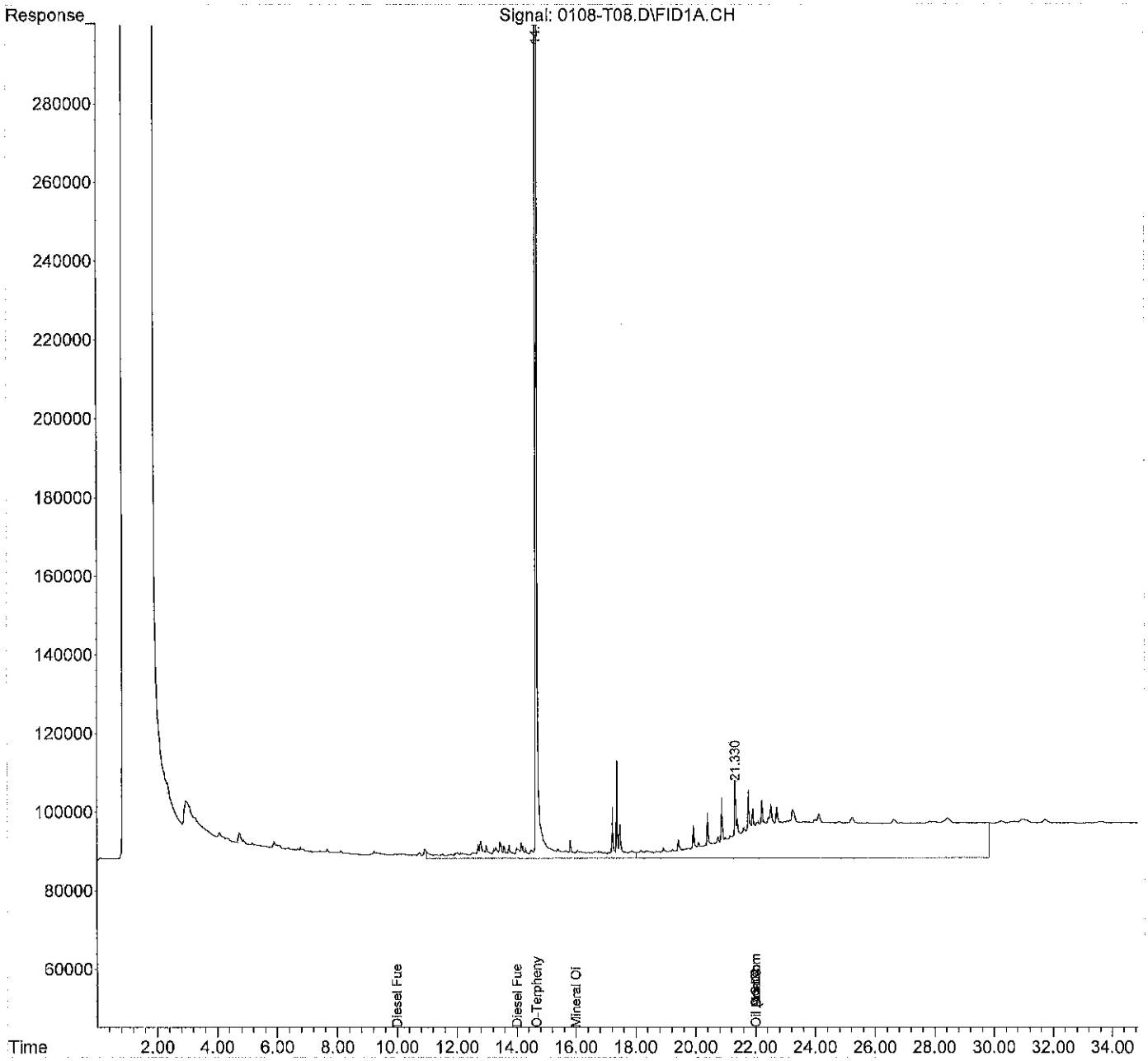
Quantitation Report (Not Reviewed)

Data File : 0108-T08.D
Sample : 01-021-05

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 18:02
Operator : ZT
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 18:37:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T09.D
Sample : 01-021-05 DUP

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 18:44
Operator : ZT
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 19:19:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.671	127082551	44.175	PPM
Spiked Amount	50.000		Recovery =	88.35%	
	Target Compounds				
2) H	Gasoline	3.500	15206593	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	17921523	3.226	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	16548499	4.269	PPM
5) H	Oil (11-04-14)	22.000	58361846	16.193	PPM
6) H	Oil Acid Clean (11-...	22.000	58361846	6.103	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	14167202	3.564	PPM
8) H	Oil Combo (11-04-14)	22.000	56581694	15.621	PPM
9) H	Oil Acid Clean Combo ...	22.000	56581694	5.208	PPM
10) H	Alaska 102 DF2	13.025	16938366	NoCal	PPM
11) H	Alaska 103 Oil	20.000	25271794	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	14244573	3.678	PPM
13) H	Mineral Oil Combo (1...	16.000	10654083	3.124	PPM
14) H	Oil MO Combo (11-04-14)	22.000	54427182	15.067	PPM
15) H	Oil Acid Clean MO Com...	22.000	54427182	4.186	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

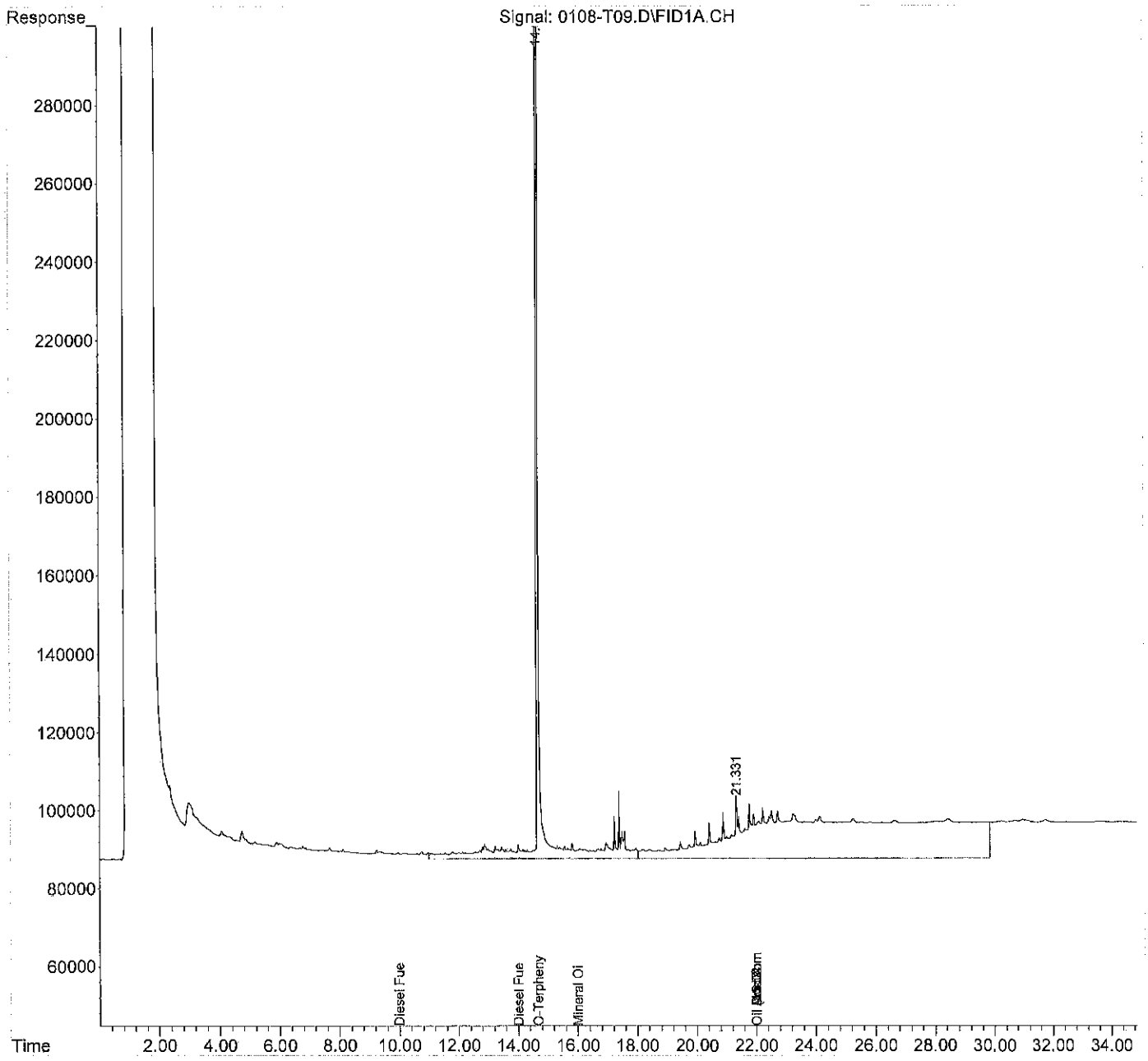
Quantitation Report (Not Reviewed)

Data File : 0108-T09.D
Sample : 01-021-05 DUP

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 18:44
Operator : ZT
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 19:19:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T01.D
Sample : CCV0108F-T1

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 10:59
Operator : ZT
Misc : SV3-11-24
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 11:34:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	36273031	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	233412118	94.375	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	231729650	99.975	PPM
5) H	Oil (11-04-14)	22.000	82693529	28.152	PPM
6) H	Oil Acid Clean (11-...	22.000	82693529	19.560	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	227282950	99.896	PPM
8) H	Oil Combo (11-04-14)	22.000	71237174	22.999	PPM
9) H	Oil Acid Clean Combo ...	22.000	71237174	13.483	PPM
10) H	Alaska 102 DF2	13.025	232262479	NoCal	PPM
11) H	Alaska 103 Oil	20.000	30257474	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	149262545	57.398	PPM
13) H	Mineral Oil Combo (1...	16.000	144925912	58.207	PPM
14) H	Oil MO Combo (11-04-14)	22.000	67212702	21.756	PPM
15) H	Oil Acid Clean MO Com...	22.000	67212702	11.647	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

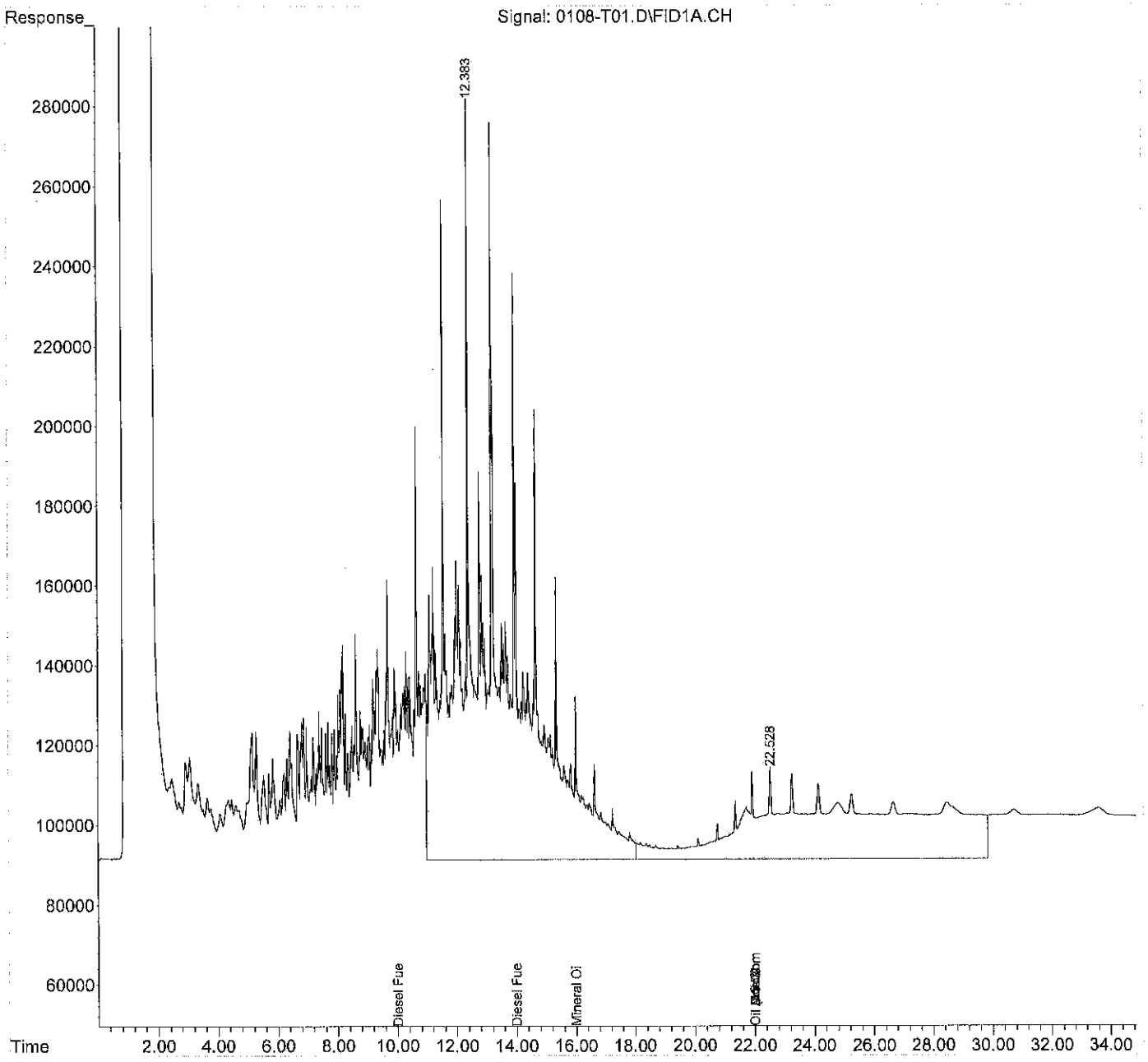
Quantitation Report (Not Reviewed)

Data File : 0108-T01.D
Sample : CCV0108F-T1

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 10:59
Operator : ZT
Misc : SV3-11-24
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 11:34:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T10.D
Sample : CCV0108F-T2

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 19:26
Operator : ZT
Misc : SV3-11-24
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 20:01:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	36151626	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	228963982	92.494	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	227229687	97.974	PPM
5) H	Oil (11-04-14)	22.000	65305266	19.606	PPM
6) H	Oil Acid Clean (11-...	22.000	65305266	9.943	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	222938986	97.932	PPM
8) H	Oil Combo (11-04-14)	22.000	54016781	14.329	PPM
9) H	Oil Acid Clean Combo ...	22.000	54016781	3.760	PPM
10) H	Alaska 102 DF2	13.025	227717116	NoCal	PPM
11) H	Alaska 103 Oil	20.000	21672410	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	146520020	56.307	PPM
13) H	Mineral Oil Combo (1...	16.000	142857433	57.359	PPM
14) H	Oil MO Combo (11-04-14)	22.000	50112421	12.810	PPM
15) H	Oil Acid Clean MO Com...	22.000	50112421	1.667	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

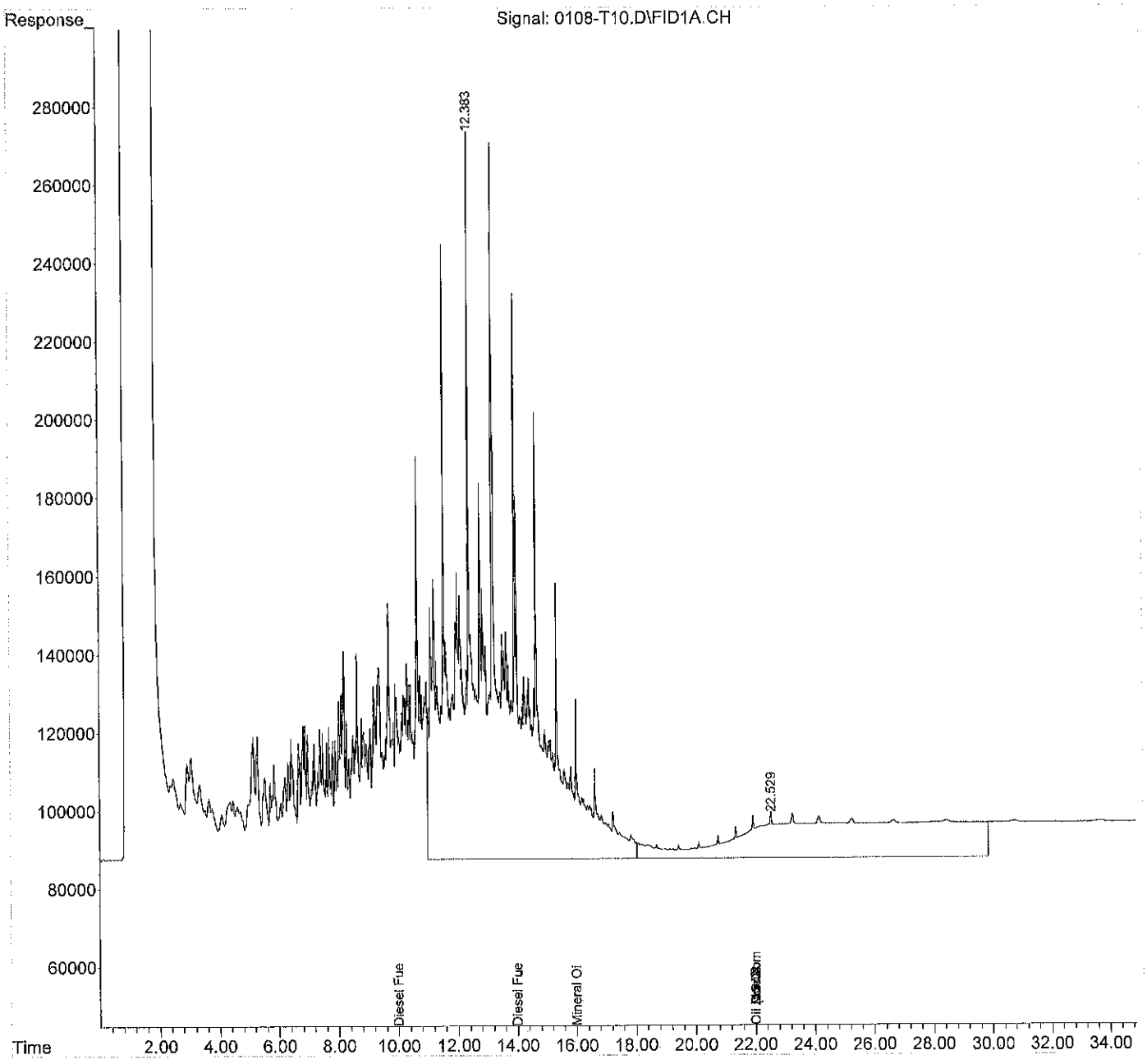
Quantitation Report (Not Reviewed)

Data File : 0108-T10.D
Sample : CCV0108F-T2

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 08 Jan 2015 19:26
Operator : ZT
Misc : SV3-11-24
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 20:01:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0108-T19.D
Sample : CCV0108F-T3

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 09 Jan 2015 1:45
Operator : ZT
Misc : SV3-11-24
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 09 02:20:41 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	33840482	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	233072560	94.232	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	235497384	101.651	PPM
5) H	Oil (11-04-14)	22.000	164938148	68.576	PPM
6) H	Oil Acid Clean (11-...	22.000	164938148	65.046	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	229391617	100.849	PPM
8) H	Oil Combo (11-04-14)	22.000	152150365	63.733	PPM
9) H	Oil Acid Clean Combo ...	22.000	152150365	59.167	PPM
10) H	Alaska 102 DF2	13.025	236689339	NoCal	PPM
11) H	Alaska 103 Oil	20.000	69013707	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	160107852	61.713	PPM
13) H	Mineral Oil Combo (1...	16.000	149944410	60.266	PPM
14) H	Oil MO Combo (11-04-14)	22.000	146758434	63.371	PPM
15) H	Oil Acid Clean MO Com...	22.000	146758434	58.070	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

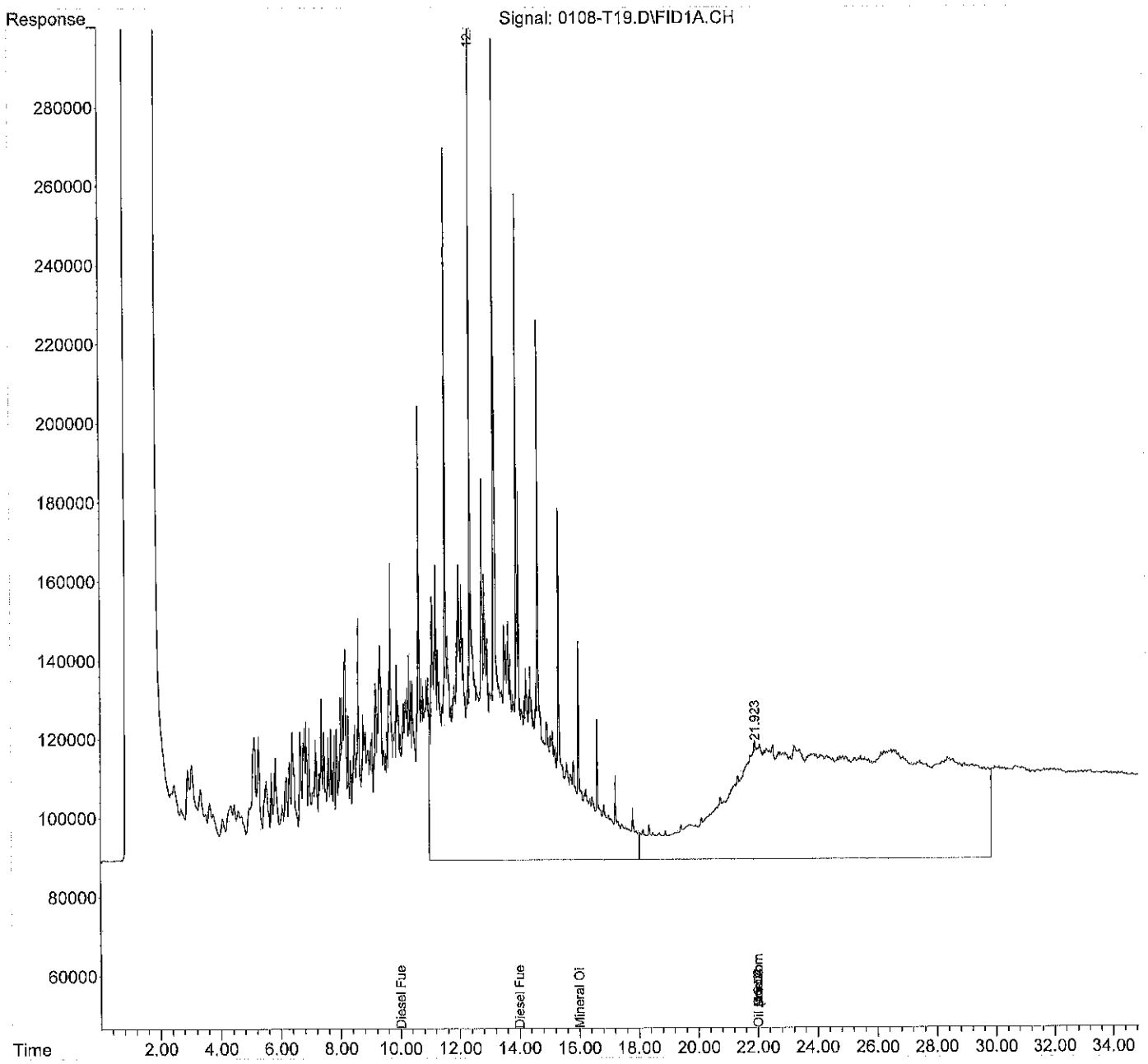
Quantitation Report (Not Reviewed)

Data File : 0108-T19.D
Sample : CCV0108F-T3

Data Path : X:\DIESELS\TERI\DATA\T150108\
Signal(s) : FID1A.CH
Acq On : 09 Jan 2015 1:45
Operator : ZT
Misc : SV3-11-24
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 09 02:20:41 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109019.D
Acq On : 9 Jan 2015 4:48 pm
Operator :
Sample : 01-035-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 09 17:03:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.152	136	197087	2000.00	ppb	0.00
6) Acenaphthene-d10	5.399	164	95512	2000.00	ppb	0.00
10) Phenanthrene-d10	6.402	188	171339	2000.00	ppb	0.00
17) Chrysene-d12	8.535	240	170149	2000.00	ppb	0.00
21) Perylene-d12	10.000	264	164572	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	19751	824.84	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 82.48%			
7) 2-Fluorobiphenyl	4.939	172	57797	849.03	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 84.90%			
11) Pyrene-d10	7.415	212	56637	781.18	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 78.12%			
18) Terphenyl-d14	7.583	244	46943	813.33	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 81.33%			
Target Compounds						Qvalue
3) Naphthalene	4.169	128	12040	97.43	ppb	100
4) 2-Methylnaphthalene	4.662	142	839	10.55	ppb	100
5) 1-Methylnaphthalene	4.736	142	11456	157.26	ppb	100
8) Acenaphthylene	5.291	152	2641	22.94	ppb	100
9) Acenaphthene	5.422	153	3579	47.36	ppb	100
12) Fluorene	5.769	166	1187	14.80	ppb	100
13) Phenanthrene	6.414	178	3340	28.95	ppb	100
14) Anthracene	6.445	178	991	15.38	ppb	100
15) Fluoranthene	7.252	202	2188	20.70	ppb	100
16) Pyrene	7.426	202	2545	22.56	ppb	100
19) Benzo[a]anthracene	8.535	228	726	8.55	ppb	100
20) Chrysene	8.559	228	269	2.86	ppb	100
22) Benzo[b]fluoranthene	9.617	252	157	1.66	ppb	100
23) Benzo(j,k)fluoranthene	9.637	252	108	1.18	ppb	100
24) Benzo[a]pyrene	9.937	252	144	1.69	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.031	276	107	1.04	ppb	100
26) Dibenz[a,h]anthracene	11.063	278	55	0.64	ppb	100
27) Benzo[g,h,i]perylene	11.297	276	184	2.07	ppb	100

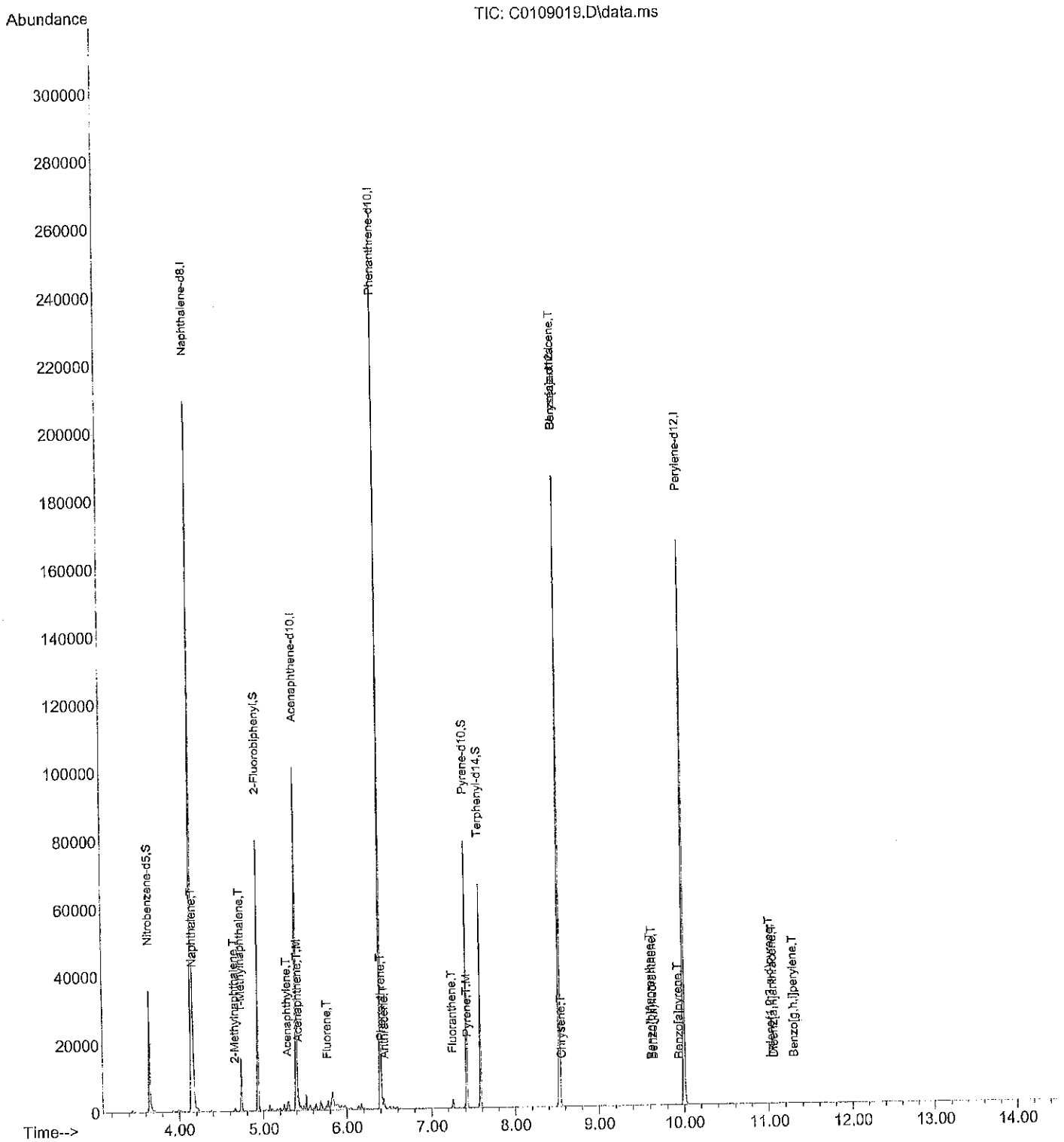
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15
SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109019.D
Acq On : 9 Jan 2015 4:48 pm
Operator :
Sample : 01-035-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 09 17:03:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109020.D
Acq On : 9 Jan 2015 5:10 pm
Operator :
Sample : 01-035-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 09 17:25:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.157	136	200973	2000.00	ppb	0.00
6) Acenaphthene-d10	5.399	164	97572	2000.00	ppb	0.00
10) Phenanthrene-d10	6.402	188	170139	2000.00	ppb	0.00
17) Chrysene-d12	8.539	240	168742	2000.00	ppb	0.00
21) Perylene-d12	9.999	264	163907	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.646	82	18834	771.33	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 77.13%			
7) 2-Fluorobiphenyl	4.940	172	54435	782.76	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 78.28%			
11) Pyrene-d10	7.415	212	53337	740.86	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 74.09%			
18) Terphenyl-d14	7.583	244	44396	775.62	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 77.56%			
Target Compounds						Qvalue
3) Naphthalene	4.168	128	17302	137.30	ppb	100
4) 2-Methylnaphthalene	4.659	142	1449	17.86	ppb	100
5) 1-Methylnaphthalene	4.737	142	16794	226.08	ppb	100
8) Acenaphthylene	5.292	152	3982	33.86	ppb	100
9) Acenaphthene	5.423	153	6764	87.63	ppb	100
12) Fluorene	5.769	166	3106	39.01	ppb	100
13) Phenanthrene	6.414	178	5482	47.86	ppb	100
14) Anthracene	6.445	178	2270	35.47	ppb	100
15) Fluoranthene	7.252	202	3545	33.78	ppb	100
16) Pyrene	7.426	202	4420	39.46	ppb	100
19) Benzo[a]anthracene	8.519	228	463	~~5.50~~	ppb 10.27	100
20) Chrysene	8.559	228	453	4.86	ppb	100
22) Benzo[b]fluoranthene	9.617	252	351	3.72	ppb	100
23) Benzo(j,k)fluoranthene	9.~~617~~ 630	252	351	~~3.86~~	ppb 2.81	100
24) Benzo[a]pyrene	9.937	252	421	4.97	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.031	276	283	2.75	ppb	100
26) Dibenz[a,h]anthracene	11.058	278	60	0.71	ppb	100
27) Benzo[g,h,i]perylene	11.296	276	438	4.95	ppb	100

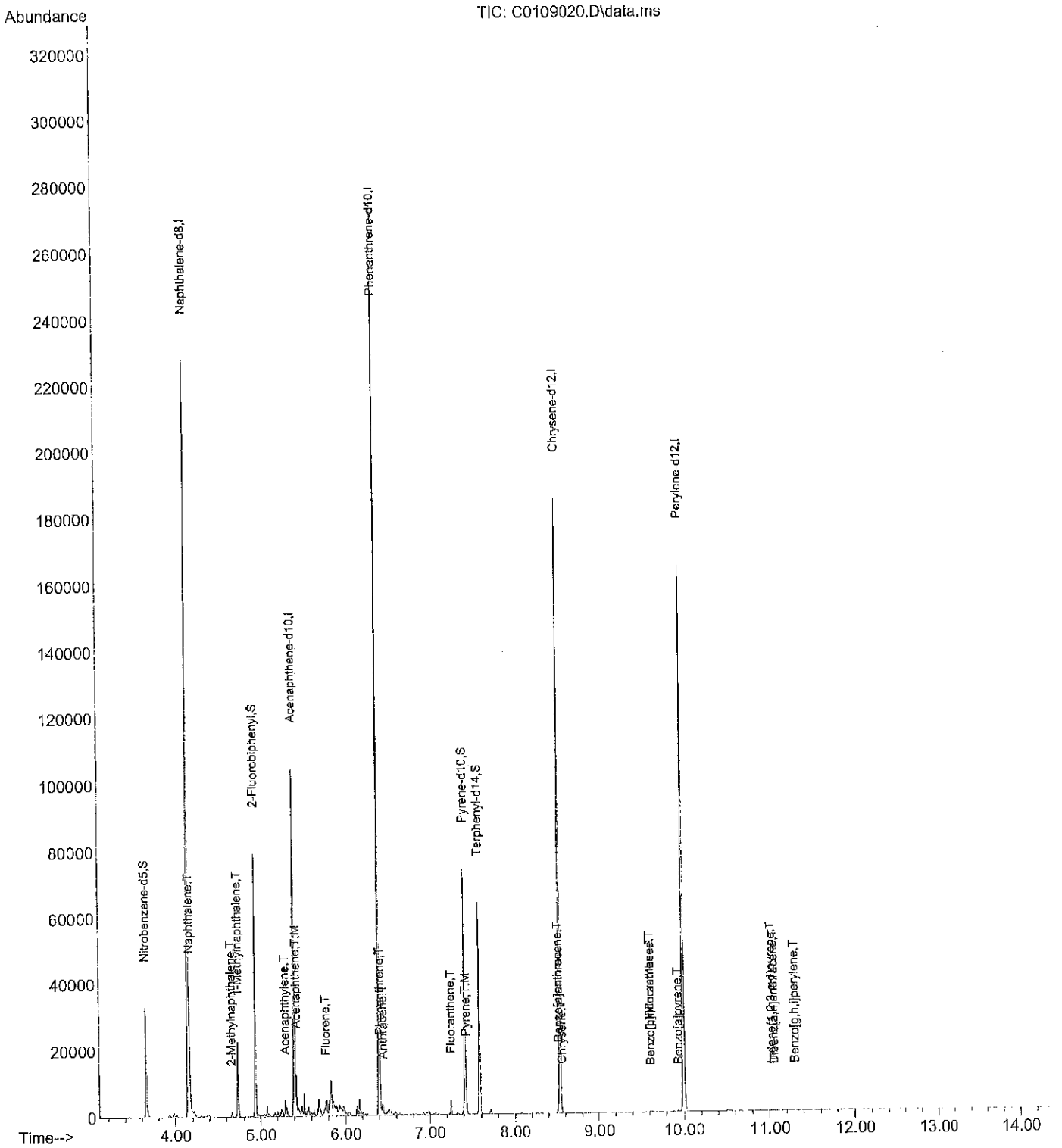
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15
SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109020.D
Acq On : 9 Jan 2015 5:10 pm
Operator :
Sample : 01-035-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 09 17:25:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109021.D
Acq On : 9 Jan 2015 5:31 pm
Operator :
Sample : 01-035-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 09 17:46:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

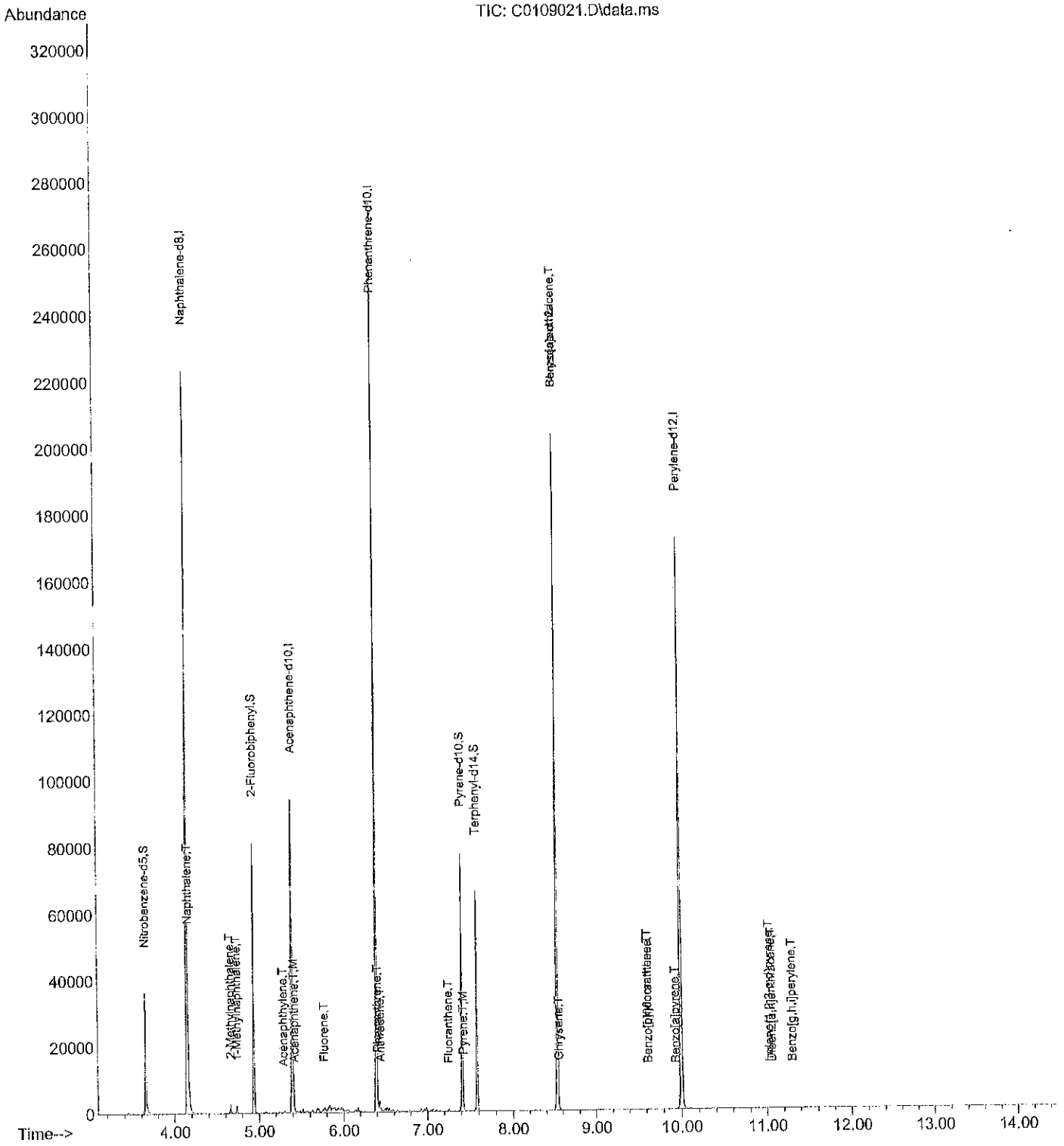
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.152	136	201191	2000.00	ppb	0.00
6) Acenaphthene-d10	5.407	164	98774	2000.00	ppb	0.00
10) Phenanthrene-d10	6.401	188	175708	2000.00	ppb	0.00
17) Chrysene-d12	8.534	240	175902	2000.00	ppb	0.00
21) Perylene-d12	10.001	264	170723	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	19369	792.38	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 79.24%			
7) 2-Fluorobiphenyl	4.941	172	56419	801.41	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 80.14%			
11) Pyrene-d10	7.415	212	56887	765.12	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 76.51%			
18) Terphenyl-d14	7.583	244	47339	793.37	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.34%			
Target Compounds						Qvalue
3) Naphthalene	4.163	128	2506	19.86	ppb	100
4) 2-Methylnaphthalene	4.660	142	2145	26.41	ppb	100
5) 1-Methylnaphthalene	4.738	142	1808	24.31	ppb	100
8) Acenaphthylene	5.291	152	411	3.45	ppb	100
9) Acenaphthene	5.422	153	772	9.88	ppb	100
12) Fluorene	5.769	166	1032	12.55	ppb	100
13) Phenanthrene	6.413	178	1109	9.37	ppb	100
14) Anthracene	6.444	178	992	15.01	ppb	100
15) Fluoranthene	7.252	202	446	4.11	ppb	100
16) Pyrene	7.426	202	1025	8.86	ppb	100
19) Benzo[a]anthracene	8.534	228	675	7.69	ppb	100
20) Chrysene	8.554	228	269	2.77	ppb	100
22) Benzo[b]fluoranthene	9.618	252	90	0.92	ppb	100
23) Benzo(j,k)fluoranthene	9.618	252	90	~~0.95 ppb~~		100
24) Benzo[a]pyrene	9.934	252	54	0.61	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.032	276	46	0.43	ppb	100
26) Dibenz[a,h]anthracene	11.059	278	33	0.37	ppb	100
27) Benzo[g,h,i]perylene	11.297	276	111	1.20	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15 SM

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109021.D
Acq On : 9 Jan 2015 5:31 pm
Operator :
Sample : 01-035-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 09 17:46:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109024.D
Acq On : 9 Jan 2015 6:37 pm
Operator :
Sample : 01-035-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 09 18:52:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.156	136	207939	2000.00	ppb	0.00
6) Acenaphthene-d10	5.399	164	100980	2000.00	ppb	0.00
10) Phenanthrene-d10	6.398	188	178203	2000.00	ppb	0.00
17) Chrysene-d12	8.535	240	178900	2000.00	ppb	0.00
21) Perylene-d12	10.001	264	174092	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.646	82	18412	728.79	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 72.88%			
7) 2-Fluorobiphenyl	4.940	172	55576	772.19	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 77.22%			
11) Pyrene-d10	7.414	212	59136	784.23	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 78.42%			
18) Terphenyl-d14	7.582	244	49695	818.90	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 81.89%			
Target Compounds						Qvalue
3) Naphthalene	4.168	128	308	2.36	ppb	100
4) 2-Methylnaphthalene	4.659	142	147	1.75	ppb	100
5) 1-Methylnaphthalene	4.737	142	110	1.43	ppb	100
8) Acenaphthylene	5.292	152	61	0.50	ppb	100
9) Acenaphthene	5.423	153	62	0.78	ppb	100
12) Fluorene	5.769	166	99	1.19	ppb	100
13) Phenanthrene	6.414	178	685	5.71	ppb	100
14) Anthracene	6.445	178	88	1.31	ppb	100
15) Fluoranthene	7.252	202	190	1.73	ppb	100
16) Pyrene	7.426	202	299	2.55	ppb	100
19) Benzo[a]anthracene	8.535	228	626	7.02	ppb	100
20) Chrysene	8.554	228	102	1.03	ppb	100
22) Benzo[b]fluoranthene	9.615	252	108	1.08	ppb	100
23) Benzo(j,k)fluoranthene	9.638	252	83	0.86	ppb	100
24) Benzo[a]pyrene	9.935	252	84	0.93	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.028	276	95	0.87	ppb	100
26) Dibenz[a,h]anthracene	11.060	278	93	1.03	ppb	100
27) Benzo[g,h,i]perylene	11.298	276	113	1.20	ppb	100

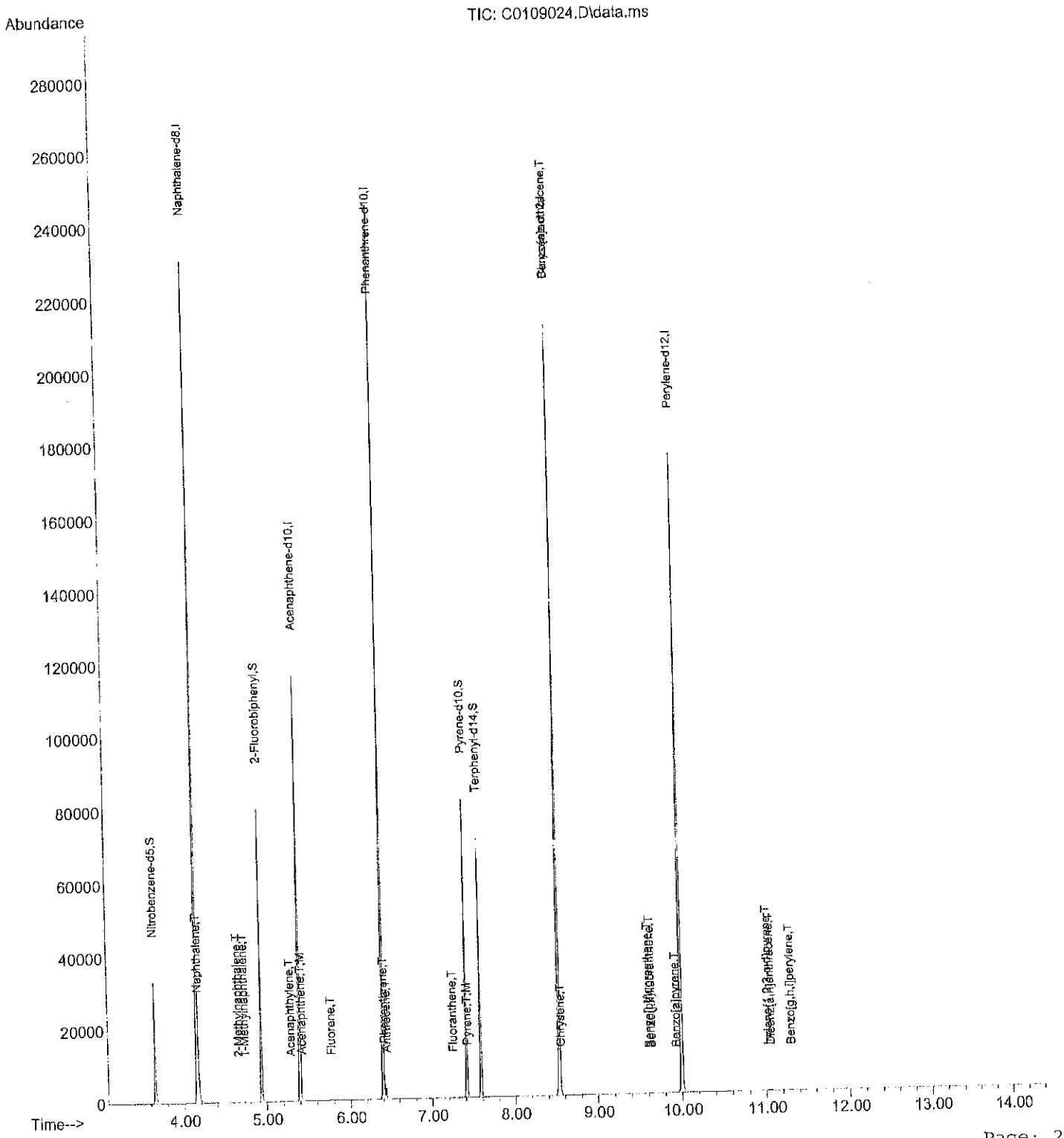
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15 gm

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109024.D
Acq On : 9 Jan 2015 6:37 pm
Operator :
Sample : 01-035-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 09 18:52:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109016.D
Acq On : 9 Jan 2015 3:42 pm
Operator :
Sample : MB0109S1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 09 15:57:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.153	136	189020	2000.00	ppb	0.00
6) Acenaphthene-d10	5.406	164	96274	2000.00	ppb	0.00
10) Phenanthrene-d10	6.405	188	169045	2000.00	ppb	0.00
17) Chrysene-d12	8.538	240	165146	2000.00	ppb	0.00
21) Perylene-d12	10.004	264	156144	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.648	82	23132	1007.26	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 100.73%#			
7) 2-Fluorobiphenyl	4.940	172	61193	891.80	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 89.18%#			
11) Pyrene-d10	7.421	212	63721	890.82	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 89.08%			
18) Terphenyl-d14	7.589	244	52537	937.83	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 93.78%#			
Target Compounds						Qvalue
3) Naphthalene	4.170	128	327	2.76	ppb	100
4) 2-Methylnaphthalene	4.663	142	114	1.49	ppb	100
5) 1-Methylnaphthalene	4.737	142	69	0.99	ppb	100
8) Acenaphthylene	5.290	152	158	1.36	ppb	100
9) Acenaphthene	5.445	153	116	1.52	ppb	100
12) Fluorene	5.760	166	105	1.33	ppb	100
13) Phenanthrene	6.417	178	603	5.30	ppb	100
14) Anthracene	6.448	178	55	0.87	ppb	100
15) Fluoranthene	7.258	202	88	0.84	ppb	100
16) Pyrene	7.421	202	212	1.90	ppb	100
19) Benzo[a]anthracene	8.538	228	546	6.63	ppb	100
20) Chrysene	8.561	228	55	0.60	ppb	100
22) Benzo[b]fluoranthene	9.622	252	80	0.89	ppb	100
23) Benzo(j,k)fluoranthene	9.645	252	69	0.80	ppb	100
24) Benzo[a]pyrene	9.938	252	67	0.83	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.035	276	111	1.13	ppb	100
26) Dibenz[a,h]anthracene	11.066	278	68	0.84	ppb	100
27) Benzo[g,h,i]perylene	11.300	276	77	0.91	ppb	100

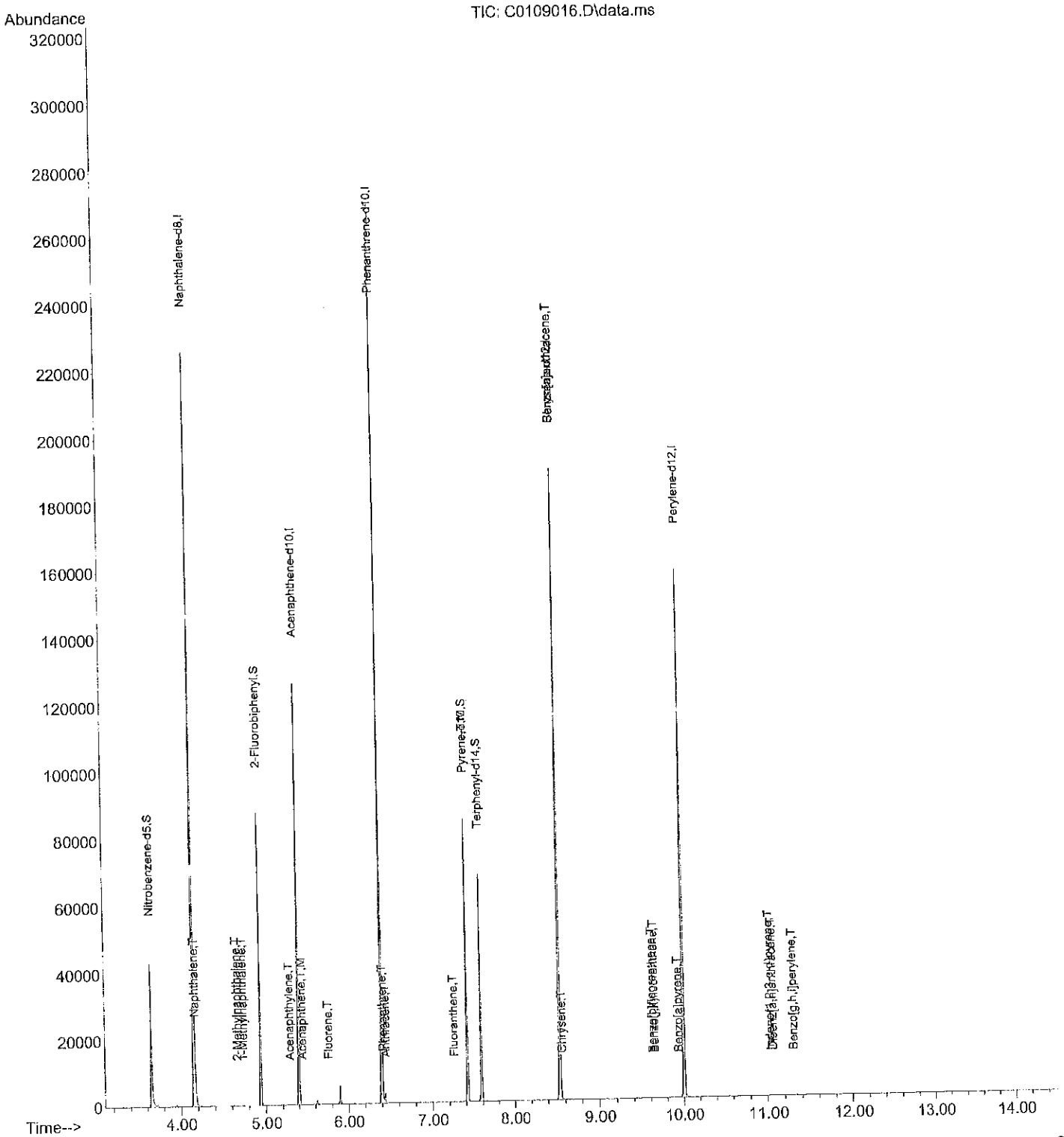
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15 EM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109016.D
Acq On : 9 Jan 2015 3:42 pm
Operator :
Sample : MB0109S1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 09 15:57:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109022.D
Acq On : 9 Jan 2015 5:53 pm
Operator :
Sample : 01-035-03 MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 09 18:08:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.152	136	202584	2000.00	ppb	0.00
6) Acenaphthene-d10	5.399	164	98366	2000.00	ppb	0.00
10) Phenanthrene-d10	6.398	188	170951	2000.00	ppb	0.00
17) Chrysene-d12	8.535	240	170339	2000.00	ppb	0.00
21) Perylene-d12	10.000	264	166215	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	19670	799.16	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 79.92%			
7) 2-Fluorobiphenyl	4.940	172	58910	840.27	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 84.03%			
11) Pyrene-d10	7.415	212	58245	805.19	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 80.52%			
18) Terphenyl-d14	7.584	244	48600	841.10	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 84.11%			
Target Compounds						Qvalue
3) Naphthalene	4.164	128	47721	375.68	ppb	100
4) 2-Methylnaphthalene	4.659	142	32530	397.83	ppb	100
5) 1-Methylnaphthalene	4.737	142	29975	400.32	ppb	100
8) Acenaphthylene	5.291	152	47807	403.29	ppb	100
9) Acenaphthene	5.422	153	30289	389.22	ppb	100
12) Fluorene	5.769	166	32041	400.49	ppb	100
13) Phenanthrene	6.414	178	44508	386.69	ppb	100
14) Anthracene	6.445	178	43269	672.95	ppb	100
15) Fluoranthene	7.253	202	44366	420.70	ppb	100
16) Pyrene	7.427	202	46387	412.16	ppb	100
19) Benzo[a]anthracene	8.515	228	41187	484.75	ppb	100
20) Chrysene	8.558	228	37066	393.69	ppb	100
22) Benzo[b]fluoranthene	9.618	252	39787	416.23	ppb	100
23) Benzo(j,k)fluoranthene	9.641	252	36249	393.33	ppb	100
24) Benzo[a]pyrene	9.934	252	36652	426.37	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.031	276	35564	~~340.75~~ 410.23	ppb	100
26) Dibenz[a,h]anthracene	11.062	278	35413	410.95	ppb	100
27) Benzo[g,h,i]perylene	11.296	276	35987	401.06	ppb	100

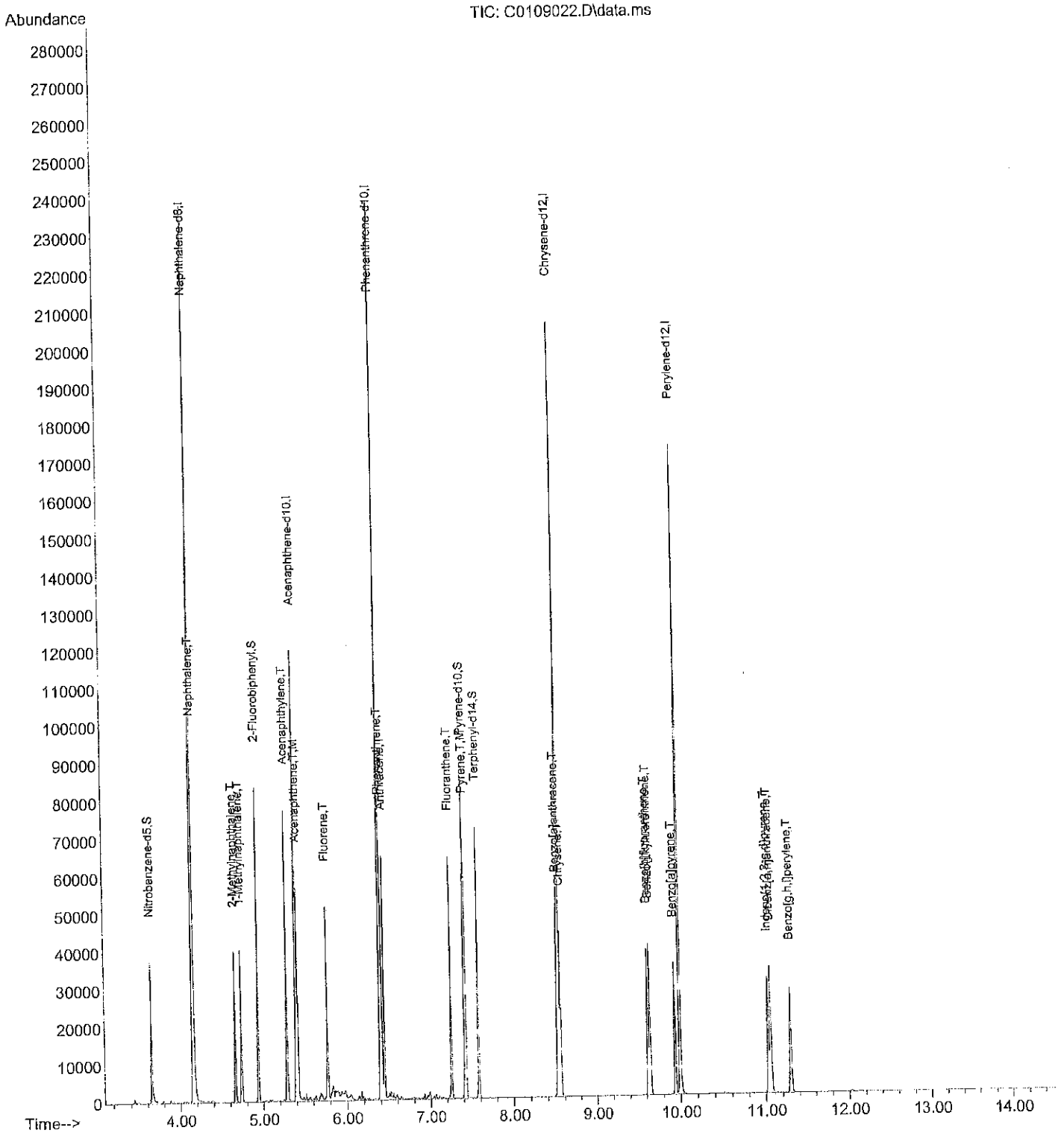
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15 EW

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109022.D
Acq On : 9 Jan 2015 5:53 pm
Operator :
Sample : 01-035-03 MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 09 18:08:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109023.D
Acq On : 9 Jan 2015 6:15 pm
Operator :
Sample : 01-035-03 MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 09 18:30:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.152	136	202189	2000.00	ppb	0.00
6) Acenaphthene-d10	5.399	164	98627	2000.00	ppb	0.00
10) Phenanthrene-d10	6.402	188	173642	2000.00	ppb	0.00
17) Chrysene-d12	8.534	240	174465	2000.00	ppb	0.00
21) Perylene-d12	10.001	264	170137	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	19236	783.06	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 78.31%			
7) 2-Fluorobiphenyl	4.941	172	57648	820.09	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 82.01%			
11) Pyrene-d10	7.416	212	58174	791.74	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 79.17%			
18) Terphenyl-d14	7.584	244	48517	819.81	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 81.98%			
Target Compounds						Qvalue
3) Naphthalene	4.163	128	46497	366.76	ppb	100
4) 2-Methylnaphthalene	4.660	142	31595	387.15	ppb	100
5) 1-Methylnaphthalene	4.734	142	29130	389.79	ppb	100
8) Acenaphthylene	5.291	152	46697	392.88	ppb	100
9) Acenaphthene	5.422	153	29601	379.37	ppb	100
12) Fluorene	5.769	166	31454	387.06	ppb	100
13) Phenanthrene	6.413	178	43677	373.59	ppb	100
14) Anthracene	6.445	178	42803	655.38	ppb	100
15) Fluoranthene	7.253	202	43709	408.05	ppb	100
16) Pyrene	7.427	202	45650	399.32	ppb	100
19) Benzo[a]anthracene	8.515	228	40801	468.85	ppb	100
20) Chrysene	8.558	228	36968	383.37	ppb	100
22) Benzo[b]fluoranthene	9.614	252	41002	419.06	ppb	100
23) Benzo(j,k)fluoranthene	9.642	252	34870	369.64	ppb	100
24) Benzo[a]pyrene	9.934	252	36625	416.23	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.031	276	35968	~~336.68~~ 403.2D	ppb	100
26) Dibenz[a,h]anthracene	11.059	278	35629	403.92	ppb	100
27) Benzo[g,h,i]perylene	11.297	276	36074	392.76	ppb	100

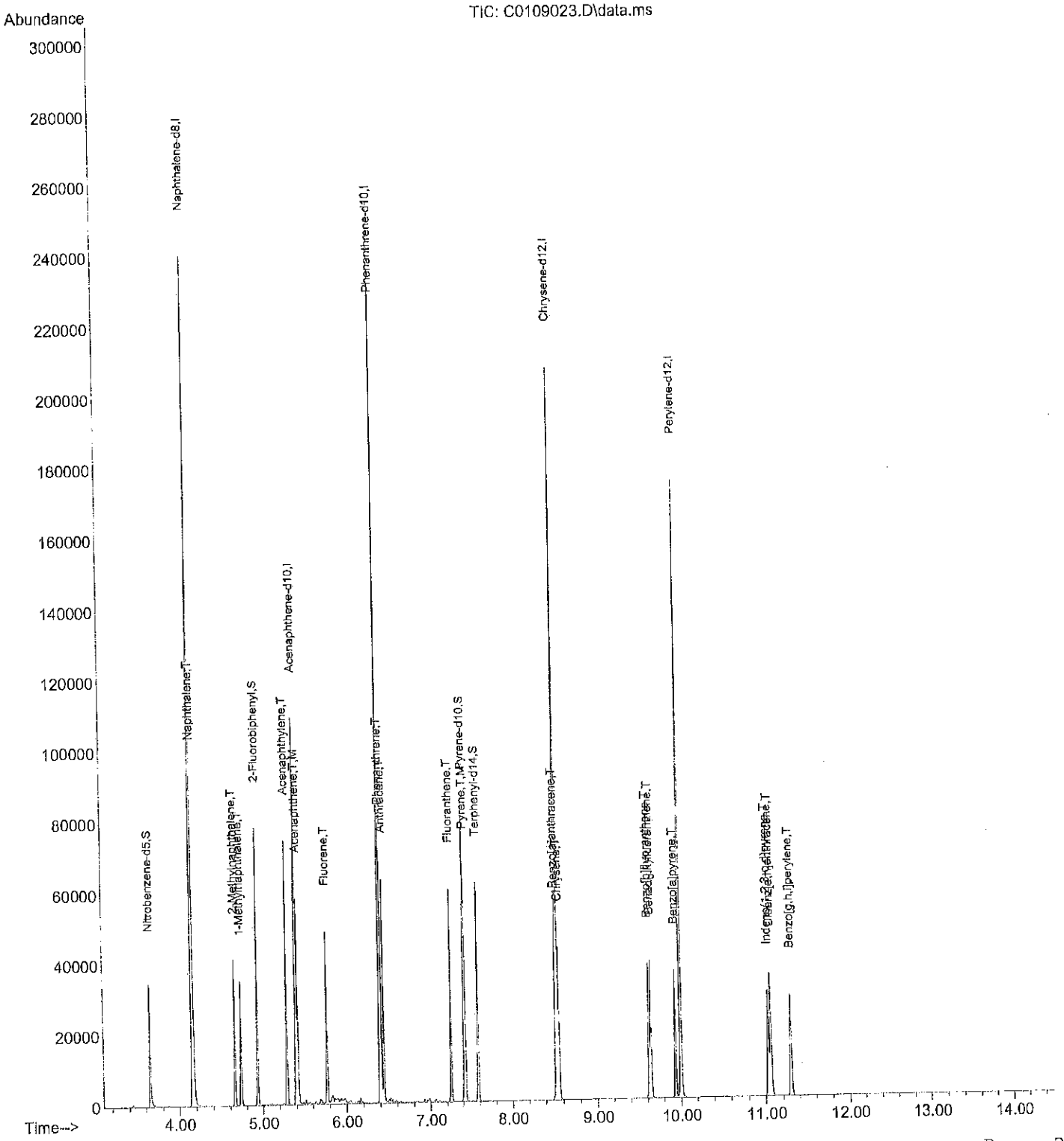
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/12/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109023.D
Acq On : 9 Jan 2015 6:15 pm
Operator :
Sample : 01-035-03 MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 09 18:30:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150109\
Data File : C0109011.D
Acq On : 9 Jan 2015 1:51 pm
Operator :
Sample : ICVPAH0109
Misc : SV4-49-22
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 09 14:35:41 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 14:30:43 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	108	0.00
2	S	Nitrobenzene-d5	500.000	409.261	18.1	96	0.00
3	T	Naphthalene	500.000	420.413	15.9	100	0.00
4	T	2-Methylnaphthalene	500.000	414.548	17.1	99	0.00
5	T	1-Methylnaphthalene	500.000	433.572	13.3	102	0.00
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	110	0.00
7	S	2-Fluorobiphenyl	500.000	496.791	0.6	102	0.00
8	T	Acenaphthylene	500.000	435.970	12.8	105	0.00
9	T,M	Acenaphthene	500.000	429.748	14.1	104	0.00
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	112	0.00
11	S	Pyrene-d10	500.000	456.330	8.7	108	0.00
12	T	Fluorene	500.000	434.376	13.1	107	0.00
13	T	Phenanthrene	500.000	441.840	11.6	108	0.00
14	T	Anthracene	500.000	393.003	21.4#	95	0.00
15	T	Fluoranthene	500.000	448.840	10.2	108	0.00
16	T,M	Pyrene	500.000	442.511	11.5	106	0.00
17	I	Chrysene-d12	2000.000	2000.000	0.0	113	0.00
18	S	Terphenyl-d14	500.000	506.392	-1.3	108	0.00
19	T	Benzo[a]anthracene	500.000	493.883	1.2	107	0.00
20	T	Chrysene	500.000	394.714	21.1#	96	0.00
21	I	Perylene-d12	2000.000	2000.000	0.0	113	0.00
22	T	Benzo[b]fluoranthene	500.000	425.368	14.9	102	0.00
23	T	Benzo(j,k)fluoranthene	500.000	458.993	8.2	110	0.00
24	T	Benzo[a]pyrene	500.000	426.888	14.6	101	0.00
25	T	Indeno(1,2,3-c,d)pyrene	500.000	444.274	11.1	106	0.00
26	T	Dibenz[a,h]anthracene	500.000	463.130	7.4	110	0.00
27	T	Benzo[g,h,i]perylene	500.000	435.899	12.8	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109011.D
Acq On : 9 Jan 2015 1:51 pm
Operator :
Sample : ICVPAH0109
Misc : SV4-49-22
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 09 14:06:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 13:48:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.152	136	242902	2000.00	ppb	0.00
6) Acenaphthene-d10	5.399	164	114678	2000.00	ppb	0.00
10) Phenanthrene-d10	6.401	188	199120	2000.00	ppb	0.00
17) Chrysene-d12	8.534	240	193660	2000.00	ppb	0.00
21) Perylene-d12	9.997	264	181875	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	12078	409.26	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 40.93%			
7) 2-Fluorobiphenyl	4.941	172	40605	496.79	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 49.68%			
11) Pyrene-d10	7.415	212	38449	456.33	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 45.63%			
18) Terphenyl-d14	7.583	244	33266	506.39	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 50.64%			
Target Compounds						Qvalue
3) Naphthalene	4.164	128	64032	420.41	ppb	100
4) 2-Methylnaphthalene	4.660	142	40643	414.55	ppb	100
5) 1-Methylnaphthalene	4.738	142	38926	433.57	ppb	100
8) Acenaphthylene	5.291	152	60252	435.97	ppb	100
9) Acenaphthene	5.422	153	38989	429.75	ppb	100
12) Fluorene	5.768	166	40478	434.38	ppb	100
13) Phenanthrene	6.413	178	59235	441.84	ppb	100
14) Anthracene	6.444	178	29433	393.00	ppb	100
15) Fluoranthene	7.252	202	55133	448.84	ppb	100
16) Pyrene	7.426	202	58010	442.51	ppb	100
19) Benzo[a]anthracene	8.515	228	47708	493.88	ppb	100
20) Chrysene	8.554	228	42250	394.71	ppb	100
22) Benzo[b]fluoranthene	9.614	252	44491	425.37	ppb	100
23) Benzo(j,k)fluoranthene	9.638	252	46286	458.99	ppb	100
24) Benzo[a]pyrene	9.934	252	40154	426.89	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.027	276	40357	~~352.30~~ 444.27	ppb	100
26) Dibenz[a,h]anthracene	11.059	278	43670	463.13	ppb	100
27) Benzo[g,h,i]perylene	11.293	276	42798	435.90	ppb	100

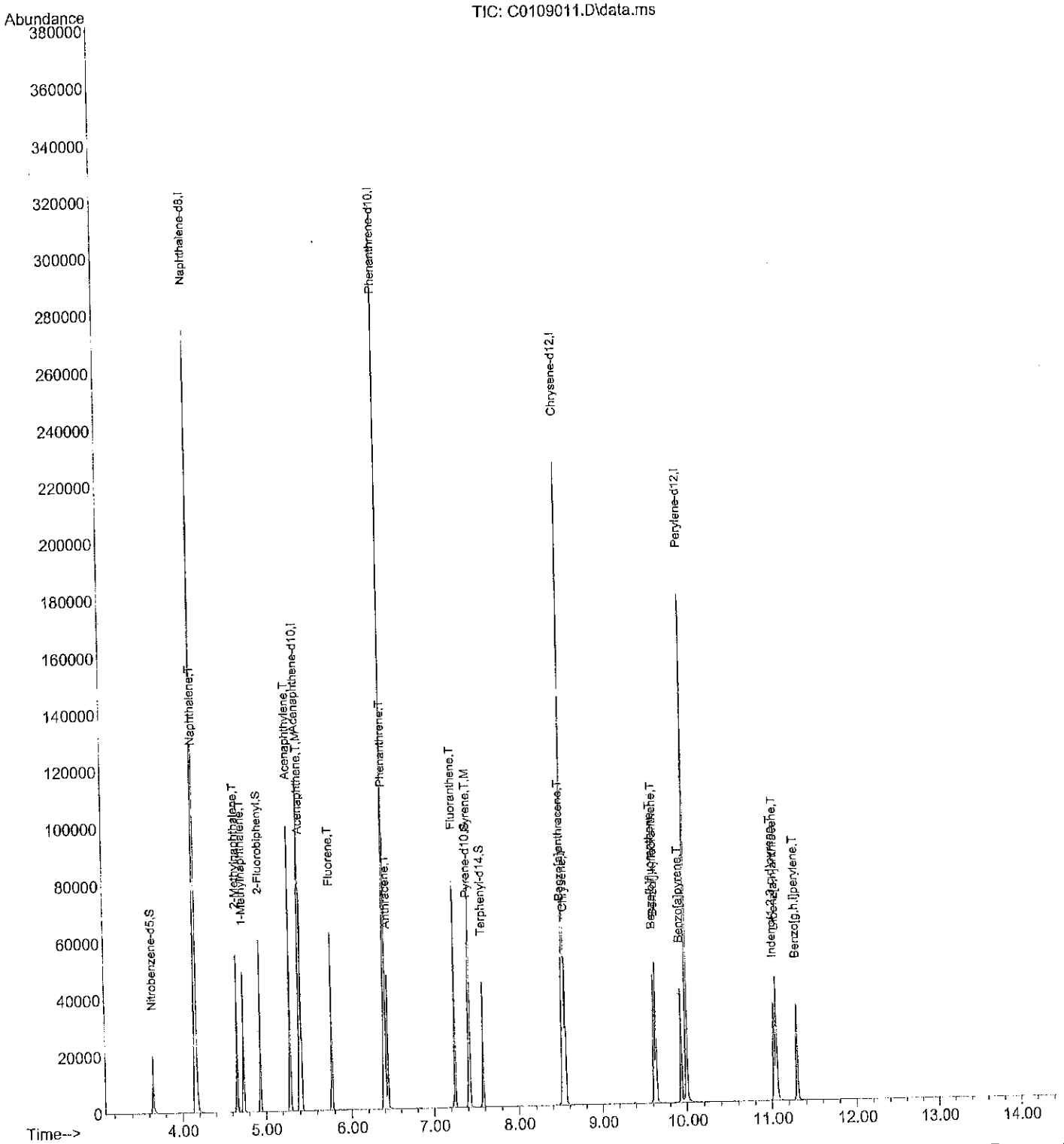
(#) = qualifier out of range (m) = manual integration (+) = signals summed

30% ICV
Okay
1/9/15
EM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150109\
Data File : C0109011.D
Acq On : 9 Jan 2015 1:51 pm
Operator :
Sample : ICVPAH0109
Misc : SV4-49-22
ALS Vial : 12 Sample Multiplier: 1

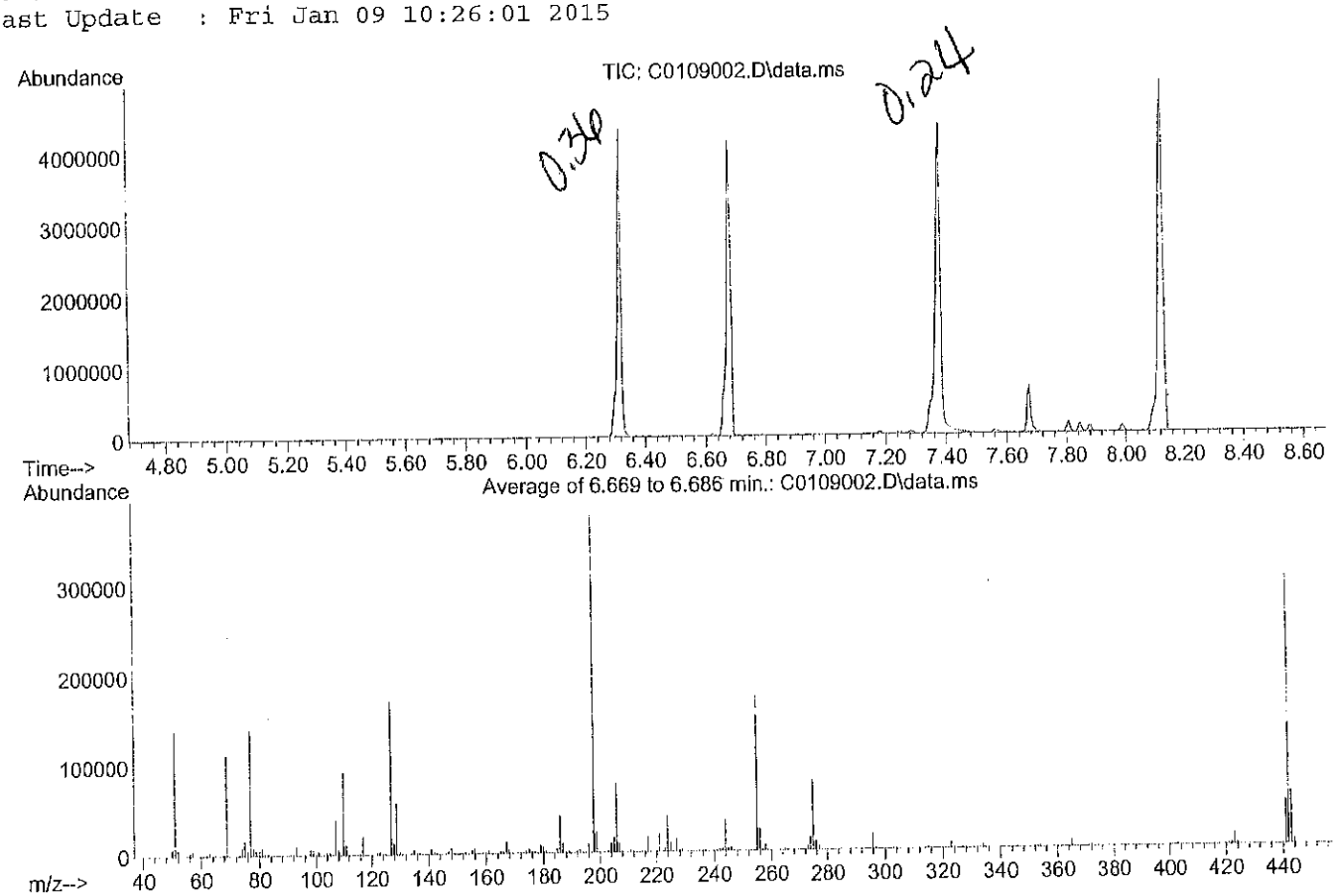
Quant Time: Jan 09 14:06:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 09 13:48:05 2015
Response via : Initial Calibration



Data Path : X:\SEMIVOLS\COREY\DATA\C150109\
Data File : C0109002.D
Acq On : 9 Jan 2015 10:30 am
Operator :
Sample : DFTPP
Misc : SV4-49-03
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0109.M
Title : PAH'S BY SIMS
Last Update : Fri Jan 09 10:26:01 2015



Spectrum Information: Average of 6.669 to 6.686 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	37.4	140880	PASS
68	69	0.00	2	1.3	1456	PASS
69	198	0.00	100	30.0	113106	PASS
70	69	0.00	2	0.5	555	PASS
127	198	25	75	45.8	172540	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	376960	PASS
199	198	5	9	6.5	24361	PASS
275	198	10	30	20.8	78556	PASS
365	198	0.75	100	2.3	8803	PASS
441	443	0.01	100	80.7	49193	PASS
442	198	40	110	80.5	303498	PASS
443	442	15	24	20.1	60970	PASS

Total Cadmium Data

P150108F1. Mean Only Report 1/9/2015, 9:09:42 AM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	1/8/2015, 9:25:11 AM
Standard 5	Cd 228.802	10.000	ppb	1/8/2015, 10:03:48 AM
Standard 4	Cd 228.802	100.00	ppb	1/8/2015, 9:36:25 AM
Standard 3	Cd 228.802	1000.0	ppb	1/8/2015, 9:41:28 AM
Standard 2	Cd 228.802	2500.0	ppb	1/8/2015, 9:46:32 AM
Standard 1	Cd 228.802	5000.0	ppb	1/8/2015, 9:51:36 AM
Initial Calib Verif	Cd 228.802	1026.2	ppb	1/8/2015, 11:01:34 AM
LLICV	Cd 228.802	9.777	ppb	1/8/2015, 11:28:48 AM
Initial Calib Blank	Cd 228.802	-0.697uv	ppb	1/8/2015, 11:35:52 AM
Cont Calib Verif	Cd 228.802	1021.1	ppb	1/8/2015, 11:40:59 AM
Cont Calib Blank	Cd 228.802	-0.517uv	ppb	1/8/2015, 11:47:30 AM
ICSA	Cd 228.802	-0.740uv	ppb	1/8/2015, 11:52:37 AM
ICSAB	Cd 228.802	932.49	ppb	1/8/2015, 11:57:41 AM
MB0107WH1	Cd 228.802	-0.201uv	ppb	1/8/2015, 12:10:47 PM
SB0107WH1	Cd 228.802	1072.9	ppb	1/8/2015, 12:15:53 PM
01-010-01	Cd 228.802	0.552uv	ppb	1/8/2015, 12:20:59 PM
01-010-01 D	Cd 228.802	-2.164uv	ppb	1/8/2015, 12:26:04 PM
01-010-01 L	Cd 228.802	-0.860uv	ppb	1/8/2015, 12:31:06 PM
01-010-01 MS	Cd 228.802	976.17	ppb	1/8/2015, 12:41:30 PM
01-010-01 MSD	Cd 228.802	917.76	ppb	1/8/2015, 12:46:35 PM
01-014-01	Cd 228.802	1.581	ppb	1/8/2015, 12:51:39 PM
Cont Calib Verif	Cd 228.802	934.04	ppb	1/8/2015, 1:02:48 PM
Cont Calib Blank	Cd 228.802	-0.789uv	ppb	1/8/2015, 1:12:49 PM
SB0107WH1	Cd 228.802	989.33	ppb	1/8/2015, 1:19:38 PM
01-015-01	Cd 228.802	0.257uv	ppb	1/8/2015, 1:27:27 PM
01-016-01	Cd 228.802	1.157uv	ppb	1/8/2015, 1:32:31 PM
01-017-01	Cd 228.802	-0.011uv	ppb	1/8/2015, 1:37:34 PM
01-018-04	Cd 228.802	0.277uv	ppb	1/8/2015, 1:44:02 PM
01-010-02	Cd 228.802	-0.422uv	ppb	1/8/2015, 1:49:09 PM
01-010-03	Cd 228.802	-0.758uv	ppb	1/8/2015, 1:54:13 PM
01-010-04	Cd 228.802	-0.765uv	ppb	1/8/2015, 1:59:19 PM
01-010-05	Cd 228.802	0.345uv	ppb	1/8/2015, 2:04:25 PM
01-010-06	Cd 228.802	-0.991uv	ppb	1/8/2015, 2:09:31 PM
01-010-07	Cd 228.802	0.599uv	ppb	1/8/2015, 2:14:36 PM
Cont Calib Verif	Cd 228.802	1024.0	ppb	1/8/2015, 2:19:41 PM
Cont Calib Blank	Cd 228.802	1.085	ppb	1/8/2015, 2:28:25 PM
01-010-08	Cd 228.802	0.679	ppb	1/8/2015, 2:34:27 PM
01-010-09	Cd 228.802	0.587uv	ppb	1/8/2015, 2:39:32 PM
01-010-10	Cd 228.802	1.627	ppb	1/8/2015, 2:45:45 PM
01-010-11	Cd 228.802	-0.772uv	ppb	1/8/2015, 2:50:49 PM
01-010-12	Cd 228.802	0.301uv	ppb	1/8/2015, 2:55:52 PM
01-010-13	Cd 228.802	1.059uv	ppb	1/8/2015, 3:00:57 PM
01-010-14	Cd 228.802	0.729uv	ppb	1/8/2015, 3:06:00 PM
01-010-15	Cd 228.802	0.072uv	ppb	1/8/2015, 3:11:03 PM
Cont Calib Verif	Cd 228.802	1044.9	ppb	1/8/2015, 4:22:05 PM
Cont Calib Blank	Cd 228.802	-0.761uv	ppb	1/8/2015, 3:32:09 PM
MB0108SM1	Cd 228.802	-2.188uv	ppb	1/8/2015, 4:32:45 PM
SB0108SM1	Cd 228.802	978.61	ppb	1/8/2015, 4:37:52 PM
01-035-04	Cd 228.802	1.964	ppb	1/8/2015, 4:42:57 PM
01-035-04 D	Cd 228.802	1.153	ppb	1/8/2015, 4:48:01 PM
01-035-04 L	Cd 228.802	1.343	ppb	1/8/2015, 4:53:07 PM
01-035-04 MS	Cd 228.802	1099.0	ppb	1/8/2015, 4:58:13 PM

P150108F1. Mean Only Report 1/9/2015, 9:09:42 AM

Sample	Label	Calc Conc.	Units	Date/Time
01-035-04 MSD	Cd 228.802	970.73	ppb	1/8/2015, 5:03:18 PM
01-027-01	Cd 228.802	30.960	ppb	1/8/2015, 5:08:24 PM
01-035-01a	Cd 228.802	4.164	ppb	1/8/2015, 5:13:30 PM
01-035-02a	Cd 228.802	4.586	ppb	1/8/2015, 5:18:36 PM
Cont Calib Verif	Cd 228.802	1039.9	ppb	1/8/2015, 5:33:59 PM
Cont Calib Blank	Cd 228.802	0.283uv	ppb	1/8/2015, 5:39:08 PM
LLCCV	Cd 228.802	9.803	ppb	1/8/2015, 5:51:59 PM
01-035-03a	Cd 228.802	2.383	ppb	1/8/2015, 6:01:29 PM
01-026-01	Cd 228.802	1.834	ppb	1/8/2015, 6:06:36 PM
01-026-02	Cd 228.802	32.170	ppb	1/8/2015, 6:11:40 PM
BLK	Cd 228.802	-1.295uv	ppb	1/8/2015, 6:16:46 PM
MB0107TM1	Cd 228.802	-0.850uv	ppb	1/8/2015, 6:21:50 PM
SB0107TM1	Cd 228.802	982.30	ppb	1/8/2015, 6:26:55 PM
Cont Calib Verif	Cd 228.802	1018.5	ppb	1/8/2015, 6:32:00 PM
Cont Calib Blank	Cd 228.802	-0.533uv	ppb	1/8/2015, 6:37:04 PM
LLCCV	Cd 228.802	10.729	ppb	1/8/2015, 6:42:08 PM

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 15, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-068

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 13, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

Case Narrative

Samples were collected on January 13, 2015 and received by the laboratory on January 13, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/Benzene EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-34-8.0	01-068-01	Soil	1-13-15	1-13-15	
EX-35-8.0	01-068-02	Soil	1-13-15	1-13-15	
Trip Blank_011315	01-068-03	Water	1-13-15	1-13-15	

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-34-8.0**					
Laboratory ID:	01-068-01					
Benzene	**ND**	0.020	EPA 8021B	1-14-15	1-14-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***104***	***68-123***				
Client ID:	**EX-35-8.0**					
Laboratory ID:	01-068-02					
Benzene	**ND**	0.020	EPA 8021B	1-14-15	1-14-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***99***	***68-123***				

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank_011315**					
Laboratory ID:	01-068-03					
Benzene	**ND**	1.0	EPA 8021B	1-14-15	1-14-15	
Gasoline	**ND**	100	NWTPH-Gx	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***93***	***71-113***				

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-34-8.0**					
Laboratory ID:	01-068-01					
Diesel Range Organics	**ND**	33	NWTPH-Dx	1-14-15	1-15-15	X1
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	1-14-15	1-15-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***90***	***50-150***				
Client ID:	**EX-35-8.0**					
Laboratory ID:	01-068-02					
Diesel Range Organics	**ND**	32	NWTPH-Dx	1-14-15	1-15-15	X1
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	1-14-15	1-15-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***100***	***50-150***				

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-34-8.0**					
Laboratory ID:	01-068-01					
Benzo[a]anthracene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Chrysene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo[b]fluoranthene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo(j,k)fluoranthene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo[a]pyrene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270D/SIM	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***91***	***32 - 114***				
Pyrene-d10	***89***	***33 - 121***				
Terphenyl-d14	***84***	***31 - 116***				

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-35-8.0**					
Laboratory ID:	01-068-02					
Benzo[a]anthracene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Chrysene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo[b]fluoranthene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo(j,k)fluoranthene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo[a]pyrene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Dibenz[a,h]anthracene	**ND**	0.0085	EPA 8270D/SIM	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***87***	***32 - 114***				
Pyrene-d10	***88***	***33 - 121***				
Terphenyl-d14	***74***	***31 - 116***				

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-01					
Client ID:	**EX-34-8.0**					
Cadmium	**ND**	0.65	6010C	1-13-15	1-14-15	
Lab ID:	01-068-02					
Client ID:	**EX-35-8.0**					
Cadmium	**ND**	0.64	6010C	1-13-15	1-14-15	

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0114S2					
Benzene	**ND**	0.020	EPA 8021B	1-14-15	1-14-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***94***	***68-123***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-068-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***104***	***105***	***68-123***			
SPIKE BLANKS											
Laboratory ID:	SB0114S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.955**	**0.997**	1.00	1.00		**96**	**100**	75-117	4	13	
Surrogate:											
Fluorobenzene						***96***	***98***	***68-123***			

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0114G-1	5.00	4.47	11	+/- 20%
CCVD0114G-2	5.00	4.51	10	+/- 20%

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0114B-1	50.0	51.7	-3	+/- 15%
Benzene	CCVD0114B-2	50.0	51.3	-3	+/- 15%

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0114W2					
Benzene	**ND**	1.0	EPA 8021B	1-14-15	1-14-15	
Gasoline	**ND**	100	NWTPH-Gx	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***92***	***71-113***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-073-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***95***	***95***	***71-113***			
MATRIX SPIKES											
Laboratory ID:	01-073-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**49.2**	**50.5**	50.0	50.0	ND	**98**	**101**	82-120	3	14	
Surrogate:											
Fluorobenzene						***93***	***102***	***71-113***			

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0114G-1	5.00	5.07	-1	+/- 20%
CCVH0114G-2	5.00	4.90	2	+/- 20%

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0114B-1	50.0	47.4	5	+/- 15%
Benzene	CCVH0114B-2	50.0	47.5	5	+/- 15%
Benzene	CCVD0114B-2	50.0	51.3	-3	+/- 15%
Benzene	CCVD0114B-3	50.0	49.0	2	+/- 15%

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0114S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	1-14-15	1-15-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	1-14-15	1-15-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***115***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	01-068-02									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	X1
Surrogate:										
o-Terphenyl						***100*** ***99***	***50-150***			

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0115R-V1	100	99.8	0.2	+/-15%
CCV0115R-V2	100	103	-3.0	+/-15%

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0114S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-14-15	1-14-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***111***	***32 - 114***				
Pyrene-d10	***105***	***33 - 121***				
Terphenyl-d14	***100***	***31 - 116***				

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	01-068-02										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0831**	**0.0754**	0.0833	0.0833	ND	100	91	42 - 134	10	27	
Chrysene	**0.0688**	**0.0621**	0.0833	0.0833	ND	83	75	45 - 114	10	27	
Benzo[b]fluoranthene	**0.0691**	**0.0616**	0.0833	0.0833	ND	83	74	38 - 131	11	33	
Benzo(j,k)fluoranthene	**0.0591**	**0.0457**	0.0833	0.0833	ND	71	55	44 - 114	26	34	
Benzo[a]pyrene	**0.0744**	**0.0667**	0.0833	0.0833	ND	89	80	40 - 136	11	29	
Indeno(1,2,3-c,d)pyrene	**0.0687**	**0.0607**	0.0833	0.0833	ND	82	73	45 - 126	12	30	
Dibenz[a,h]anthracene	**0.0708**	**0.0631**	0.0833	0.0833	ND	85	76	46 - 121	12	28	
Surrogate:											
2-Fluorobiphenyl						***90***	***88***	***32 - 114***			
Pyrene-d10						***94***	***87***	***33 - 121***			
Terphenyl-d14						***86***	***73***	***31 - 116***			

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	1-13-15
Date Analyzed:	1-14-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0113SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 1-13-15
Date Analyzed: 1-14-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-047-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 1-13-15
Date Analyzed: 1-14-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-047-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**48.0**	96	**48.3**	97	1	

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV011415P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLICV1011415P	0.0100	0.0103	-3.0	+/- 30%
Cadmium	CCV10111415P	1.00	0.998	0.20	+/- 10%
Cadmium	CCV2011415P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLCCV2011415P	0.0100	0.0116	-16	+/- 30%
Cadmium	CCV3011415P	1.00	1.02	-2.0	+/- 10%
Cadmium	LLCCV3011415P	0.0100	0.0110	-10	+/- 30%
Cadmium	CCV4011415P	1.00	1.00	0	+/- 10%
Cadmium	LLCCV4011415P	0.0100	0.0105	-5.0	+/- 30%
Cadmium	CCV5011415P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLCCV5011415P	0.0100	0.0100	0	+/- 30%

Date of Report: January 15, 2015
Samples Submitted: January 13, 2015
Laboratory Reference: 1501-068
Project: 5147-012-06

% MOISTURE

Date Analyzed: 1-13-15

Client ID	Lab ID	% Moisture
EX-34-8.0	01-068-01	24
EX-35-8.0	01-068-02	22

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 01-068

Company: GeoEngineers
Project Number: 5147-012-06
Project Name: POA-Shell Tank Farm
Project Manager: Abigit Joshi
Sampled by: Robert Trahan

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Benzene	cPAHs	Lead/mium			% Moisture
1	EX-34-8.0	1-13-15	9:30	S	2			X	X													X	X	X			X
2	EX-35-8.0	"	9:45	S	"			X	X													X	X	X			X
3	Trip Blank - 011315	"	—	L	↓			X	~~X~~ — NO TEST													X					

	Signature	Company	Date	Time
Relinquished		GEI	1-13-15	13:40
Received	Celia Forrest	SPEEDY	1-13-15	13:40
Relinquished	Celia Forrest	SPEEDY	1-13-15	15:37
Received		CORE	1/13/15	1537
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☒

Data Package: Standard ☐ Level III ☒ Level IV ☐

Electronic Data Deliverables (EDDs) ☒ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 01-068

Initiated by: MV

Date Initiated: 1/13/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 2	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150114\0114011.D\FID2B.CH
Acq On : 14 Jan 2015 17:03 Operator:
Sample : 01-068-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 17:31 2015 Quant Results File: 141012DB.RES

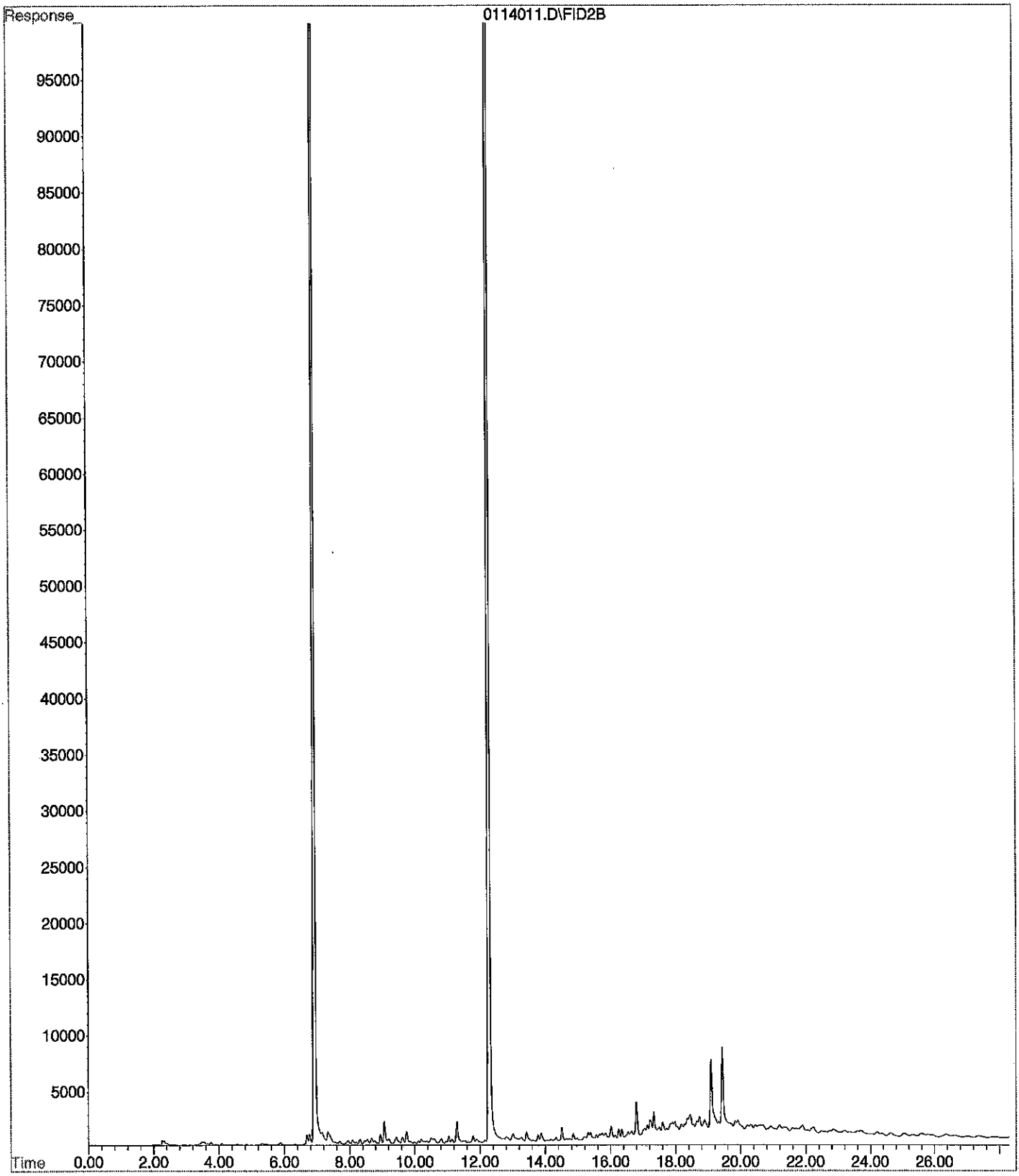
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.92	2466182	35.498	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1476364	36.309	PPB
11)	S	FLUOROBENZENE #2	6.92	6287269	28.255	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	8991471	29.912	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	1124422	0.016	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4455113	0.057	PPM
3)	H	GASOLINE (9-24-14)	13.51	1682819	0.021	PPM
7)	H	entire GAS envelope #2 (9-	12.26	8304107	0.009	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3620015	N.D.	PPM
9)		MTBE #2	4.70	434	N.D.	PPB
10)		BENZENE #2	6.69	34484	0.073	PPB
12)		TOLUENE #2	9.07	76725	0.099	PPB
13)		ETHYLBENZENE #2	11.04	23163	N.D.	PPB
14)		m,p-XYLENE #2	11.29	86682	N.D.	PPB
15)		o-XYLENE #2	11.79	27850	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.
0114011.D 141012DB.M Wed Jan 14 17:31:37 2015 Page 1

File : X:\BTEX\DARYL\DATA\D150114\0114011.D
Operator :
Acquired : 14 Jan 2015 17:03 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-068-01s
Misc Info : V2-36-17
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114013.D\FID1A.CH Vial: 13
Signal #2 : d:\btex\DATA\D150114\0114013.D\FID2B.CH
Acq On : 14 Jan 2015 18:10 Operator:
Sample : 01-068-02s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 18:38 2015 Quant Results File: 141012DB.RES

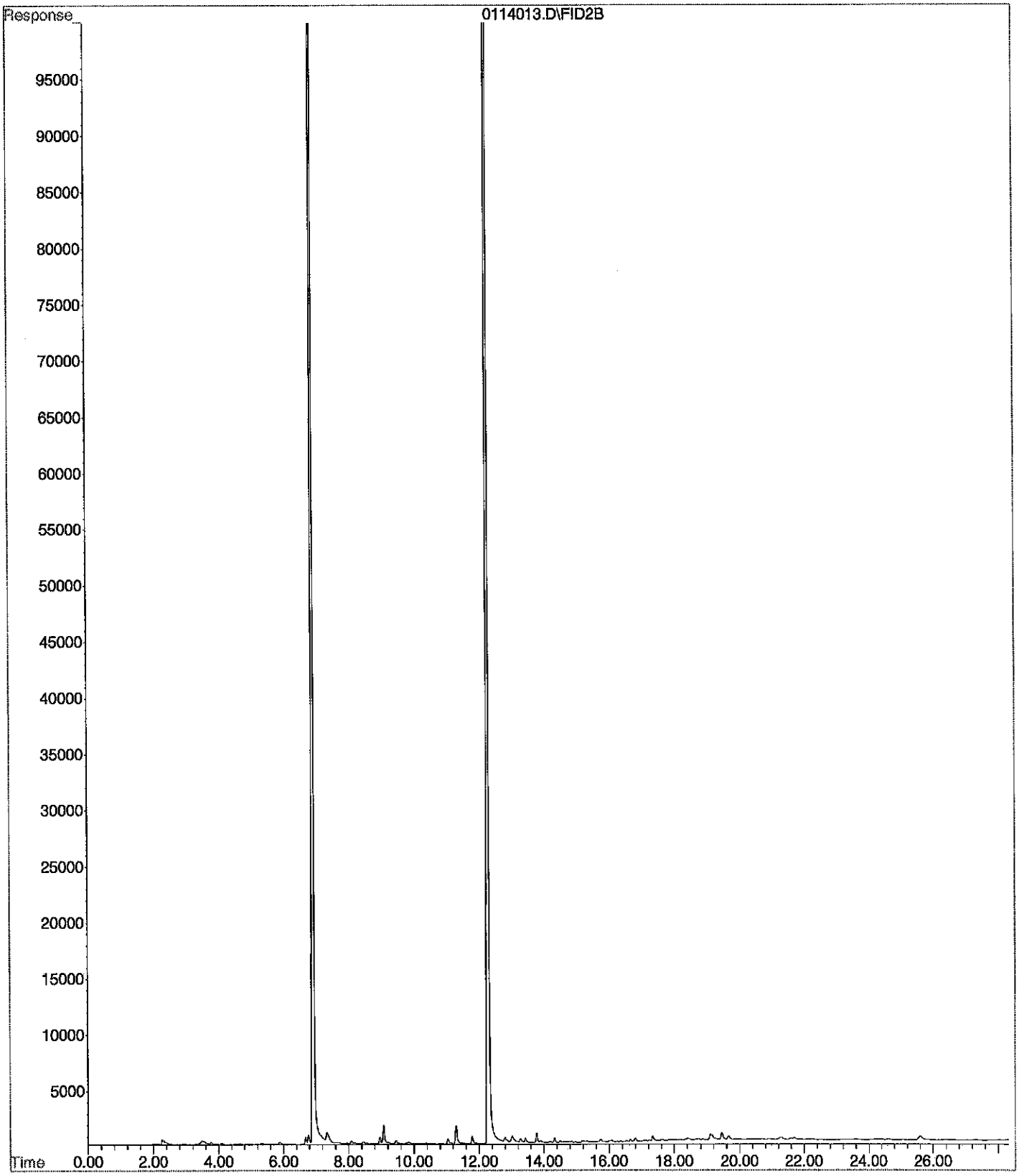
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	2422458	34.863 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1474544	36.264 PPB
11)	S	FLUOROBENZENE #2	6.92	6372623	28.644 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	9025906	30.028 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	537252	0.004 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	1826652	0.017 PPM
3)	H	GASOLINE (9-24-14)	13.51	491327	N.D. PPM
7)	H	entire GAS envelope #2 (9-	12.26	2285263	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1124181	N.D. PPM
9)		MTBE #2	4.66	4107	0.008 PPB
10)		BENZENE #2	6.69	21536	0.029 PPB
12)		TOLUENE #2	9.07	77029	0.100 PPB
13)		ETHYLBENZENE #2	11.04	21659	N.D. PPB
14)		m,p-XYLENE #2	11.30	66217	N.D. PPB
15)		o-XYLENE #2	11.79	28725	N.D. PPB

(f)=RT Delta > 1/2 Window (m)=manual int.
0114013.D 141012DB.M Wed Jan 14 18:38:36 2015

File : X:\BTEX\DARYL\DATA\D150114\0114013.D
Operator :
Acquired : 14 Jan 2015 18:10 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-068-02s
Misc Info : V2-36-17
Vial Number: 13



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114009.D\FID1A.CH Vial: 9
Signal #2 : d:\btex\DATA\D150114\0114009.D\FID2B.CH
Acq On : 14 Jan 2015 15:56 Operator:
Sample : MB0114S2 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 16:24 2015 Quant Results File: 141012DB.RES

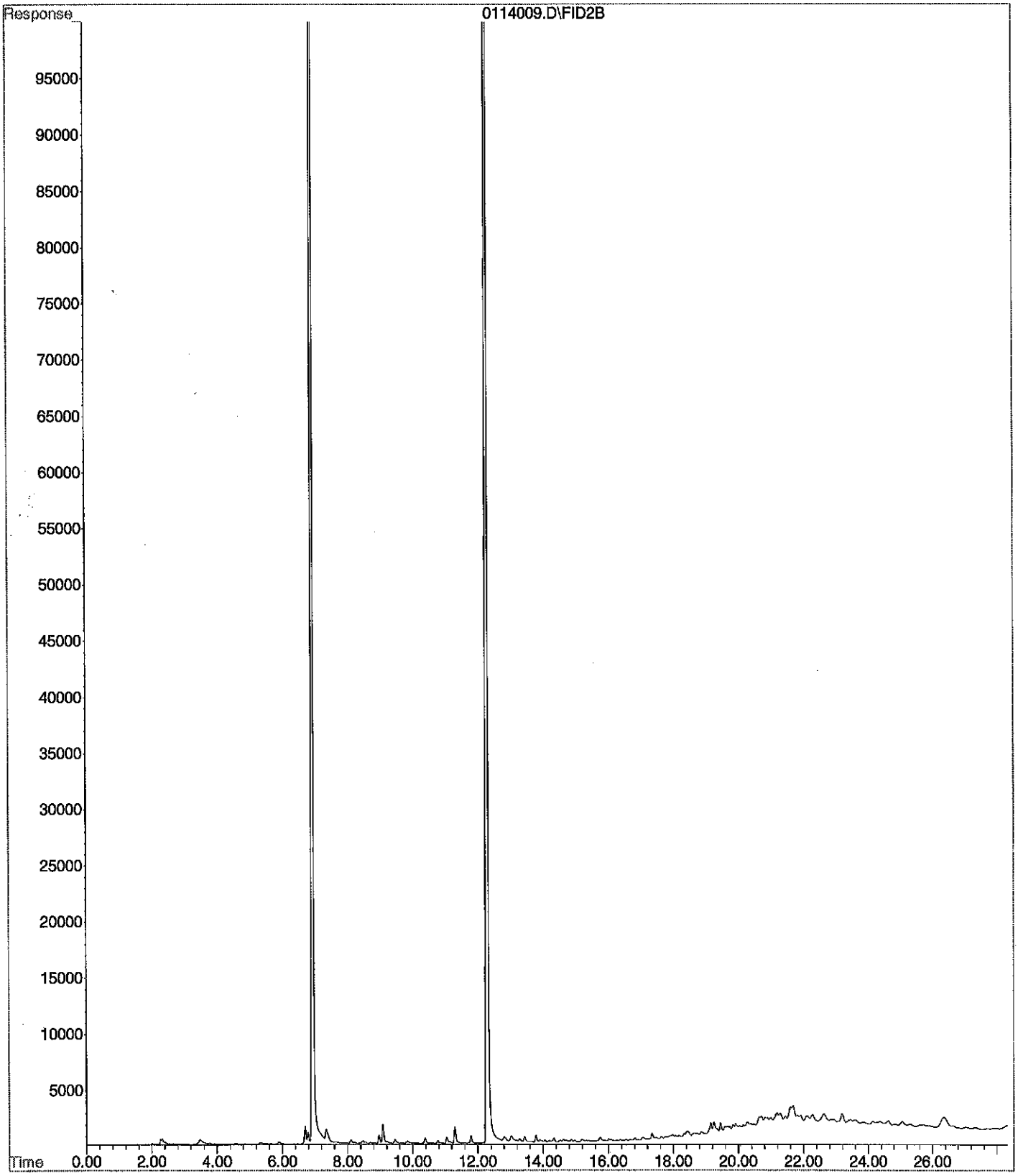
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3208324	46.280	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1919075	47.370	PPB
11)	S	FLUOROBENZENE #2	6.93	8320672	37.501	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11610087	38.757	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	752742	0.009	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3306001	0.039	PPM
3)	H	GASOLINE (9-24-14)	13.51	750020	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	5324194	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1759542	N.D.	PPM
9)		MTBE #2	4.59	6044	0.035	PPB
10)		BENZENE #2	6.70	54543	0.141	PPB
12)		TOLUENE #2	9.08	61733	0.045	PPB
13)		ETHYLBENZENE #2	11.05	18978	N.D.	PPB
14)		m,p-XYLENE #2	11.31	58537	N.D.	PPB
15)		o-XYLENE #2	11.80	22659	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114009.D
Operator :
Acquired : 14 Jan 2015 15:56 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB0114S2
Misc Info : V2-36-17
Vial Number: 9



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150114\0114011.D\FID2B.CH
Acq On : 14 Jan 2015 17:03 Operator:
Sample : 01-068-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 17:31 2015 Quant Results File: 141012DB.RES

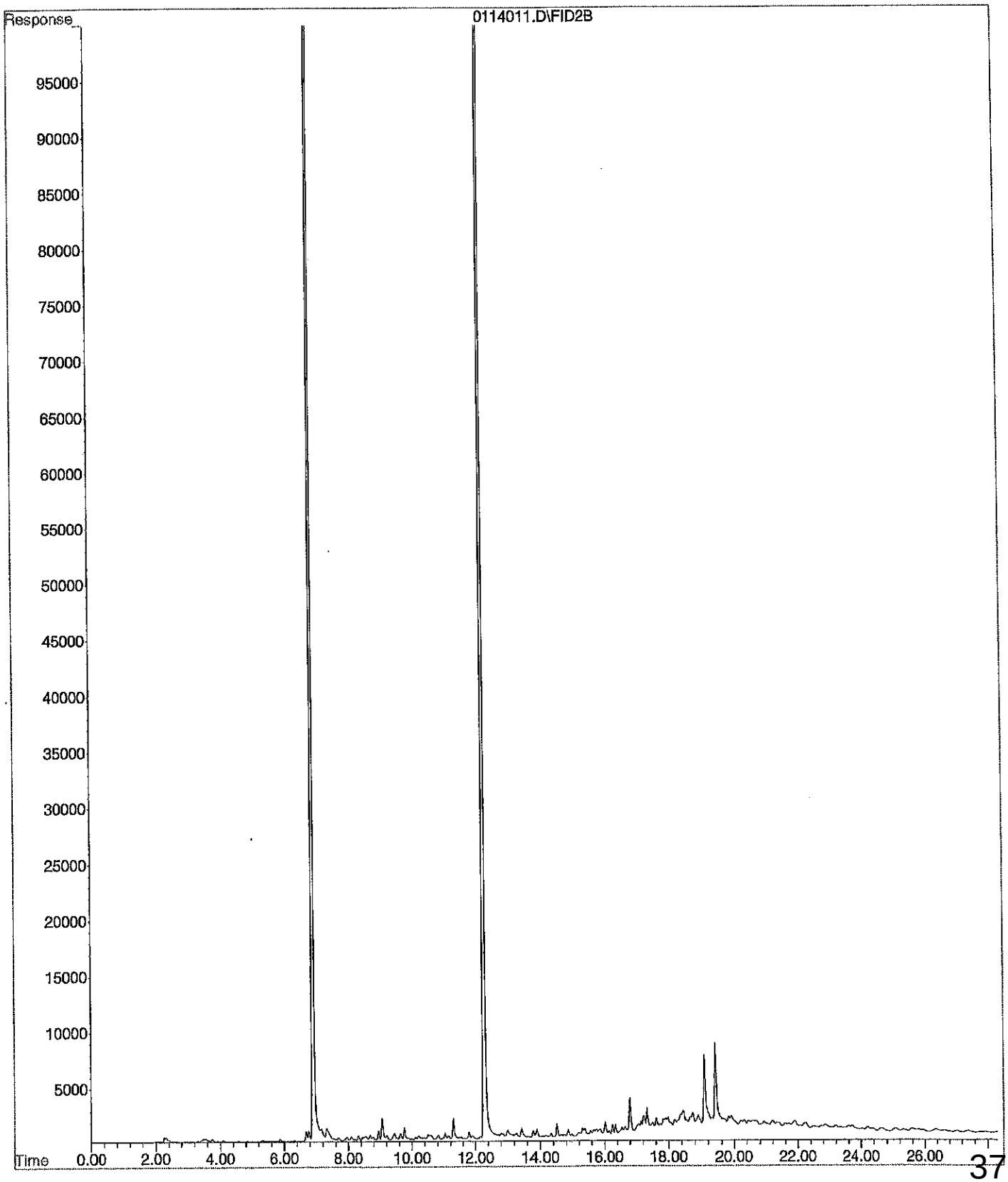
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	2466182	35.498	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1476364	36.309	PPB
11)	S	FLUOROBENZENE #2	6.92	6287269	28.255	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	8991471	29.912	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1124422	0.016	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4455113	0.057	PPM
3)	H	GASOLINE (9-24-14)	13.51	1682819	0.021	PPM
7)	H	entire GAS envelope #2 (9-	12.26	8304107	0.009	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3620015	N.D.	PPM
9)		MTBE #2	4.70	434	N.D.	PPB
10)		BENZENE #2	6.69	34484	0.073	PPB
12)		TOLUENE #2	9.07	76725	0.099	PPB
13)		ETHYLBENZENE #2	11.04	23163	N.D.	PPB
14)		m,p-XYLENE #2	11.29	86682	N.D.	PPB
15)		o-XYLENE #2	11.79	27850	N.D.	PPB

(m)=manual int

File : X:\BTEX\DARYL\DATA\D150114\0114011.D
Operator :
Acquired : 14 Jan 2015 17:03 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-068-01s
Misc Info : V2-36-17
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D150114\0114012.D\FID2B.CH
Acq On : 14 Jan 2015 17:36 Operator:
Sample : 01-068-01s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 18:05 2015 Quant Results File: 141012DB.RES

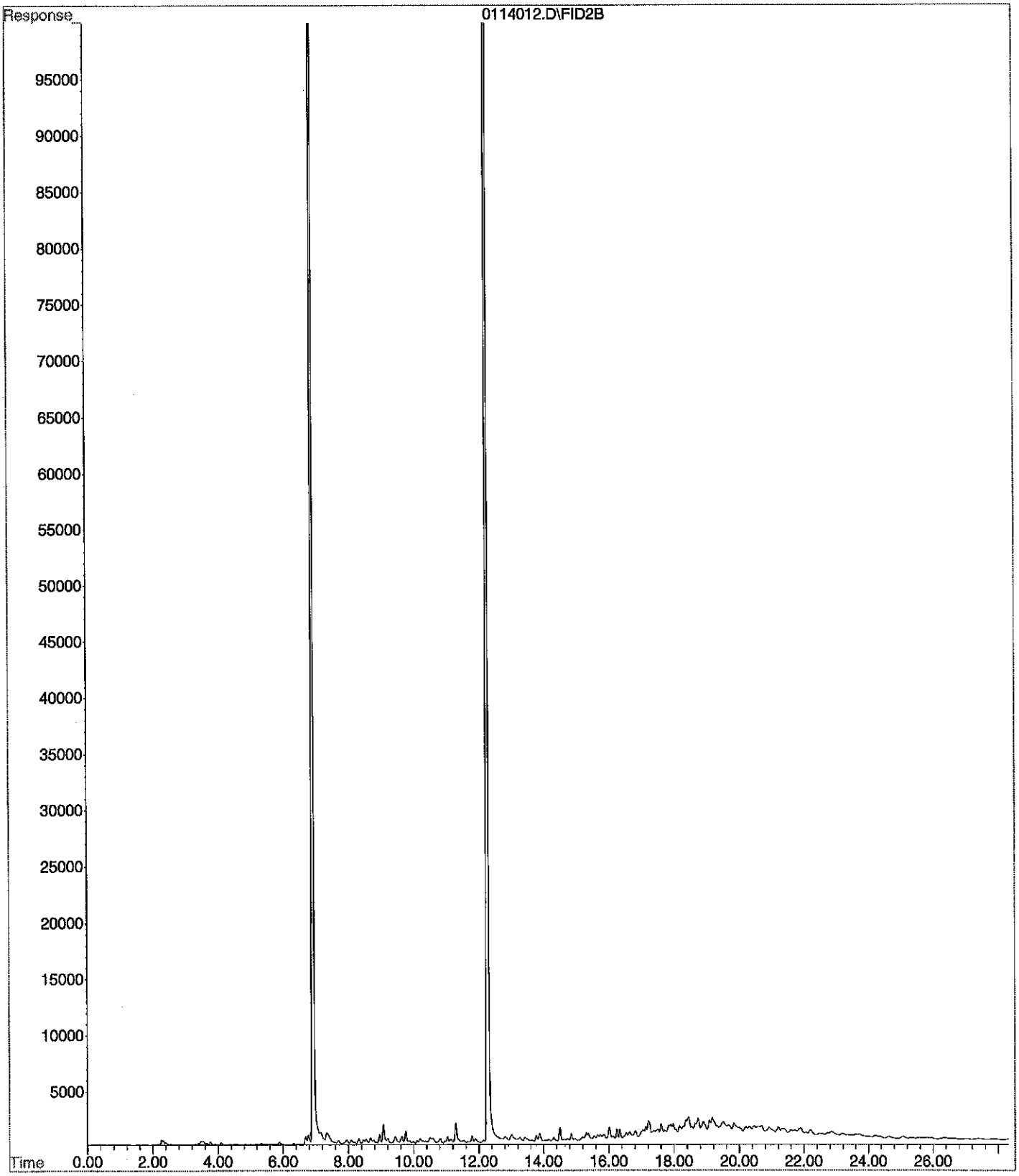
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	2495545	35.924	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1500361	36.909	PPB
11)	S	FLUOROBENZENE #2	6.92	6378053	28.668	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	9156868	30.470	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1079174	0.015	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3824246	0.047	PPM
3)	H	GASOLINE (9-24-14)	13.51	1403233	0.014	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6908034	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3122895	N.D.	PPM
9)		MTBE #2	4.71	810	N.D.	PPB
10)		BENZENE #2	6.69	28856	0.054	PPB
12)		TOLUENE #2	9.07	70703	0.077	PPB
13)		ETHYLBENZENE #2	11.04	23217	N.D.	PPB
14)		m,p-XYLENE #2	11.29	88538	N.D.	PPB
15)		o-XYLENE #2	11.79	29250	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114012.D
Operator :
Acquired : 14 Jan 2015 17:36 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-068-01s DUP
Misc Info : V2-36-17
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D150114\0114014.D\FID2B.CH
Acq On : 14 Jan 2015 18:43 Operator:
Sample : SB0114S1 Inst : Daryl
Misc : V2-36-17,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 19:11 2015 Quant Results File: 141012DB.RES

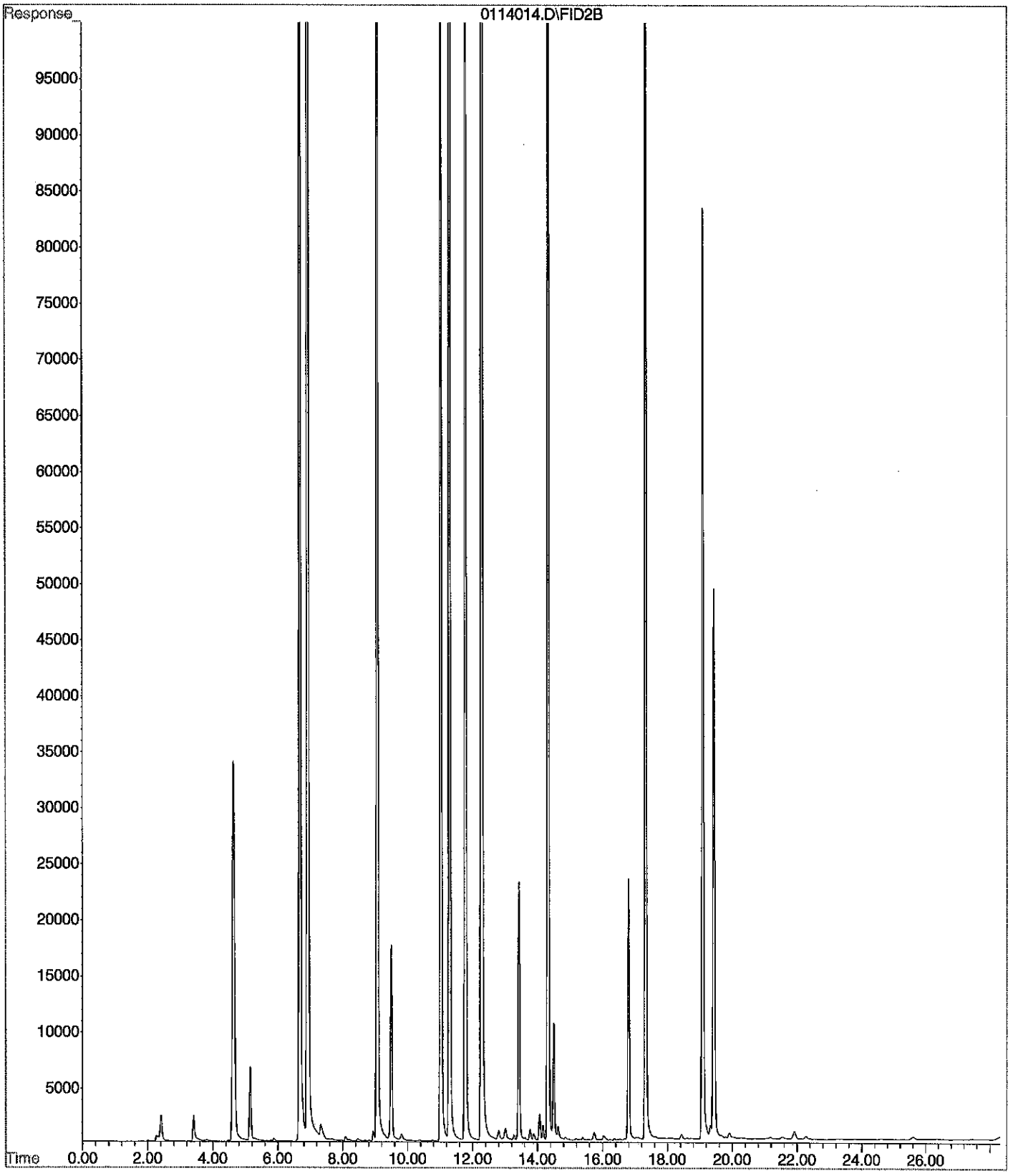
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3275072	47.250 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1910537	47.156 PPB
11)	S	FLUOROBENZENE #2	6.92	8537773	38.488 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11709959	39.095 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	11908146	0.235 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	20678078	0.305 PPM
3)	H	GASOLINE (9-24-14)	13.51	14004469	0.333 PPM
7)	H	entire GAS envelope #2 (9-	12.26	46206281	0.273 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	32670753	0.239 PPM
9)		MTBE #2	4.64	1637458	22.376 PPB
10)		BENZENE #2	6.68	5616409	19.094 PPB
12)		TOLUENE #2	9.06	5364165	19.125 PPB
13)		ETHYLBENZENE #2	11.03	4741793	19.191 PPB
14)		m,p-XYLENE #2	11.29	5719600	19.171 PPB
15)		o-XYLENE #2	11.78	4819551	18.995 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114014.D
Operator :
Acquired : 14 Jan 2015 18:43 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SB0114S1
Misc Info : V2-36-17,V2-36-22
Vial Number: 14



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114015.D\FID1A.CH Vial: 15
Signal #2 : d:\btex\DATA\D150114\0114015.D\FID2B.CH
Acq On : 14 Jan 2015 19:17 Operator:
Sample : SBD0114S1 Inst : Daryl
Misc : V2-36-17,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 19:45 2015 Quant Results File: 141012DB.RES

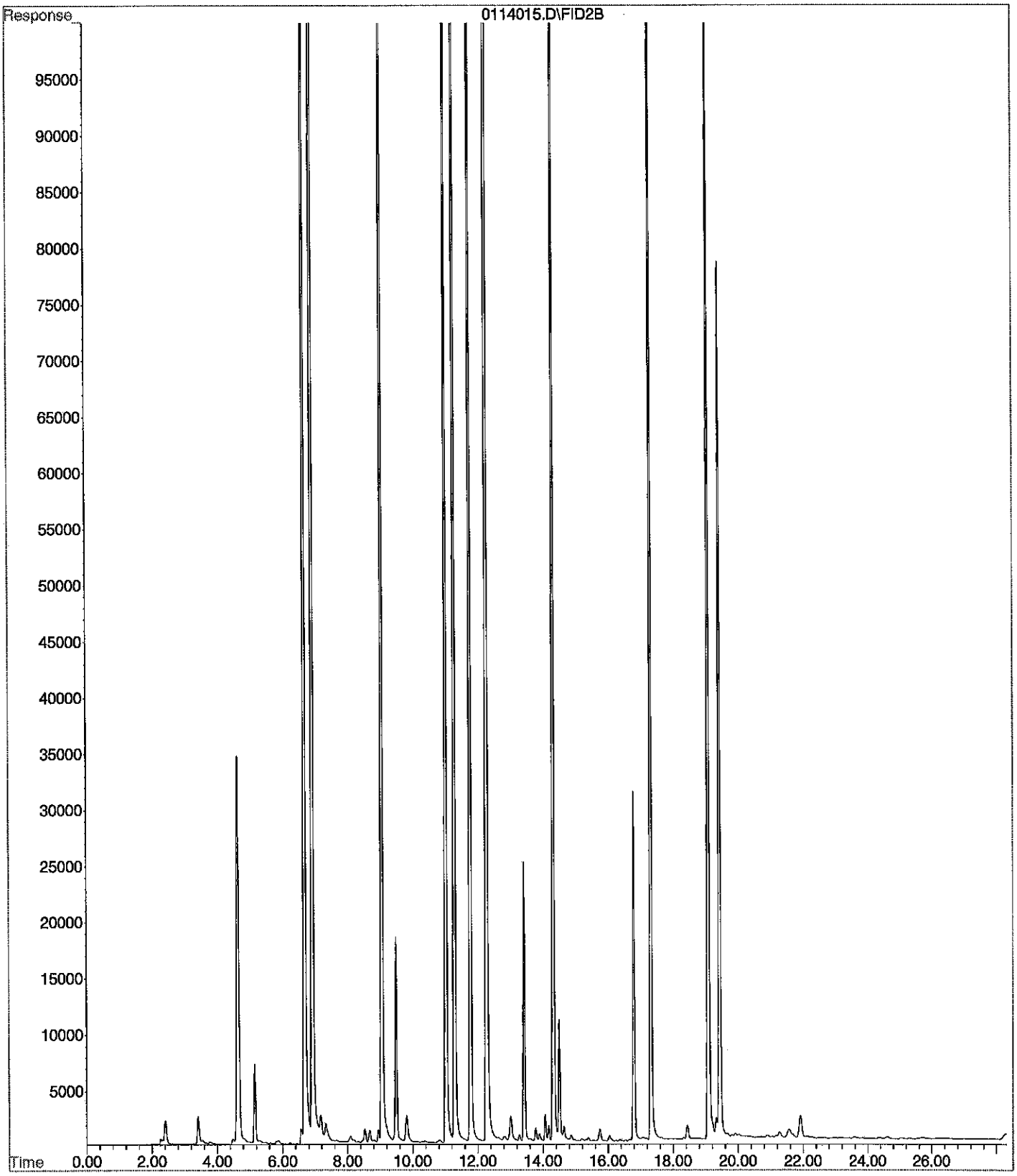
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.92	3319729	47.898	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1947818	48.088	PPB
11)	S	FLUOROBENZENE #2	6.92	8685154	39.158	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11965909	39.959	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	13022421	0.258	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23188024	0.344	PPM
3)	H	GASOLINE (9-24-14)	13.51	15106635	0.361	PPM
7)	H	entire GAS envelope #2 (9-	12.26	51616351	0.311	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	34740768	0.257	PPM
9)		MTBE #2	4.64	1722436	23.540	PPB
10)		BENZENE #2	6.68	5865614	19.943	PPB
12)		TOLUENE #2	9.06	5573699	19.879	PPB
13)		ETHYLBENZENE #2	11.03	4879611	19.753	PPB
14)		m,p-XYLENE #2	11.30	5888581	19.754	PPB
15)		o-XYLENE #2	11.78	4947918	19.509	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114015.D
Operator :
Acquired : 14 Jan 2015 19:17 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SBD0114S1
Misc Info : V2-36-17,V2-36-22
Vial Number: 15



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150114\0114001.D\FID2B.CH
Acq On : 14 Jan 2015 10:24 Operator:
Sample : CCVD0114G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 10:53 2015 Quant Results File: 141012DB.RES

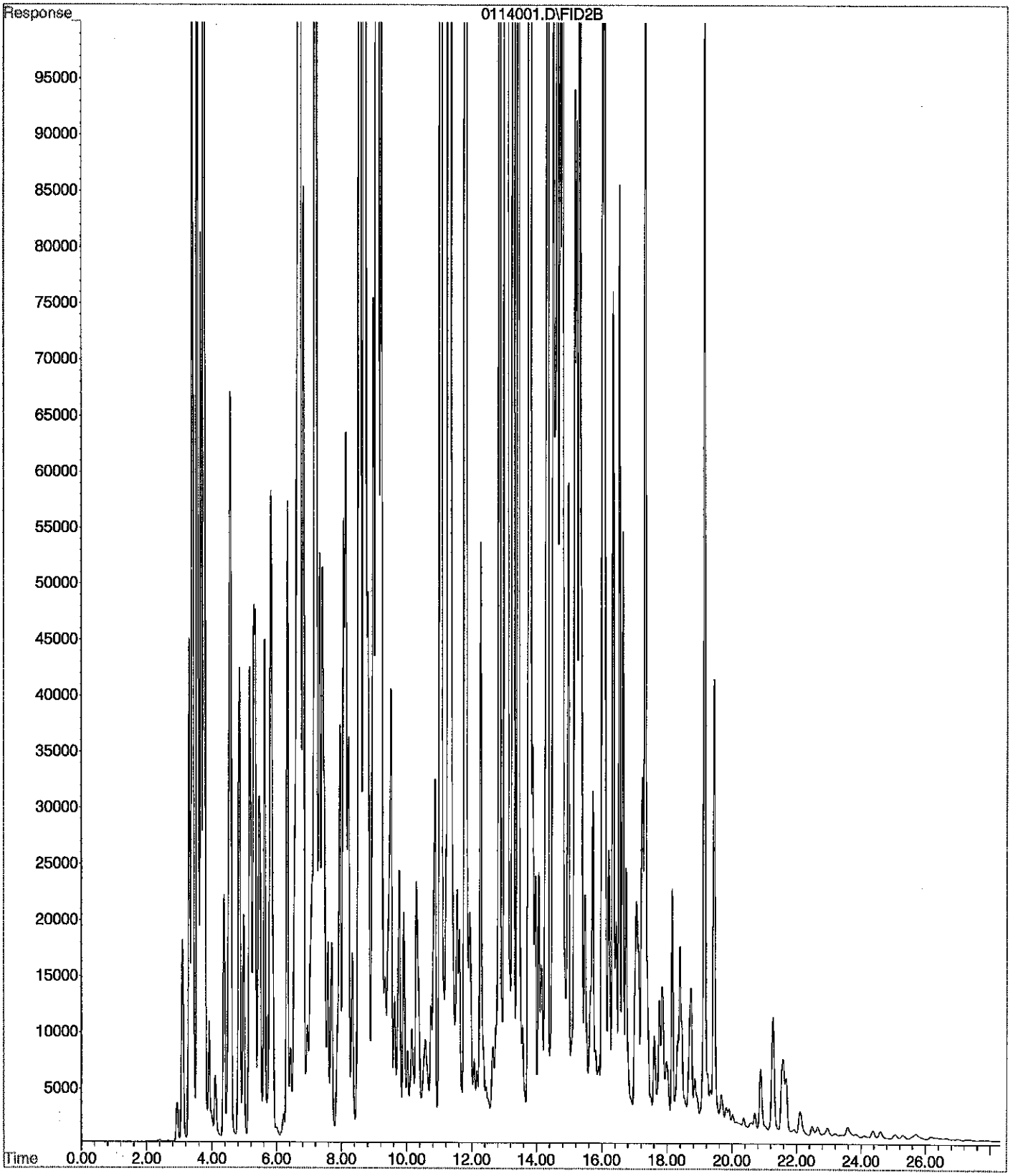
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1282774	31.473	PPB
11)	S	FLUOROBENZENE #2	6.95	437985	1.661	PPB
16)	S	BROMOFLUOROBENZENE #2	12.26	2400825	7.648	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	285796605	5.799	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	383640602	5.865	PPM
3)	H	GASOLINE (9-24-14)	13.51	215157945	5.421	PPM
7)	H	entire GAS envelope #2 (9-	12.26	663906501	4.575	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	497296377	4.474	PPM
9)		MTBE #2	4.56	3646457	49.889	PPB
10)		BENZENE #2	6.68	43907208	149.572	PPB
12)		TOLUENE #2	9.07	111687389	401.714	PPB
13)		ETHYLBENZENE #2	11.03	27596330	112.259	PPB
14)		m,p-XYLENE #2	11.29	100158003	344.750	PPB
15)		o-XYLENE #2	11.78	38209476	152.445	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114001.D
Operator :
Acquired : 14 Jan 2015 10:24 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0114G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114036.D\FID1A.CH Vial: 36
Signal #2 : d:\btex\DATA\D150114\0114036.D\FID2B.CH
Acq On : 15 Jan 2015 7:00 Operator:
Sample : CCVD0114G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 15 7:28 2015 Quant Results File: 141012DB.RES

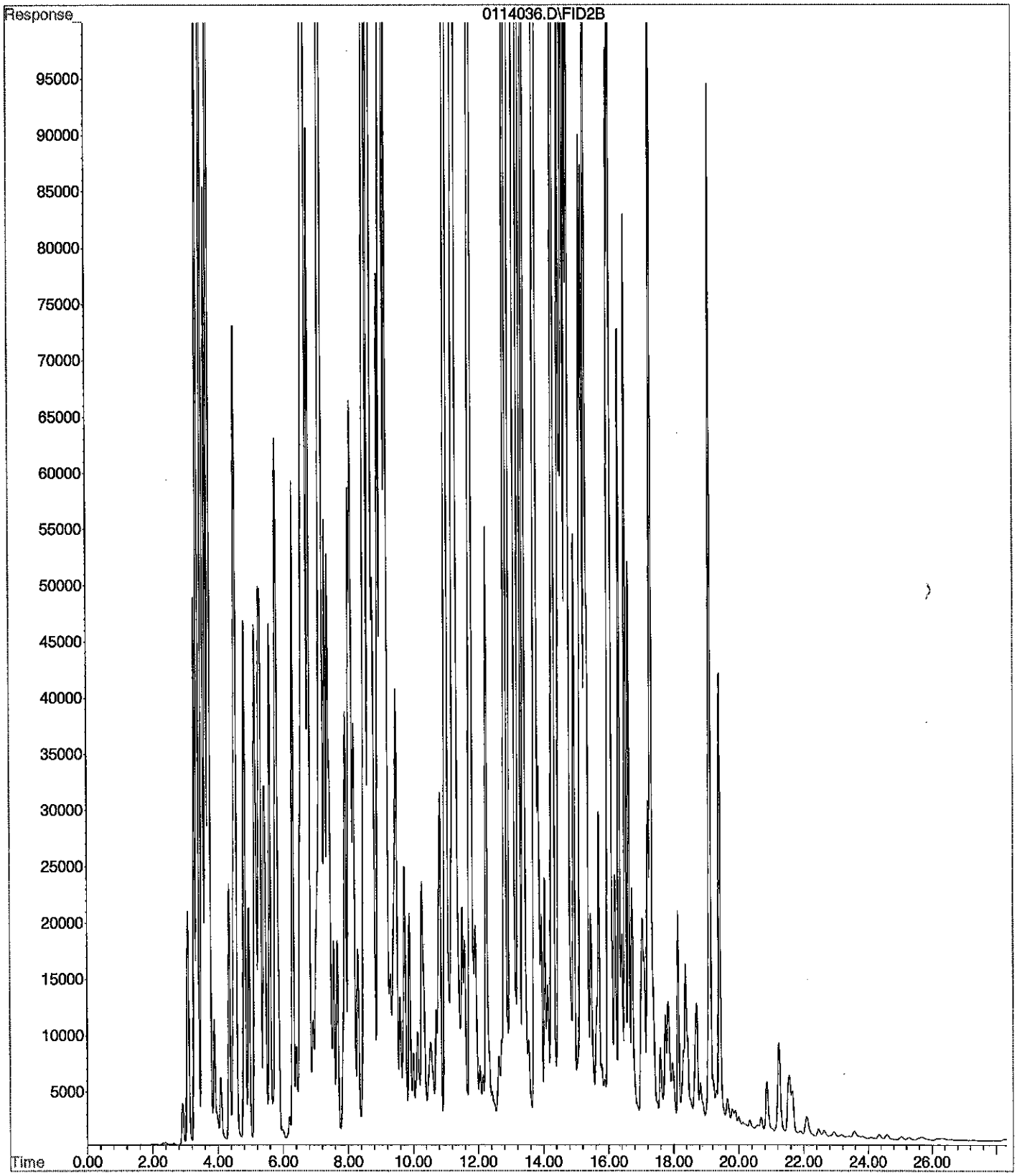
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	7.02	1589081	22.755 PPB
5)	S	BROMOFLUOROBENZENE	12.25	1228740	30.123 PPB
11)	S	FLUOROBENZENE #2	6.93	475701	1.832 PPB
16)	S	BROMOFLUOROBENZENE #2	12.25	2455871	7.834 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	283769661	5.758 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	378807949	5.791 PPM
3)	H	GASOLINE (9-24-14)	13.51	211054756	5.318 PPM
7)	H	entire GAS envelope #2 (9-	12.26	673785399	4.644 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	501552753	4.512 PPM
9)		MTBE #2	0.00	0	N.D. PPB
10)		BENZENE #2	6.67	45664736	155.561 PPB
12)		TOLUENE #2	9.05	116035137	417.358 PPB
13)		ETHYLBENZENE #2	11.02	28067948	114.179 PPB
14)		m,p-XYLENE #2	11.27	103353187	355.765 PPB
15)		o-XYLENE #2	11.77	39084881	155.944 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114036.D
Operator :
Acquired : 15 Jan 2015 7:00 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0114G-2
Misc Info : V2-36-08
Vial Number: 36



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150114\0114002.D\FID2B.CH
Acq On : 14 Jan 2015 10:58 Operator:
Sample : CCVD0114B-1 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 11:26 2015 Quant Results File: 141012DB.RES

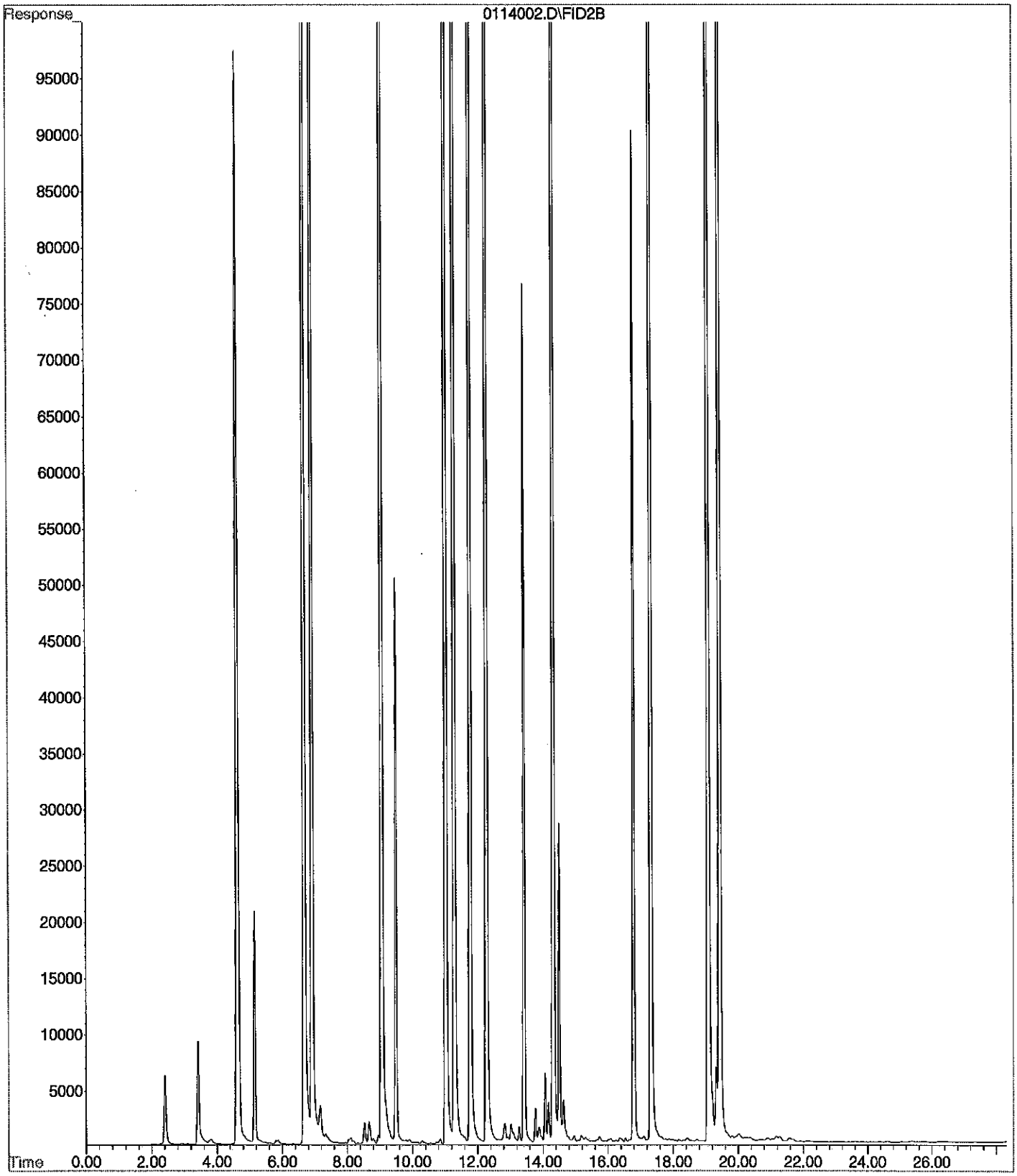
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3412073	49.240 PPB
5)	S	BROMOFLUOROBENZENE	12.28	2008627	49.607 PPB
11)	S	FLUOROBENZENE #2	6.92	8925318	40.250 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	12305509	41.107 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	32878516	0.661 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	59829001	0.905 PPM
3)	H	GASOLINE (9-24-14)	13.51	40480240	1.003 PPM
7)	H	entire GAS envelope #2 (9-	12.26	135679296	0.896 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	90678070	0.767 PPM
9)		MTBE #2	4.63	4517986	61.825 PPB
10)		BENZENE #2	6.68	15177229	51.673 PPB
12)		TOLUENE #2	9.06	14509290	52.032 PPB
13)		ETHYLBENZENE #2	11.03	12611937	51.240 PPB
14)		m,p-XYLENE #2	11.29	15256155	52.049 PPB
15)		o-XYLENE #2	11.78	12733776	50.626 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114002.D
Operator :
Acquired : 14 Jan 2015 10:58 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0114B-1
Misc Info : V2-36-23,V2-36-22
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150114\0114017.D\FID2B.CH
Acq On : 14 Jan 2015 20:23 Operator:
Sample : CCVD0114B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 20:52 2015 Quant Results File: 141012DB.RES

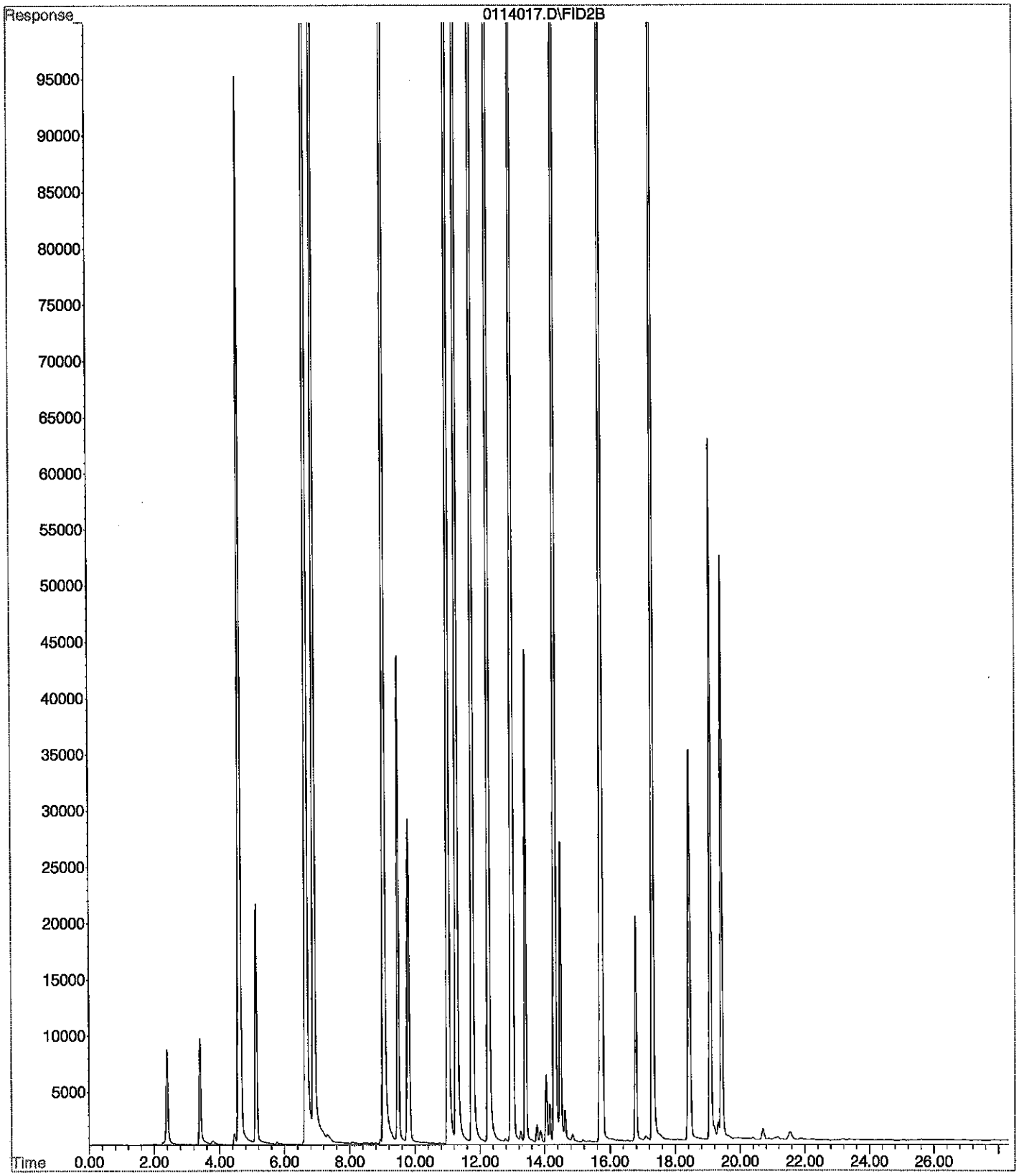
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3267550	47.140	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1912239	47.199	PPB
11)	S	FLUOROBENZENE #2	6.91	8790556	39.637	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11892920	39.713	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	31251081	0.628	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48497582	0.732	PPM
3)	H	GASOLINE (9-24-14)	13.51	33509602	0.826	PPM
7)	H	entire GAS envelope #2 (9-	12.26	122376655	0.804	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	94461500	0.802	PPM
9)		MTBE #2	4.62	4421566	60.504	PPB
10)		BENZENE #2	6.67	15066758	51.296	PPB
12)		TOLUENE #2	9.05	14037313	50.334	PPB
13)		ETHYLBENZENE #2	11.02	12377227	50.284	PPB
14)		m,p-XYLENE #2	11.28	14764394	50.353	PPB
15)		o-XYLENE #2	11.77	12463595	49.547	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114017.D
Operator :
Acquired : 14 Jan 2015 20:23 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0114B-2
Misc Info : V2-36-23,V2-36-22
Vial Number: 17



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114008.D Vial: 8
Acq On : 14 Jan 2015 15:06 Operator:
Sample : 01-068-03a Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 15:34 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.09	2818866	37.096 PPB
11)	S	BROMOFLUOROBENZENE #2	14.68	3235899	40.373 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	976555	N.D. PPM
3)	H	GASOLINE #2	14.96	280411	N.D. PPM
4)		MTBE #2	6.65	81	0.007 PPB
5)		BENZENE #2	8.87	5581	0.044 PPB
7)		TOLUENE #2	11.36	22735	0.230 PPB
8)		ETHYLBENZENE #2	13.35	218	N.D. PPB
9)		m,p-XYLENE #2	13.67	21953	0.174 PPB
10)		o-XYLENE #2	14.19	8289	0.072 PPB

1/15

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

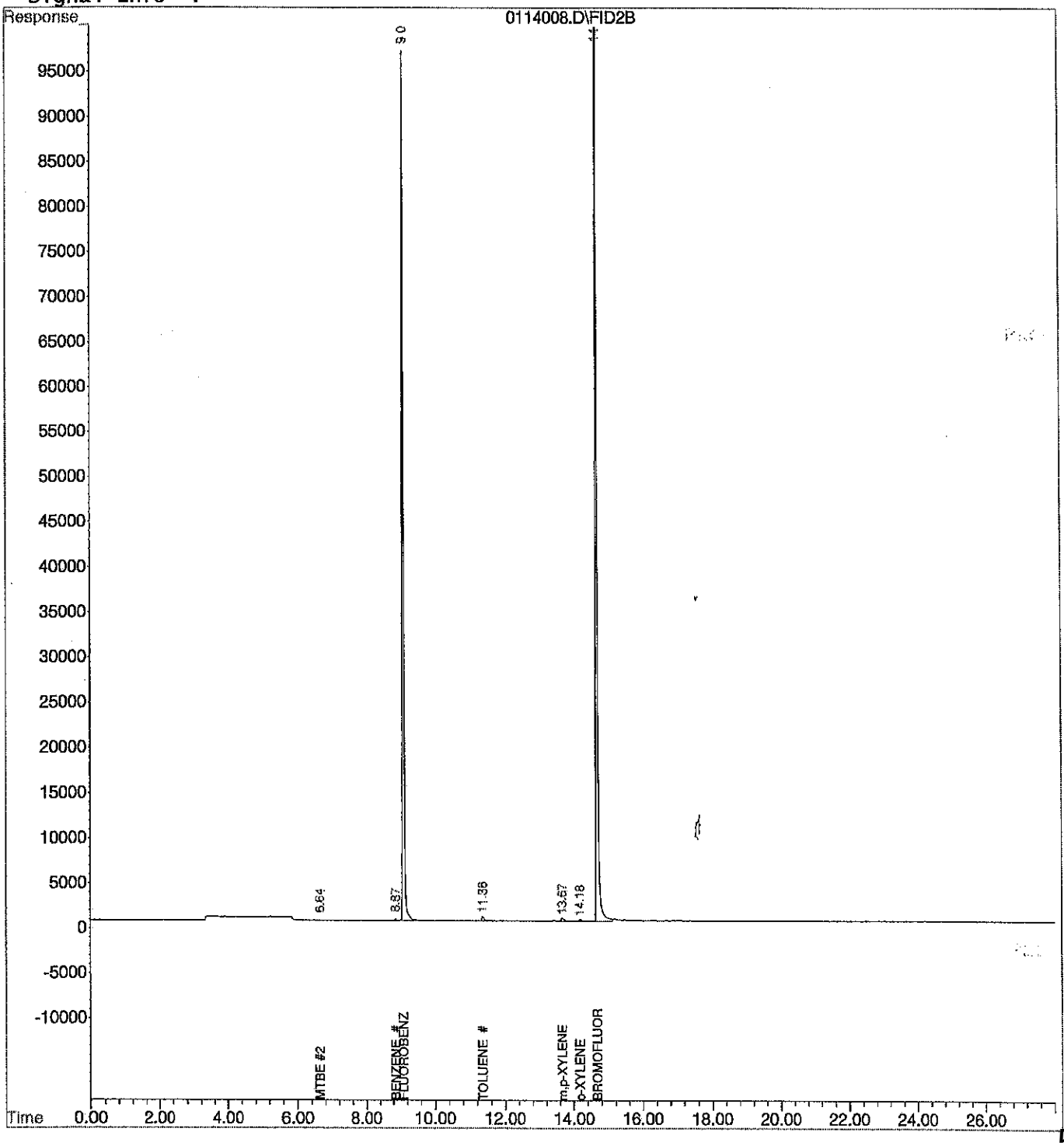
Data File : d:\archon\DATA\H150114\0114008.D Vial: 8
Acq On : 14 Jan 2015 15:06 Operator:
Sample : 01-068-03a Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 15:34 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114005.D
Acq On : 14 Jan 2015 13:25
Sample : MB0114W2
Misc : V2-36-17

Vial: 5
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 13:53 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2790609	36.722 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	3251122	40.565 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	871928	N.D. PPM
3)	H	GASOLINE #2	14.96	244215	N.D. PPM
4)		MTBE #2	6.66	836	0.024 PPB
5)		BENZENE #2	8.88	9192	0.078 PPB
7)		TOLUENE #2	11.37	43778	0.470 PPB
8)		ETHYLBENZENE #2	13.42	18828	0.256 PPB
9)		m,p-XYLENE #2	13.66	44615	0.456 PPB
10)		o-XYLENE #2	14.19	18260	0.221 PPB

1/14

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

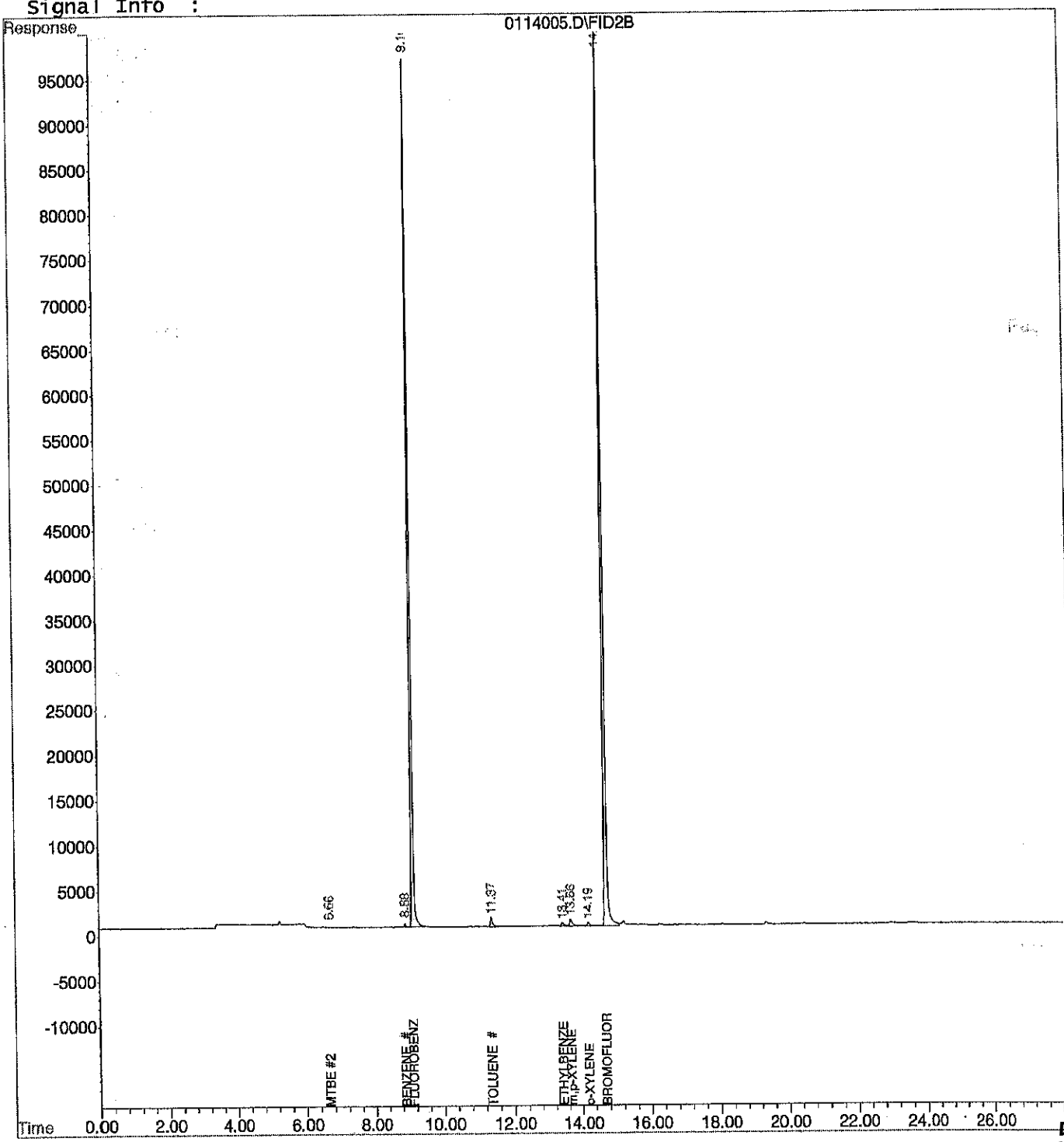
Data File : d:\archon\DATA\H150114\0114005.D Vial: 5
Acq On : 14 Jan 2015 13:25 Operator:
Sample : MB0114W2 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 13:53 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114006.D Vial: 6
Acq On : 14 Jan 2015 13:58 Operator:
Sample : 01-073-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 14:27 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.10	2876047	37.853	PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3318027	41.408	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	1141269	N.D.	PPM
3)	H	GASOLINE #2	14.96	340772	N.D.	PPM
4)		MTBE #2	6.65	364	0.014	PPB
5)		BENZENE #2	8.88	10829	0.093	PPB
7)		TOLUENE #2	11.37	25197	0.258	PPB
8)		ETHYLBENZENE #2	13.34	421	N.D.	PPB
9)		m,p-XYLENE #2	13.66	33111	0.313	PPB
10)		o-XYLENE #2	14.19	14015	0.157	PPB

1/14

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114006.D
Acq On : 14 Jan 2015 13:58
Sample : 01-073-01c
Misc : V2-36-17

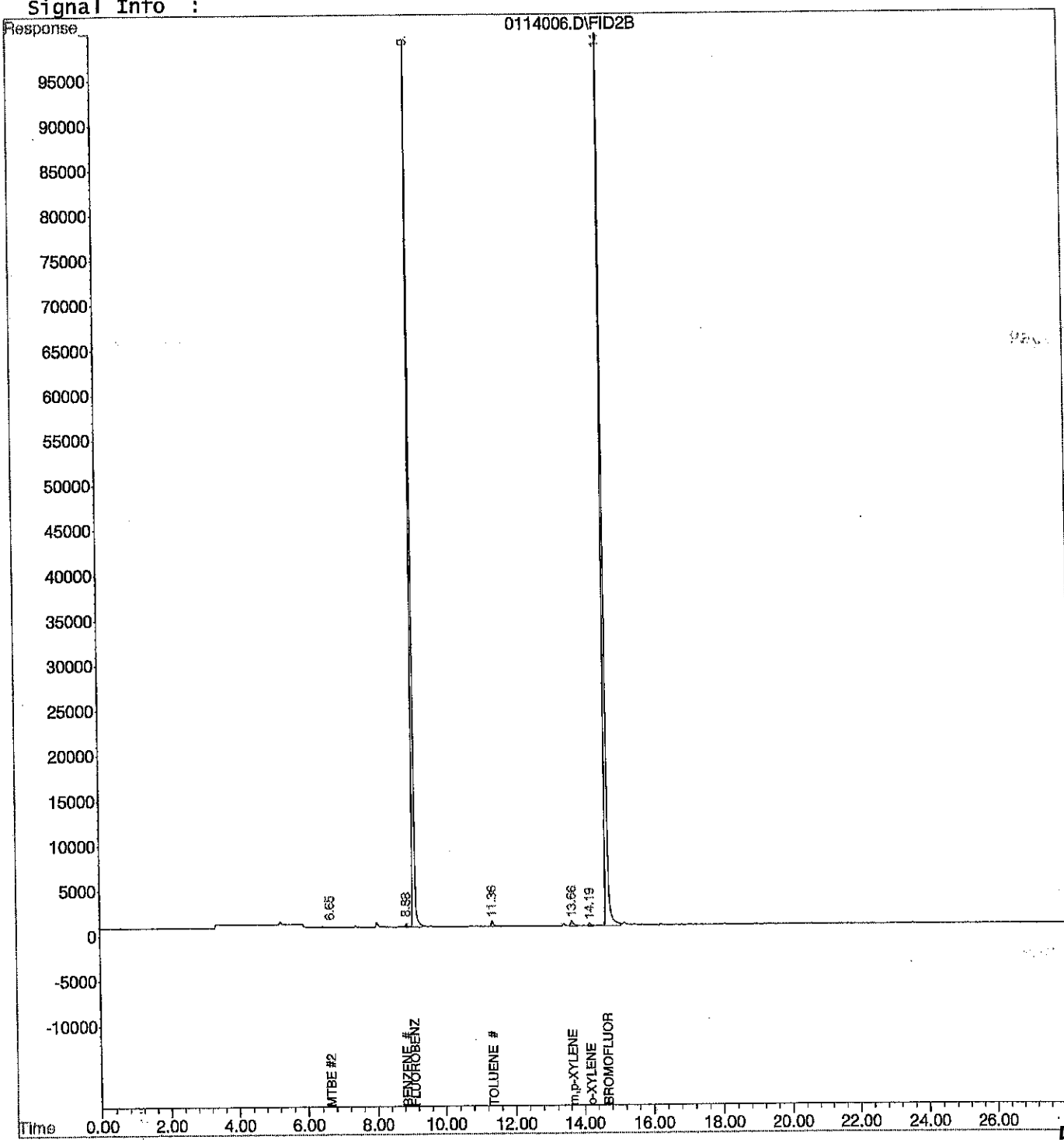
Vial: 6
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 14:27 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114007.D
Acq On : 14 Jan 2015 14:32
Sample : 01-073-01c DUP
Misc : V2-36-17

Vial: 7
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 15:00 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.10	2885018	37.972 PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3331122	41.573 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	810075	N.D. PPM
3)	H	GASOLINE #2	14.96	194688	N.D. PPM
4)		MTBE #2	6.65	230	0.010 PPB
5)		BENZENE #2	8.88	10991	0.095 PPB
7)		TOLUENE #2	11.37	19953	0.198 PPB
8)		ETHYLBENZENE #2	13.85	183	N.D. PPB
9)		m,p-XYLENE #2	13.66	28466	0.255 PPB
10)		o-XYLENE #2	14.19	12285	0.132 PPB

1/15 ✓

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

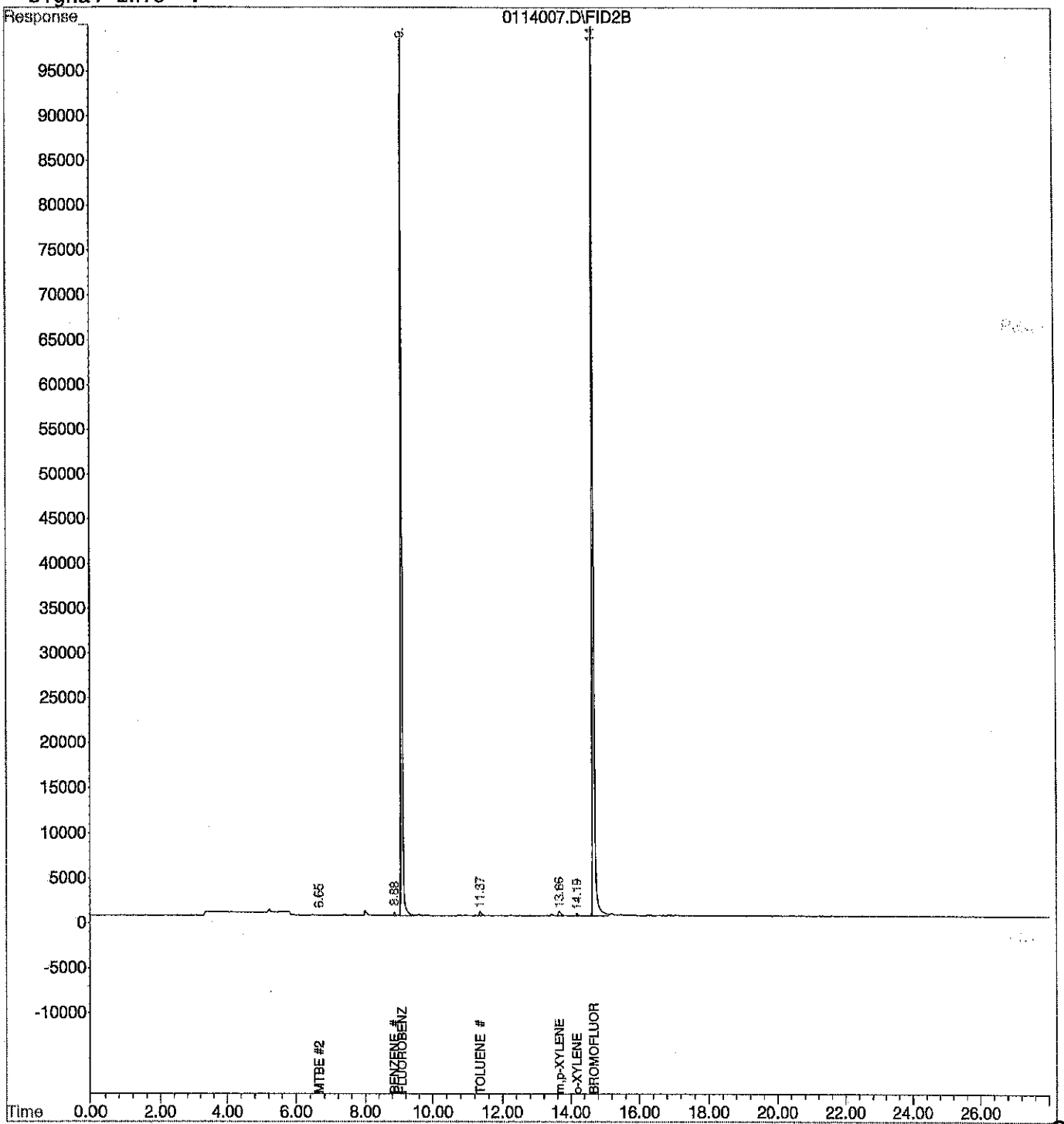
Data File : d:\archon\DATA\H150114\0114007.D Vial: 7
Acq On : 14 Jan 2015 14:32 Operator:
Sample : 01-073-01c DUP Inst : HOPE
Misc : V2-36-17 MultiplIr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 15:00 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114021.D\FID1A.CH Vial: 21
Signal #2 : d:\btex\DATA\D150114\0114021.D\FID2B.CH
Acq On : 14 Jan 2015 22:36 Operator:
Sample : 01-073-01c MS Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

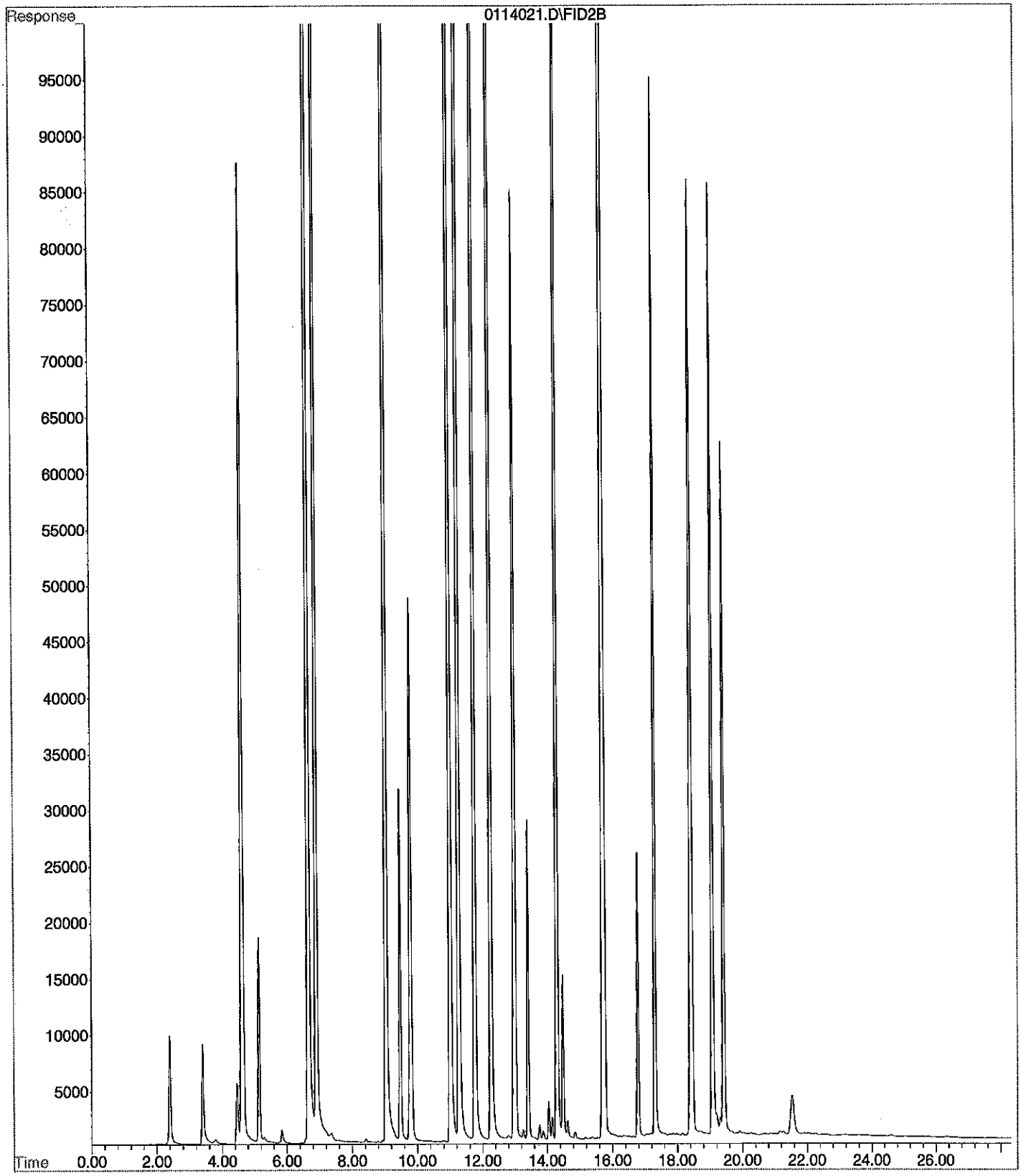
Quant Time: Jan 14 23:05 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3080149	44.418 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1596301	39.306 PPB
11)	S	FLUOROBENZENE #2	6.91	8298370	37.399 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	9975300	33.235 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	27888590	0.560 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	42321976	0.637 PPM
3)	H	GASOLINE (9-24-14)	13.51	27695937	0.679 PPM
7)	H	entire GAS envelope #2 (9-	12.26	111993626	0.731 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	80477842	0.674 PPM
9)		MTBE #2	4.62	4115346	56.310 PPB
10)		BENZENE #2	6.66	14443682	49.173 PPB
12)		TOLUENE #2	9.05	13394406	48.020 PPB
13)		ETHYLBENZENE #2	11.02	11382671	46.234 PPB
14)		m,p-XYLENE #2	11.28	13494512	45.975 PPB
15)		o-XYLENE #2	11.77	11221405	44.582 PPB

File : X:\BTEX\DARYL\DATA\D150114\0114021.D
Operator :
Acquired : 14 Jan 2015 22:36 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-073-01c MS
Misc Info : V2-36-23,V2-36-22
Vial Number: 21



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114022.D\FID1A.CH Vial: 22
Signal #2 : d:\btex\DATA\D150114\0114022.D\FID2B.CH
Acq On : 14 Jan 2015 23:10 Operator:
Sample : 01-073-01c MSD Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

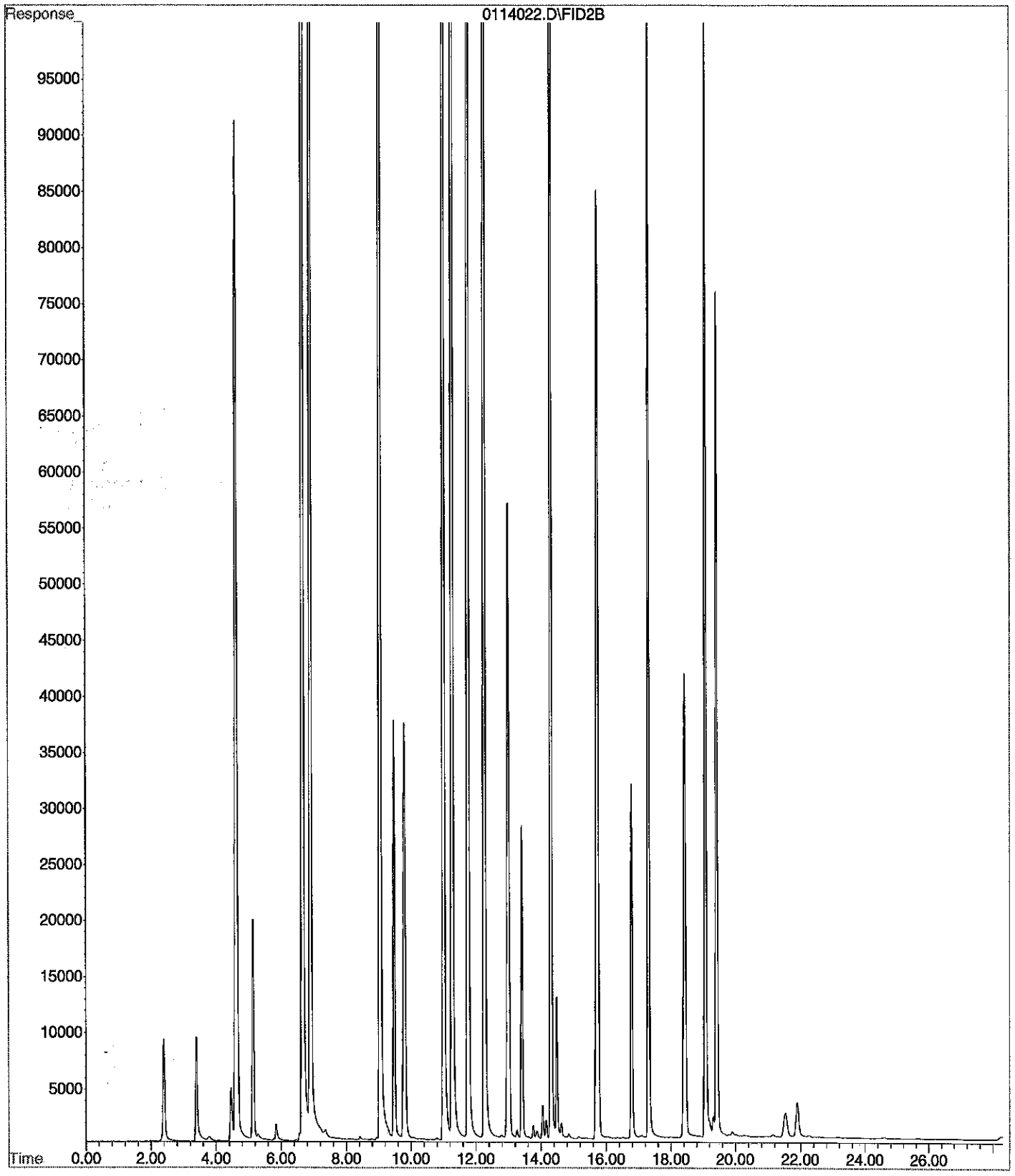
Quant Time: Jan 14 23:39 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3340669	48.203 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1709903	42.144 PPB
11)	S	FLUOROBENZENE #2	6.91	9027261	40.713 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	10673395	35.593 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28753802	0.577 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	42066926	0.633 PPM
3)	H	GASOLINE (9-24-14)	13.51	27305726	0.669 PPM
7)	H	entire GAS envelope #2 (9-	12.26	103881489	0.675 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	73429032	0.610 PPM
9)		MTBE #2	4.62	4304004	58.894 PPB
10)		BENZENE #2	6.67	14822776	50.465 PPB
12)		TOLUENE #2	9.05	13743208	49.276 PPB
13)		ETHYLBENZENE #2	11.02	11780135	47.853 PPB
14)		m,p-XYLENE #2	11.28	13936144	47.498 PPB
15)		o-XYLENE #2	11.77	11375883	45.199 PPB

File : X:\BTEX\DARYL\DATA\D150114\0114022.D
Operator :
Acquired : 14 Jan 2015 23:10 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-073-01c MSD
Misc Info : V2-36-23,V2-36-22
Vial Number: 22



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114001.D
Acq On : 14 Jan 2015 11:10
Sample : CCVH0114G-1
Misc : V2-37-08

Vial: 1
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 11:38 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.12	3226207	42.488 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	4571170	57.193 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	173596525	5.035 PPM
3)	H	GASOLINE #2	14.96	136170687	5.069 PPM
4)		MTBE #2	6.67	57105	1.301 PPB
5)		BENZENE #2	8.88	13081840	123.553 PPB
7)		TOLUENE #2	11.36	37822597	431.404 PPB
8)		ETHYLBENZENE #2	13.38	7573576	107.826 PPB
9)		m,p-XYLENE #2	13.64	28356006	352.945 PPB
10)		o-XYLENE #2	14.17	10506914	156.213 PPB

1/14

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114001.D
Acq On : 14 Jan 2015 11:10
Sample : CCVH0114G-1
Misc : V2-37-08

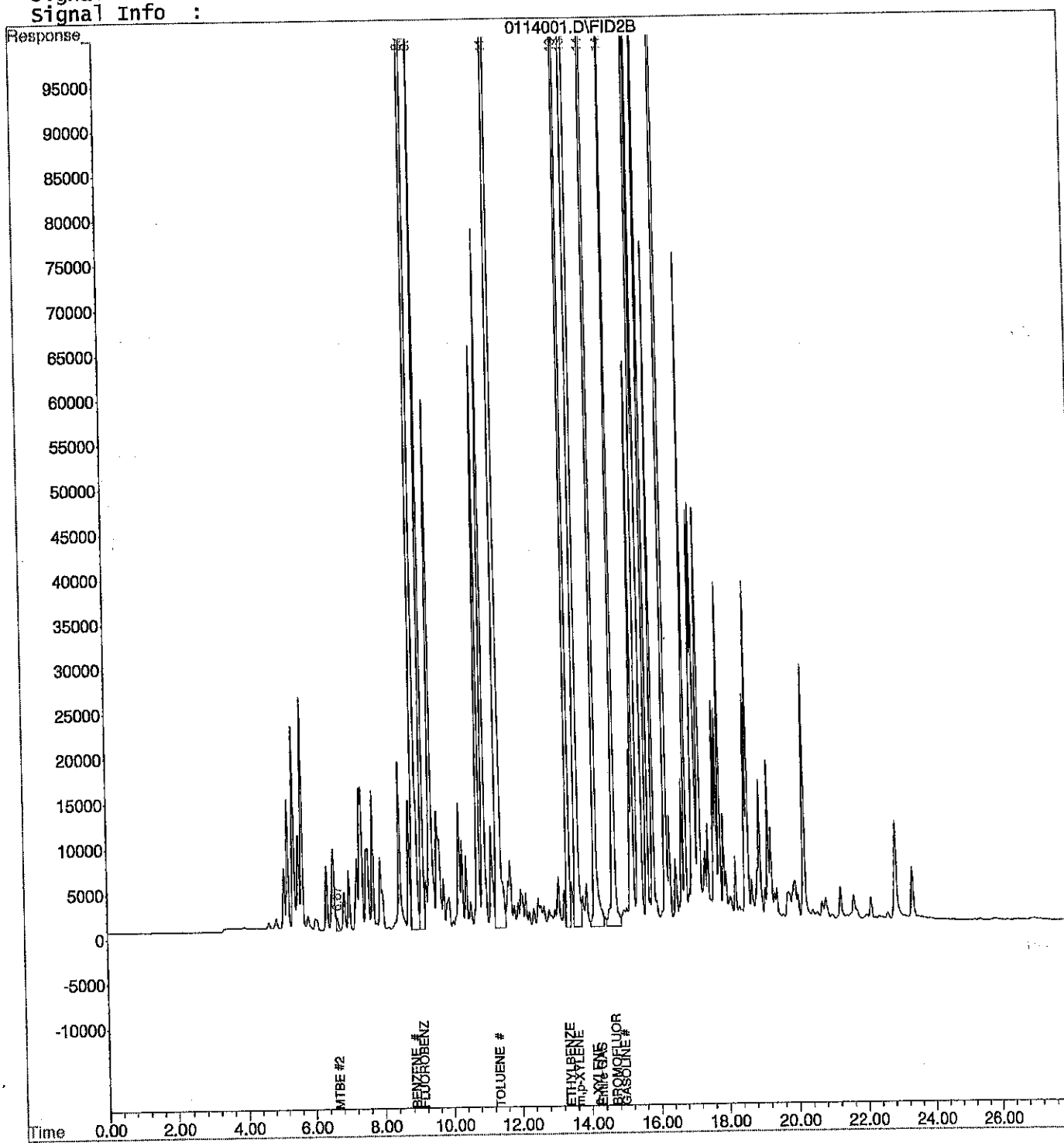
Vial: 1
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 11:38 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114017.D Vial: 17
Acq On : 14 Jan 2015 20:07 Operator:
Sample : CCVH0114G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 14 20:35 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.08	2915952	38.381	PPB
11)	S	BROMOFLUOROBENZENE #2	14.67	3834489	47.913	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	168170462	4.876	PPM
3)	H	GASOLINE #2	14.96	131745057	4.903	PPM
4)		MTBE #2	6.63	59563	1.357	PPB
5)		BENZENE #2	8.85	13068007	123.422	PPB
7)		TOLUENE #2	11.32	36554004	416.934	PPB
8)		ETHYLBENZENE #2	13.34	7291243	103.806	PPB
9)		m,p-XYLENE #2	13.60	27474935	341.975	PPB
10)		o-XYLENE #2	14.13	10233395	152.145	PPB

11/15

Quantitation Report (Not Reviewed)

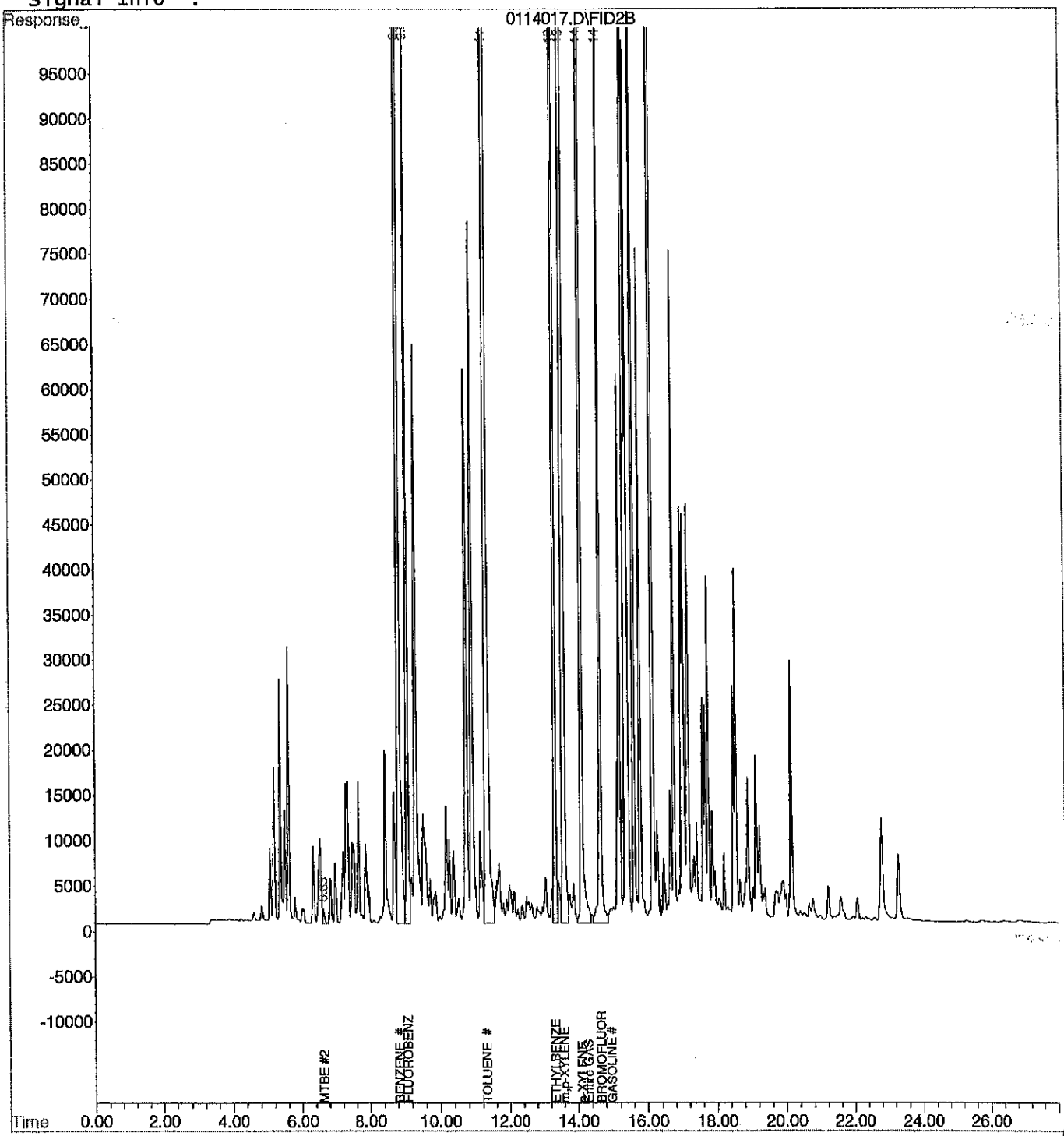
Data File : d:\archon\DATA\H150114\0114017.D Vial: 17
Acq On : 14 Jan 2015 20:07 Operator:
Sample : CCVH0114G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 20:35 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114003.D
Acq On : 14 Jan 2015 12:17
Sample : CCVH0114B-1
Misc : V2-36-17,V2-36-22

Vial: 3
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 12:45 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2950286	38.836 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	3422959	42.730 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	33481935	0.929 PPM
3)	H	GASOLINE #2	14.96	21682830	0.783 PPM
4)		MTBE #2	6.65	1926322	43.715 PPB
5)		BENZENE #2	8.87	5021360	47.419 PPB
7)		TOLUENE #2	11.34	4274152	48.725 PPB
8)		ETHYLBENZENE #2	13.38	3369086	47.960 PPB
9)		m,p-XYLENE #2	13.64	3911133	48.596 PPB
10)		o-XYLENE #2	14.16	3207814	47.657 PPB

1/14

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114003.D
Acq On : 14 Jan 2015 12:17
Sample : CCVH0114B-1
Misc : V2-36-17,V2-36-22

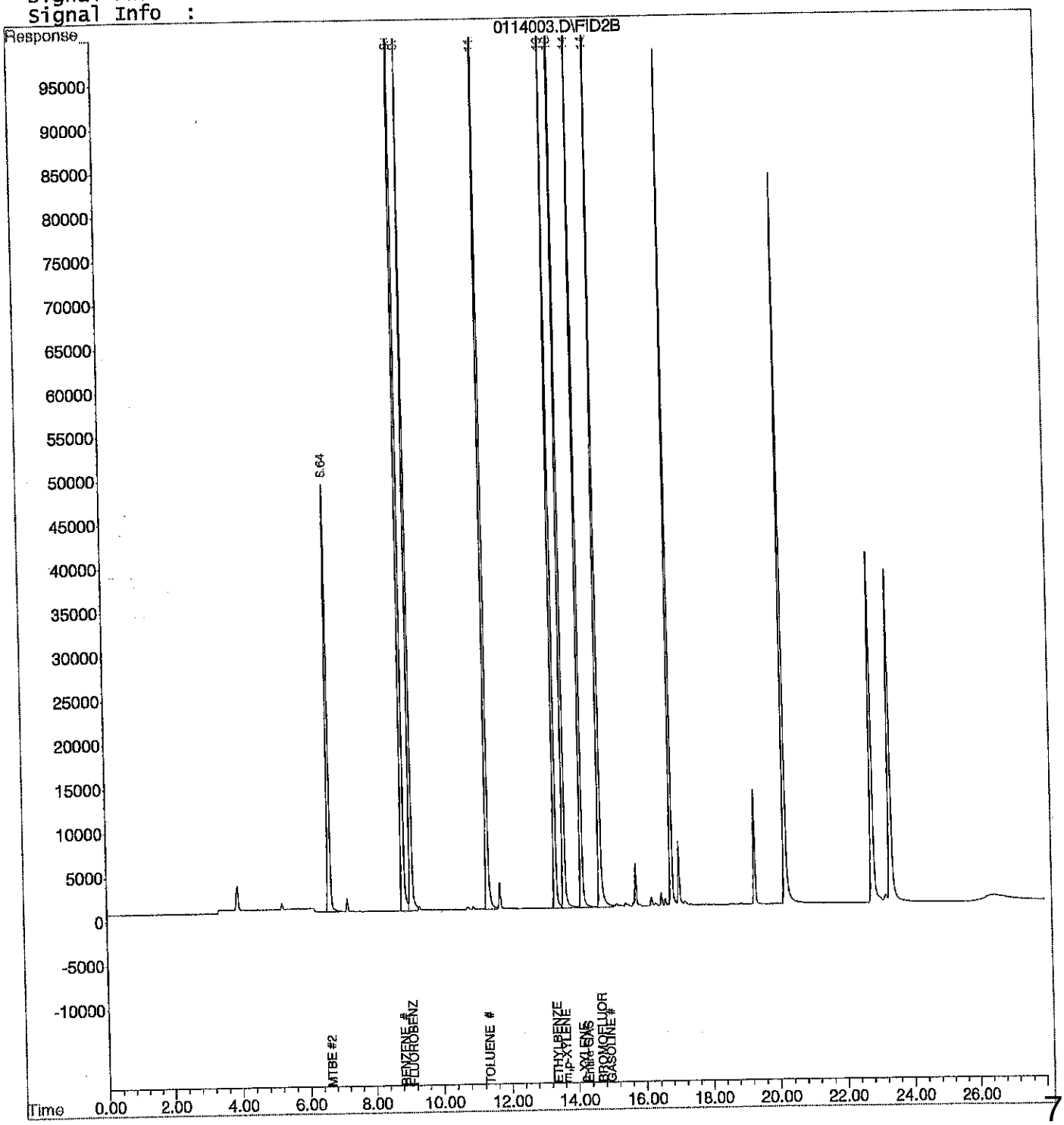
Vial: 3
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 12:45 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114016.D Vial: 16
Acq On : 14 Jan 2015 19:34 Operator:
Sample : CCVH0114B-2 Inst : HOPE
Misc : V2-36-17,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 20:02 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.10	2909007	38.289 PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3334688	41.618 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	33279219	0.923 PPM
3)	H	GASOLINE #2	14.96	21690328	0.784 PPM
4)		MTBE #2	6.64	1925663	43.700 PPB
5)		BENZENE #2	8.86	5027738	47.480 PPB
7)		TOLUENE #2	11.33	4309947	49.133 PPB
8)		ETHYLBENZENE #2	13.37	3464731	49.322 PPB
9)		m,p-XYLENE #2	13.63	4001296	49.718 PPB
10)		o-XYLENE #2	14.15	3307031	49.133 PPB

1/15

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : d:\archon\DATA\H150114\0114016.D
Acq On : 14 Jan 2015 19:34
Sample : CCVH0114B-2
Misc : V2-36-17,V2-36-22

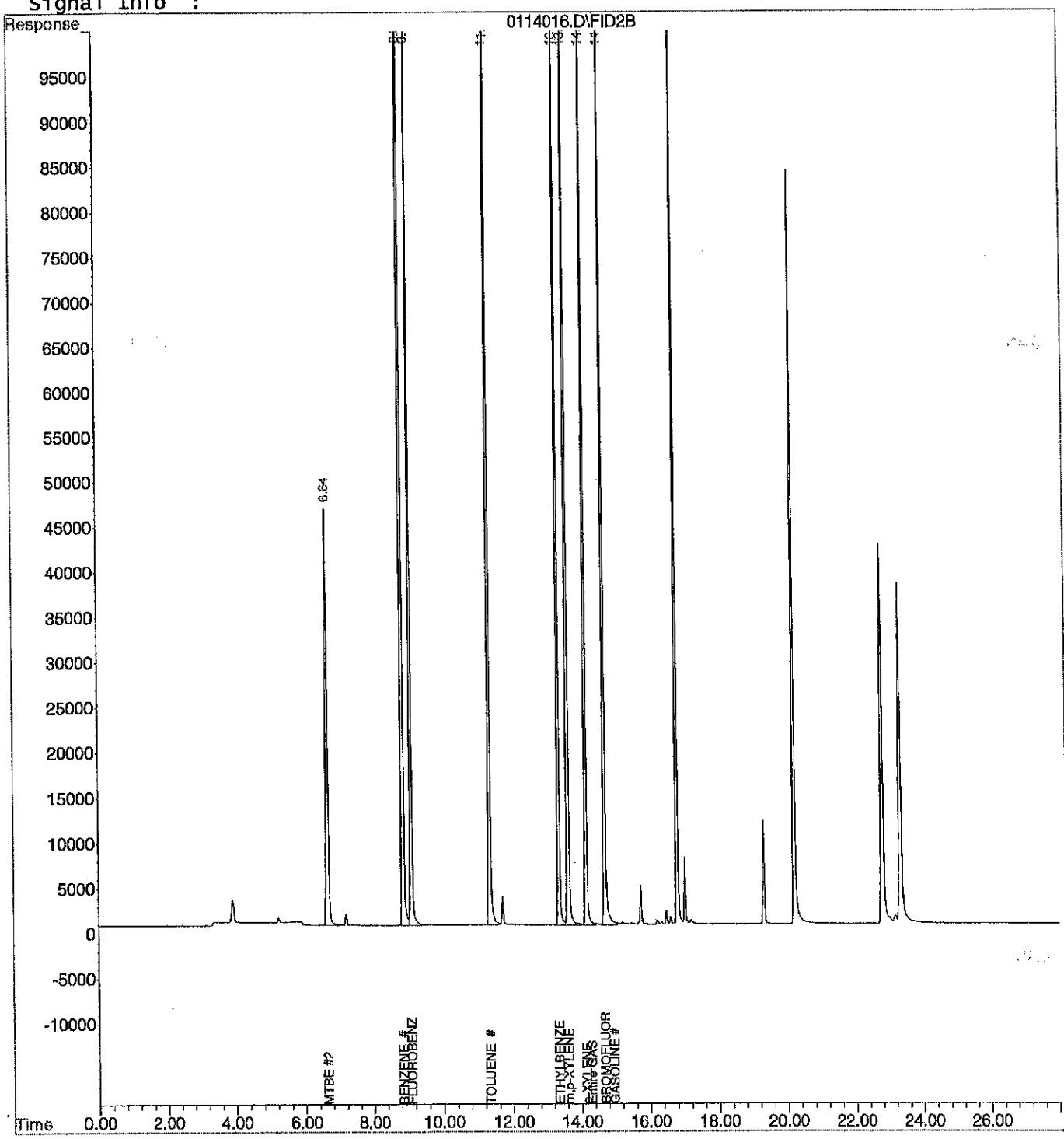
Vial: 16
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 14 20:02 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150114\0114017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150114\0114017.D\FID2B.CH
Acq On : 14 Jan 2015 20:23 Operator:
Sample : CCVD0114B-2 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 14 20:52 2015 Quant Results File: 141012DB.RES

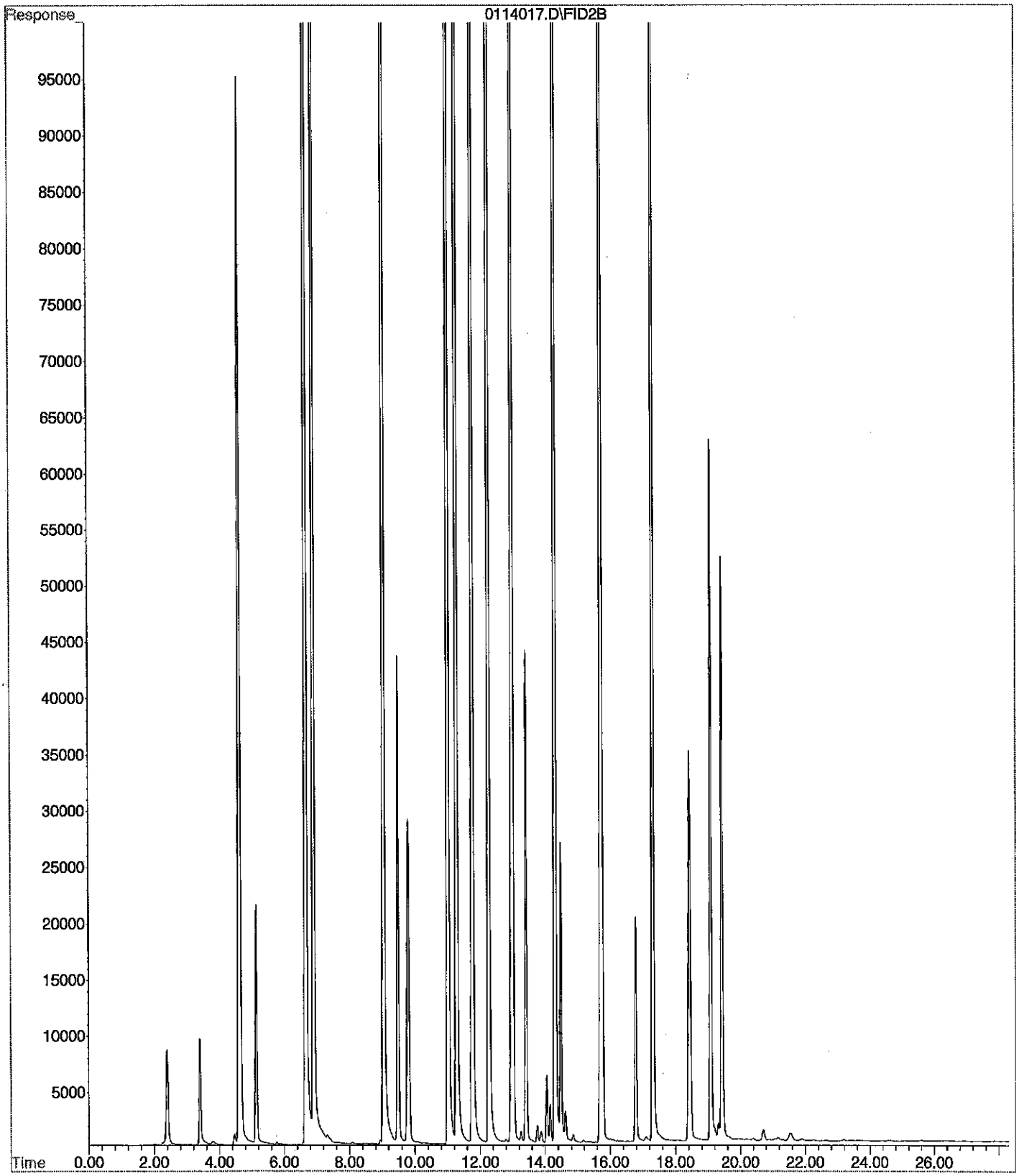
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3267550	47.140 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1912239	47.199 PPB
11)	S	FLUOROBENZENE #2	6.91	8790556	39.637 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11892920	39.713 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	31251081	0.628 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48497582	0.732 PPM
3)	H	GASOLINE (9-24-14)	13.51	33509602	0.826 PPM
7)	H	entire GAS envelope #2 (9-	12.26	122376655	0.804 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	94461500	0.802 PPM
9)		MTBE #2	4.62	4421566	60.504 PPB
10)		BENZENE #2	6.67	15066758	51.296 PPB
12)		TOLUENE #2	9.05	14037313	50.334 PPB
13)		ETHYLBENZENE #2	11.02	12377227	50.284 PPB
14)		m,p-XYLENE #2	11.28	14764394	50.353 PPB
15)		o-XYLENE #2	11.77	12463595	49.547 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150114\0114017.D
Operator :
Acquired : 14 Jan 2015 20:23 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0114B-2
Misc Info : V2-36-23,V2-36-22
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150114\0114035.D\FID1A.CH Vial: 35
Signal #2 : X:\BTEX\DARYL\DATA\D150114\0114035.D\FID2B.CH
Acq On : 15 Jan 2015 6:26 Operator:
Sample : CCVD0114B-3 Inst : Daryl
Misc : V2-36-23,V2-36-22 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

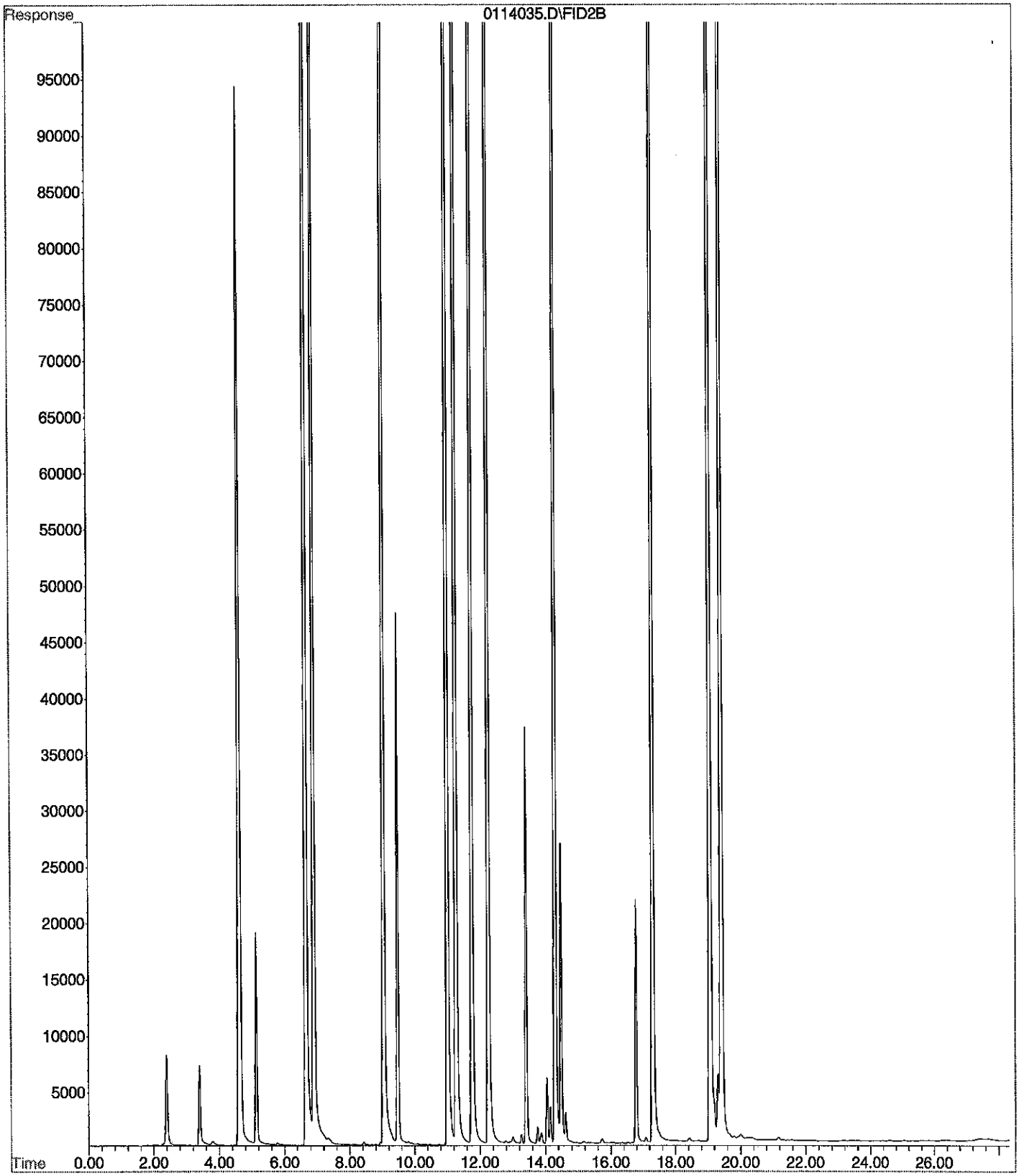
Quant Time: Jan 15 6:55 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3034355	43.752	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1785600	44.035	PPB
11)	S	FLUOROBENZENE #2	6.90	8135899	36.661	PPB
16)	S	BROMOFLUOROBENZENE #2	12.26	11047548	36.857	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	29287515	0.588	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48706481	0.735	PPM
3)	H	GASOLINE (9-24-14)	13.51	32199165	0.793	PPM
7)	H	entire GAS envelope #2 (9-	12.26	122770725	0.806	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	81403606	0.683	PPM
9)		MTBE #2	4.62	4442352	60.789	PPB
10)		BENZENE #2	6.66	14379821	48.956	PPB
12)		TOLUENE #2	9.05	13604937	48.778	PPB
13)		ETHYLBENZENE #2	11.02	12051071	48.956	PPB
14)		m,p-XYLENE #2	11.28	14355873	48.945	PPB
15)		o-XYLENE #2	11.77	12148285	48.286	PPB

File : X:\BTEX\DARYL\DATA\D150114\0114035.D
Operator :
Acquired : 15 Jan 2015 6:26 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0114B-3
Misc Info : V2-36-23,V2-36-22
Vial Number: 35



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0115-V56.D
Sample : 01-068-01 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 12:26
Operator :
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 13:02:32 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.734	127217941	45.042	PPM
Spiked Amount	50.000		Recovery =	90.08%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	15262545	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	17427810	5.951	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	13554598	3.868	PPM
6) H	Oil (01-08-15)	22.000	43067776	7.142	PPM
7) H	Oil Acid Clean (01-0...	22.000	43067776	3.056	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	12880311	3.670	PPM
9) H	Oil Combo (01-08-15)	22.000	42412127	7.089	PPM
10) H	Oil Acid Clean Combo ...	22.000	42412127	2.864	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	14873447	0.563	PPM
12) H	Alaska 103 Oil (06-2...	22.000	16027348	3.630	PPM
13) H	Mineral Oil (10-06-14)	16.000	8856373	2.414	PPM
14) H	Bunker C ACU (Fuel O...	15.000	52413558	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	52413558	25.086	PPM
16) H	ALKANE C9-C40	12.666	57510439	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	6663570	2.250	PPM
18) H	Oil Acid Clean MO Com...	22.000	41849688	2.729	PPM
19) H	Oil MO Combo (01-08-15)	22.000	41849688	7.146	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

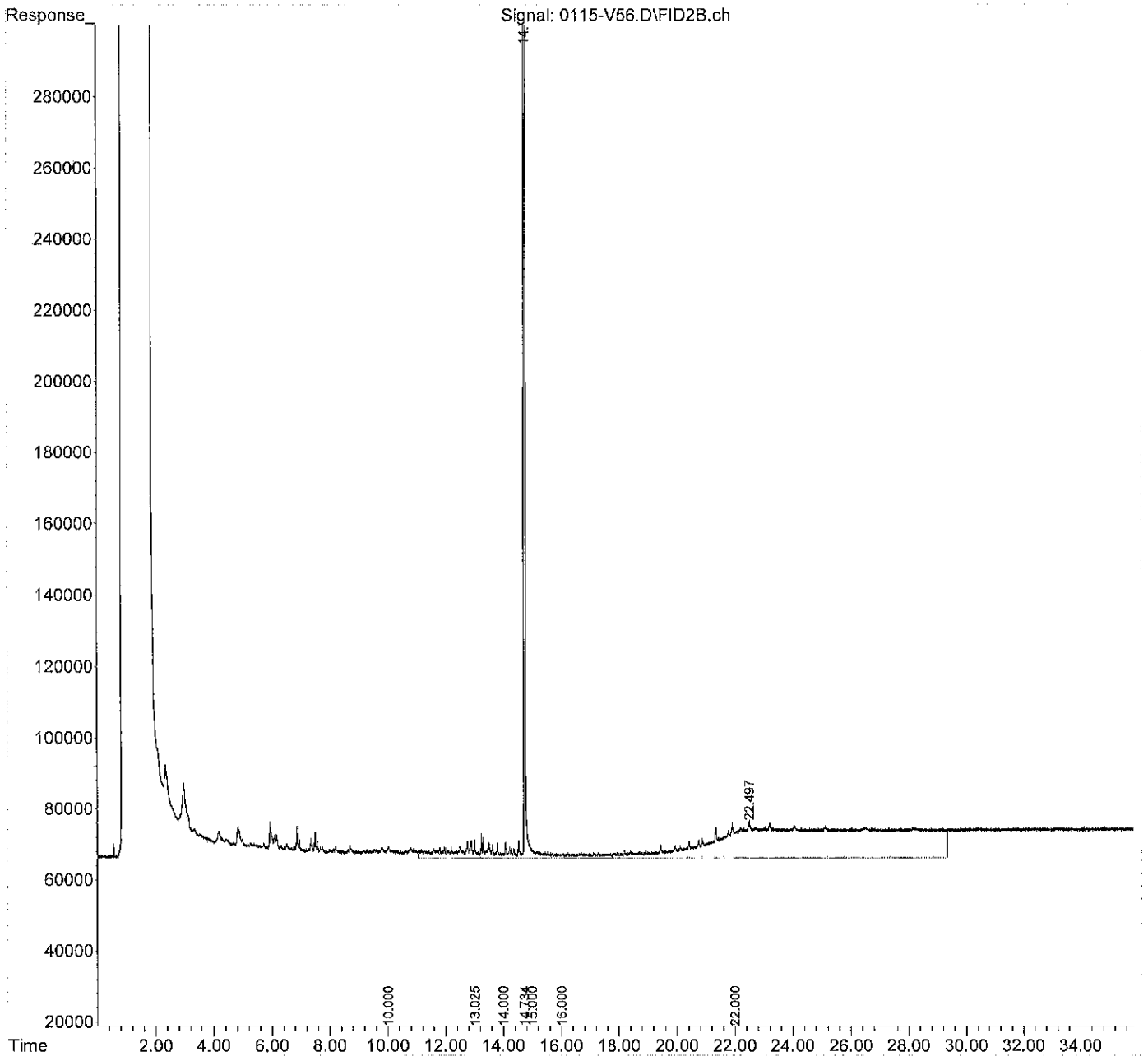
Quantitation Report (Not Reviewed)

Data File : 0115-V56.D
Sample : 01-068-01 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 12:26
Operator :
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 13:02:32 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0115-V57.D
Sample : 01-068-02 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 13:06
Operator :
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 13:43:22 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.736	141318043	50.049	PPM
Spiked Amount	50.000		Recovery =	100.10%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	14899321	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	18302630	6.346	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	14772065	4.457	PPM
6) H	Oil (01-08-15)	22.000	43118430	7.170	PPM
7) H	Oil Acid Clean (01-0...	22.000	43118430	3.086	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	13971284	4.208	PPM
9) H	Oil Combo (01-08-15)	22.000	42352465	7.055	PPM
10) H	Oil Acid Clean Combo ...	22.000	42352465	2.828	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	16076993	1.027	PPM
12) H	Alaska 103 Oil (06-2...	22.000	16260716	3.835	PPM
13) H	Mineral Oil (10-06-14)	16.000	9567971	2.713	PPM
14) H	Bunker C ACU (Fuel O...	15.000	53465324	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	53465324	25.891	PPM
16) H	ALKANE C9-C40	12.666	58453239	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	7124200	2.451	PPM
18) H	Oil Acid Clean MO Com...	22.000	41682948	2.625	PPM
19) H	Oil MO Combo (01-08-15)	22.000	41682948	7.049	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

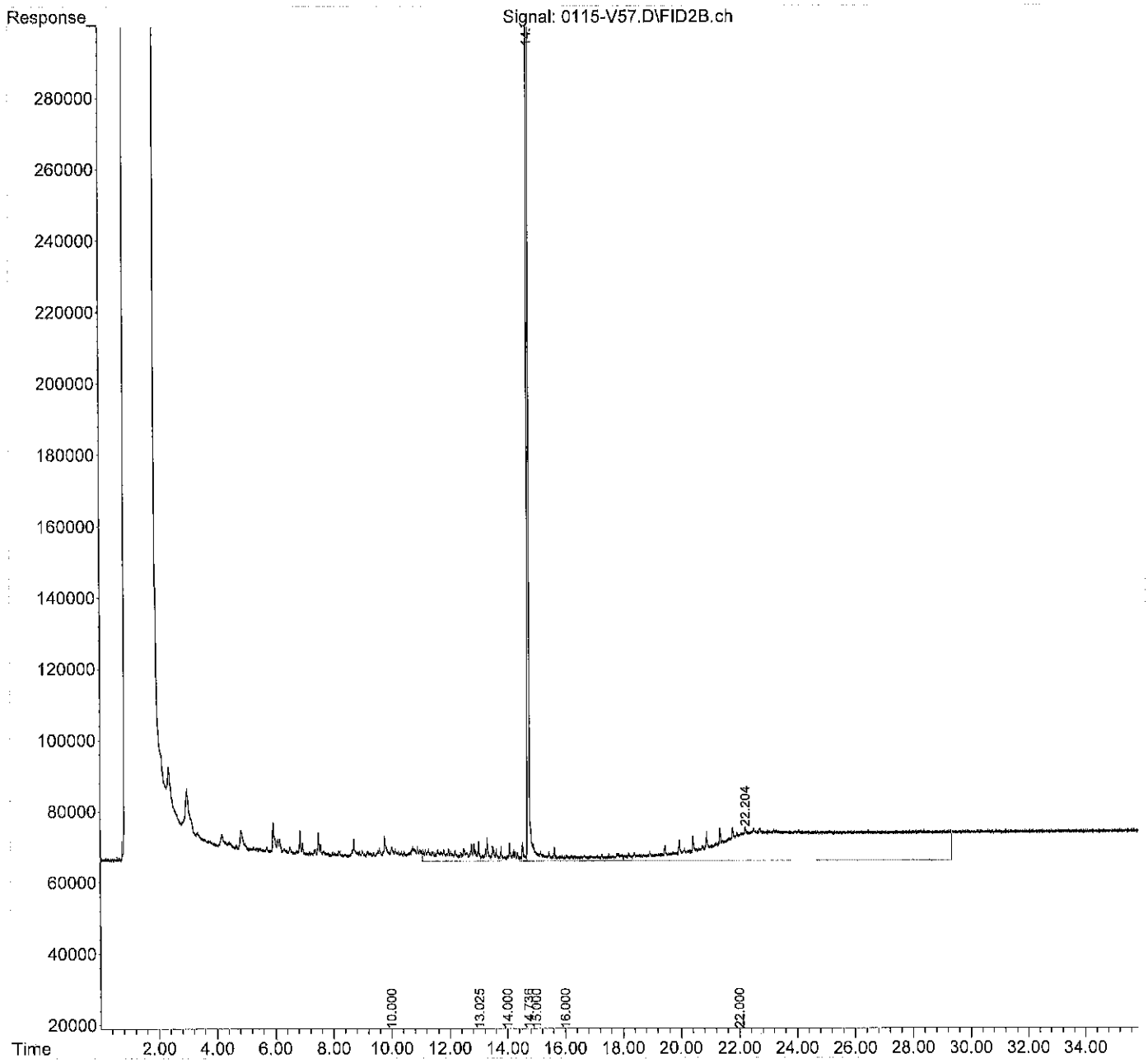
Quantitation Report (Not Reviewed)

Data File : 0115-V57.D
Sample : 01-068-02 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 13:06
Operator :
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 13:43:22 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0115-V55.D
Sample : MB0114S2 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 11:45
Operator :
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 12:22:14 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	O-Terphenyl (09-28-14)	14.739	162831431	57.689	PPM
Spiked Amount		50.000		Recovery =	115.38%	
Target Compounds						
2)		1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3)	H	Gasoline	3.500	14293461	NoCal	PPM
4)	H	Diesel Fuel #1 (10-0...	10.000	14245462	4.514	PPM
5)	H	Diesel Fuel #2 (10-0...	14.000	10995334	2.628	PPM
6)	H	Oil (01-08-15)	22.000	47170328	9.387	PPM
7)	H	Oil Acid Clean (01-0...	22.000	47170328	5.496	PPM
8)	H	Diesel Fuel #2 Combo ...	14.000	10189861	2.342	PPM
9)	H	Oil Combo (01-08-15)	22.000	46355246	9.297	PPM
10)	H	Oil Acid Clean Combo ...	22.000	46355246	5.258	PPM
11)	H	Alaska 102 DF2 (06-2...	13.025	12049027	N.D.	PPM
12)	H	Alaska 103 Oil (06-2...	22.000	17855806	5.234	PPM
13)	H	Mineral Oil (10-06-14)	16.000	8281774	2.173	PPM
14)	H	Bunker C ACU (Fuel O...	15.000	53157904	N.D.	PPM
15)	H	Bunker C (Fuel Oil #...	15.000	53157904	25.655	PPM
16)	H	ALKANE C9-C40	12.666	58162957	NoCal	PPM
17)	H	Mineral Oil Combo (10...	16.000	5760554	1.855	PPM
18)	H	Oil Acid Clean MO Com...	22.000	45677604	5.132	PPM
19)	H	Oil MO Combo (01-08-15)	22.000	45677604	9.372	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

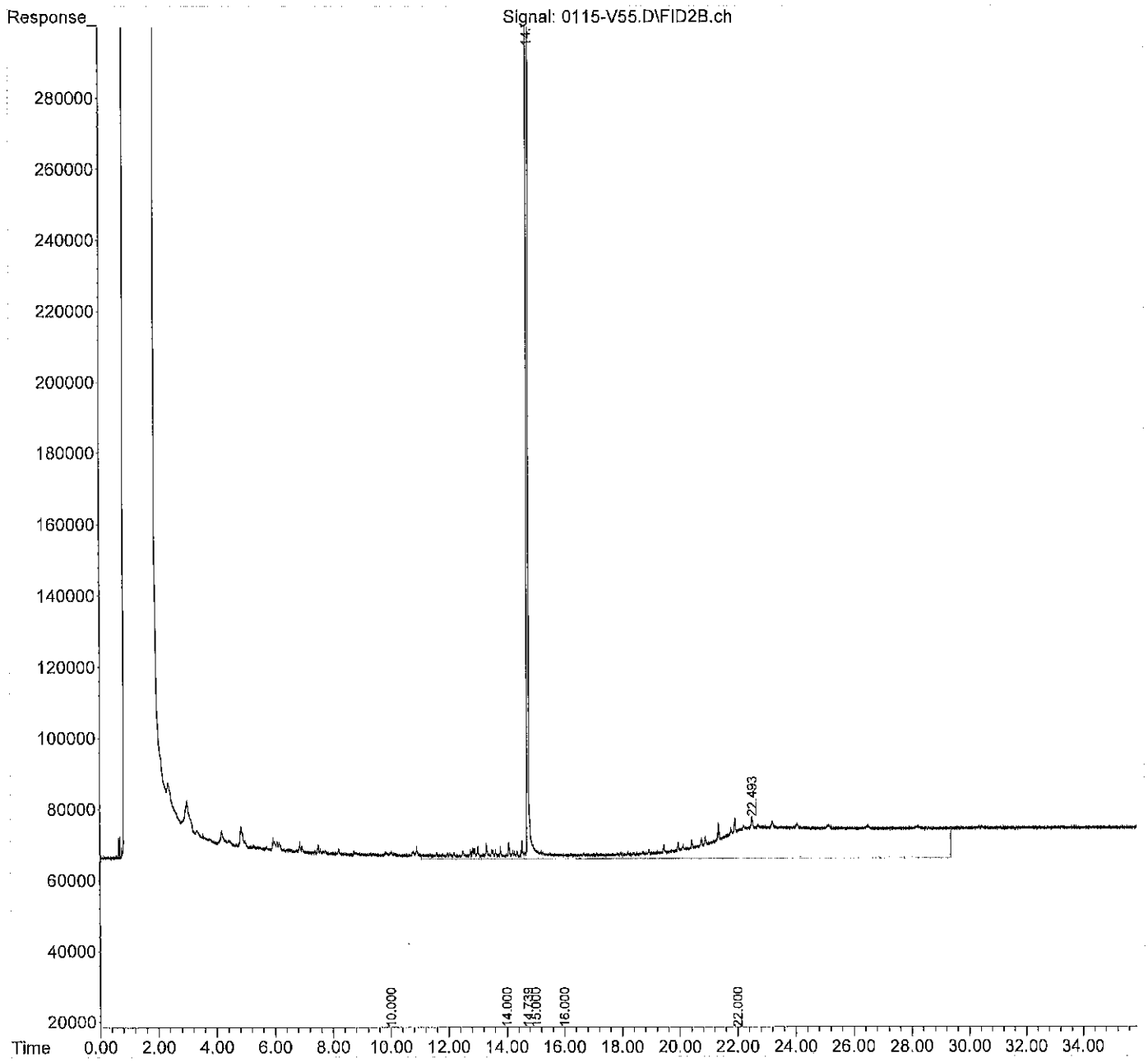
Quantitation Report (Not Reviewed)

Data File : 0115-V55.D
Sample : MB0114S2 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 11:45
Operator :
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 12:22:14 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0115-V58.D
Sample : 01-068-02 ACU DUP

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 13:47
Operator :
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 14:24:06 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl (09-28-14)	14.736	140177509	49.644 PPM
Spiked Amount	50.000		Recovery =	99.29%
	Target Compounds			
2)	1-Chlorooctadecane (...	0.000	0	N.D. PPM
3) H	Gasoline	3.500	15341877	NoCal PPM
4) H	Diesel Fuel #1 (10-0...	10.000	18560335	6.462 PPM
5) H	Diesel Fuel #2 (10-0...	14.000	15043481	4.589 PPM
6) H	Oil (01-08-15)	22.000	42794971	6.993 PPM
7) H	Oil Acid Clean (01-0...	22.000	42794971	2.893 PPM
8) H	Diesel Fuel #2 Combo ...	14.000	14178429	4.310 PPM
9) H	Oil Combo (01-08-15)	22.000	41925128	6.816 PPM
10) H	Oil Acid Clean Combo ...	22.000	41925128	2.569 PPM
11) H	Alaska 102 DF2 (06-2...	13.025	16370239	1.140 PPM
12) H	Alaska 103 Oil (06-2...	22.000	16232945	3.810 PPM
13) H	Mineral Oil (10-06-14)	16.000	9751119	2.790 PPM
14) H	Bunker C ACU (Fuel O...	15.000	53341720	N.D. PPM
15) H	Bunker C (Fuel Oil #...	15.000	53341720	25.796 PPM
16) H	ALKANE C9-C40	12.666	58518685	NoCal PPM
17) H	Mineral Oil Combo (10...	16.000	7172934	2.473 PPM
18) H	Oil Acid Clean MO Com...	22.000	41202283	2.323 PPM
19) H	Oil MO Combo (01-08-15)	22.000	41202283	6.769 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

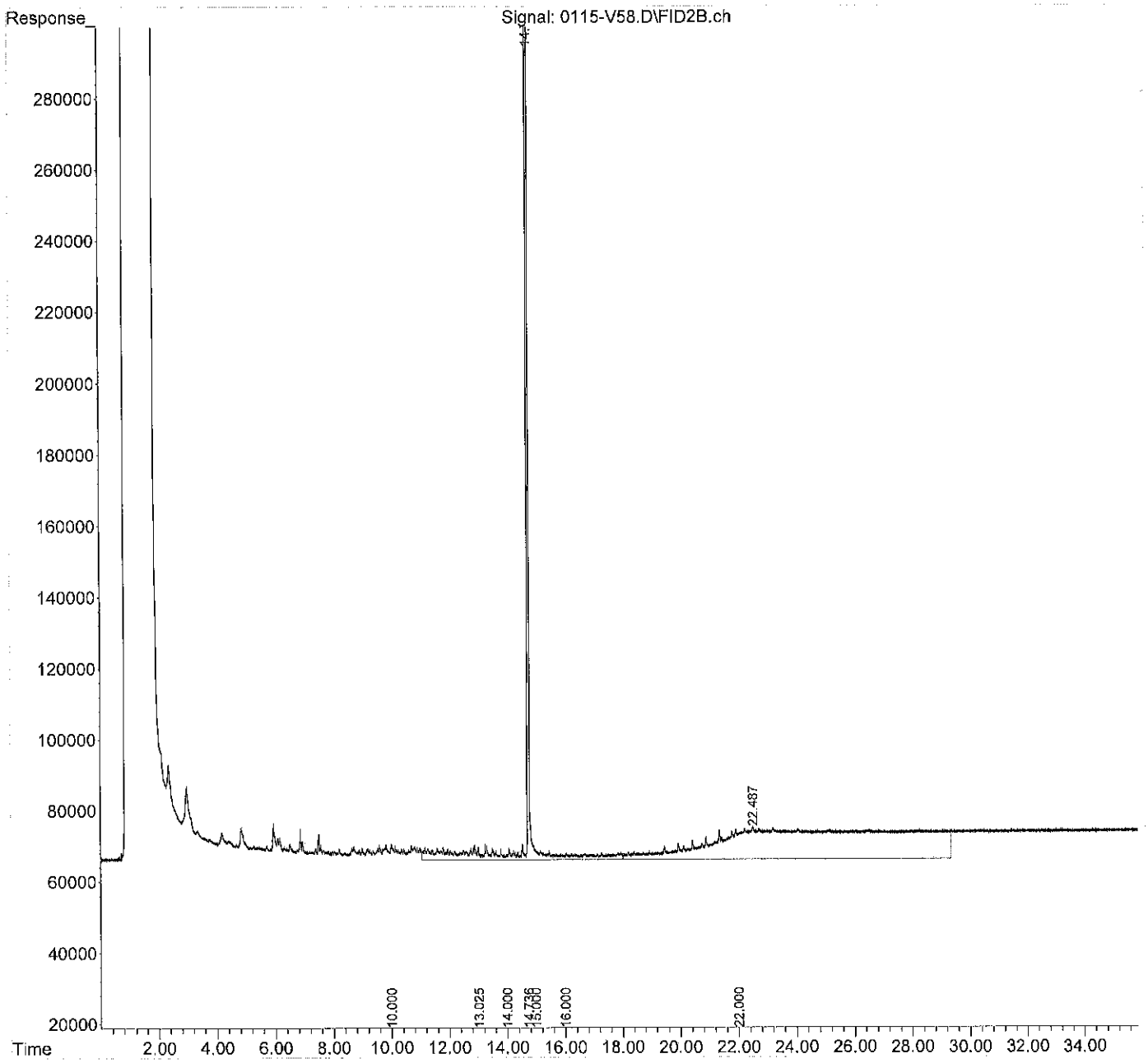
Quantitation Report (Not Reviewed)

Data File : 0115-V58.D
Sample : 01-068-02 ACU DUP

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 13:47
Operator :
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 14:24:06 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0115-V51.D
Sample : CCV0115R-V1

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 9:02
Operator :
Misc : SV3-11-24
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 09:39:31 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	34192592	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	214568739	94.935	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	211719553	99.847	PPM
6) H	Oil (01-08-15)	22.000	66528478	19.980	PPM
7) H	Oil Acid Clean (01-0...	22.000	66528478	17.012	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	208114047	100.003	PPM
9) H	Oil Combo (01-08-15)	22.000	56739597	15.112	PPM
10) H	Oil Acid Clean Combo ...	22.000	56739597	11.563	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	215576424	77.906	PPM
12) H	Alaska 103 Oil (06-2...	22.000	20679068	7.710	PPM
13) H	Mineral Oil (10-06-14)	16.000	134702090	55.280	PPM
14) H	Bunker C ACU (Fuel O...	15.000	262389160	153.714	PPM
15) H	Bunker C (Fuel Oil #...	15.000	262389160	185.782	PPM
16) H	ALKANE C9-C40	12.666	277746094	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	131005890	56.651	PPM
18) H	Oil Acid Clean MO Com...	22.000	53492535	10.037	PPM
19) H	Oil MO Combo (01-08-15)	22.000	53492535	13.918	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

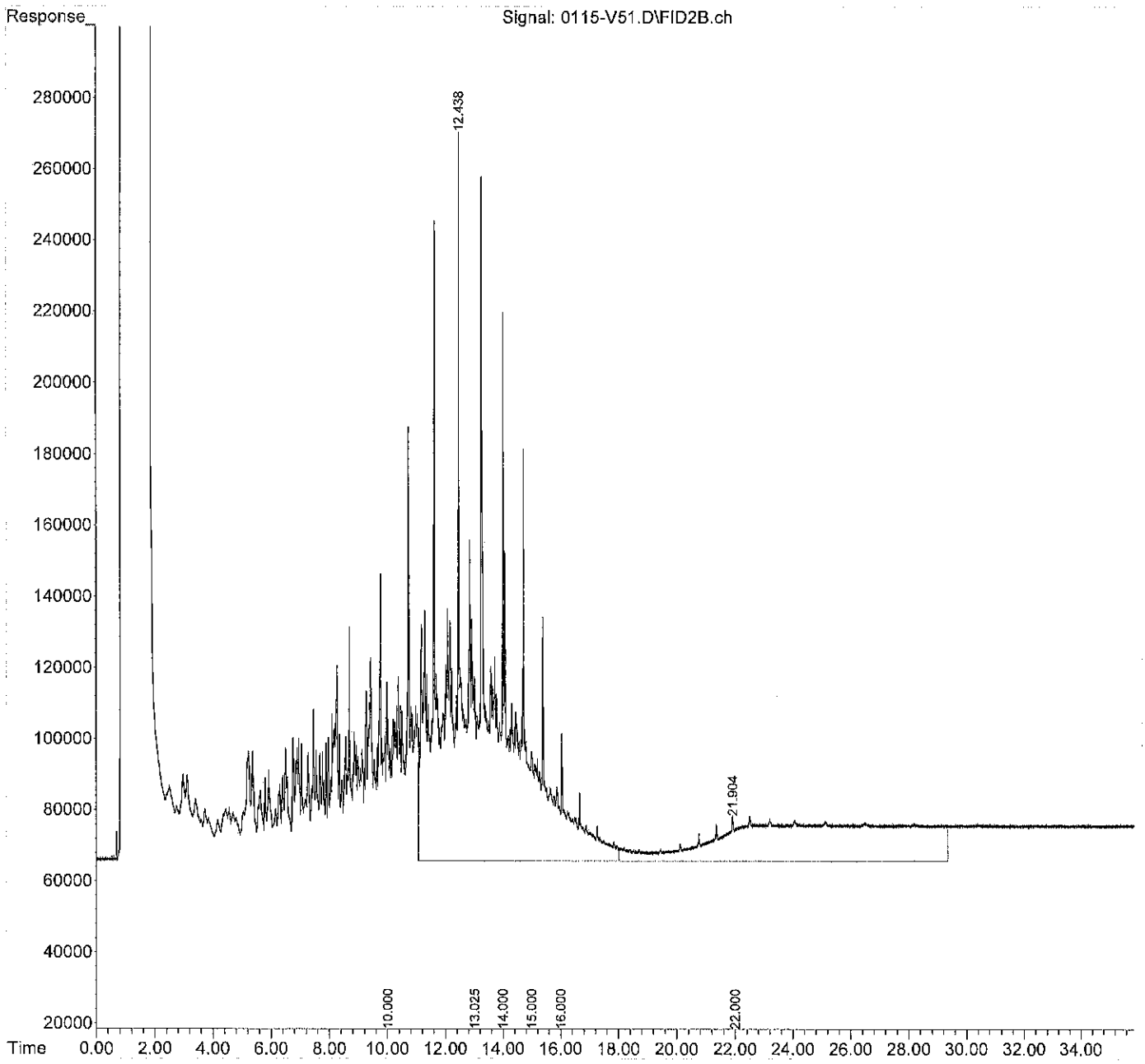
Quantitation Report (Not Reviewed)

Data File : 0115-V51.D
Sample : CCV0115R-V1

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 9:02
Operator :
Misc : SV3-11-24
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 09:39:31 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0115-V61.D
Sample : CCV0115R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 15:49
Operator :
Misc : SV3-11-24
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 16:26:47 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	34749583	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	219174485	97.014	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	217544016	102.668	PPM
6) H	Oil (01-08-15)	22.000	56140140	14.295	PPM
7) H	Oil Acid Clean (01-0...	22.000	56140140	10.832	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	213456217	102.639	PPM
9) H	Oil Combo (01-08-15)	22.000	45347672	8.733	PPM
10) H	Oil Acid Clean Combo ...	22.000	45347672	4.647	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	221489831	80.185	PPM
12) H	Alaska 103 Oil (06-2...	22.000	16226920	3.805	PPM
13) H	Mineral Oil (10-06-14)	16.000	139046306	57.105	PPM
14) H	Bunker C ACU (Fuel O...	15.000	257459263	149.971	PPM
15) H	Bunker C (Fuel Oil #...	15.000	257459263	182.010	PPM
16) H	ALKANE C9-C40	12.666	273069715	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	135714260	58.711	PPM
18) H	Oil Acid Clean MO Com...	22.000	41648670	2.603	PPM
19) H	Oil MO Combo (01-08-15)	22.000	41648670	7.029	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

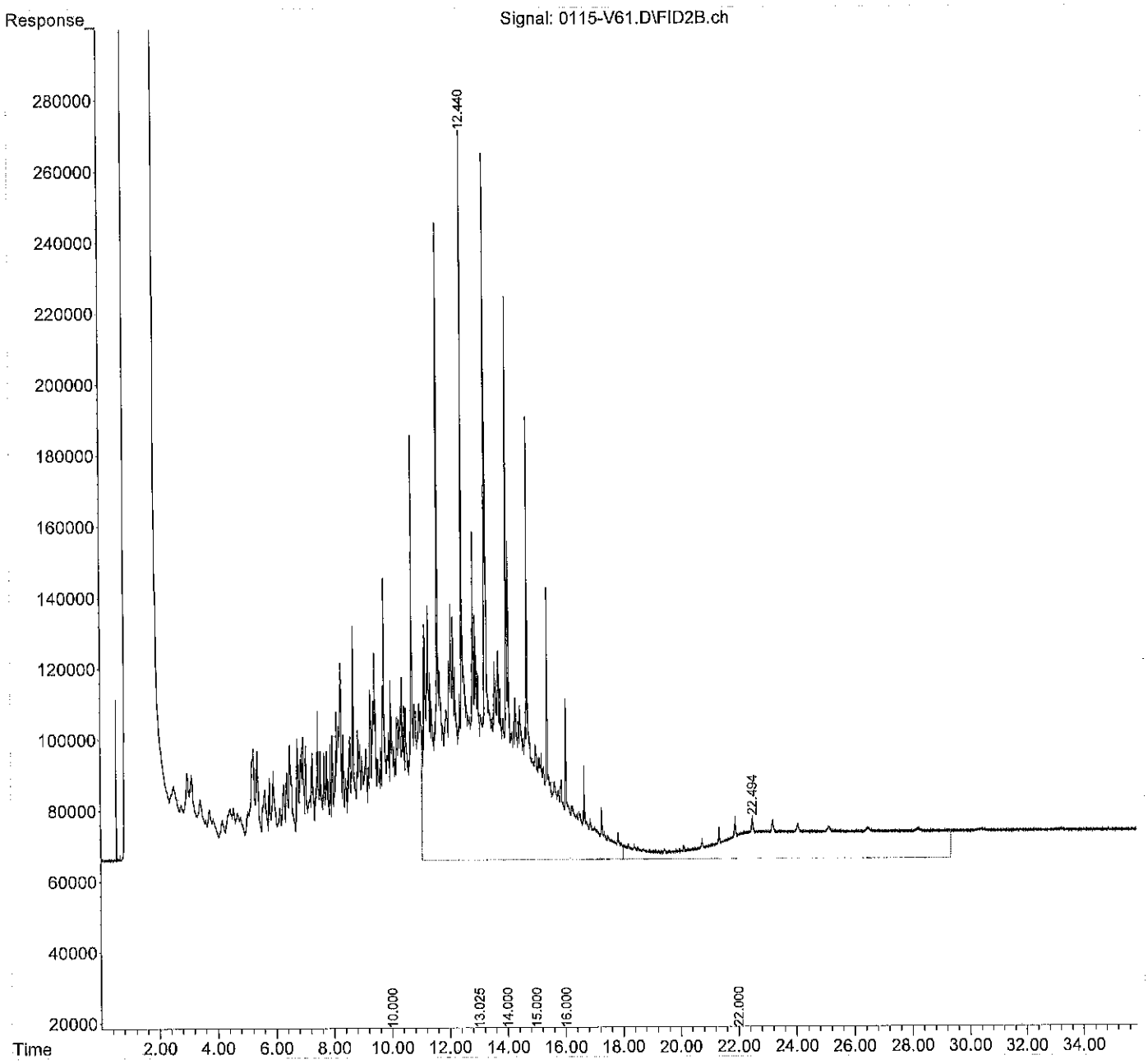
Quantitation Report (Not Reviewed)

Data File : 0115-V61.D
Sample : CCV0115R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150115.SEC\
Signal(s) : FID2B.ch
Acq On : 15 Jan 2015 15:49
Operator :
Misc : SV3-11-24
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 16:26:47 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114008.D
Acq On : 14 Jan 2015 4:04 pm
Operator :
Sample : 01-068-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 14 16:19:34 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

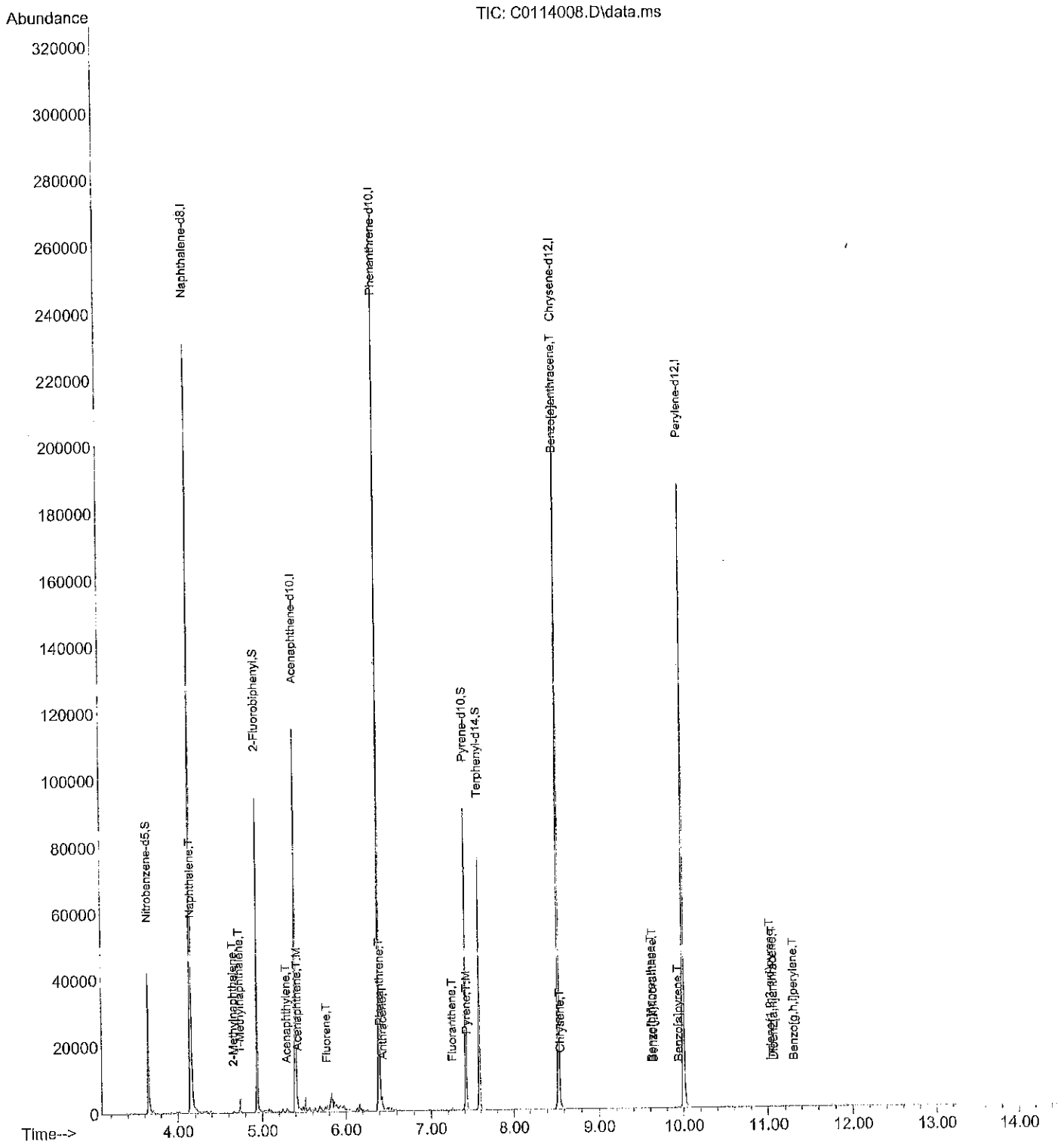
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.152	136	203962	2000.00	ppb	0.00
6) Acenaphthene-d10	5.400	164	100771	2000.00	ppb	0.00
10) Phenanthrene-d10	6.402	188	181934	2000.00	ppb	0.00
17) Chrysene-d12	8.537	240	197684	2000.00	ppb	0.00
21) Perylene-d12	10.004	264	191020	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	23513	948.84	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 94.88%#			
7) 2-Fluorobiphenyl	4.940	172	65333	909.64	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 90.96%#			
11) Pyrene-d10	7.415	212	68648	891.71	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 89.17%			
18) Terphenyl-d14	7.583	244	56451	841.83	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 84.18%			
Target Compounds						Qvalue
3) Naphthalene	4.164	128	4764	37.25	ppb	100
4) 2-Methylnaphthalene	4.659	142	431	5.24	ppb	100
5) 1-Methylnaphthalene	4.737	142	3420	45.37	ppb	100
8) Acenaphthylene	5.292	152	1058	8.71	ppb	100
9) Acenaphthene	5.423	153	2369	29.72	ppb	100
12) Fluorene	5.769	166	688	8.08	ppb	100
13) Phenanthrene	6.414	178	1361	11.11	ppb	100
14) Anthracene	6.445	178	707	9.78	ppb	100
15) Fluoranthene	7.252	202	804	7.16	ppb	100
16) Pyrene	7.427	202	1129	9.43	ppb	100
19) Benzo[a]anthracene	8.534	228	700	7.10	ppb	100
20) Chrysene	8.557	228	193	1.77	ppb	100
22) Benzo[b]fluoranthene	9.622	252	138	1.26	ppb	100
23) Benzo(j,k)fluoranthene	9.641	252	109	1.03	ppb	100
24) Benzo[a]pyrene	9.942	252	155	1.57	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.039	276	269	2.24	ppb	100
26) Dibenz[a,h]anthracene	11.070	278	250	2.52	ppb	100
27) Benzo[g,h,i]perylene	11.304	276	217	2.10	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114008.D
Acq On : 14 Jan 2015 4:04 pm
Operator :
Sample : 01-068-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 14 16:19:34 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114009.D
Acq On : 14 Jan 2015 4:26 pm
Operator :
Sample : 01-068-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 14 16:41:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.153	136	209321	2000.00	ppb	0.00
6) Acenaphthene-d10	5.406	164	106727	2000.00	ppb	0.00
10) Phenanthrene-d10	6.401	188	185571	2000.00	ppb	0.00
17) Chrysene-d12	8.538	240	200691	2000.00	ppb	0.00
21) Perylene-d12	10.004	264	195122	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.648	82	24782	974.45	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 97.45%#			
7) 2-Fluorobiphenyl	4.940	172	66149	869.61	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 86.96%			
11) Pyrene-d10	7.415	212	69164	880.80	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 88.08%			
18) Terphenyl-d14	7.583	244	50619	743.55	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 74.35%			
Target Compounds						Qvalue
3) Naphthalene	4.164	128	14974	114.09	ppb	100
4) 2-Methylnaphthalene	4.663	142	855	10.12	ppb	100
5) 1-Methylnaphthalene	4.737	142	537	6.94	ppb	100
8) Acenaphthylene	5.290	152	2154	16.75	ppb	100
9) Acenaphthene	5.421	153	2383	28.22	ppb	100
12) Fluorene	5.776	166	550	6.33	ppb	100
13) Phenanthrene	6.417	178	4202	33.63	ppb	100
14) Anthracene	6.444	178	764	10.37	ppb	100
15) Fluoranthene	7.258	202	2358	20.60	ppb	100
16) Pyrene	7.426	202	2790	22.84	ppb	100
19) Benzo[a]anthracene	8.538	228	842	8.41	ppb	100
20) Chrysene	8.557	228	338	3.05	ppb	100
22) Benzo[b]fluoranthene	9.622	252	234	2.09	ppb	100
23) Benzo(j,k)fluoranthene	9.622	252	234	~~3.16~~	ppb 1.99	100
24) Benzo[a]pyrene	9.938	252	309	3.06	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.039	276	266	2.17	ppb	100
26) Dibenz[a,h]anthracene	11.066	278	141	1.39	ppb	100
27) Benzo[g,h,i]perylene	11.304	276	362	3.44	ppb	100

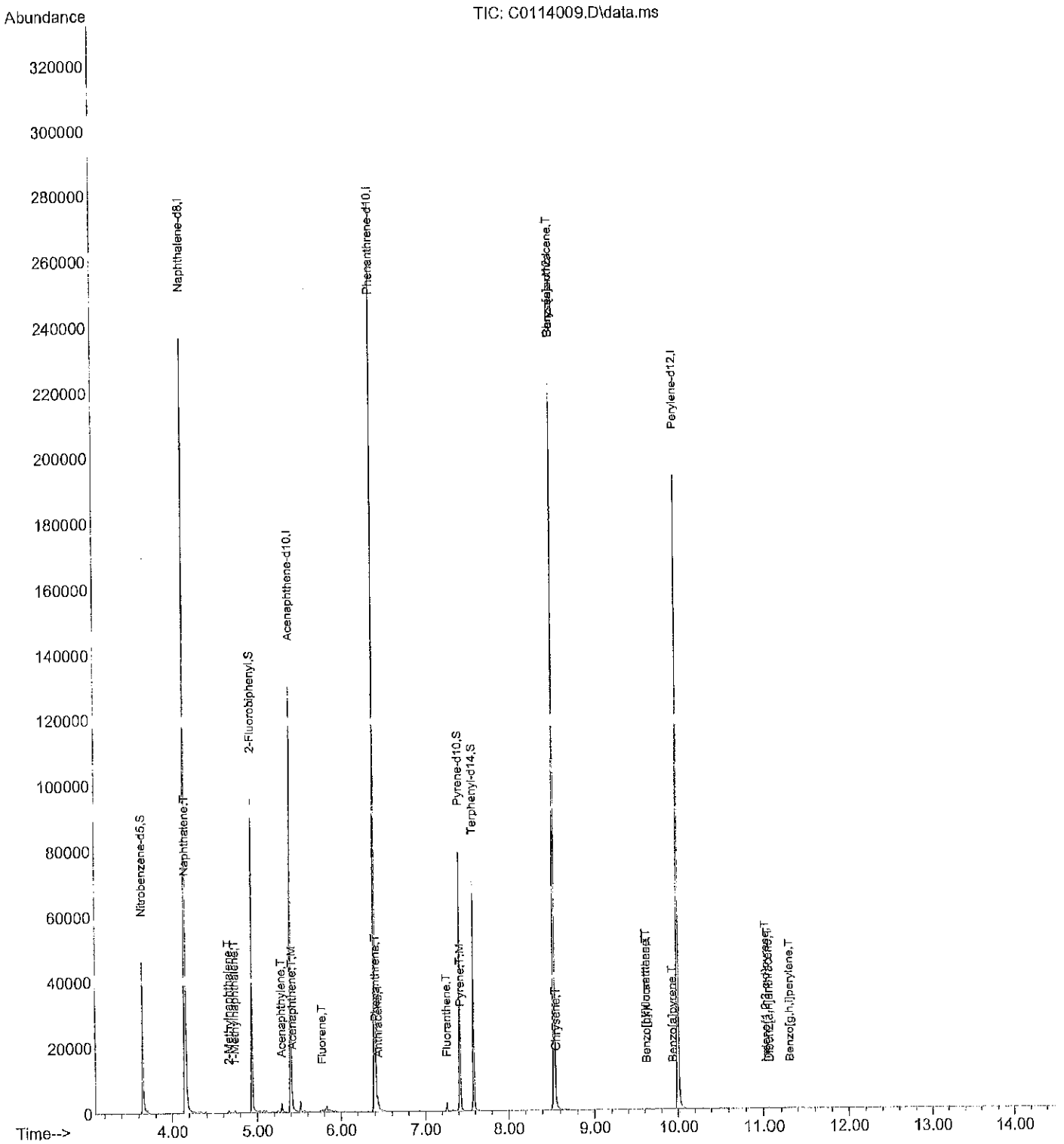
ET 1-15-15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114009.D
Acq On : 14 Jan 2015 4:26 pm
Operator :
Sample : 01-068-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 14 16:41:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114004.D
Acq On : 14 Jan 2015 2:37 pm
Operator :
Sample : MB0114S1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 14 14:52:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

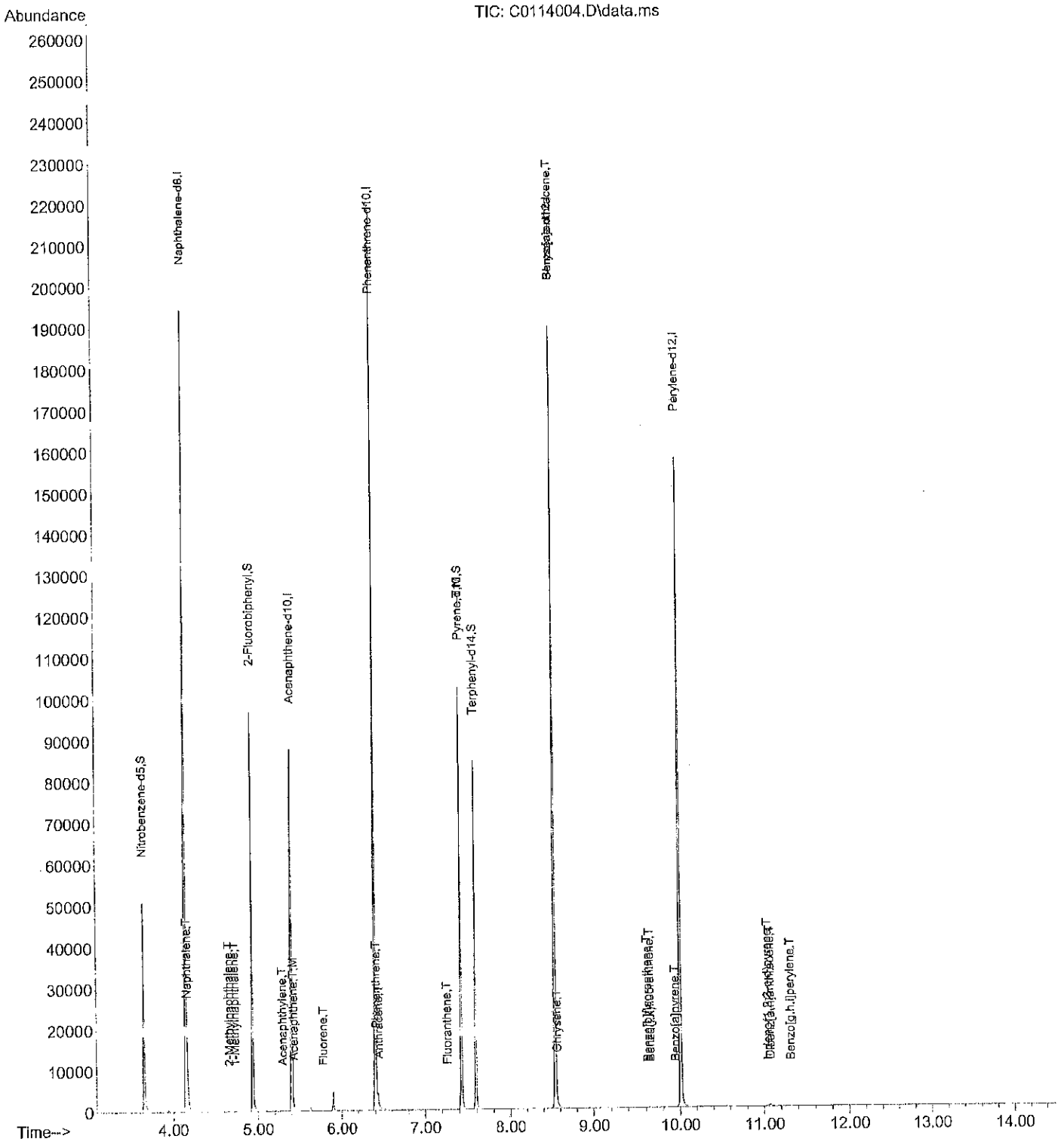
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	4.158	136	189815	2000.00 ppb	0.00
6) Acenaphthene-d10	5.408	164	92217	2000.00 ppb	0.00
10) Phenanthrene-d10	6.402	188	171377	2000.00 ppb	0.00
17) Chrysene-d12	8.542	240	177794	2000.00 ppb	0.00
21) Perylene-d12	10.008	264	169281	2000.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	3.648	82	27859	1208.01 ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 120.80%#		
7) 2-Fluorobiphenyl	4.940	172	72755	1106.94 ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 110.69%#		
11) Pyrene-d10	7.421	212	76436	1054.03 ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 105.40%		
18) Terphenyl-d14	7.590	244	60412	1001.69 ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 100.17%#		
Target Compounds					Qvalue
3) Naphthalene	4.170	128	306	2.57 ppb	100
4) 2-Methylnaphthalene	4.663	142	159	2.08 ppb	100
5) 1-Methylnaphthalene	4.737	142	100	1.43 ppb	100
8) Acenaphthylene	5.292	152	162	1.46 ppb	100
9) Acenaphthene	5.423	153	86	1.18 ppb	100
12) Fluorene	5.777	166	130	1.62 ppb	100
13) Phenanthrene	6.418	178	392	3.40 ppb	100
14) Anthracene	6.445	178	62	0.91 ppb	100
15) Fluoranthene	7.259	202	59	0.56 ppb	100
16) Pyrene	7.421	202	192	1.70 ppb	100
19) Benzo[a]anthracene	8.542	228	574	6.47 ppb	100
20) Chrysene	8.565	228	63	0.64 ppb	100
22) Benzo[b]fluoranthene	9.625	252	94	0.97 ppb	100
23) Benzo(j,k)fluoranthene	9.653	252	110	1.17 ppb	100
24) Benzo[a]pyrene	9.945	252	114	1.30 ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.047	276	350	3.29 ppb	100
26) Dibenz[a,h]anthracene	11.074	278	473	5.39 ppb	100
27) Benzo[g,h,i]perylene	11.312	276	268	2.93 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114004.D
Acq On : 14 Jan 2015 2:37 pm
Operator :
Sample : MB0114S1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 14 14:52:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114010.D
Acq On : 14 Jan 2015 4:48 pm
Operator :
Sample : 01-068-02 MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 14 17:03:04 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.153	136	210674	2000.00	ppb	0.00
6) Acenaphthene-d10	5.406	164	104547	2000.00	ppb	0.00
10) Phenanthrene-d10	6.401	188	187640	2000.00	ppb	0.00
17) Chrysene-d12	8.538	240	202809	2000.00	ppb	0.00
21) Perylene-d12	10.004	264	197178	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.648	82	25278	987.57	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 98.76%#			
7) 2-Fluorobiphenyl	4.941	172	67132	900.93	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 90.09%#			
11) Pyrene-d10	7.414	212	74810	942.20	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.22%			
18) Terphenyl-d14	7.582	244	58846	855.37	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 85.54%			
Target Compounds						Qvalue
3) Naphthalene	4.164	128	57279	433.61	ppb	100
4) 2-Methylnaphthalene	4.660	142	34934	410.83	ppb	100
5) 1-Methylnaphthalene	4.738	142	32355	415.51	ppb	100
8) Acenaphthylene	5.291	152	54854	435.37	ppb	100
9) Acenaphthene	5.422	153	34581	418.10	ppb	100
12) Fluorene	5.768	166	36966	420.96	ppb	100
13) Phenanthrene	6.417	178	55336	438.01	ppb	100
14) Anthracene	6.444	178	53786	721.66	ppb	100
15) Fluoranthene	7.257	202	55977	483.59	ppb	100
16) Pyrene	7.425	202	58420	472.90	ppb	100
19) Benzo[a]anthracene	8.519	228	50451	498.72	ppb	100
20) Chrysene	8.558	228	46292	412.97	ppb	100
22) Benzo[b]fluoranthene	9.622	252	47023	414.68	ppb	100
23) Benzo(j,k)fluoranthene	9.645	252	38767	354.60	ppb	100
24) Benzo[a]pyrene	9.942	252	45499	446.17	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.039	276	42256	~~341.29~~ 412.12	ppb	100
26) Dibenz[a,h]anthracene	11.067	278	43401	424.56	ppb	100
27) Benzo[g,h,i]perylene	11.305	276	45310	425.67	ppb	100

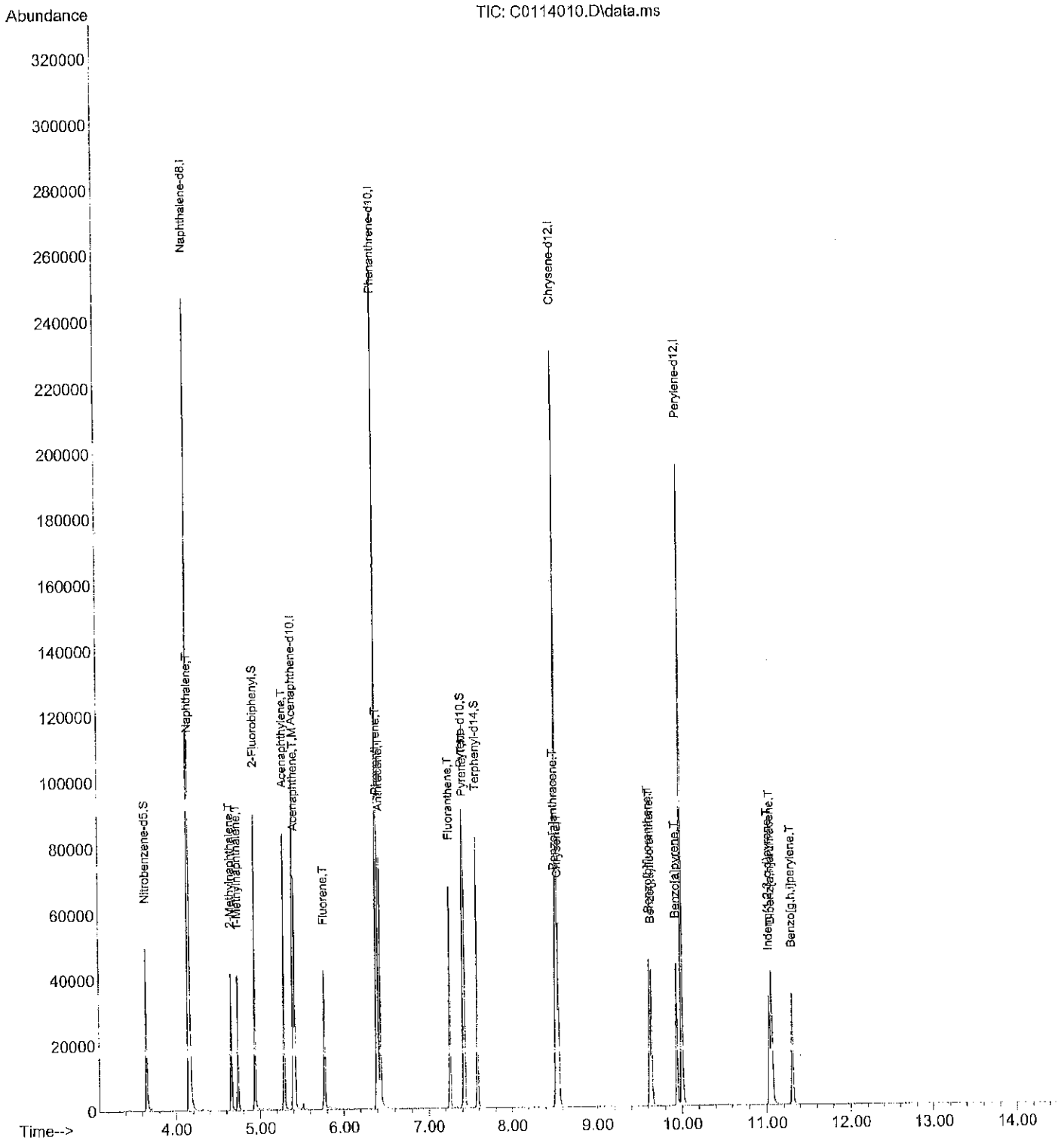
1-15-15 RT

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114010.D
Acq On : 14 Jan 2015 4:48 pm
Operator :
Sample : 01-068-02 MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 14 17:03:04 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114011.D
Acq On : 14 Jan 2015 5:09 pm
Operator :
Sample : 01-068-02 MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 14 17:24:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.157	136	205641	2000.00	ppb	0.00
6) Acenaphthene-d10	5.406	164	105204	2000.00	ppb	0.00
10) Phenanthrene-d10	6.401	188	187219	2000.00	ppb	0.00
17) Chrysene-d12	8.538	240	202224	2000.00	ppb	0.00
21) Perylene-d12	10.004	264	196705	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	24226	969.63	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 96.96%#			
7) 2-Fluorobiphenyl	4.941	172	66091	881.42	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 88.14%			
11) Pyrene-d10	7.415	212	68748	867.80	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 86.78%			
18) Terphenyl-d14	7.584	244	50403	734.77	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 73.48%			
Target Compounds						Qvalue
3) Naphthalene	4.169	128	59952	464.95	ppb	100
4) 2-Methylnaphthalene	4.660	142	34074	410.52	ppb	100
5) 1-Methylnaphthalene	4.738	142	31610	415.88	ppb	100
8) Acenaphthylene	5.290	152	53446	421.55	ppb	100
9) Acenaphthene	5.421	153	34586	415.55	ppb	100
12) Fluorene	5.776	166	35348	403.44	ppb	100
13) Phenanthrene	6.417	178	51653	409.78	ppb	100
14) Anthracene	6.444	178	48643	654.12	ppb	100
15) Fluoranthene	7.253	202	51455	445.53	ppb	100
16) Pyrene	7.427	202	53733	435.94	ppb	100
19) Benzo[a]anthracene	8.518	228	45620	452.27	ppb	100
20) Chrysene	8.557	228	41656	372.68	ppb	100
22) Benzo[b]fluoranthene	9.622	252	41842	369.88	ppb	100
23) Benzo(j,k)fluoranthene	9.645	252	29910	274.24	ppb	100
24) Benzo[a]pyrene	9.938	252	40738	400.44	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.036	276	36020	~~291.63~~ 364.47	ppb	100
26) Dibenz[a,h]anthracene	11.067	278	38622	378.71	ppb	100
27) Benzo[g,h,i]perylene	11.305	276	40959	385.72	ppb	100

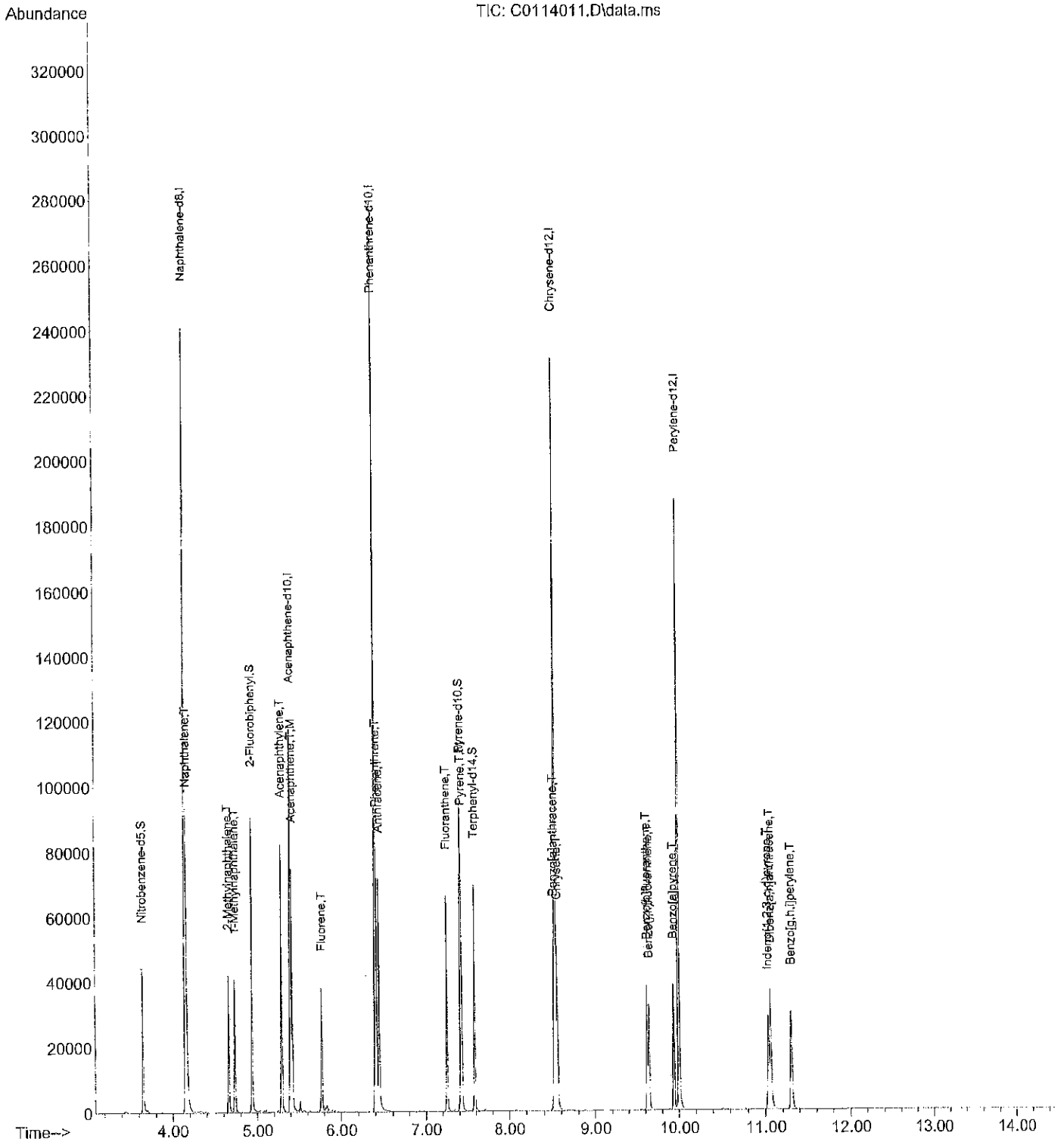
1-15-15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114011.D
Acq On : 14 Jan 2015 5:09 pm
Operator :
Sample : 01-068-02 MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 14 17:24:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150114\
Data File : C0114003.D
Acq On : 14 Jan 2015 2:07 pm
Operator :
Sample : PAH CCV01014
Misc : SV4-50-08
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 14 14:22:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	95	0.00
2	S	Nitrobenzene-d5	500.000	595.300	-19.1	123	0.00
3	T	Naphthalene	500.000	431.474	13.7	91	0.00
4	T	2-Methylnaphthalene	500.000	438.209	12.4	92	0.00
5	T	1-Methylnaphthalene	500.000	451.047	9.8	94	0.00
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	102	0.00
7	S	2-Fluorobiphenyl	500.000	543.903	-8.8	104	0.00
8	T	Acenaphthylene	500.000	434.047	13.2	96	0.00
9	T,M	Acenaphthene	500.000	423.140	15.4	95	0.00
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	105	0.00
11	S	Pyrene-d10	500.000	494.933	1.0	111	0.00
12	T	Fluorene	500.000	436.048	12.8	101	0.00
13	T	Phenanthrene	500.000	426.992	14.6	98	0.00
14	T	Anthracene	500.000	437.550	12.5	71	0.00
15	T	Fluoranthene	500.000	476.519	4.7	108	0.00
16	T,M	Pyrene	500.000	465.057	7.0	105	0.00
17	I	Chrysene-d12	2000.000	2000.000	0.0	120	0.00
18	S	Terphenyl-d14	500.000	524.047	-4.8	118	0.00
19	T	Benzo[a]anthracene	500.000	487.592	2.5	112	0.00
20	T	Chrysene	500.000	429.021	14.2	111	0.00
21	I	Perylene-d12	2000.000	2000.000	0.0	119	0.00
22	T	Benzo[b]fluoranthene	500.000	447.548	10.5	113	0.00
23	T	Benzo(j,k)fluoranthene	500.000	462.728	7.5	116	0.00
24	T	Benzo[a]pyrene	500.000	467.345	6.5	116	0.00
25	T	Indeno(1,2,3-c,d)pyrene	500.000	439.294	12.1	111	0.00
26	T	Dibenz[a,h]anthracene	500.000	436.325	12.7	109	0.00
27	T	Benzo[g,h,i]perylene	500.000	428.198	14.4	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114003.D
Acq On : 14 Jan 2015 2:07 pm
Operator :
Sample : PAH CCV01014
Misc : SV4-50-08
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 14 14:22:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration

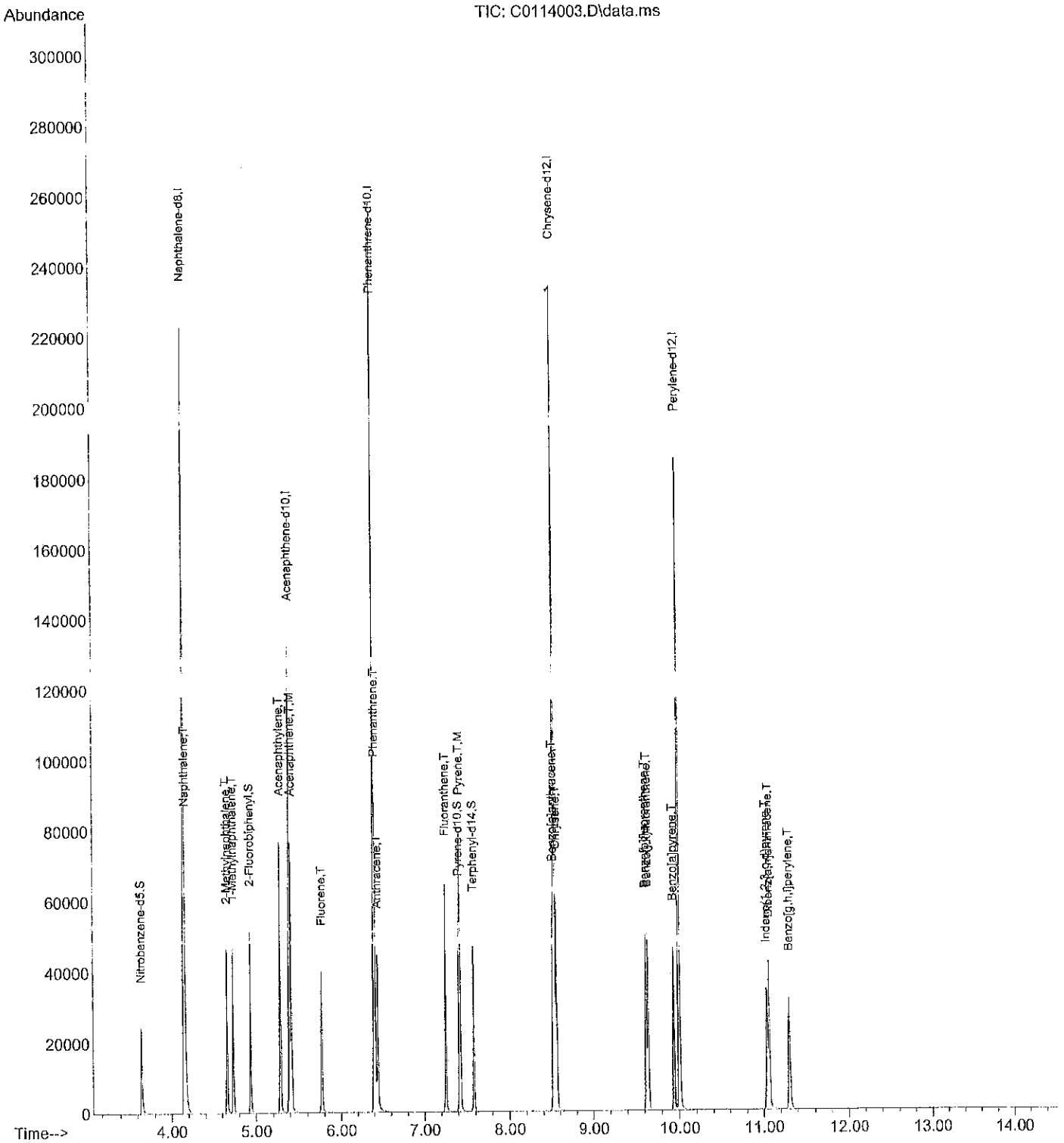
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.158	136	213973	2000.00	ppb	0.00
6) Acenaphthene-d10	5.406	164	105939	2000.00	ppb	0.00
10) Phenanthrene-d10	6.401	188	187605	2000.00	ppb	0.00
17) Chrysene-d12	8.538	240	204670	2000.00	ppb	0.00
21) Perylene-d12	10.004	264	191488	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.647	82	15476	595.30	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 59.53%			
7) 2-Fluorobiphenyl	4.940	172	41068	543.90	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 54.39%			
11) Pyrene-d10	7.415	212	39290	494.93	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.49%			
18) Terphenyl-d14	7.583	244	36383	524.05	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 52.40%			
Target Compounds						Qvalue
3) Naphthalene	4.170	128	57890	431.47	ppb	100
4) 2-Methylnaphthalene	4.663	142	37846	438.21	ppb	100
5) 1-Methylnaphthalene	4.737	142	35672	451.05	ppb	100
8) Acenaphthylene	5.290	152	55415	434.05	ppb	100
9) Acenaphthene	5.421	153	35464	423.14	ppb	100
12) Fluorene	5.776	166	38284	436.05	ppb	100
13) Phenanthrene	6.417	178	53934	426.99	ppb	100
14) Anthracene	6.444	178	32605	437.55	ppb	100
15) Fluoranthene	7.258	202	55148	476.52	ppb	100
16) Pyrene	7.426	202	57440	465.06	ppb	100
19) Benzo[a]anthracene	8.522	228	49778	487.59	ppb	100
20) Chrysene	8.561	228	48533	429.02	ppb	100
22) Benzo[b]fluoranthene	9.622	252	49285	447.55	ppb	100
23) Benzo(j,k)fluoranthene	9.645	252	49129	462.73	ppb	100
24) Benzo[a]pyrene	9.942	252	46283	467.35	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.039	276	52820	439.29	ppb	100
26) Dibenz[a,h]anthracene	11.071	278	43317	436.32	ppb	100
27) Benzo[g,h,i]perylene	11.305	276	44264	428.20	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150114\
Data File : C0114003.D
Acq On : 14 Jan 2015 2:07 pm
Operator :
Sample : PAH CCV01014
Misc : SV4-50-08
ALS Vial : 3 Sample Multiplier: 1

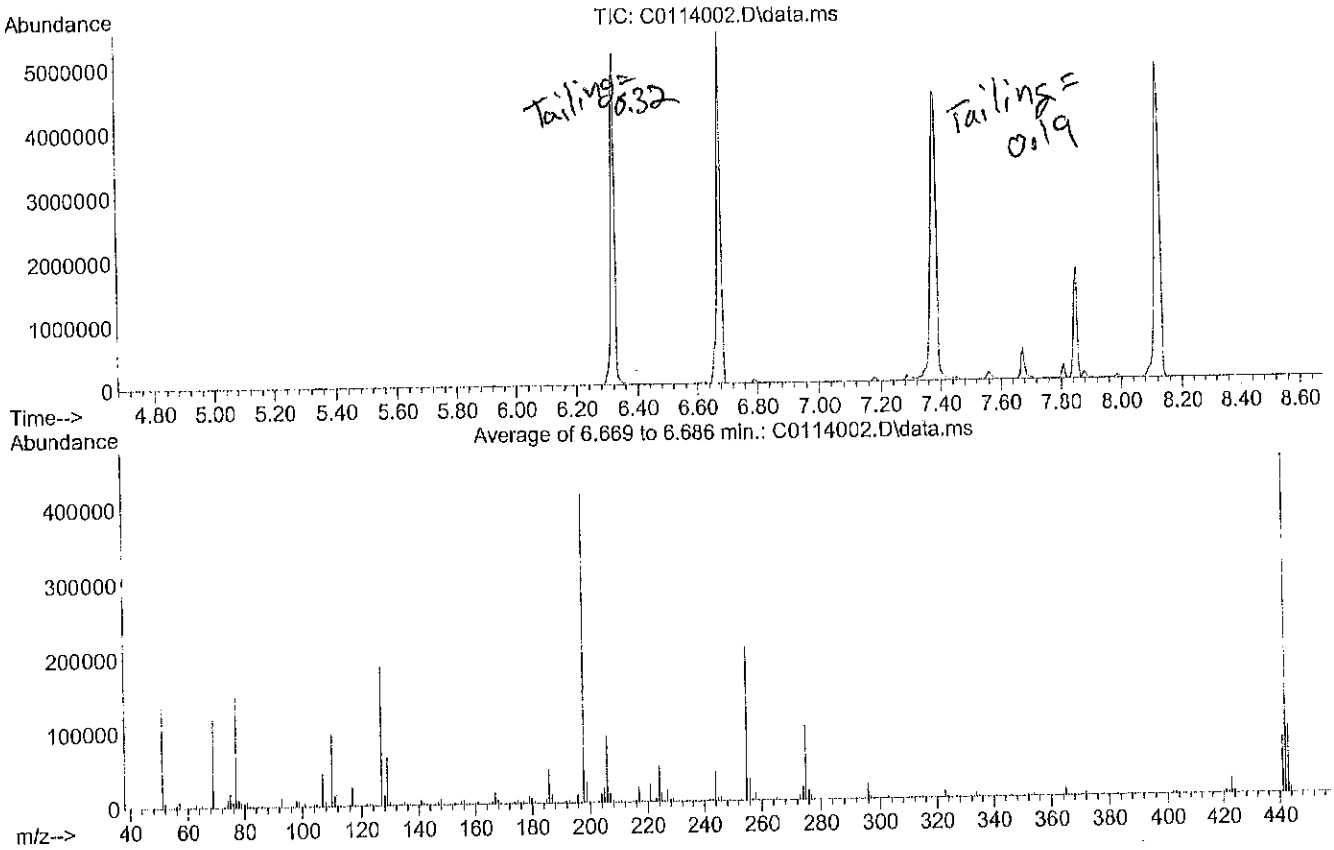
Quant Time: Jan 14 14:22:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed Jan 14 09:29:48 2015
Response via : Initial Calibration



Data Path : X:\SEMIVOLS\COREY\DATA\C150114\
Data File : C0114002.D
Acq On : 14 Jan 2015 1:45 pm
Operator :
Sample : DFTPP
Misc : SV4-49-03
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0109.M
Title : PAH'S BY SIMS
Last Update : Wed Jan 14 09:29:48 2015



Spectrum Information: Average of 6.669 to 6.686 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	34.7	144034	PASS
68	69	0.00	2	1.2	1449	PASS
69	198	0.00	100	28.6	118490	PASS
70	69	0.00	2	0.4	494	PASS
127	198	25	75	45.2	187340	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	414688	PASS
199	198	5	9	6.9	28631	PASS
275	198	10	30	24.0	99696	PASS
365	198	0.75	100	2.7	11338	PASS
441	443	0.01	100	82.8	75584	PASS
442	198	40	110	109.8	455152	PASS
443	442	15	24	20.0	91248	PASS

Total Cadmium Data

P150114F1B. Mean Only Report 1/14/2015, 6:01:34 PM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	1/14/2015, 9:24:56 AM
Standard 5	Cd 228.802	10.000	ppb	1/14/2015, 9:31:53 AM
Standard 4	Cd 228.802	100.00	ppb	1/14/2015, 9:36:28 AM
Standard 3	Cd 228.802	1000.0	ppb	1/14/2015, 9:41:04 AM
Standard 2	Cd 228.802	2500.0	ppb	1/14/2015, 9:45:39 AM
Standard 1	Cd 228.802	5000.0	ppb	1/14/2015, 9:50:14 AM
Initial Calib Verif	Cd 228.802	1014.9	ppb	1/14/2015, 9:57:13 AM
LLICV	Cd 228.802	10.286	ppb	1/14/2015, 10:04:37 AM
Initial Calib Blank	Cd 228.802	-0.766uv	ppb	1/14/2015, 10:10:47 AM
Cont Calib Verif	Cd 228.802	998.27	ppb	1/14/2015, 10:15:22 AM
Cont Calib Blank	Cd 228.802	1.459	ppb	1/14/2015, 10:19:58 AM
ICSA	Cd 228.802	0.278uv	ppb	1/14/2015, 10:24:32 AM
ICSAB	Cd 228.802	927.97	ppb	1/14/2015, 10:29:08 AM
01-047-01a MSD	Cd 228.802	969.69	ppb	1/14/2015, 10:44:44 AM
MB0113TM1	Cd 228.802	1.130uv	ppb	1/14/2015, 10:56:05 AM
SB0113TM1	Cd 228.802	878.01	ppb	1/14/2015, 11:06:51 AM
01-007-03a	Cd 228.802	2.001uv	ppb	1/14/2015, 11:11:25 AM
01-007-03a D	Cd 228.802	-0.766uv	ppb	1/14/2015, 11:15:56 AM
01-007-03a L	Cd 228.802	0.878	ppb	1/14/2015, 11:20:29 AM
01-007-03a MS	Cd 228.802	915.08	ppb	1/14/2015, 11:25:02 AM
01-007-03a MSD	Cd 228.802	916.80	ppb	1/14/2015, 11:29:35 AM
Cont Calib Verif	Cd 228.802	1011.6	ppb	1/14/2015, 11:34:10 AM
Cont Calib Blank	Cd 228.802	0.681uv	ppb	1/14/2015, 11:40:32 AM
LLCCV	Cd 228.802	11.572	ppb	1/14/2015, 11:45:07 AM
MB0113SM2	Cd 228.802	0.158uv	ppb	1/14/2015, 11:55:07 AM
SB0113SM2	Cd 228.802	987.38	ppb	1/14/2015, 11:59:43 AM
01-047-01a	Cd 228.802	12.913	ppb	1/14/2015, 12:04:18 PM
01-047-01a D	Cd 228.802	21.327	ppb	1/14/2015, 12:08:56 PM
01-047-01a L	Cd 228.802	2.339	ppb	1/14/2015, 12:13:32 PM
01-047-01a MS	Cd 228.802	986.12	ppb	1/14/2015, 12:18:08 PM
01-047-01a MSD	Cd 228.802	984.21	ppb	1/14/2015, 12:22:43 PM
01-047-01a D	Cd 228.802	21.982	ppb	1/14/2015, 12:38:38 PM
01-047-01a	Cd 228.802	15.354	ppb	1/14/2015, 12:48:20 PM
Cont Calib Verif	Cd 228.802	1020.3	ppb	1/14/2015, 1:02:13 PM
Cont Calib Blank	Cd 228.802	0.645uv	ppb	1/14/2015, 1:07:33 PM
LLCCV	Cd 228.802	11.042	ppb	1/14/2015, 1:15:20 PM
MB0113SM1	Cd 228.802	-0.714uv	ppb	1/14/2015, 3:18:50 PM
SB0113SM1	Cd 228.802	938.55	ppb	1/14/2015, 3:23:23 PM
01-047-01a	Cd 228.802	8.461	ppb	1/14/2015, 3:27:56 PM
01-047-01a D	Cd 228.802	8.184	ppb	1/14/2015, 3:32:30 PM
01-047-01a L	Cd 228.802	2.030	ppb	1/14/2015, 3:37:05 PM
01-047-01a MS	Cd 228.802	959.70	ppb	1/14/2015, 3:41:38 PM
01-047-01a MSD	Cd 228.802	965.16	ppb	1/14/2015, 3:46:12 PM
10-021-02	Cd 228.802	3.209	ppb	1/14/2015, 3:50:47 PM
10-021-07	Cd 228.802	2.059	ppb	1/14/2015, 3:55:22 PM
10-021-47	Cd 228.802	1.397	ppb	1/14/2015, 3:59:55 PM
Cont Calib Verif	Cd 228.802	1003.0	ppb	1/14/2015, 4:04:29 PM
Cont Calib Blank	Cd 228.802	0.786	ppb	1/14/2015, 4:10:33 PM
LLCCV	Cd 228.802	10.528	ppb	1/14/2015, 4:21:13 PM
10-068-01a	Cd 228.802	2.166	ppb	1/14/2015, 4:29:49 PM
10-068-02a	Cd 228.802	2.946	ppb	1/14/2015, 4:34:23 PM
10-020-03(0113SM2)	Cd 228.802	11.056	ppb	1/14/2015, 4:38:57 PM

P150114F1B. Mean Only Report 1/14/2015, 6:01:34 PM

Sample	Label	Calc Conc.	Units	Date/Time
10-020-13	Cd 228.802	2.461	ppb	1/14/2015, 4:43:31 PM
10-020-14	Cd 228.802	1.242	ppb	1/14/2015, 4:48:04 PM
10-020-15	Cd 228.802	1.631	ppb	1/14/2015, 4:52:37 PM
10-020-16	Cd 228.802	8.042	ppb	1/14/2015, 4:57:11 PM
10-020-17	Cd 228.802	1.688	ppb	1/14/2015, 5:01:44 PM
10-020-21	Cd 228.802	0.916	ppb	1/14/2015, 5:06:19 PM
10-020-28	Cd 228.802	0.861	ppb	1/14/2015, 5:10:54 PM
Cont Calib Verif	Cd 228.802	1013.6	ppb	1/14/2015, 5:15:29 PM
Cont Calib Blank	Cd 228.802	-0.460uv	ppb	1/14/2015, 5:21:09 PM
LLCCV	Cd 228.802	10.054	ppb	1/14/2015, 5:25:43 PM

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 19, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-087

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 15, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

Case Narrative

Samples were collected on January 15, 2015 and received by the laboratory on January 15, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/Benzene EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-36-10.0	01-087-01	Soil	1-15-15	1-15-15	
EX-37-13.0	01-087-02	Soil	1-15-15	1-15-15	
EX-38-10.0	01-087-05	Soil	1-15-15	1-15-15	
Trip Blank_011515	01-087-06	Water	---	1-15-15	

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-36-10.0**					
Laboratory ID:	01-087-01					
Benzene	**ND**	0.020	EPA 8021B	1-16-15	1-16-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*68-123*				
Client ID:	**EX-37-13.0**					
Laboratory ID:	01-087-02					
Benzene	**ND**	0.020	EPA 8021B	1-16-15	1-16-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*68-123*				
Client ID:	**EX-38-10.0**					
Laboratory ID:	01-087-05					
Benzene	**ND**	0.020	EPA 8021B	1-16-15	1-16-15	
Gasoline	**ND**	5.5	NWTPH-Gx	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*106*	*68-123*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank_011515**					
Laboratory ID:	01-087-06					
Benzene	**ND**	1.0	EPA 8021B	1-16-15	1-16-15	
Gasoline	**ND**	100	NWTPH-Gx	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*71-113*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-36-10.0**					
Laboratory ID:	01-087-01					
Diesel Range Organics	**ND**	33	NWTPH-Dx	1-16-15	1-16-15	X1
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	1-16-15	1-16-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**EX-37-13.0**					
Laboratory ID:	01-087-02					
Diesel Range Organics	**ND**	27	NWTPH-Dx	1-16-15	1-16-15	X1
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	1-16-15	1-16-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**EX-38-10.0**					
Laboratory ID:	01-087-05					
Diesel Range Organics	**ND**	36	NWTPH-Dx	1-16-15	1-16-15	X1
Lube Oil Range Organics	**ND**	71	NWTPH-Dx	1-16-15	1-16-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-36-10.0**					
Laboratory ID:	01-087-01					
Benzo[a]anthracene	**0.029**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Chrysene	**0.032**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[b]fluoranthene	**0.014**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo(j,k)fluoranthene	**0.021**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[a]pyrene	**0.027**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Indeno(1,2,3-c,d)pyrene	**0.012**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270D/SIM	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*83*	*32 - 114*				
Pyrene-d10	*77*	*33 - 121*				
Terphenyl-d14	*65*	*31 - 116*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-37-13.0**					
Laboratory ID:	01-087-02					
Benzo[a]anthracene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Chrysene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo(j,k)fluoranthene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270D/SIM	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*85*	*32 - 114*				
Pyrene-d10	*78*	*33 - 121*				
Terphenyl-d14	*65*	*31 - 116*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-38-10.0**					
Laboratory ID:	01-087-05					
Benzo[a]anthracene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Chrysene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270D/SIM	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*32 - 114*				
Pyrene-d10	*81*	*33 - 121*				
Terphenyl-d14	*70*	*31 - 116*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-087-01					
Client ID:	**EX-36-10.0**					
Cadmium	**ND**	0.65	6010C	1-16-15	1-16-15	
Lab ID:	01-087-02					
Client ID:	**EX-37-13.0**					
Cadmium	**ND**	0.54	6010C	1-16-15	1-16-15	
Lab ID:	01-087-05					
Client ID:	**EX-38-10.0**					
Cadmium	**ND**	0.71	6010C	1-16-15	1-16-15	

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0116S2					
Benzene	**ND**	0.020	EPA 8021B	1-16-15	1-16-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*68-123*				

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-087-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*99*	*104*	*68-123*			
SPIKE BLANKS											
Laboratory ID:	SB0116S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.975**	**1.03**	1.00	1.00		**98**	**103**	75-117	5	13	
Surrogate:											
Fluorobenzene						*98*	*102*	*68-123*			

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0116G-1	5.00	4.61	8	+/- 20%
CCVD0116B-2	5.00	4.72	6	+/- 20%

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0116B-1	50.0	49.9	0	+/- 15%
Benzene	CCVD0116B-2	50.0	50.3	-1	+/- 15%

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0116W1					
Benzene	**ND**	1.0	EPA 8021B	1-16-15	1-16-15	
Gasoline	**ND**	100	NWTPH-Gx	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*71-113*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-088-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*94*	*91*	*71-113*			
MATRIX SPIKES											
Laboratory ID:	01-088-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**50.7**	**47.5**	50.0	50.0	ND	**101**	**95**	82-120	7	14	
Surrogate:											
Fluorobenzene						*100*	*90*	*71-113*			

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0116G-1	5.00	5.12	-2	+/- 20%
CCVH0116G-2	5.00	5.27	-5	+/- 20%

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0116B-1	50.0	49.4	1	+/- 15%
Benzene	CCVH0116B-2	50.0	49.0	2	+/- 15%
Benzene	CCVD0116B-2	50.0	50.3	-1	+/- 15%
Benzene	CCVD0116B-3	50.0	50.4	-1	+/- 15%

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0116S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	1-16-15	1-16-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	1-16-15	1-16-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	01-087-04									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	X1
Surrogate:										
o-Terphenyl						*99* *90*	*50-150*			

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0116F-V1	100	93.6	6.4	+/-15%
CCV0116F-V2	100	95.6	4.4	+/-15%
CCV0116R-V1	100	102	-2.0	+/-15%
CCV0116R-V2	100	102	-2.0	+/-15%

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0116S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-16-15	1-16-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*32 - 114*				
Pyrene-d10	*86*	*33 - 121*				
Terphenyl-d14	*66*	*31 - 116*				

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

cPAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0116S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0670**	**0.0719**	0.0833	0.0833	80	86	60 - 128	7	15	
Chrysene	**0.0660**	**0.0709**	0.0833	0.0833	79	85	60 - 117	7	13	
Benzo[b]fluoranthene	**0.0541**	**0.0566**	0.0833	0.0833	65	68	60 - 131	5	16	
Benzo(j,k)fluoranthene	**0.0501**	**0.0572**	0.0833	0.0833	60	69	57 - 126	13	20	
Benzo[a]pyrene	**0.0624**	**0.0666**	0.0833	0.0833	75	80	62 - 136	7	16	
Indeno(1,2,3-c,d)pyrene	**0.0548**	**0.0607**	0.0833	0.0833	66	73	60 - 127	10	19	
Dibenz[a,h]anthracene	**0.0544**	**0.0606**	0.0833	0.0833	65	73	62 - 133	11	22	
Surrogate:										
2-Fluorobiphenyl					*96*	*93*	*32 - 114*			
Pyrene-d10					*87*	*93*	*33 - 121*			
Terphenyl-d14					*73*	*79*	*31 - 116*			

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	1-16-15
Date Analyzed:	1-16-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0116SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 1-16-15
Date Analyzed: 1-16-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-075-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 1-16-15
Date Analyzed: 1-16-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-075-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**44.6**	89	**46.4**	93	4	

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV011615P	1.00	1.00	0	+/- 10%
Cadmium	LLICV1011615P	0.0100	0.0103	-3.0	+/- 30%
Cadmium	CCV10111615P	1.00	1.06	-6.0	+/- 10%
Cadmium	CCV2011615P	1.00	1.06	-6.0	+/- 10%
Cadmium	LLCCV2011615P	0.0100	0.0123	-23	+/- 30%
Cadmium	CCV2011615P	1.00	1.05	-5.0	+/- 10%
Cadmium	LLCCV2011615P	0.0100	0.00981	1.9	+/- 30%

Date of Report: January 19, 2015
Samples Submitted: January 15, 2015
Laboratory Reference: 1501-087
Project: 5147-012-06

% MOISTURE

Date Analyzed: 1-16-15

Client ID	Lab ID	% Moisture
EX-36-10.0	01-087-01	23
EX-37-13.0	01-087-02	8
EX-38-10.0	01-087-05	30

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

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Company: GeoEngineers
Project Number: PoA - Former Shell oil Tank Farm
Project Name: ~~5147~~ -5147-012-06
Project Manager: Abhijit Joshi
Sampled by: Robert Traher

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 01-087

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx Si-Gel cleanup	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAHs	Lab Naphthalene	* Extract Sample only Benzene		% Moisture
1	Ex-36-10.0	1-15-15	10:00	S	2			X	X													X	X		X	X
2	Ex-37-13.0		10:30					X	X													X	X		X	X
3	Ex-37-14.0		10:40					X	X													X	X	X	X	X
4	Ex-37-15.0		10:50					X	X													X	X	X	X	X
5	Ex-38-10.0		10:10					X	X													X	X		X	X
6	Trip Blank - 011515			L				X																	X	

	Signature	Company	Date	Time
Relinquished		GEI	1-15-15	1310
Received	Pat Miller	Speedy	1-15-15	1:10 PM
Relinquished	Pat Miller	Speedy	1-15-15	2:53 pm
Received		OSE	1-15-15	2:53 pm
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Extract sample only - Do not complete analysis.

Chromatograms with final report ☒

Data Package: Standard ☐ Level III ☒ Level IV ☐

Electronic Data Deliverables (EDDs) ☒ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 01-087

Initiated by: MV

Date Initiated: 1/15/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 4	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150116\0116008.D\FID2B.CH
Acq On : 16 Jan 2015 16:09 Operator:
Sample : 01-087-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 16:38 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	2292507	32.975	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1421187	34.931	PPB
11)	S	FLUOROBENZENE #2	6.92	6081303	27.319	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	8682567	28.868	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	890804	0.011	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3061374	0.036	PPM
3)	H	GASOLINE (9-24-14)	13.51	1013149	0.004	PPM
7)	H	entire GAS envelope #2 (9-	12.26	5714082	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2881663	N.D.	PPM
9)		MTBE #2	4.66	9144	0.077	PPB
10)		BENZENE #2	6.68	33228	0.069	PPB
12)		TOLUENE #2	9.07	99449	0.180	PPB
13)		ETHYLBENZENE #2	11.04	51133	0.090	PPB
14)		m,p-XYLENE #2	11.30	97720	N.D.	PPB
15)		o-XYLENE #2	11.79	65563	N.D.	PPB

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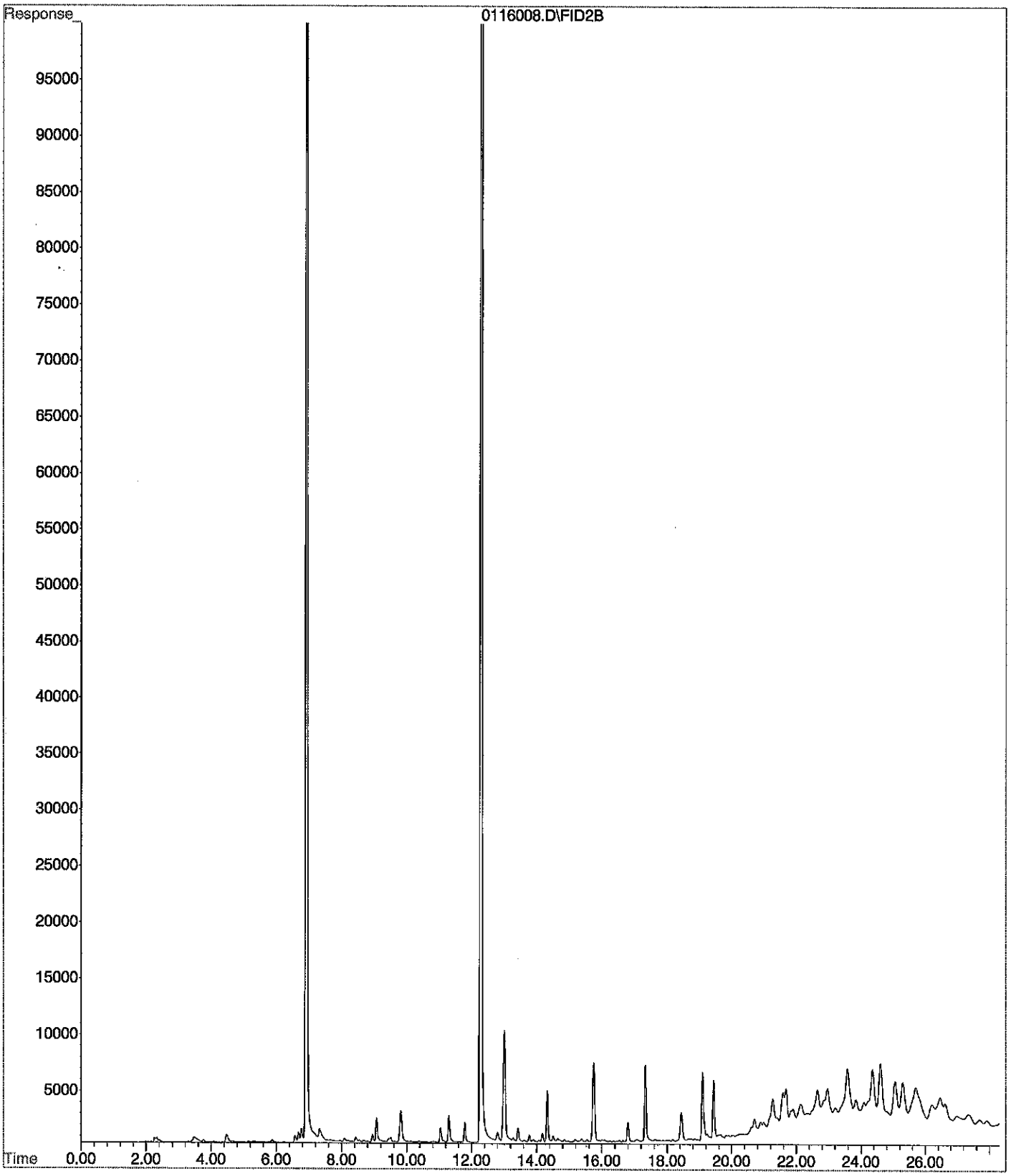
File : X:\BTEX\DARYL\DATA\D150116\0116008.D
Operator :
Acquired : 16 Jan 2015 16:09 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-087-01s
Misc Info : V2-36-17
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116010.D\FID1A.CH Vial: 10
Signal #2 : d:\btex\DATA\D150116\0116010.D\FID2B.CH
Acq On : 16 Jan 2015 17:16 Operator:
Sample : 01-087-02s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 17:44 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	3377625	48.740	PPB
5)	S	BROMOFLUOROBENZENE	12.28	2038762	50.360	PPB
11)	S	FLUOROBENZENE #2	6.92	8850408	39.909	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	12337189	41.214	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	785023	0.009	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2597235	0.028	PPM
3)	H	GASOLINE (9-24-14)	13.51	800485	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	4061066	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	1872260	N.D.	PPM
9)		MTBE #2	4.69	4396	0.012	PPB
10)		BENZENE #2	6.69	23010	0.034	PPB
12)		TOLUENE #2	9.08	56994	0.028	PPB
13)		ETHYLBENZENE #2	11.05	23194	N.D.	PPB
14)		m,p-XYLENE #2	11.30	52218	N.D.	PPB
15)		o-XYLENE #2	11.79	27371	N.D.	PPB

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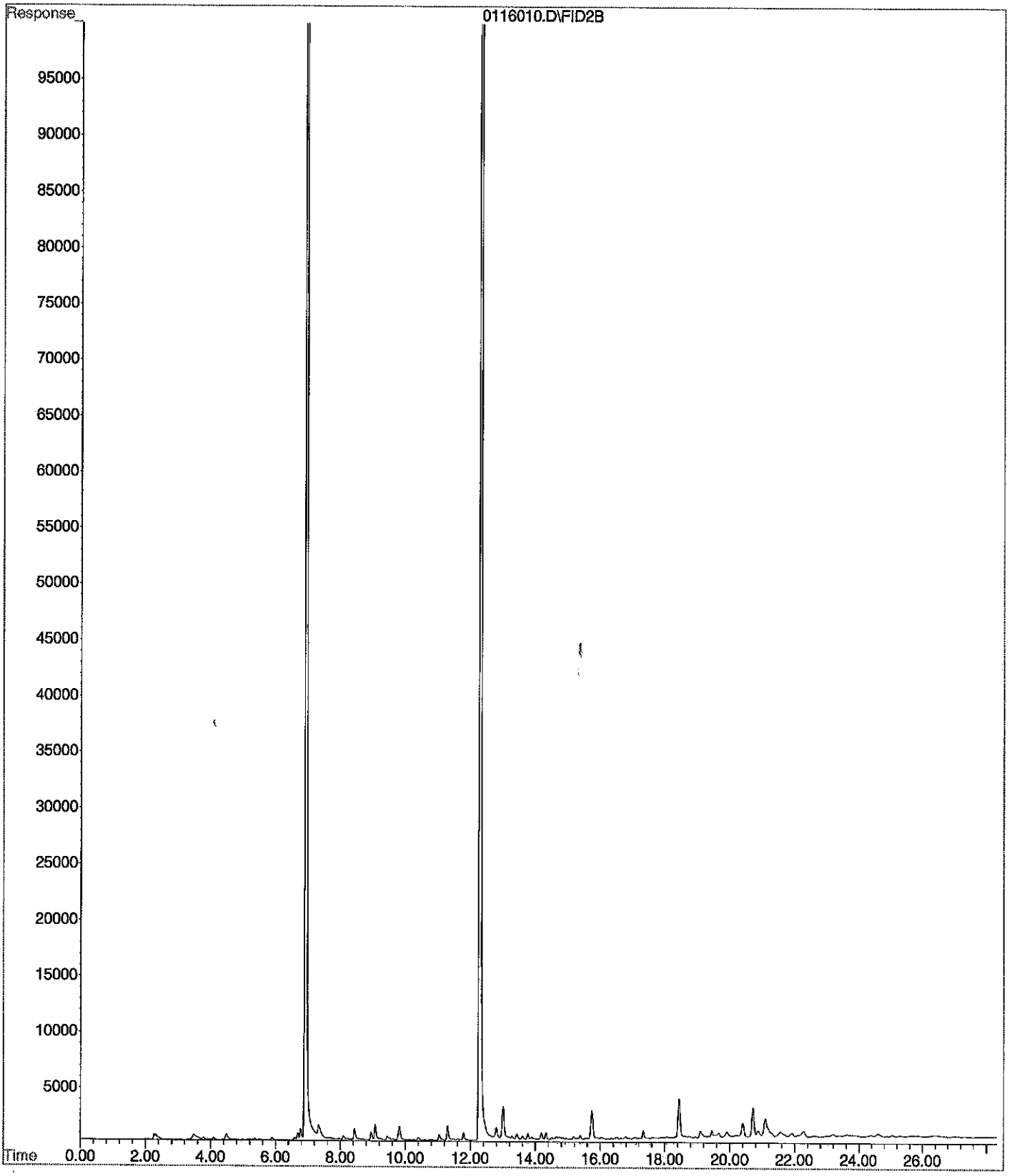
File : X:\BTEX\DARYL\DATA\D150116\0116010.D
Operator :
Acquired : 16 Jan 2015 17:16 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-087-02s
Misc Info : V2-36-17
Vial Number: 10



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116013.D\FID1A.CH Vial: 13
Signal #2 : d:\btex\DATA\D150116\0116013.D\FID2B.CH
Acq On : 16 Jan 2015 18:57 Operator:
Sample : 01-087-05s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 19:25 2015 Quant Results File: 141012DB.RES

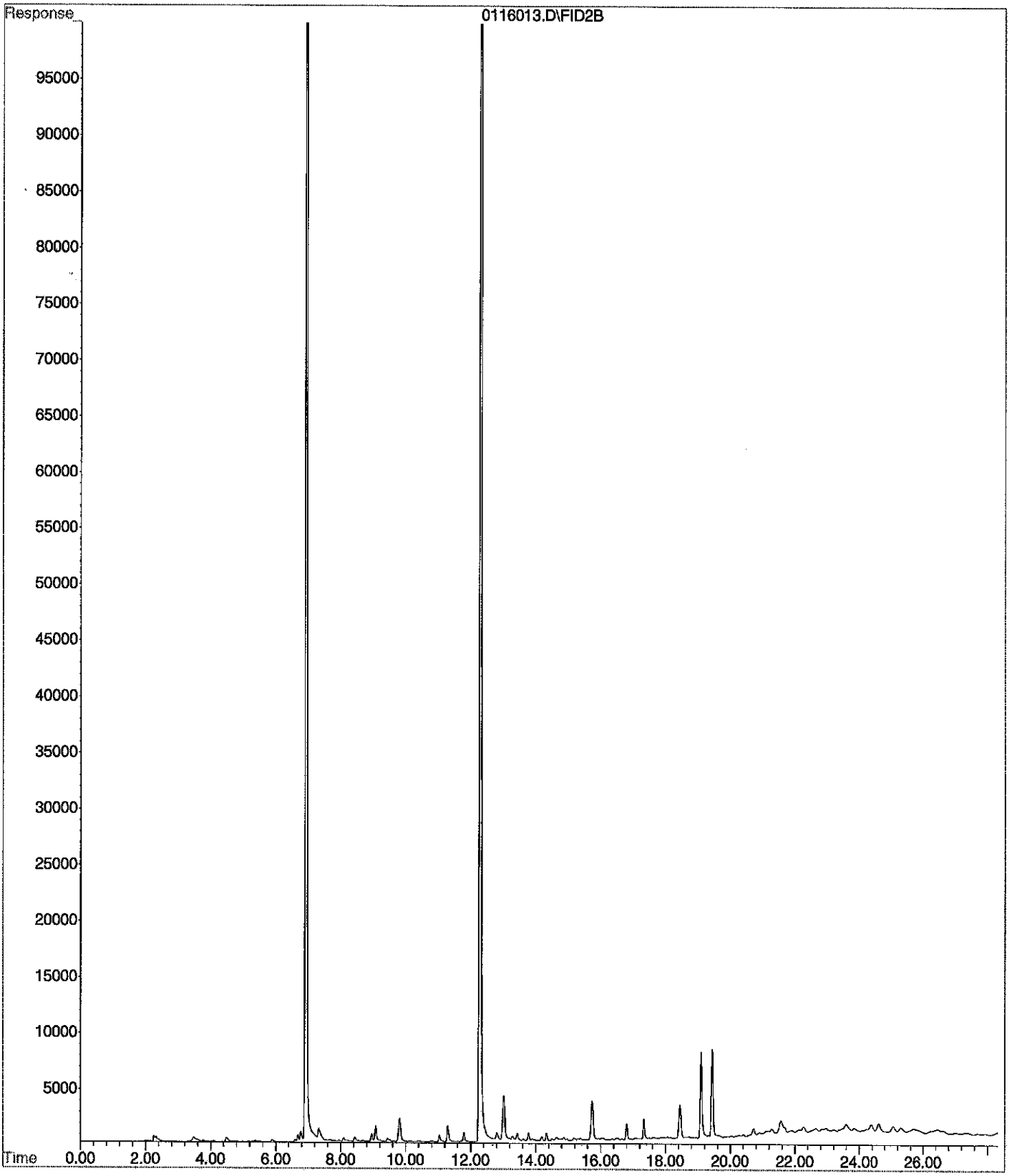
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	2213821	31.831 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1349188	33.132 PPB
11)	S	FLUOROBENZENE #2	6.92	5813240	26.100 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	8240447	27.375 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	811416	0.010 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2864918	0.033 PPM
3)	H	GASOLINE (9-24-14)	13.51	958967	0.003 PPM
7)	H	entire GAS envelope #2 (9-	12.26	4964266	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2305078	N.D. PPM
9)		MTBE #2	4.69	3813	0.004 PPB
10)		BENZENE #2	6.69	22361	0.032 PPB
12)		TOLUENE #2	9.07	67350	0.065 PPB
13)		ETHYLBENZENE #2	11.04	22970	N.D. PPB
14)		m,p-XYLENE #2	11.30	59738	N.D. PPB
15)		o-XYLENE #2	11.79	32056	N.D. PPB

1/19

File : X:\BTEX\DARYL\DATA\D150116\0116013.D
Operator :
Acquired : 16 Jan 2015 18:57 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-087-05s
Misc Info : V2-36-17
Vial Number: 13



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116005.D\FID1A.CH Vial: 5
Signal #2 : d:\btex\DATA\D150116\0116005.D\FID2B.CH
Acq On : 16 Jan 2015 14:29 Operator:
Sample : MB0116S2 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 14:58 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

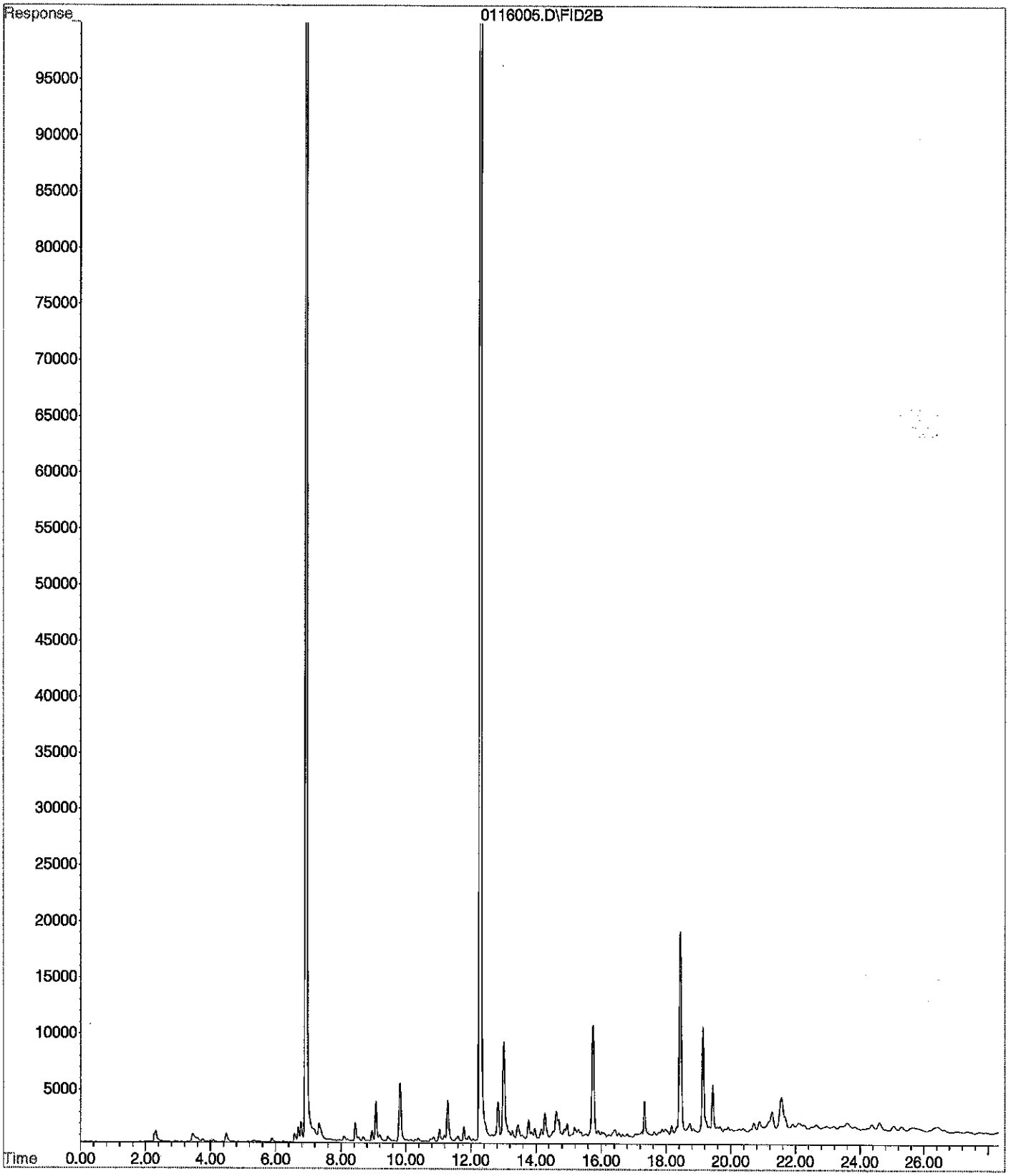
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3399010	49.050	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1999582	49.381	PPB
11)	S	FLUOROBENZENE #2	6.93	8661409	39.050	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11997619	40.067	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1391817	0.022	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4824987	0.063	PPM
3)	H	GASOLINE (9-24-14)	13.51	2115586	0.032	PPM
7)	H	entire GAS envelope #2 (9-	12.26	10372439	0.023	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	5276918	N.D.	PPM
9)		MTBE #2	0.00	0	N.D.	PPB
10)		BENZENE #2	6.69	44930	0.109	PPB
12)		TOLUENE #2	9.08	129209	0.288	PPB
13)		ETHYLBENZENE #2	11.04	45123	0.066	PPB
14)		m,p-XYLENE #2	11.30	152764	N.D.	PPB
15)		o-XYLENE #2	11.79	45422	N.D.	PPB

1/19

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150116\0116005.D
Operator :
Acquired : 16 Jan 2015 14:29 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB0116S2
Misc Info : V2-36-17
Vial Number: 5



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150116\0116008.D\FID2B.CH
Acq On : 16 Jan 2015 16:09 Operator:
Sample : 01-087-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 16:38 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

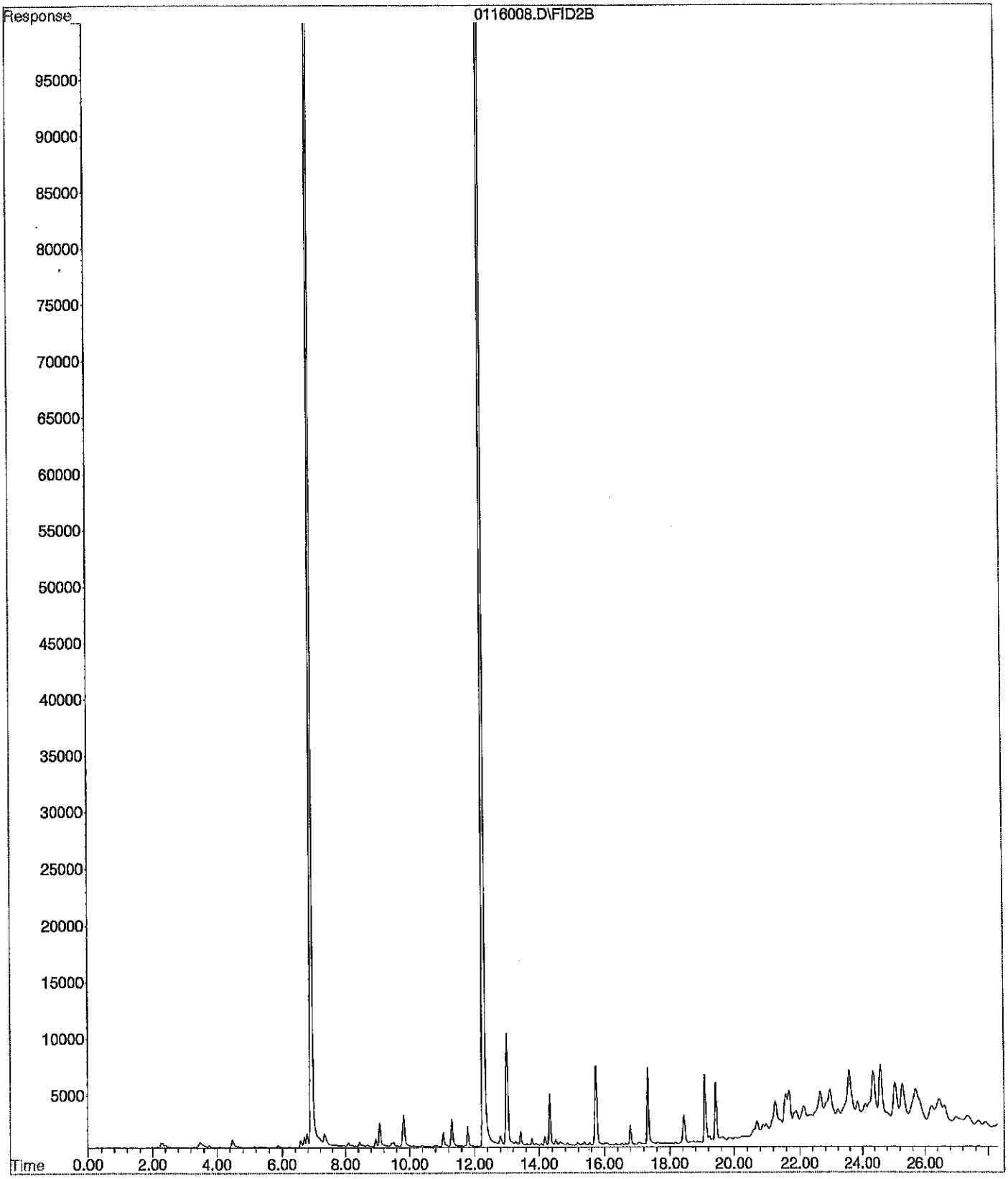
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	2292507	32.975 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1421187	34.931 PPB
11)	S	FLUOROBENZENE #2	6.92	6081303	27.319 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	8682567	28.868 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	890804	0.011 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3061374	0.036 PPM
3)	H	GASOLINE (9-24-14)	13.51	1013149	0.004 PPM
7)	H	entire GAS envelope #2 (9-	12.26	5714082	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2881663	N.D. PPM
9)		MTBE #2	4.66	9144	0.077 PPB
10)		BENZENE #2	6.68	33228	0.069 PPB
12)		TOLUENE #2	9.07	99449	0.180 PPB
13)		ETHYLBENZENE #2	11.04	51133	0.090 PPB
14)		m,p-XYLENE #2	11.30	97720	N.D. PPB
15)		o-XYLENE #2	11.79	65563	N.D. PPB

1/19

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150116\0116008.D
Operator :
Acquired : 16 Jan 2015 16:09 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-087-01s
Misc Info : V2-36-17
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116009.D\FID1A.CH Vial: 9
Signal #2 : d:\btex\DATA\D150116\0116009.D\FID2B.CH
Acq On : 16 Jan 2015 16:42 Operator:
Sample : 01-087-01s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 17:11 2015 Quant Results File: 141012DB.RES

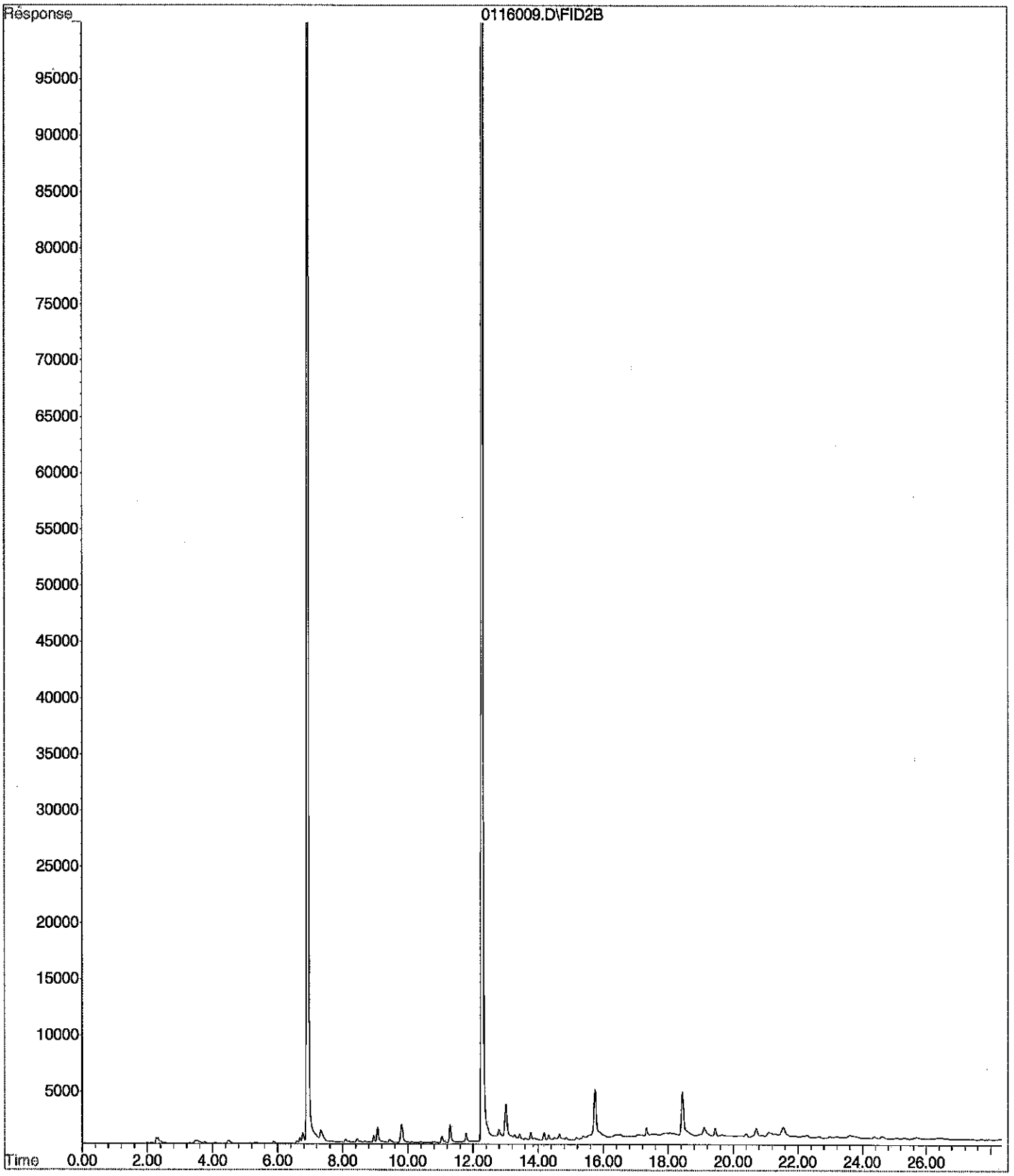
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	2403810	34.592	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1464321	36.009	PPB
11)	S	FLUOROBENZENE #2	6.92	6352579	28.552	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	9048962	30.106	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	763622	0.009	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2675661	0.030	PPM
3)	H	GASOLINE (9-24-14)	13.51	1006694	0.004	PPM
7)	H	entire GAS envelope #2 (9-	12.26	5543673	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3084473	N.D.	PPM
9)		MTBE #2	4.70	516	N.D.	PPB
10)		BENZENE #2	6.69	19145	0.021	PPB
12)		TOLUENE #2	9.07	67869	0.067	PPB
13)		ETHYLBENZENE #2	11.04	25038	N.D.	PPB
14)		m,p-XYLENE #2	11.30	69536	N.D.	PPB
15)		o-XYLENE #2	11.79	46384	N.D.	PPB

1/19

File : X:\BTEX\DARYL\DATA\D150116\0116009.D
Operator :
Acquired : 16 Jan 2015 16:42 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-087-01s DUP
Misc Info : V2-36-17
Vial Number: 9



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D150116\0116006.D\FID2B.CH
Acq On : 16 Jan 2015 15:03 Operator:
Sample : SB0116S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 15:31 2015 Quant Results File: 141012DB.RES

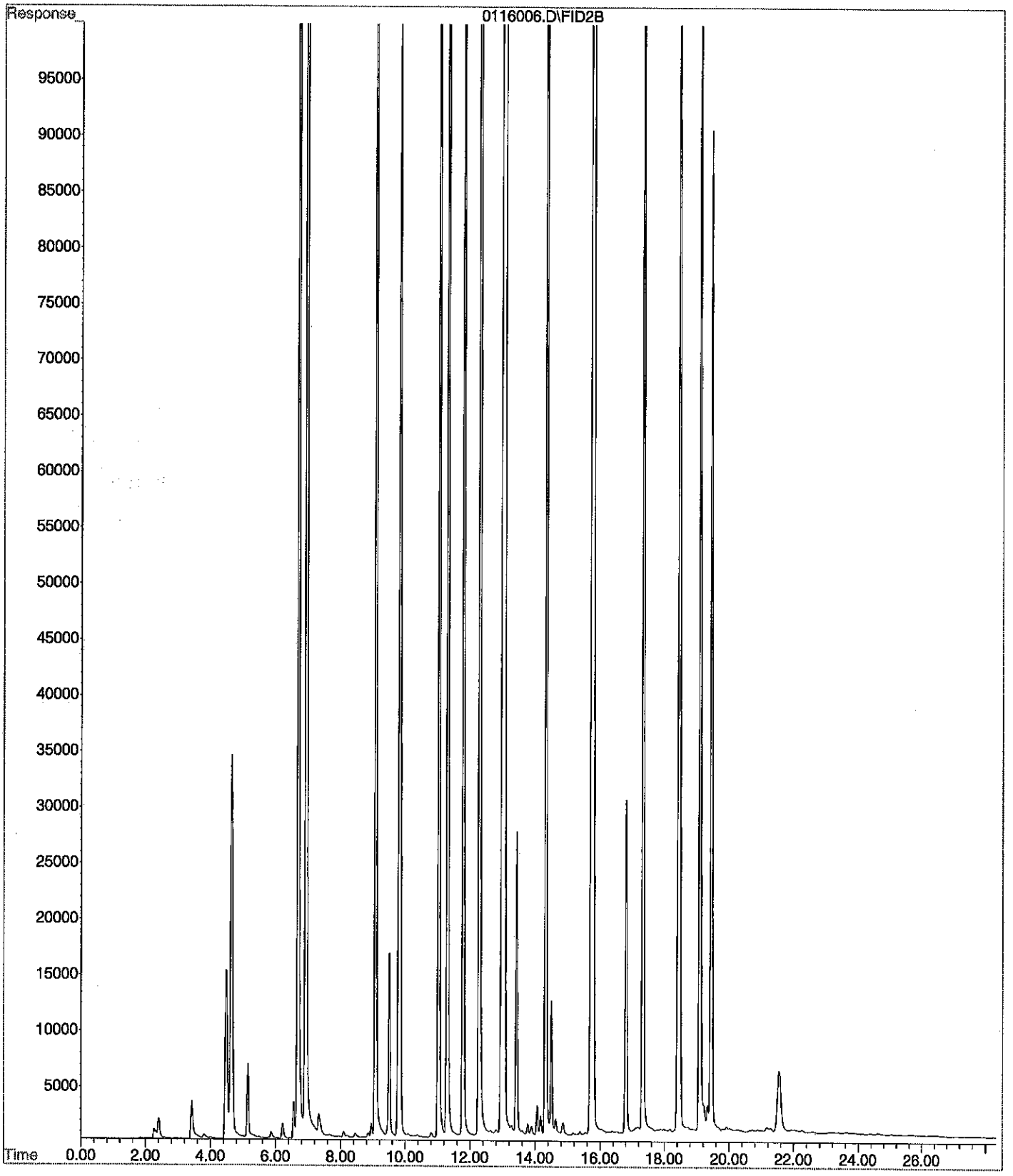
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.92	3292132	47.497	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1800663	44.411	PPB
11)	S	FLUOROBENZENE #2	6.92	8669559	39.087	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11117423	37.093	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	16746482	0.333	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	30950859	0.463	PPM
3)	H	GASOLINE (9-24-14)	13.51	21638628	0.526	PPM
7)	H	entire GAS envelope #2 (9-	12.26	107865491	0.702	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	83871741	0.705	PPM
9)		MTBE #2	4.64	1723334	23.552	PPB
10)		BENZENE #2	6.68	5736048	19.502	PPB
12)		TOLUENE #2	9.07	5374872	19.163	PPB
13)		ETHYLBENZENE #2	11.03	4695940	19.005	PPB
14)		m,p-XYLENE #2	11.30	5670946	19.003	PPB
15)		o-XYLENE #2	11.78	4826258	19.022	PPB

1/19

File : X:\BTEX\DARYL\DATA\D150116\0116006.D
Operator :
Acquired : 16 Jan 2015 15:03 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SB0116S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D150116\0116007.D\FID2B.CH
Acq On : 16 Jan 2015 15:36 Operator:
Sample : SBD0116S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 16:05 2015 Quant Results File: 141012DB.RES

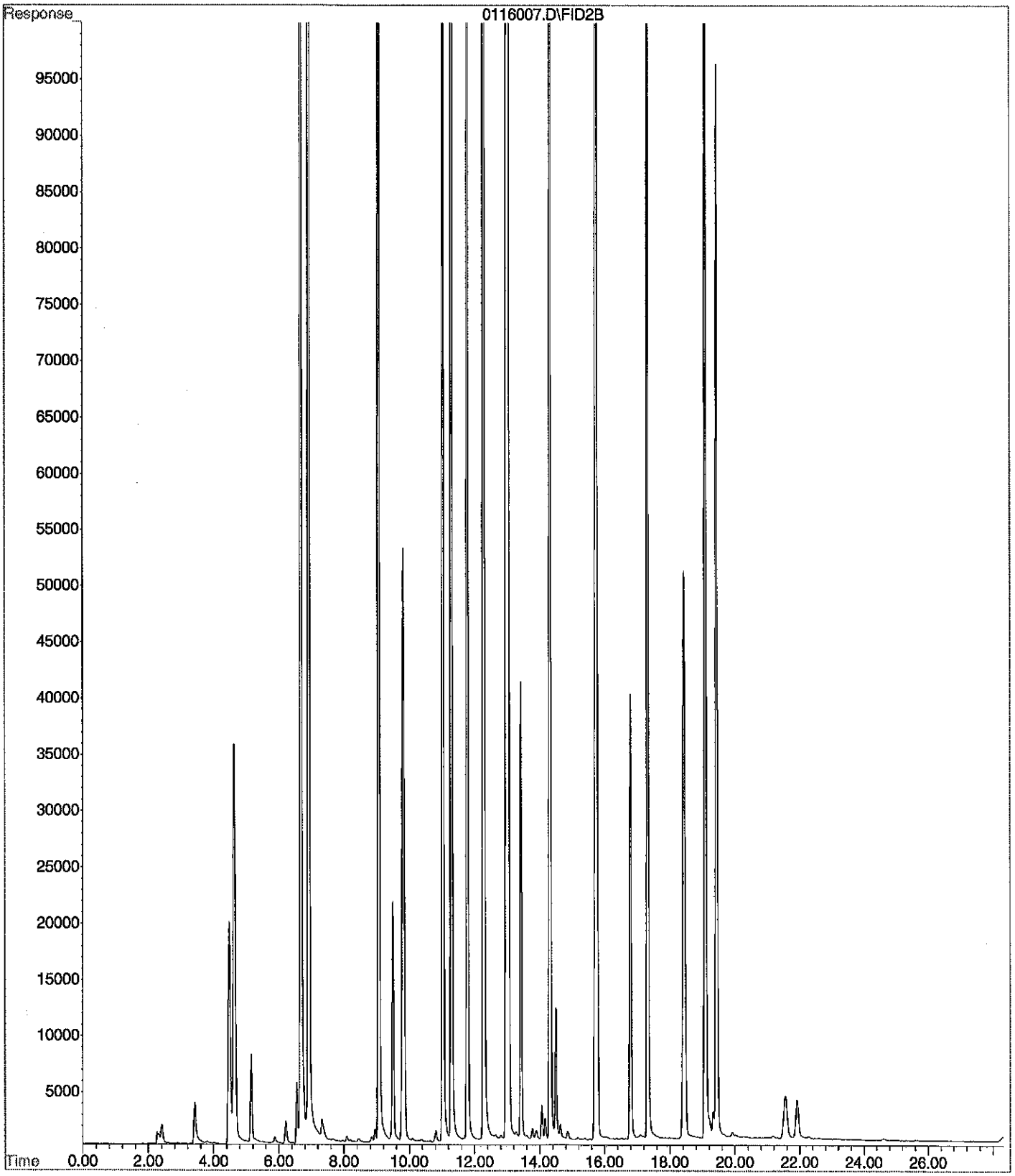
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3334661	48.115 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1806060	44.546 PPB
11)	S	FLUOROBENZENE #2	6.92	9085838	40.980 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11229941	37.473 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	16238313	0.323 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	30091185	0.450 PPM
3)	H	GASOLINE (9-24-14)	13.51	20632945	0.500 PPM
7)	H	entire GAS envelope #2 (9-	12.26	87559427	0.561 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	65740689	0.540 PPM
9)		MTBE #2	4.64	1807000	24.698 PPB
10)		BENZENE #2	6.68	6044209	20.552 PPB
12)		TOLUENE #2	9.07	5642444	20.126 PPB
13)		ETHYLBENZENE #2	11.03	4963219	20.093 PPB
14)		m,p-XYLENE #2	11.30	5956592	19.988 PPB
15)		o-XYLENE #2	11.78	5057799	19.948 PPB

1/19

File : X:\BTEX\DARYL\DATA\D150116\0116007.D
Operator :
Acquired : 16 Jan 2015 15:36 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SBD0116S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 7



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150116\0116001.D\FID2B.CH
Acq On : 16 Jan 2015 10:24 Operator:
Sample : CCVD0116G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 10:53 2015 Quant Results File: 141012DB.RES

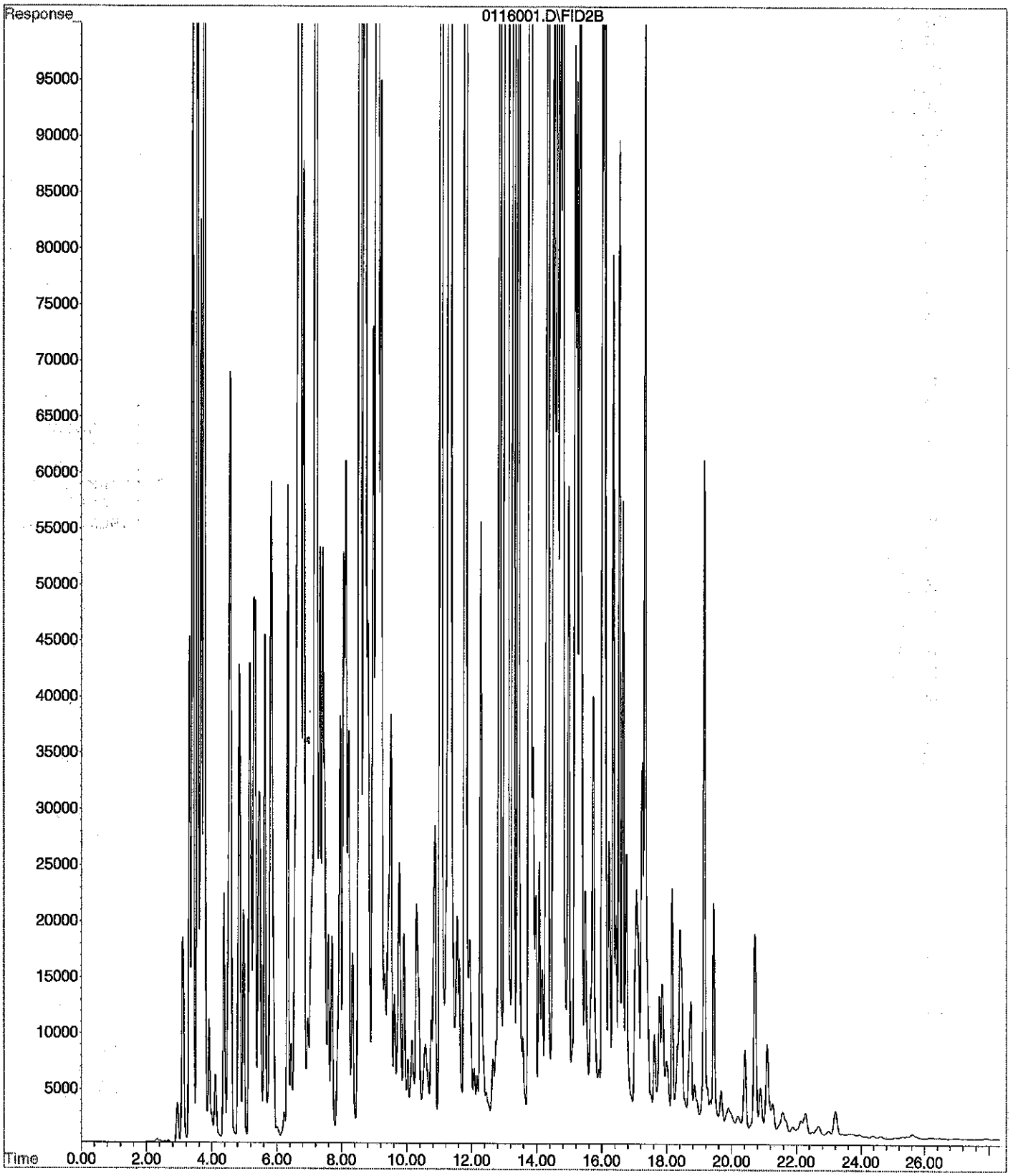
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1269876	31.151	PPB
11)	S	FLUOROBENZENE #2	6.96	482912	1.865	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2415218	7.697	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	292129453	5.927	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	392858553	6.006	PPM
3)	H	GASOLINE (9-24-14)	13.51	218914253	5.516	PPM
7)	H	entire GAS envelope #2 (9-	12.26	680611295	4.692	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	511693673	4.605	PPM
9)		MTBE #2	4.57	3765040	51.513	PPB
10)		BENZENE #2	6.69	45163421	153.853	PPB
12)		TOLUENE #2	9.08	114473630	411.740	PPB
13)		ETHYLBENZENE #2	11.04	28760770	117.000	PPB
14)		m,p-XYLENE #2	11.30	103242114	355.382	PPB
15)		o-XYLENE #2	11.79	39996046	159.586	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150116\0116001.D
Operator :
Acquired : 16 Jan 2015 10:24 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0116G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116030.D\FID1A.CH Vial: 30
Signal #2 : d:\btex\DATA\D150116\0116030.D\FID2B.CH
Acq On : 17 Jan 2015 4:24 Operator:
Sample : CCVD0116G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 17 4:52 2015 Quant Results File: 141012DB.RES

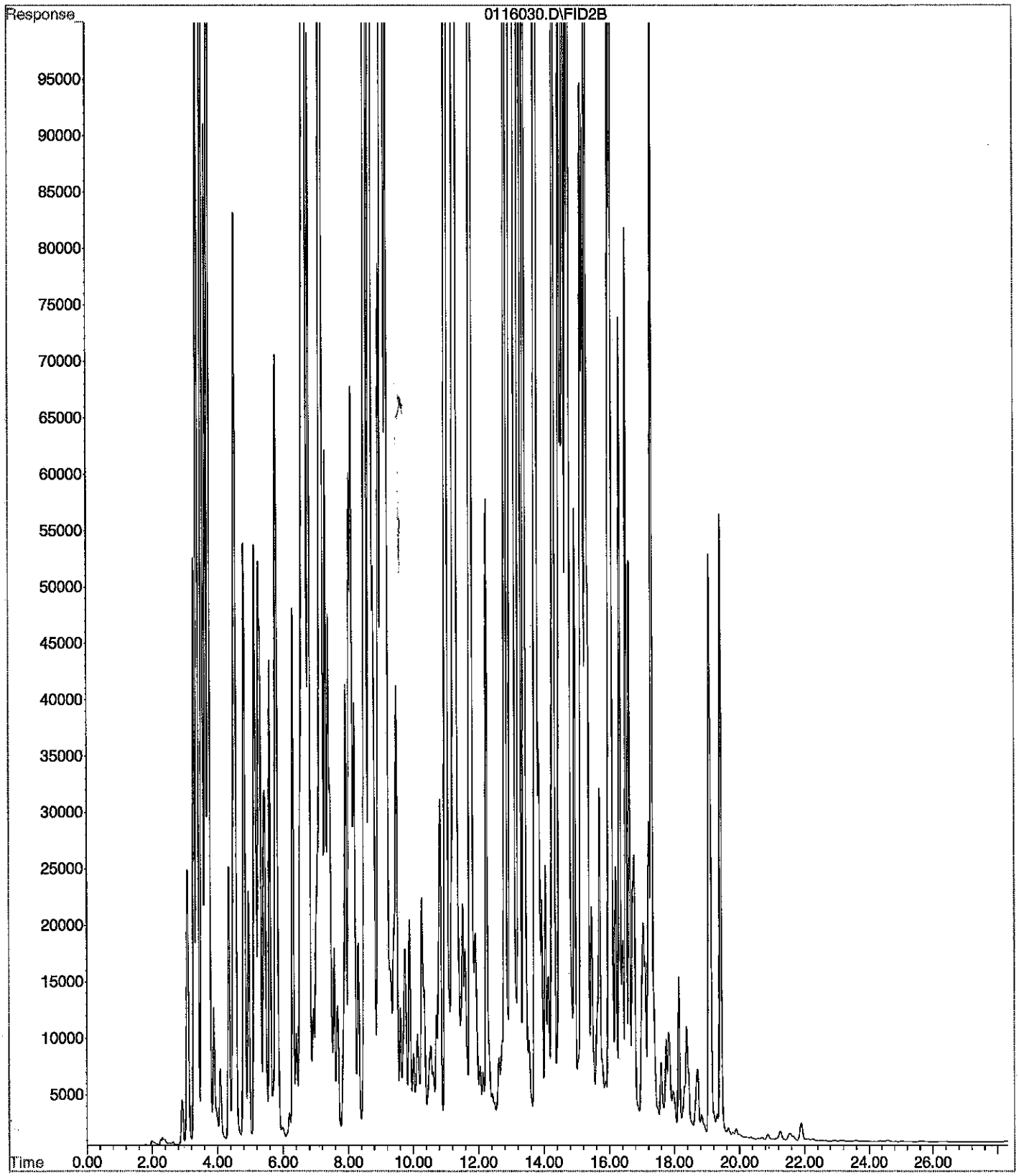
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	0.00	0	N.D.	PPB
11)	S	FLUOROBENZENE #2	6.93	520742	2.037	PPB
16)	S	BROMOFLUOROBENZENE #2	12.25	2507549	8.009	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1947	N.D.	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3970	N.D.	PPM
3)	H	GASOLINE (9-24-14)	13.51	2314	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	698387726	4.816	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	524670272	4.723	PPM
9)		MTBE #2	0.00	0	N.D.	PPB
10)		BENZENE #2	6.67	47787732	162.795	PPB
12)		TOLUENE #2	9.06	122664684	441.214	PPB
13)		ETHYLBENZENE #2	11.02	29165040	118.647	PPB
14)		m,p-XYLENE #2	11.27	109505115	376.974	PPB
15)		o-XYLENE #2	11.77	40801394	162.805	PPB

1/19

File : X:\BTEX\DARYL\DATA\D150116\0116030.D
Operator :
Acquired : 17 Jan 2015 4:24 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0116G-2
Misc Info : V2-36-08
Vial Number: 30



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150116\0116002.D\FID2B.CH
Acq On : 16 Jan 2015 10:58 Operator:
Sample : CCVD0116B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 11:26 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

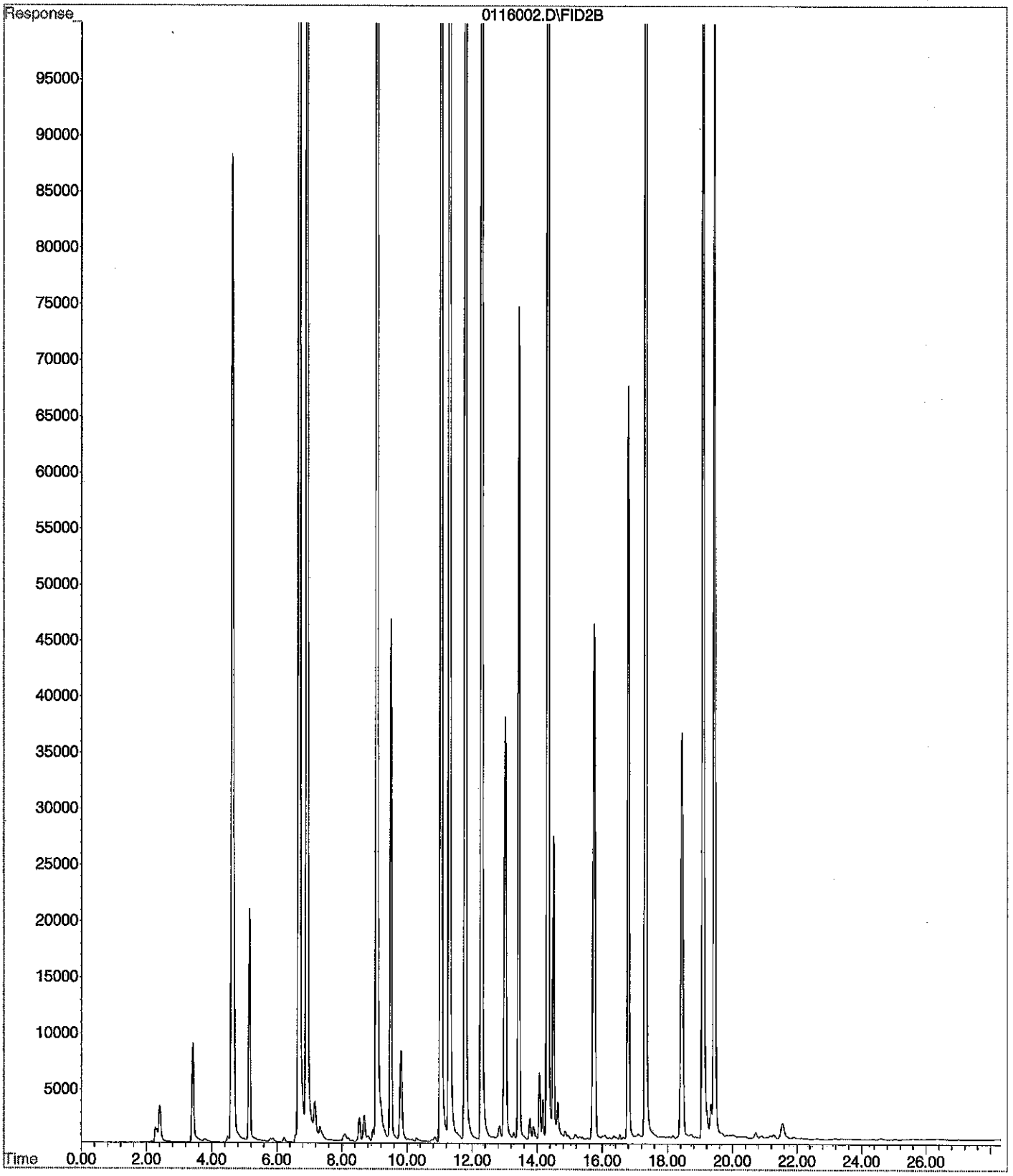
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3282396	47.356 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1940715	47.910 PPB
11)	S	FLUOROBENZENE #2	6.92	8642321	38.963 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11952491	39.914 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	32302339	0.649 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	55969754	0.846 PPM
3)	H	GASOLINE (9-24-14)	13.51	37791311	0.935 PPM
7)	H	entire GAS envelope #2 (9-	12.26	121802154	0.800 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	88102164	0.744 PPM
9)		MTBE #2	4.64	4149781	56.782 PPB
10)		BENZENE #2	6.68	14647771	49.869 PPB
12)		TOLUENE #2	9.07	14012495	50.245 PPB
13)		ETHYLBENZENE #2	11.03	12256058	49.791 PPB
14)		m,p-XYLENE #2	11.30	14763689	50.351 PPB
15)		o-XYLENE #2	11.79	12320492	48.975 PPB

1/19

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150116\0116002.D
Operator :
Acquired : 16 Jan 2015 10:58 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0116B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150116\0116017.D\FID2B.CH
Acq On : 16 Jan 2015 21:10 Operator:
Sample : CCVD0116B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 21:38 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

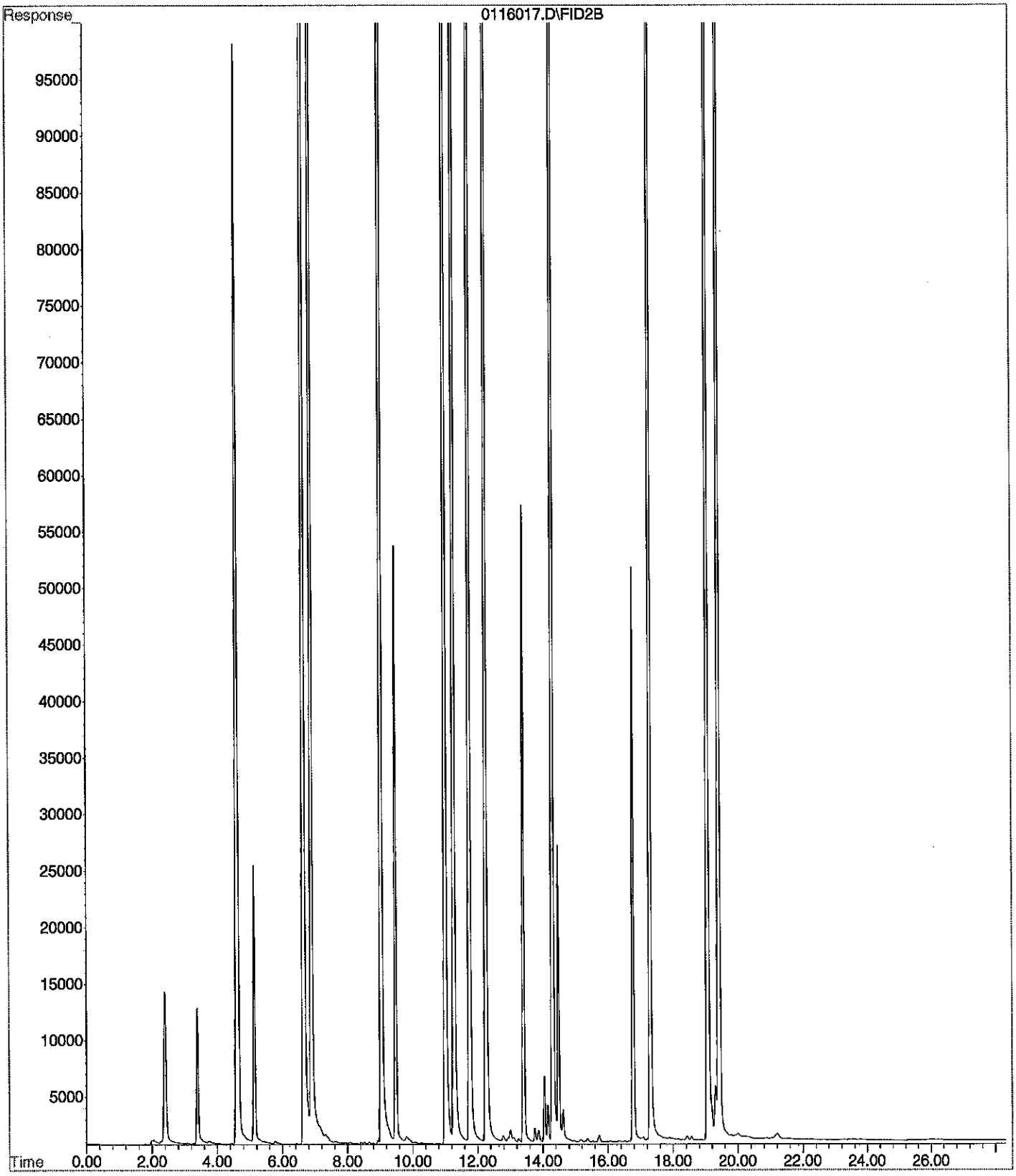
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	0.00	0	N.D.	PPB
11)	S	FLUOROBENZENE #2	6.90	8830742	39.820	PPB
16)	S	BROMOFLUOROBENZENE #2	12.26	11790743	39.368	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	5	N.D.	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	107	N.D.	PPM
3)	H	GASOLINE (9-24-14)	13.51	63	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	120262223	0.789	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	81653032	0.685	PPM
9)		MTBE #2	4.62	4604990	63.016	PPB
10)		BENZENE #2	6.66	14788615	50.349	PPB
12)		TOLUENE #2	9.05	13755426	49.320	PPB
13)		ETHYLBENZENE #2	11.01	11988537	48.701	PPB
14)		m,p-XYLENE #2	11.28	14359315	48.957	PPB
15)		o-XYLENE #2	11.77	12159480	48.331	PPB

1/19 ✓

(f)=RT Delta > 1/2 Window (m)=manual int.
0116017.D 141012DB.M Fri Jan 16 21:38:44 2015

File : X:\BTEX\DARYL\DATA\D150116\0116017.D
Operator :
Acquired : 16 Jan 2015 21:10 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0116B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 17



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116005.D Vial: 5
Acq On : 16 Jan 2015 12:03 Operator:
Sample : 01-087-06a Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 12:32 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2846576	37.463 PPB
11)	S	BROMOFLUOROBENZENE #2	14.71	3248600	40.533 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	1050087	N.D. PPM
3)	H	GASOLINE #2	14.96	321012	N.D. PPM
4)		MTBE #2	6.65	2280	0.057 PPB
5)		BENZENE #2	8.89	9230	0.078 PPB
7)		TOLUENE #2	11.38	36475	0.387 PPB
8)		ETHYLBENZENE #2	13.43	10225	0.134 PPB
9)		m,p-XYLENE #2	13.68	33866	0.322 PPB
10)		o-XYLENE #2	14.20	14185	0.160 PPB

Quantitation Report (Not Reviewed)

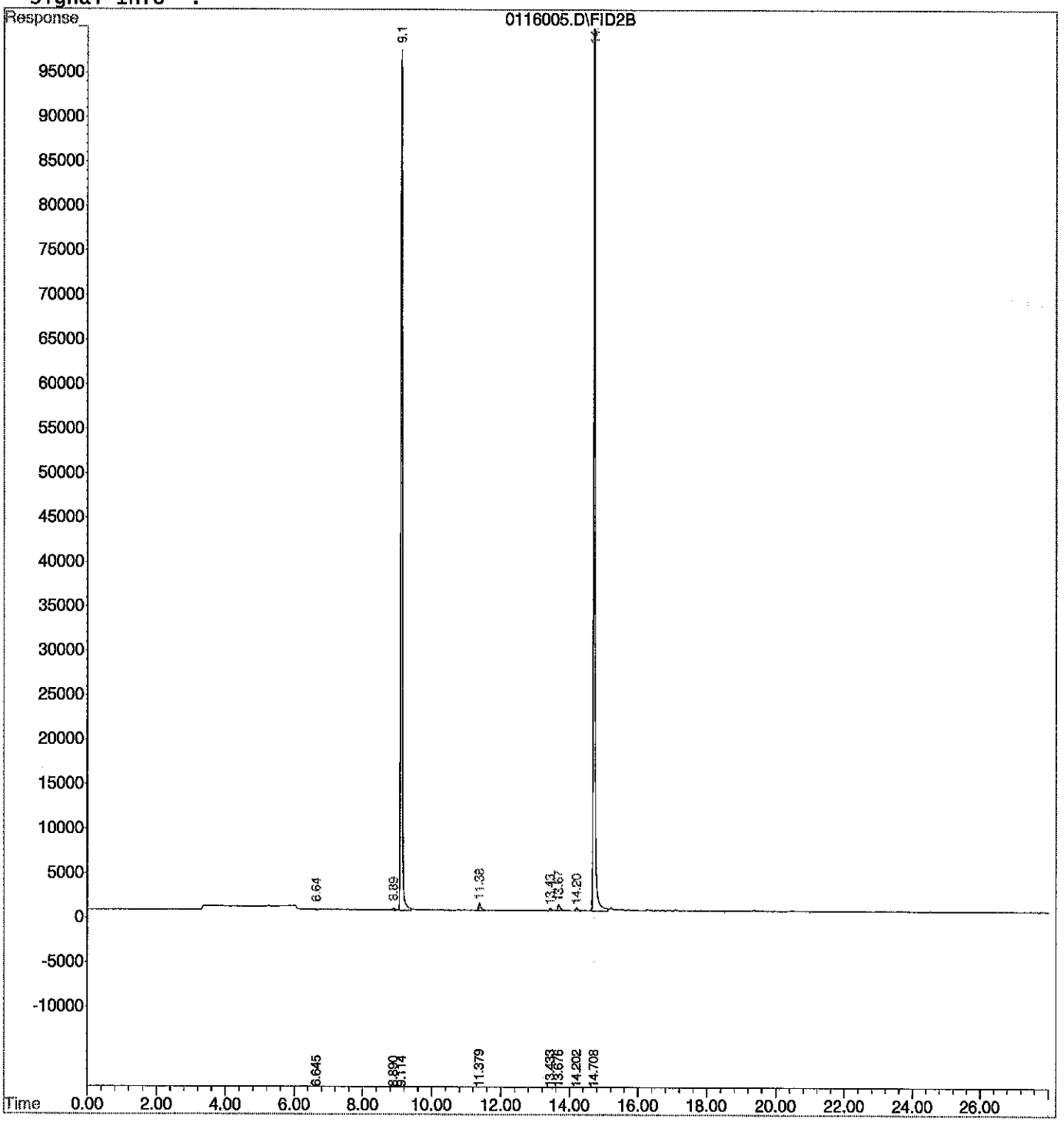
Data File : X:\BTEX\HOPE\DATA\H150116\0116005.D Vial: 5
Acq On : 16 Jan 2015 12:03 Operator:
Sample : 01-087-06a Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 12:32 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116004.D Vial: 4
Acq On : 16 Jan 2015 11:30 Operator:
Sample : MB0116W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 11:58 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2892944	38.077 PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3328865	41.544 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	1134655	N.D. PPM
3)	H	GASOLINE #2	14.96	402799	N.D. PPM
4)		MTBE #2	6.64	915	0.026 PPB
5)		BENZENE #2	8.89	10960	0.095 PPB
7)		TOLUENE #2	11.36	68906	0.757 PPB
8)		ETHYLBENZENE #2	13.41	17828	0.242 PPB
9)		m,p-XYLENE #2	13.66	53381	0.565 PPB
10)		o-XYLENE #2	14.19	19295	0.236 PPB

Quantitation Report (Not Reviewed)

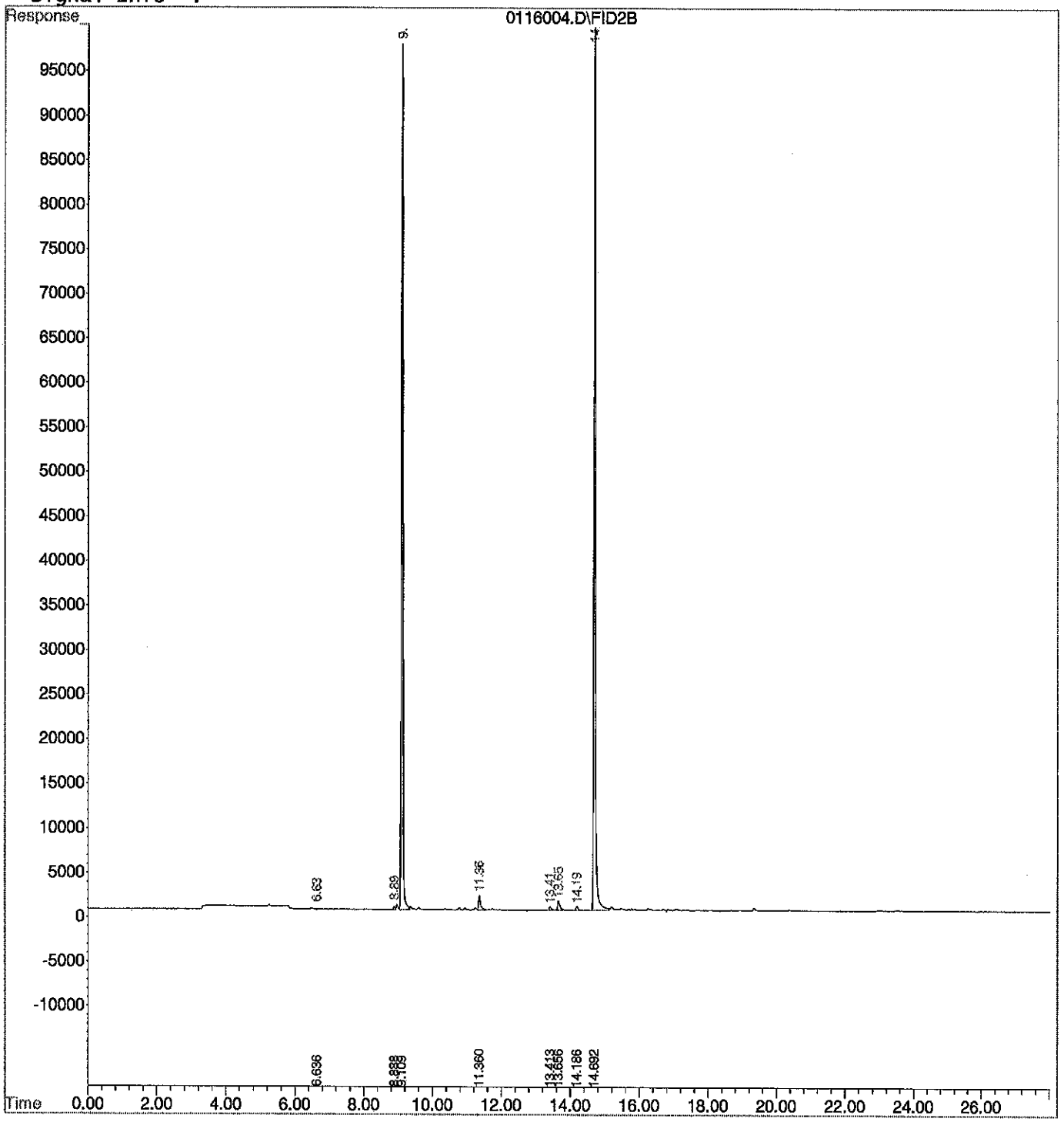
Data File : X:\BTEX\HOPE\DATA\H150116\0116004.D Vial: 4
Acq On : 16 Jan 2015 11:30 Operator:
Sample : MB0116W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 11:58 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116006.D
Acq On : 16 Jan 2015 12:37
Sample : 01-088-01c
Misc : V2-36-17

IntFile : EVENTS1.E

Vial: 6
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Jan 19 11:28 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
6)	S	FLUOROBENZENE #2	9.10	2845106	37.444	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.69	3240319	40.429	PPB	
		Target Compounds					
2)	H	Entire GAS Envelope #2	14.31	875689	N.D.	PPM	
3)	H	GASOLINE #2	14.96	263541	N.D.	PPM	
4)		MTBE #2	6.63	449	0.015	PPB	
5)		BENZENE #2	8.89	6105	0.049	PPB	
7)		TOLUENE #2	11.37	33888	0.357	PPB	
8)		ETHYLBENZENE #2	13.42	10648	0.140	PPB	m
9)		m,p-XYLENE #2	13.66	39054	0.387	PPB	
10)		o-XYLENE #2	14.19	13815	0.154	PPB	

1/19

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

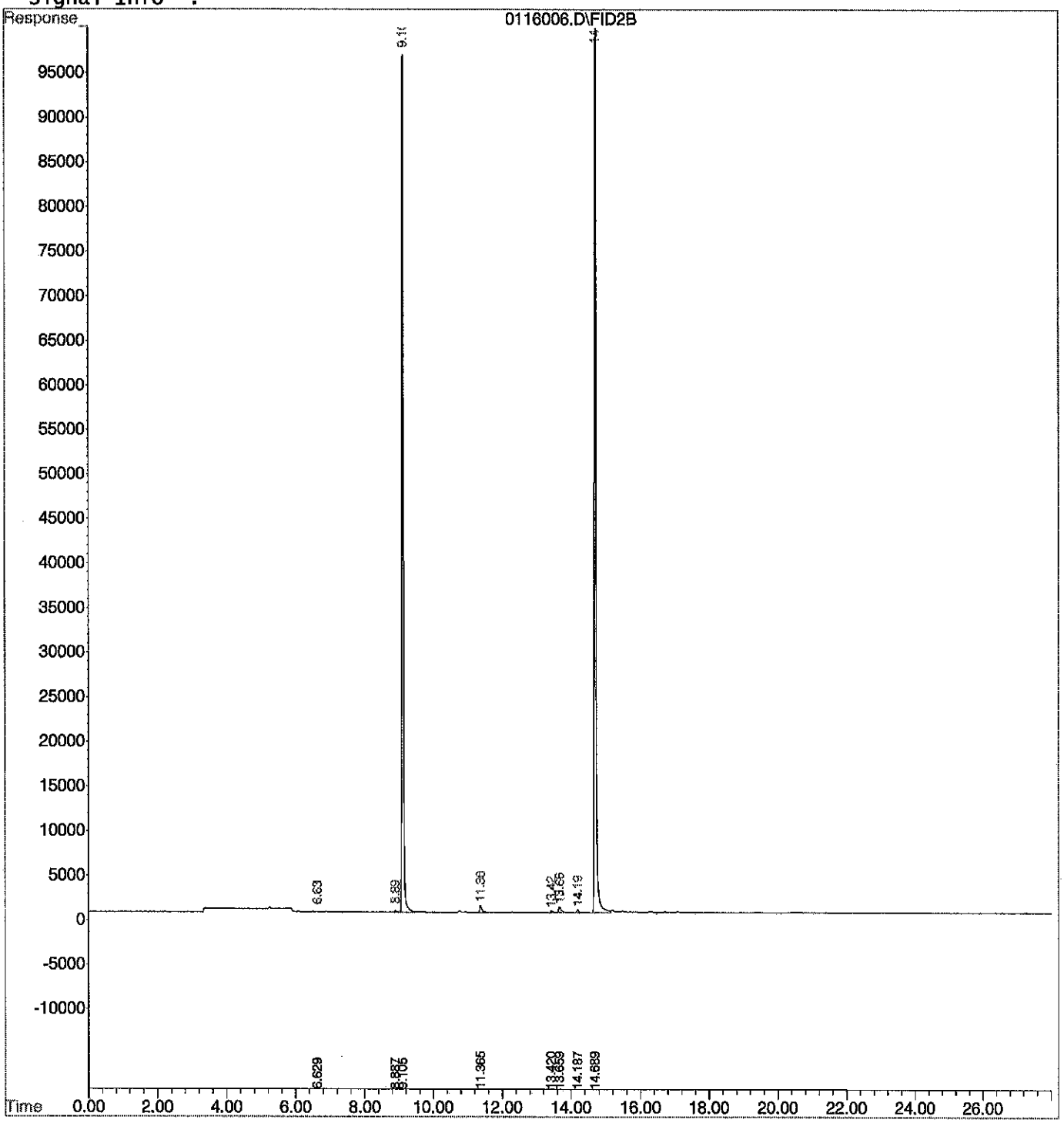
Data File : X:\BTEX\HOPE\DATA\H150116\0116006.D Vial: 6
Acq On : 16 Jan 2015 12:37 Operator:
Sample : 01-088-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 19 11:28 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116008.D Vial: 8
Acq On : 16 Jan 2015 13:45 Operator:
Sample : 01-088-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 19 9:31 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
6)	S	FLUOROBENZENE #2	9.10	2758193	36.293	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.70	3190635	39.803	PPB	
		Target Compounds					
2)	H	Entire GAS Envelope #2	14.31	927579	N.D.	PPM	
3)	H	GASOLINE #2	14.96	234363	N.D.	PPM	
4)		MTBE #2	6.63	181	0.009	PPB	
5)		BENZENE #2	8.88	9092	0.077	PPB	
7)		TOLUENE #2	11.37	35945	0.381	PPB	
8)		ETHYLBENZENE #2	13.43	6402	0.079	PPB	m
9)		m,p-XYLENE #2	13.67	56225	0.601	PPB	
10)		o-XYLENE #2	14.20	25423	0.327	PPB	

1/19

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

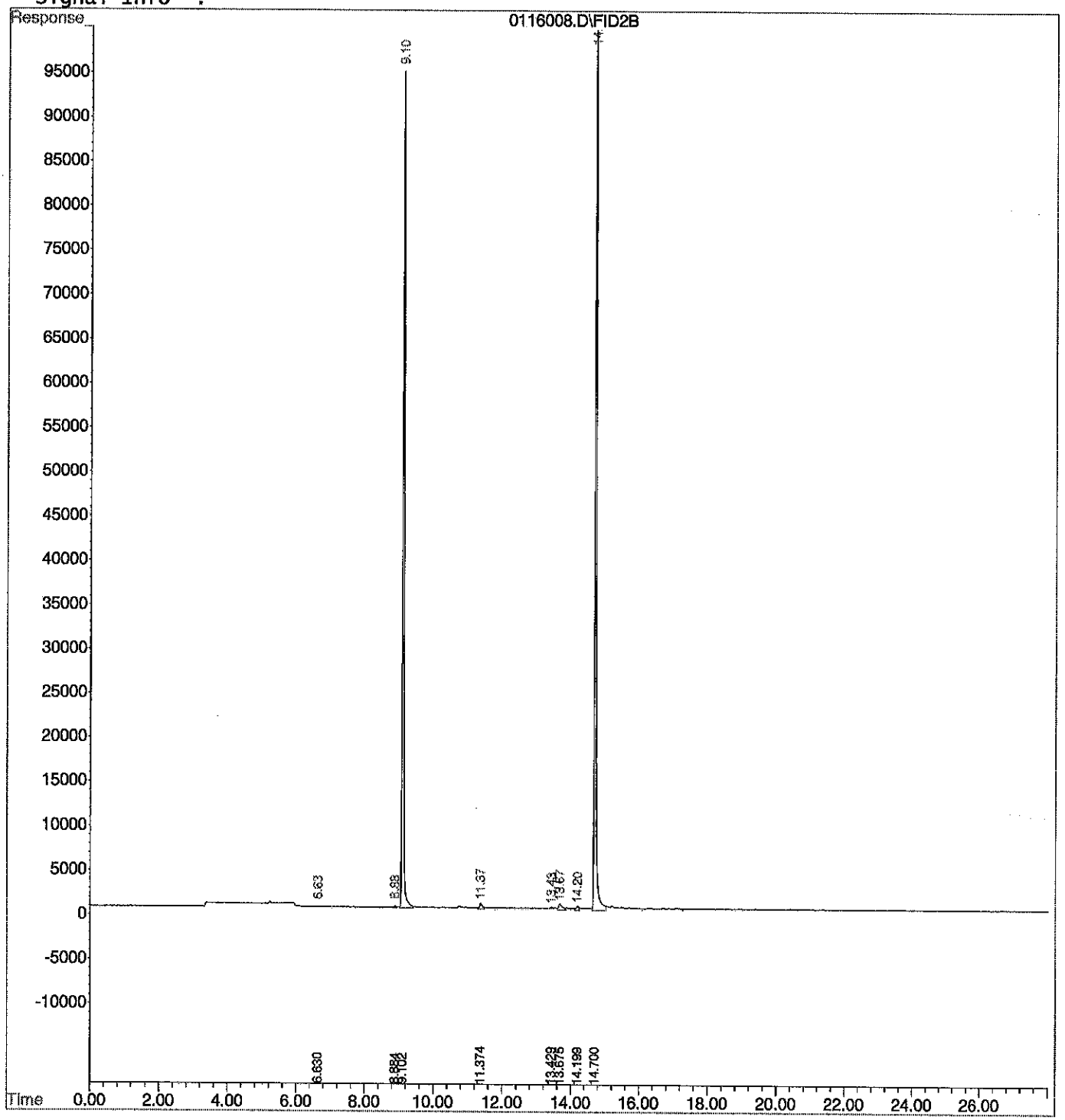
Data File : X:\BTEX\HOPE\DATA\H150116\0116008.D Vial: 8
Acq On : 16 Jan 2015 13:45 Operator:
Sample : 01-088-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 19 9:31 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116018.D\FID1A.CH Vial: 18
Signal #2 : d:\btex\DATA\D150116\0116018.D\FID2B.CH
Acq On : 16 Jan 2015 21:43 Operator:
Sample : 01-088-01c MS Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

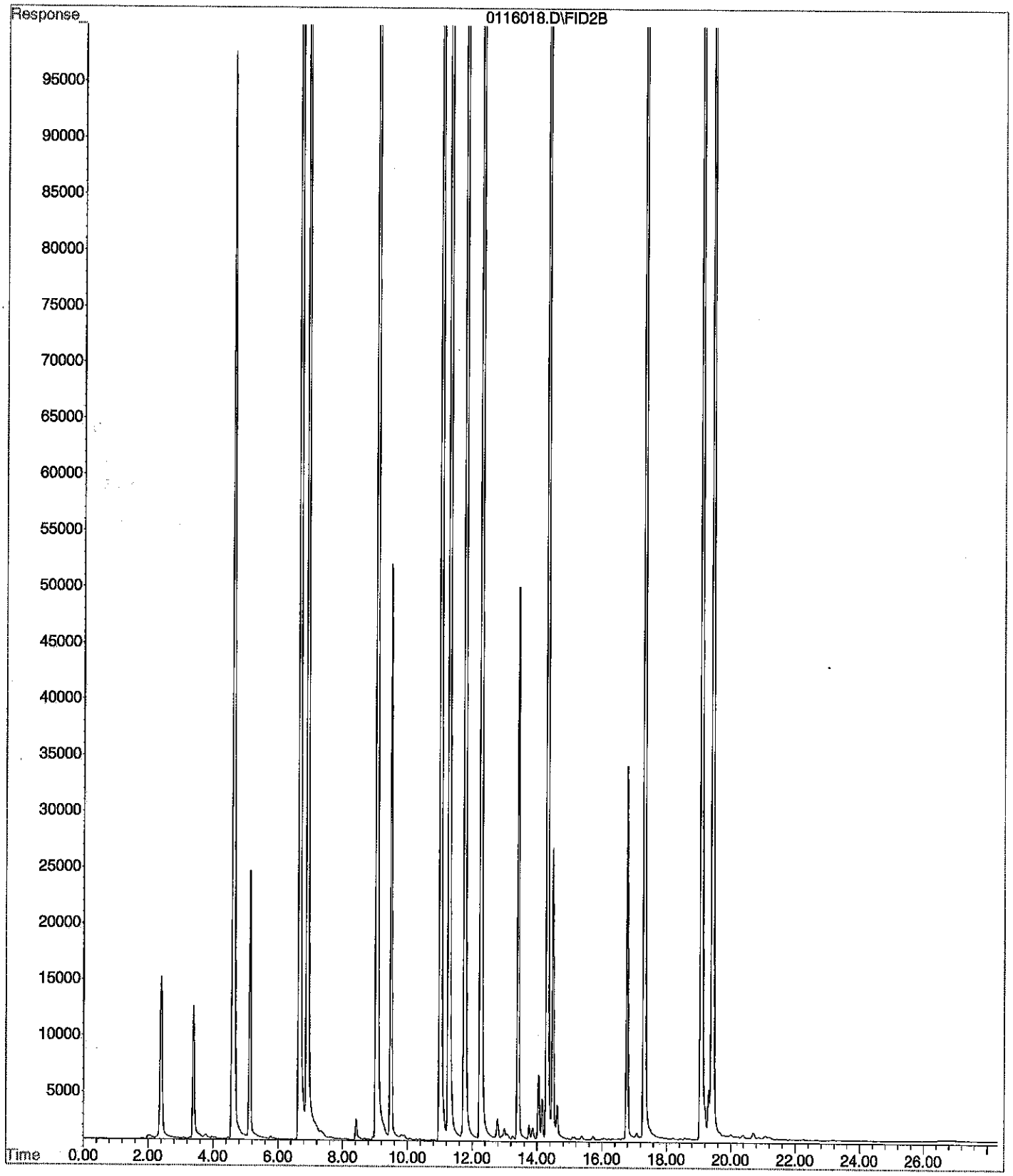
Quant Time: Jan 16 22:12 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	0.00	0	N.D.	PPB
11)	S	FLUOROBENZENE #2	6.91	8828487	39.810	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11865039	39.619	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	23565	N.D.	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	68469	N.D.	PPM
3)	H	GASOLINE (9-24-14)	13.51	31857	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	117965582	0.773	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	80698181	0.676	PPM
9)		MTBE #2	4.62	4587203	62.772	PPB
10)		BENZENE #2	6.66	14888620	50.689	PPB
12)		TOLUENE #2	9.05	13784230	49.423	PPB
13)		ETHYLBENZENE #2	11.02	11937799	48.495	PPB
14)		m,p-XYLENE #2	11.28	14240589	48.547	PPB
15)		o-XYLENE #2	11.77	12114999	48.153	PPB

File : X:\BTEX\DARYL\DATA\D150116\0116018.D
Operator :
Acquired : 16 Jan 2015 21:43 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-088-01c MS
Misc Info : V2-36-23,V2-37-04
Vial Number: 18



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116023.D\FID1A.CH Vial: 23
Signal #2 : d:\btex\DATA\D150116\0116023.D\FID2B.CH
Acq On : 17 Jan 2015 00:30 Operator:
Sample : 01-088-01c MSD Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 17 0:58 2015 Quant Results File: 141012DB.RES

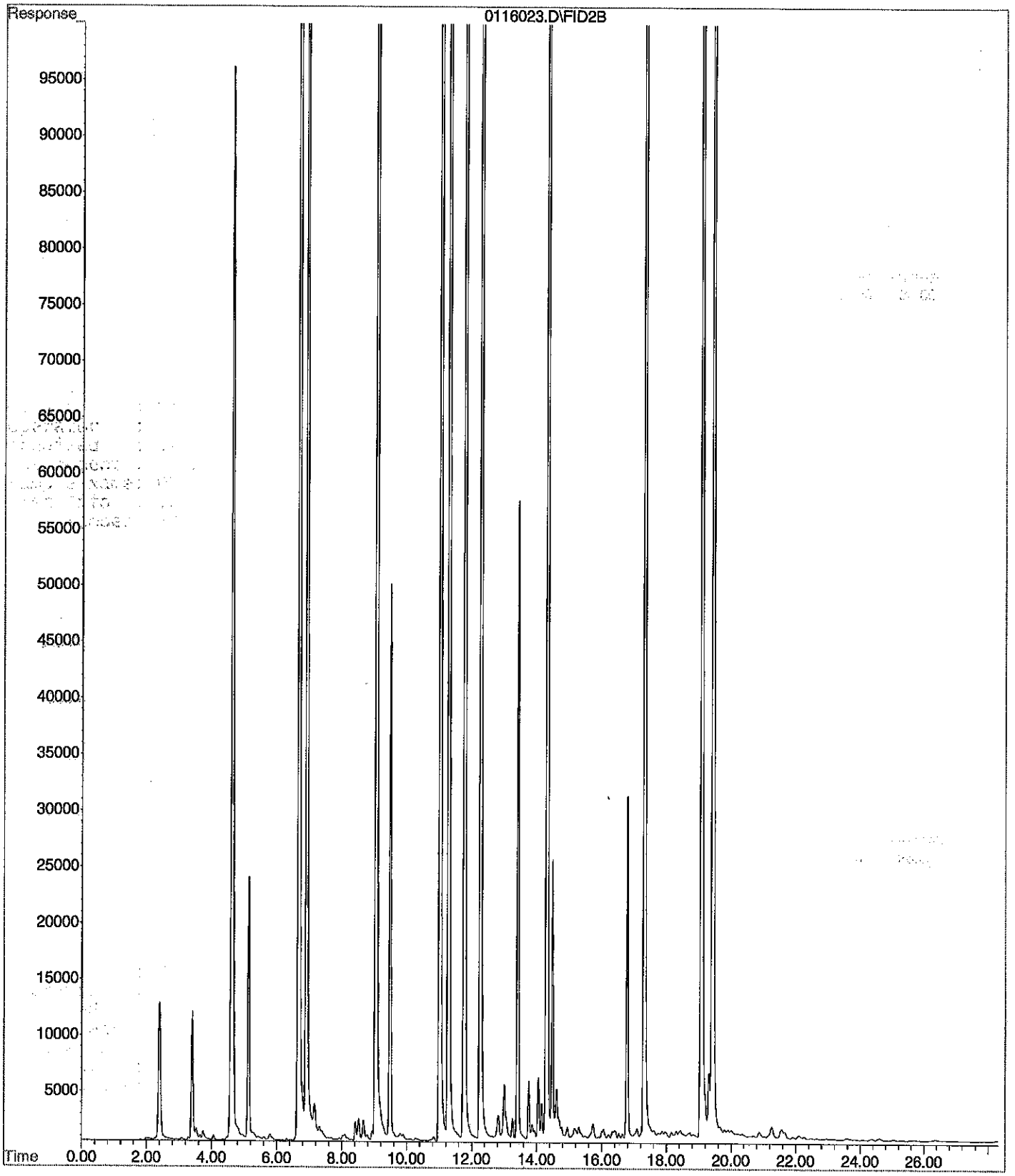
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	0.00	0	N.D.	PPB
11)	S	FLUOROBENZENE #2	6.91	8027237	36.167	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	10822961	36.099	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	23325	N.D.	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	59625	N.D.	PPM
3)	H	GASOLINE (9-24-14)	13.51	25440	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	119973123	0.787	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	79753387	0.668	PPM
9)		MTBE #2	4.62	4568478	62.516	PPB
10)		BENZENE #2	6.66	13938098	47.450	PPB
12)		TOLUENE #2	9.05	13035687	46.730	PPB
13)		ETHYLBENZENE #2	11.02	11243897	45.669	PPB
14)		m,p-XYLENE #2	11.28	13600042	46.339	PPB
15)		o-XYLENE #2	11.77	11363833	45.151	PPB

4/19 ✓

File : X:\BTEX\DARYL\DATA\D150116\0116023.D
Operator :
Acquired : 17 Jan 2015 00:30 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-088-01c MSD
Misc Info : V2-36-23,V2-37-04
Vial Number: 23



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116001.D Vial: 1
Acq On : 16 Jan 2015 9:49 Operator:
Sample : CCVH0116G-1 Inst : HOPE
Misc : V2-37-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 10:17 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.11	4507194	59.441	PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	5715184	71.603	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	178323579	5.173	PPM
3)	H	GASOLINE #2	14.96	137454215	5.117	PPM
4)		MTBE #2	6.58	560985	12.734	PPB
5)		BENZENE #2	8.88	13338429	125.976	PPB
7)		TOLUENE #2	11.35	38260485	436.399	PPB
8)		ETHYLBENZENE #2	13.38	7675580	109.279	PPB
9)		m,p-XYLENE #2	13.63	28763215	358.015	PPB
10)		o-XYLENE #2	14.16	10670255	158.642	PPB

Quantitation Report (Not Reviewed)

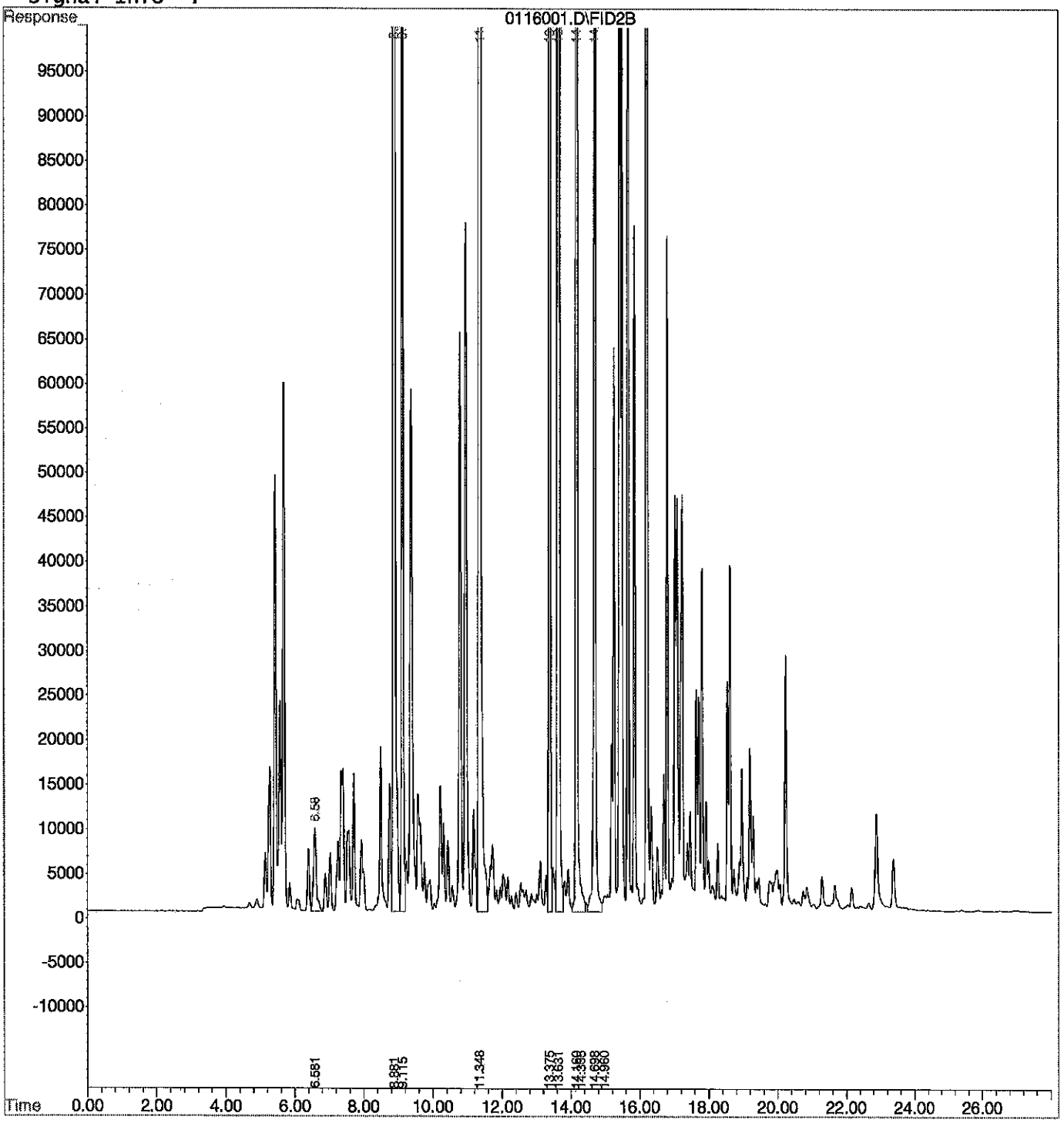
Data File : X:\BTEX\HOPE\DATA\H150116\0116001.D Vial: 1
Acq On : 16 Jan 2015 9:49 Operator:
Sample : CCVH0116G-1 Inst : HOPE
Misc : V2-37-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 10:17 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116013.D Vial: 13
Acq On : 16 Jan 2015 16:45 Operator:
Sample : CCVH0116G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 16 17:13 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.10	2971046	39.111 PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	4072096	50.906 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	178814879	5.187 PPM
3)	H	GASOLINE #2	14.96	141561715	5.271 PPM
4)		MTBE #2	6.55	514430	11.678 PPB
5)		BENZENE #2	8.86	13586150	128.316 PPB
7)		TOLUENE #2	11.33	39171359	446.789 PPB
8)		ETHYLBENZENE #2	13.36	7953697	113.239 PPB
9)		m,p-XYLENE #2	13.62	29858737	371.654 PPB
10)		o-XYLENE #2	14.15	11011003	163.710 PPB

Quantitation Report (Not Reviewed)

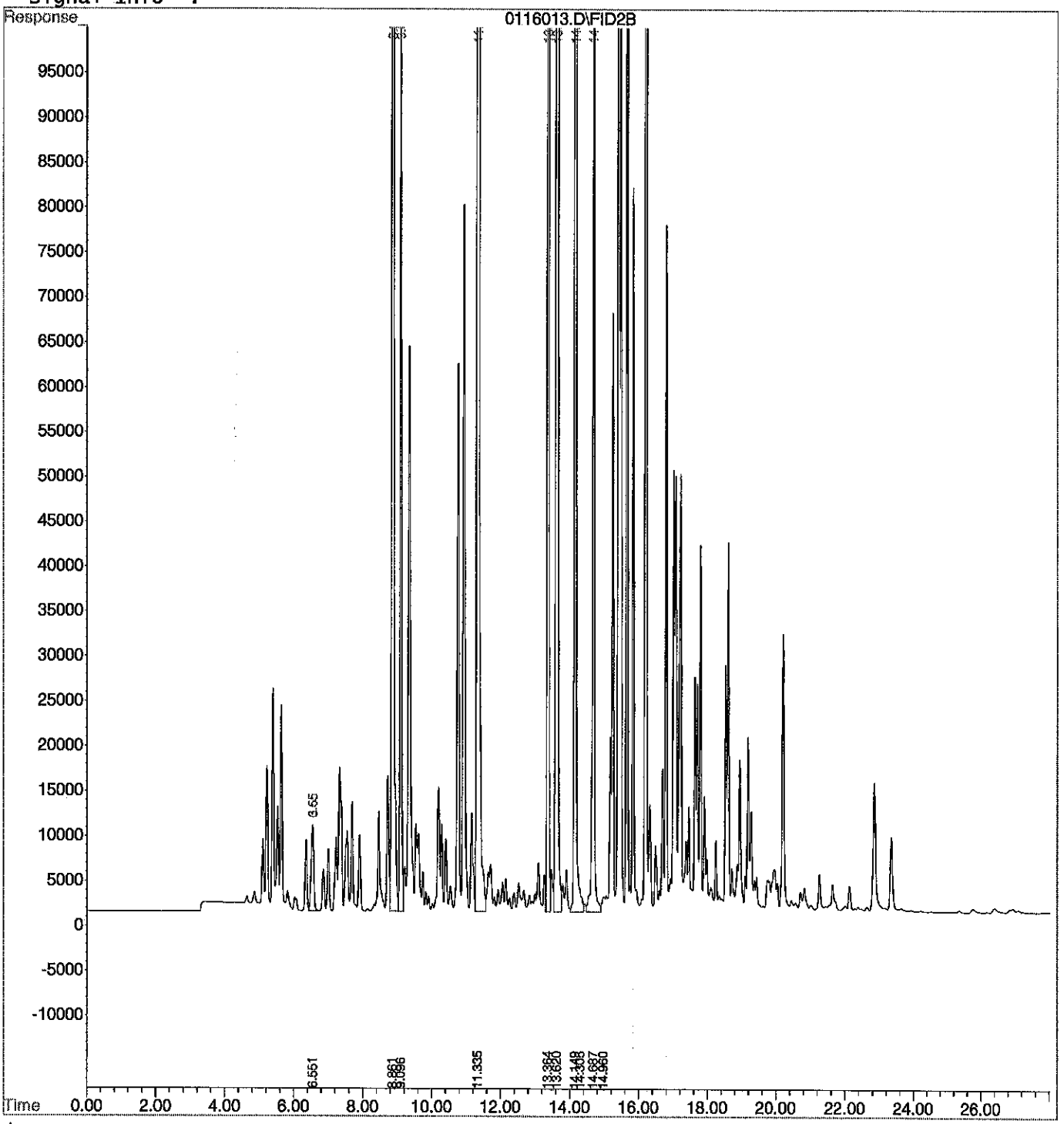
Data File : X:\BTEX\HOPE\DATA\H150116\0116013.D Vial: 13
Acq On : 16 Jan 2015 16:45 Operator:
Sample : CCVH0116G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 17:13 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116002.D Vial: 2
Acq On : 16 Jan 2015 10:22 Operator:
Sample : CCVH0116B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 10:51 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.10	3028786	39.875 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	3549994	44.330 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	35324613	0.983 PPM
3)	H	GASOLINE #2	14.96	23172512	0.839 PPM
4)		MTBE #2	6.66	1795354	40.743 PPB
5)		BENZENE #2	8.87	5230464	49.394 PPB
7)		TOLUENE #2	11.34	4583879	52.258 PPB
8)		ETHYLBENZENE #2	13.37	3503811	49.878 PPB
9)		m,p-XYLENE #2	13.64	4097555	50.917 PPB
10)		o-XYLENE #2	14.16	3335835	49.561 PPB

Quantitation Report (Not Reviewed)

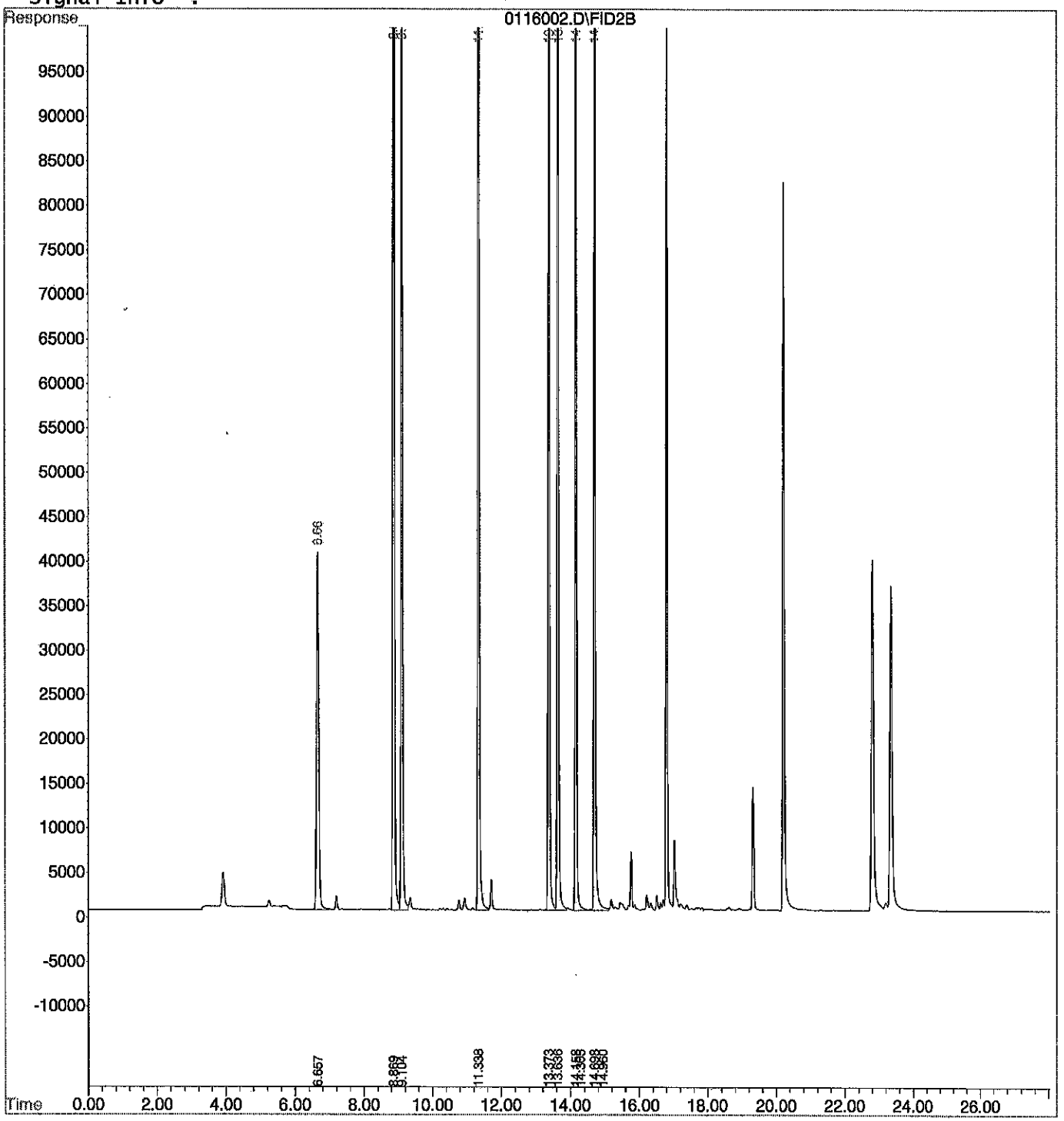
Data File : X:\BTEX\HOPE\DATA\H150116\0116002.D Vial: 2
Acq On : 16 Jan 2015 10:22 Operator:
Sample : CCVH0116B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 10:51 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150116\0116012.D Vial: 12
Acq On : 16 Jan 2015 16:12 Operator:
Sample : CCVH0116B-2 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 16:40 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.10	2826453	37.197	PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3310375	41.311	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	35897290	1.000	PPM
3)	H	GASOLINE #2	14.96	22478135	0.813	PPM
4)		MTBE #2	6.64	2105777	47.787	PPB
5)		BENZENE #2	8.86	5193881	49.049	PPB
7)		TOLUENE #2	11.33	4363228	49.741	PPB
8)		ETHYLBENZENE #2	13.37	3537334	50.355	PPB
9)		m,p-XYLENE #2	13.63	4051432	50.343	PPB
10)		o-XYLENE #2	14.15	3326871	49.428	PPB

Quantitation Report (Not Reviewed)

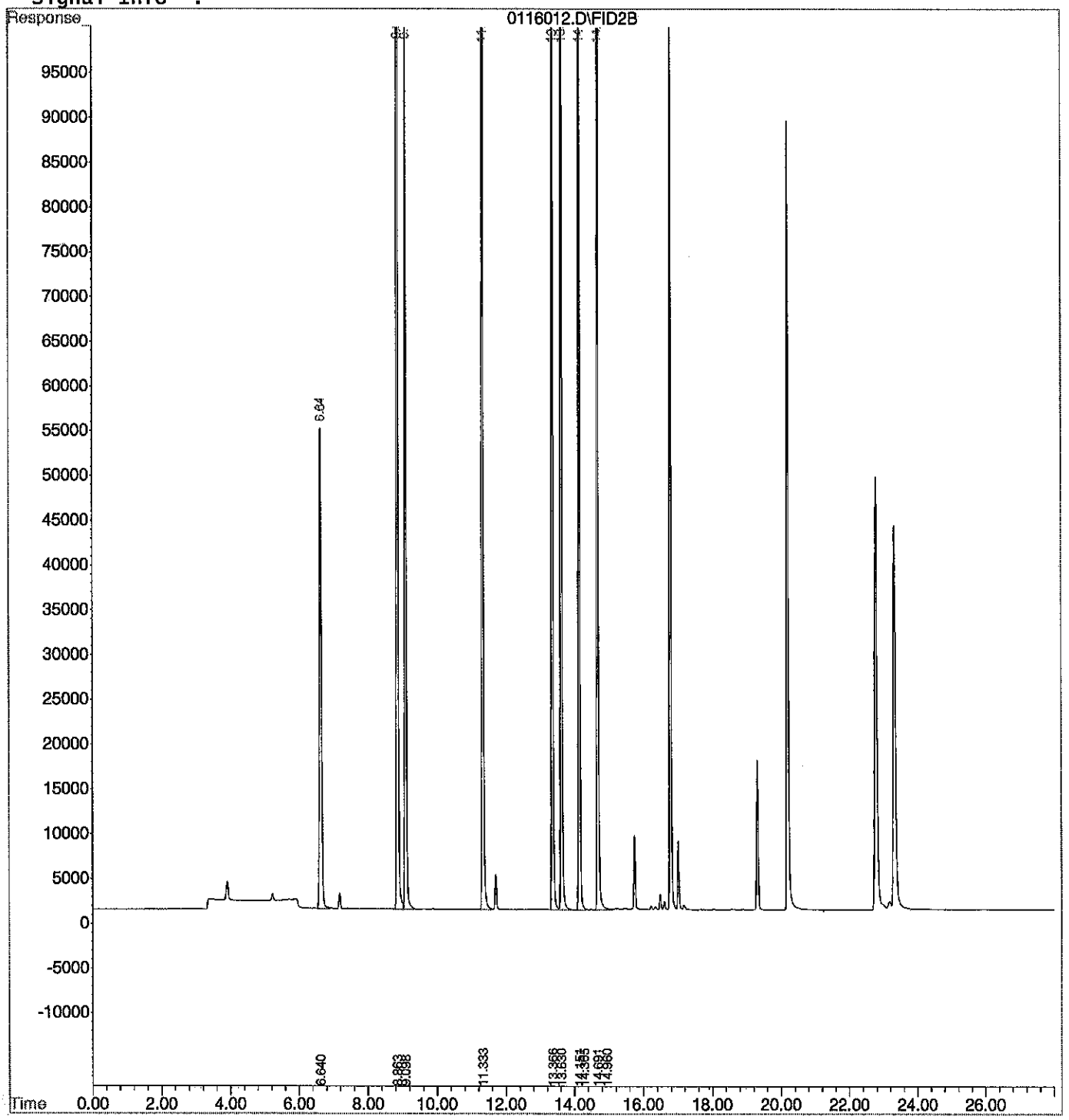
Data File : X:\BTEX\HOPE\DATA\H150116\0116012.D Vial: 12
Acq On : 16 Jan 2015 16:12 Operator:
Sample : CCVH0116B-2 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 16 16:40 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150116\0116017.D\FID2B.CH
Acq On : 16 Jan 2015 21:10 Operator:
Sample : CCVD0116B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 16 21:38 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

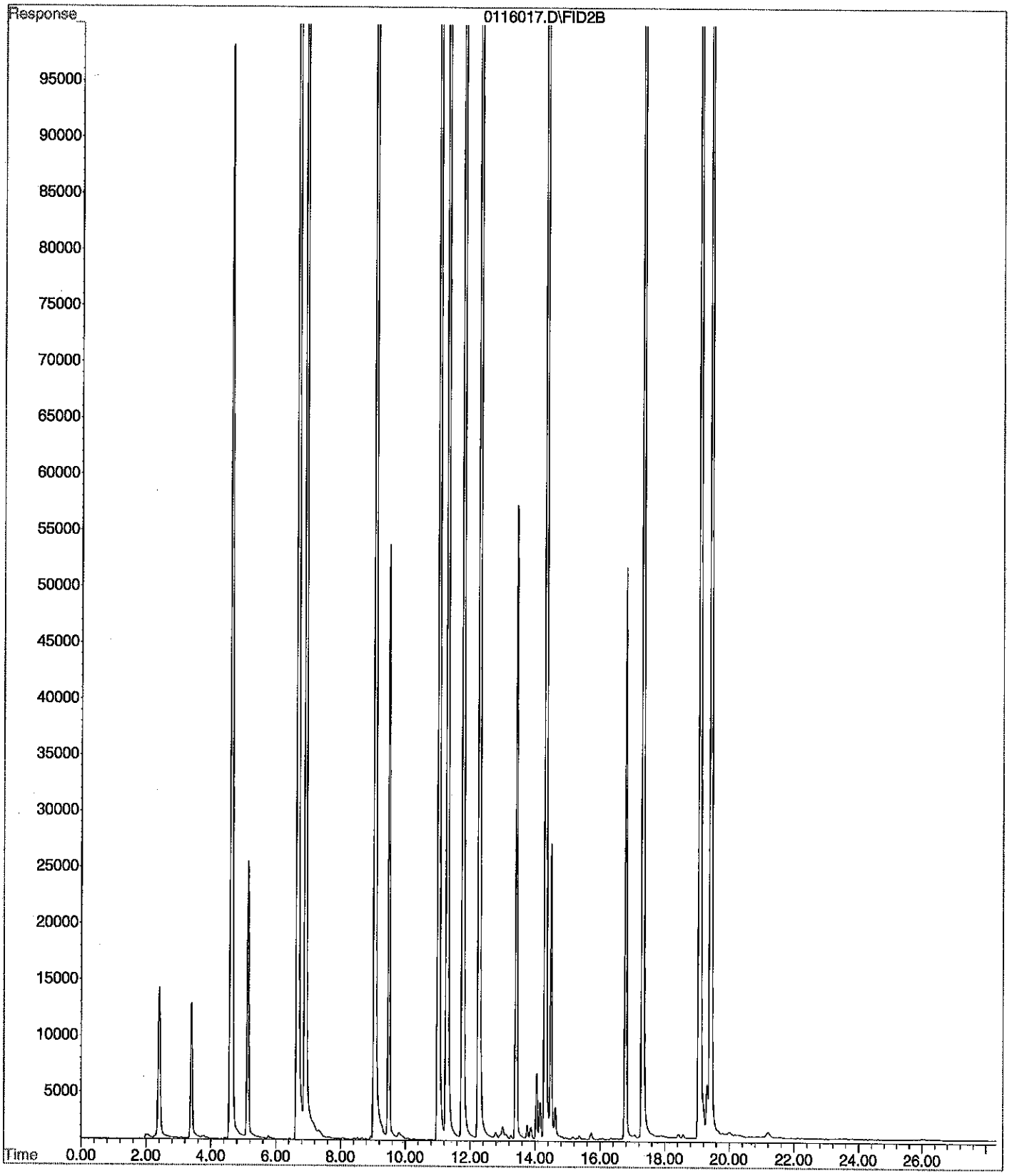
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	0.00	0	N.D.	PPB
11)	S	FLUOROBENZENE #2	6.90	8830742	39.820	PPB
16)	S	BROMOFLUOROBENZENE #2	12.26	11790743	39.368	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	5	N.D.	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	107	N.D.	PPM
3)	H	GASOLINE (9-24-14)	13.51	63	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	120262223	0.789	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	81653032	0.685	PPM
9)		MTBE #2	4.62	4604990	63.016	PPB
10)		BENZENE #2	6.66	14788615	50.349	PPB
12)		TOLUENE #2	9.05	13755426	49.320	PPB
13)		ETHYLBENZENE #2	11.01	11988537	48.701	PPB
14)		m,p-XYLENE #2	11.28	14359315	48.957	PPB
15)		o-XYLENE #2	11.77	12159480	48.331	PPB

1/19 ✓

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150116\0116017.D
Operator :
Acquired : 16 Jan 2015 21:10 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0116B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150116\0116029.D\FID1A.CH Vial: 29
Signal #2 : d:\btex\DATA\D150116\0116029.D\FID2B.CH
Acq On : 17 Jan 2015 3:50 Operator:
Sample : CCVD0116B-3 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

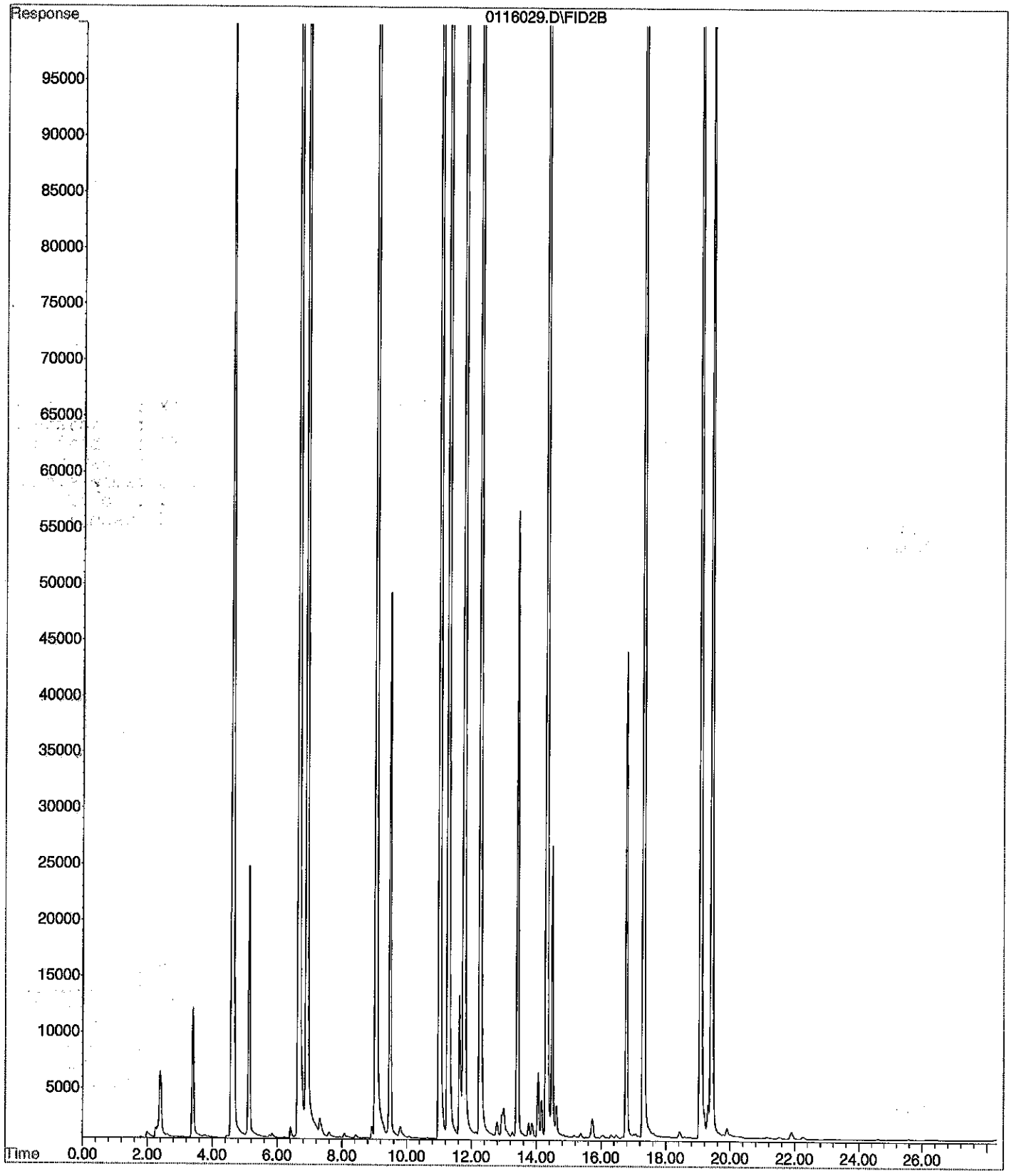
Quant Time: Jan 17 4:19 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	0.00	0	N.D.	PPB
11)	S	FLUOROBENZENE #2	6.90	8883223	40.058	PPB
16)	S	BROMOFLUOROBENZENE #2	12.26	11998178	40.068	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	803	N.D.	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	7727	N.D.	PPM
3)	H	GASOLINE (9-24-14)	13.51	2401	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	114253092	0.747	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	80543645	0.675	PPM
9)		MTBE #2	4.62	4801095	65.702	PPB
10)		BENZENE #2	6.66	14798378	50.382	PPB
12)		TOLUENE #2	9.05	13681979	49.055	PPB
13)		ETHYLBENZENE #2	11.01	11943768	48.519	PPB
14)		m,p-XYLENE #2	11.28	14288451	48.712	PPB
15)		o-XYLENE #2	11.77	12218941	48.569	PPB

File : X:\BTEX\DARYL\DATA\D150116\0116029.D
Operator :
Acquired : 17 Jan 2015 3:50 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0116B-3
Misc Info : V2-36-23,V2-37-04
Vial Number: 29



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0116-V05.D
Sample : 01-087-01

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 14:51
Operator :
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 15:27:26 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.900	133342448	43.254	PPM
Spiked Amount	50.000		Recovery =	86.51%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	8895164	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	11447267	3.422	PPM
5) H	Diesel Fuel #2 (01-...	14.000	10895953	5.287	PPM
6) H	Oil (12-18-14)	22.000	51518803	13.829	PPM
7) H	Oil Acid Clean (12-...	22.000	51518803	14.167	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	9662929	4.782	PPM
9) H	Oil Combo (12-18-14)	22.000	50288709	13.947	PPM
10) H	Oil Acid Clean Combo ...	22.000	50288709	13.795	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	11258643	1.862	PPM
12) H	Alaska 103 Oil (06-2...	22.000	19917317	10.926	PPM
13) H	Mineral Oil (12-18-14)	16.000	9603098	1.062	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	57220566	24.776	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	57220566	31.782	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	59698209	738.124	PPM
17) H	Mineral Oil Combo (1...	16.000	6145466	1.643	PPM
18) H	Oil Acid Clean MO Com...	22.000	49275090	13.654	PPM
19) H	Oil MO Combo (12-18-14)	22.000	49275090	14.076	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

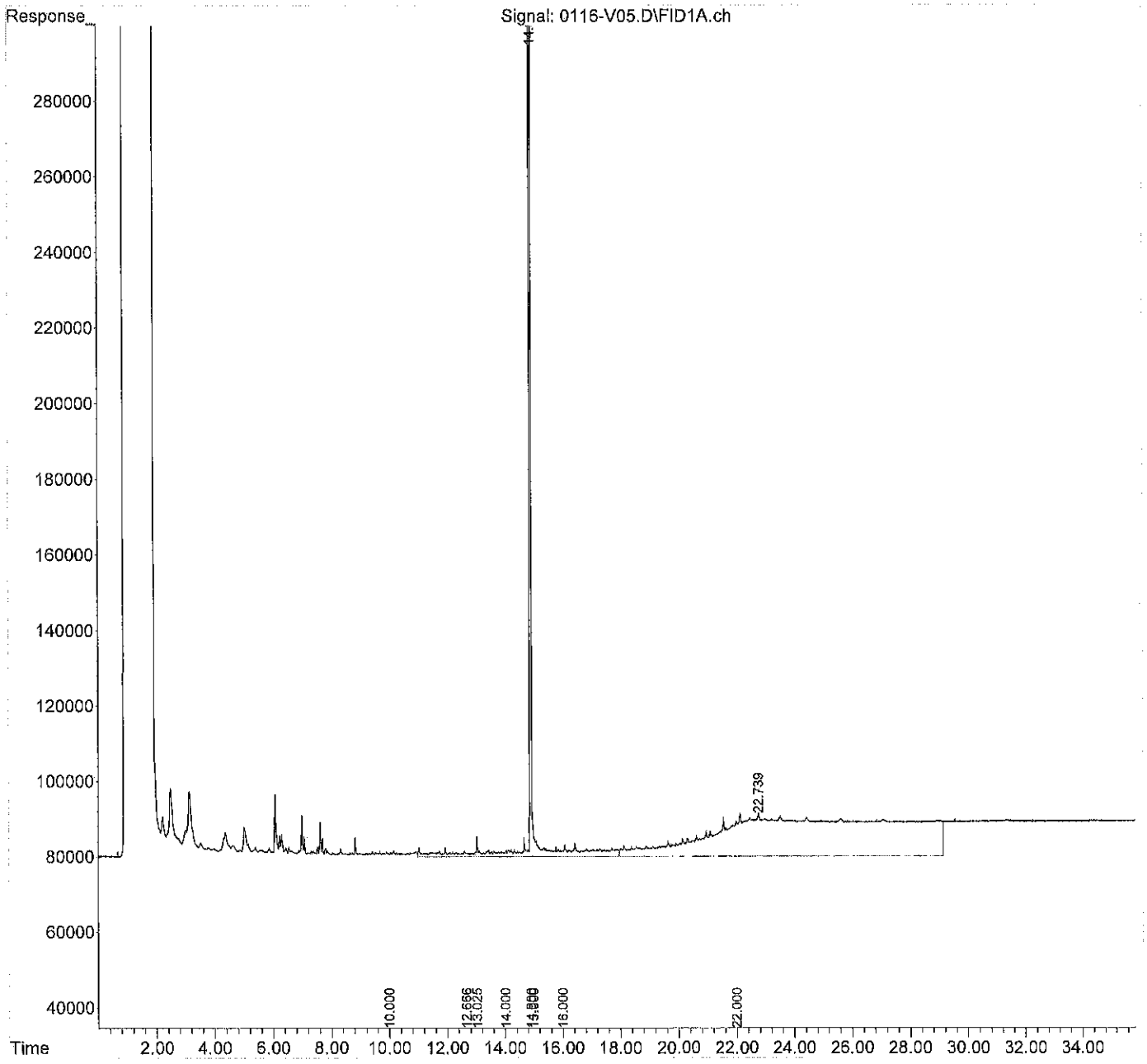
Quantitation Report (Not Reviewed)

Data File : 0116-V05.D
Sample : 01-087-01

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 14:51
Operator :
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 15:27:26 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V06.D
Sample : 01-087-02

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 15:31
Operator :
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 16:07:54 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.898	142541978	46.244	PPM
Spiked Amount	50.000		Recovery =	92.49%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	7145609	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	6512359	1.376	PPM
5) H	Diesel Fuel #2 (01-...	14.000	4394101	2.542	PPM
6) H	Oil (12-18-14)	22.000	40921895	8.644	PPM
7) H	Oil Acid Clean (12-...	22.000	40921895	8.336	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	4136620	2.400	PPM
9) H	Oil Combo (12-18-14)	22.000	40647618	9.144	PPM
10) H	Oil Acid Clean Combo ...	22.000	40647618	8.406	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	4660500	N.D.	PPM
12) H	Alaska 103 Oil (06-2...	22.000	14598310	6.016	PPM
13) H	Mineral Oil (12-18-14)	16.000	3238949	N.D.	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	42313853	13.995	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	42313853	21.353	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	44505682	544.684	PPM
17) H	Mineral Oil Combo (1...	16.000	2013051	0.027	PPM
18) H	Oil Acid Clean MO Com...	22.000	40438031	8.573	PPM
19) H	Oil MO Combo (12-18-14)	22.000	40438031	9.530	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

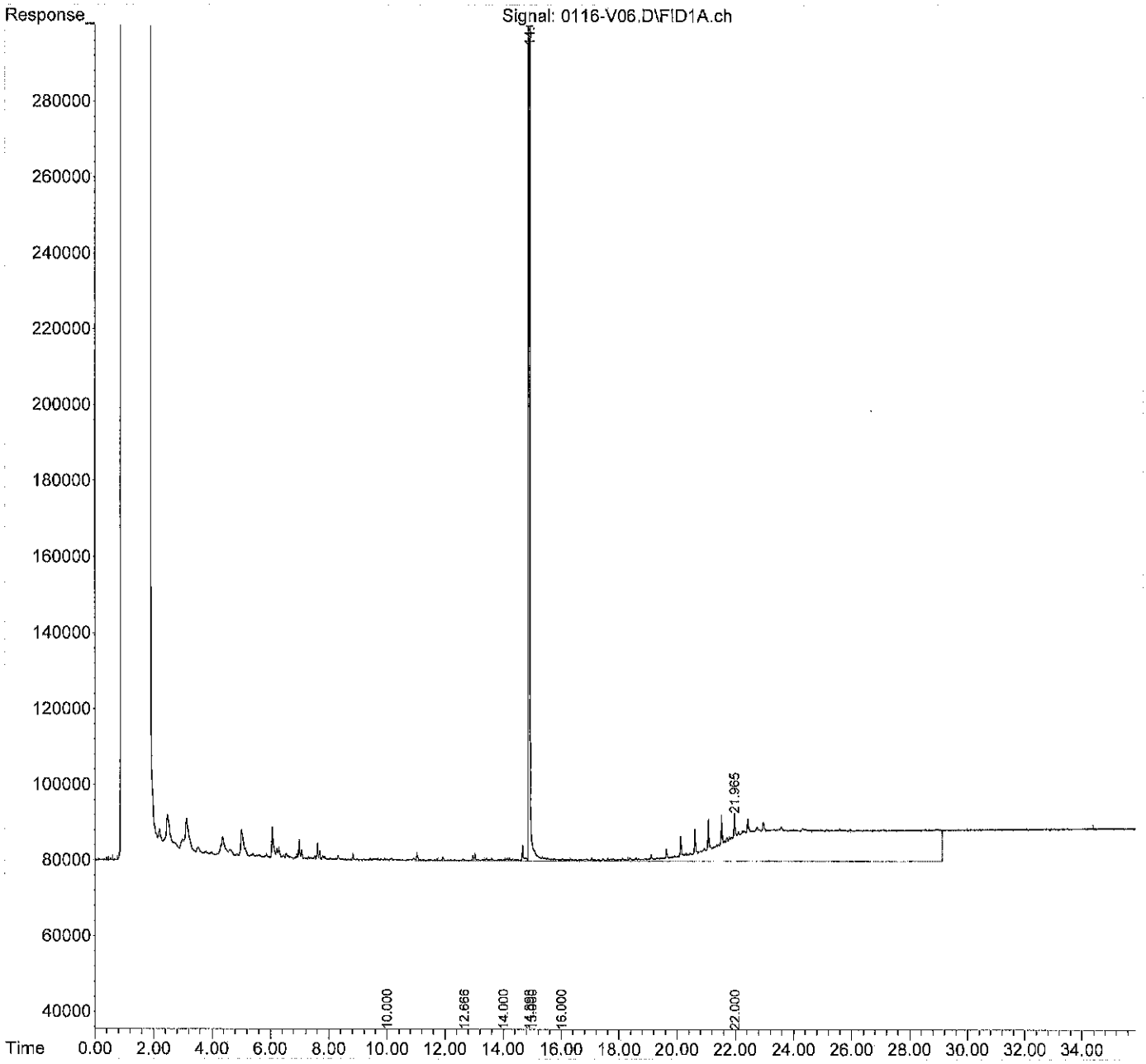
Quantitation Report (Not Reviewed)

Data File : 0116-V06.D
Sample : 01-087-02

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 15:31
Operator :
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 16:07:54 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V08.D
Sample : 01-087-05

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 16:53
Operator :
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 17:29:27 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1) S	O-Terphenyl (12-18-14)	14.896	130058464	42.187	PPM
Spiked Amount	50.000		Recovery =	84.37%	
Target Compounds					
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	7649868	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	9578247	2.647	PPM
5) H	Diesel Fuel #2 (01-...	14.000	11325897	5.469	PPM
6) H	Oil (12-18-14)	22.000	51125242	13.636	PPM
7) H	Oil Acid Clean (12-...	22.000	51125242	13.951	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	9541386	4.730	PPM
9) H	Oil Combo (12-18-14)	22.000	48316119	12.964	PPM
10) H	Oil Acid Clean Combo ...	22.000	48316119	12.692	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	11631814	2.010	PPM
12) H	Alaska 103 Oil (06-2...	22.000	20689240	11.638	PPM
13) H	Mineral Oil (12-18-14)	16.000	12599317	2.205	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	55445350	23.493	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	55445350	30.540	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	57837883	714.438	PPM
17) H	Mineral Oil Combo (1...	16.000	8277082	2.476	PPM
18) H	Oil Acid Clean MO Com...	22.000	46847276	12.258	PPM
19) H	Oil MO Combo (12-18-14)	22.000	46847276	12.827	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

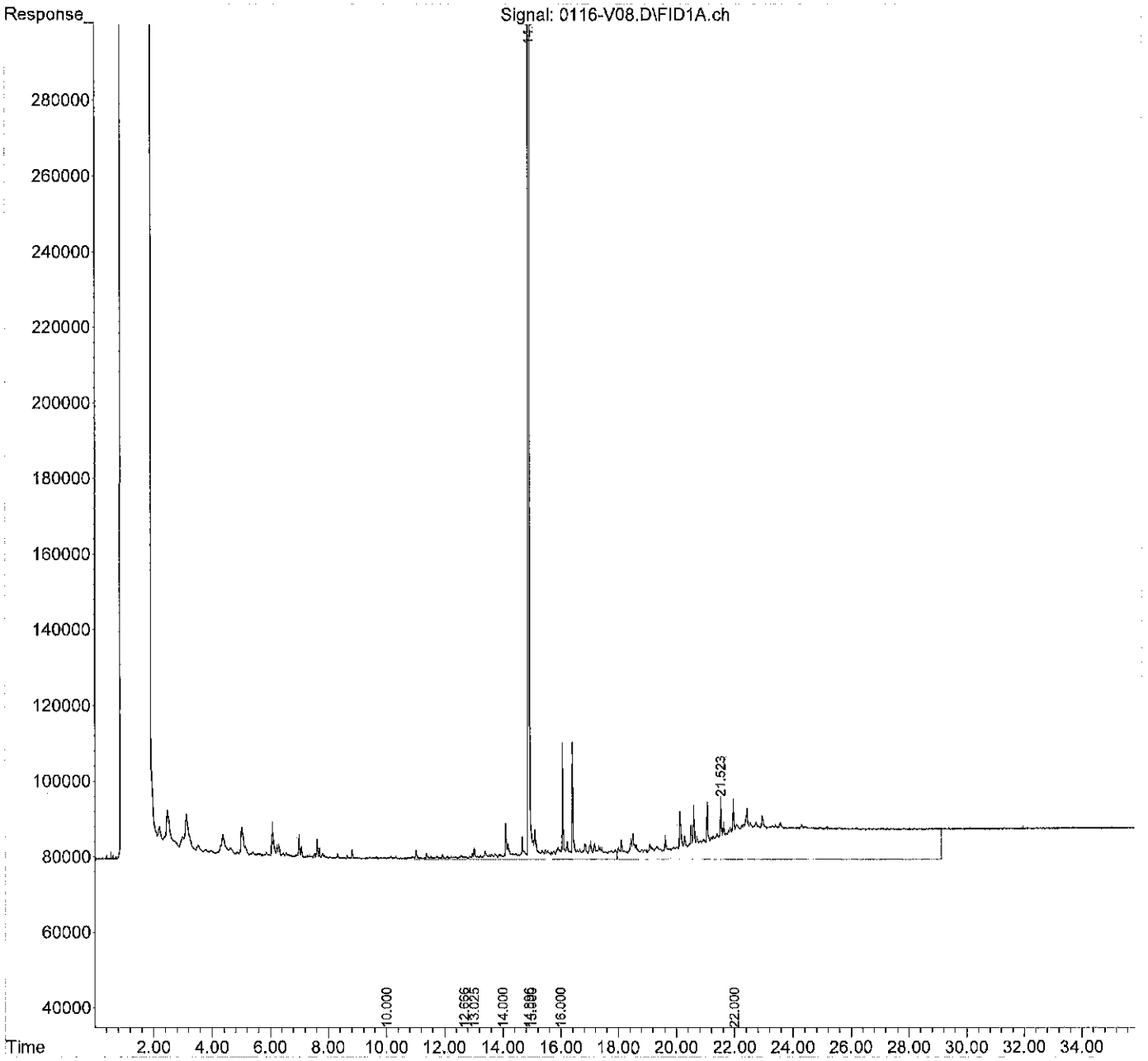
Quantitation Report (Not Reviewed)

Data File : 0116-V08.D
Sample : 01-087-05

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 16:53
Operator :
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 17:29:27 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V56.D
Sample : MB0116S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 15:31
Operator :
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 16:08:09 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.735	144625815	51.224	PPM
Spiked Amount	50.000		Recovery =	102.45%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	15456494	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	13619601	4.232	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	9589339	1.947	PPM
6) H	Oil (01-08-15)	22.000	40737758	5.867	PPM
7) H	Oil Acid Clean (01-0...	22.000	40737758	1.670	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	9004862	1.757	PPM
9) H	Oil Combo (01-08-15)	22.000	40102898	5.796	PPM
10) H	Oil Acid Clean Combo ...	22.000	40102898	1.462	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	10970894	N.D.	PPM
12) H	Alaska 103 Oil (06-2...	22.000	15056090	2.778	PPM
13) H	Mineral Oil (10-06-14)	16.000	6213151	1.304	PPM
14) H	Bunker C ACU (Fuel O...	15.000	46489124	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	46489124	20.552	PPM
16) H	ALKANE C9-C40	12.666	51685127	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	4337913	1.232	PPM
18) H	Oil Acid Clean MO Com...	22.000	39612041	1.325	PPM
19) H	Oil MO Combo (01-08-15)	22.000	39612041	5.844	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

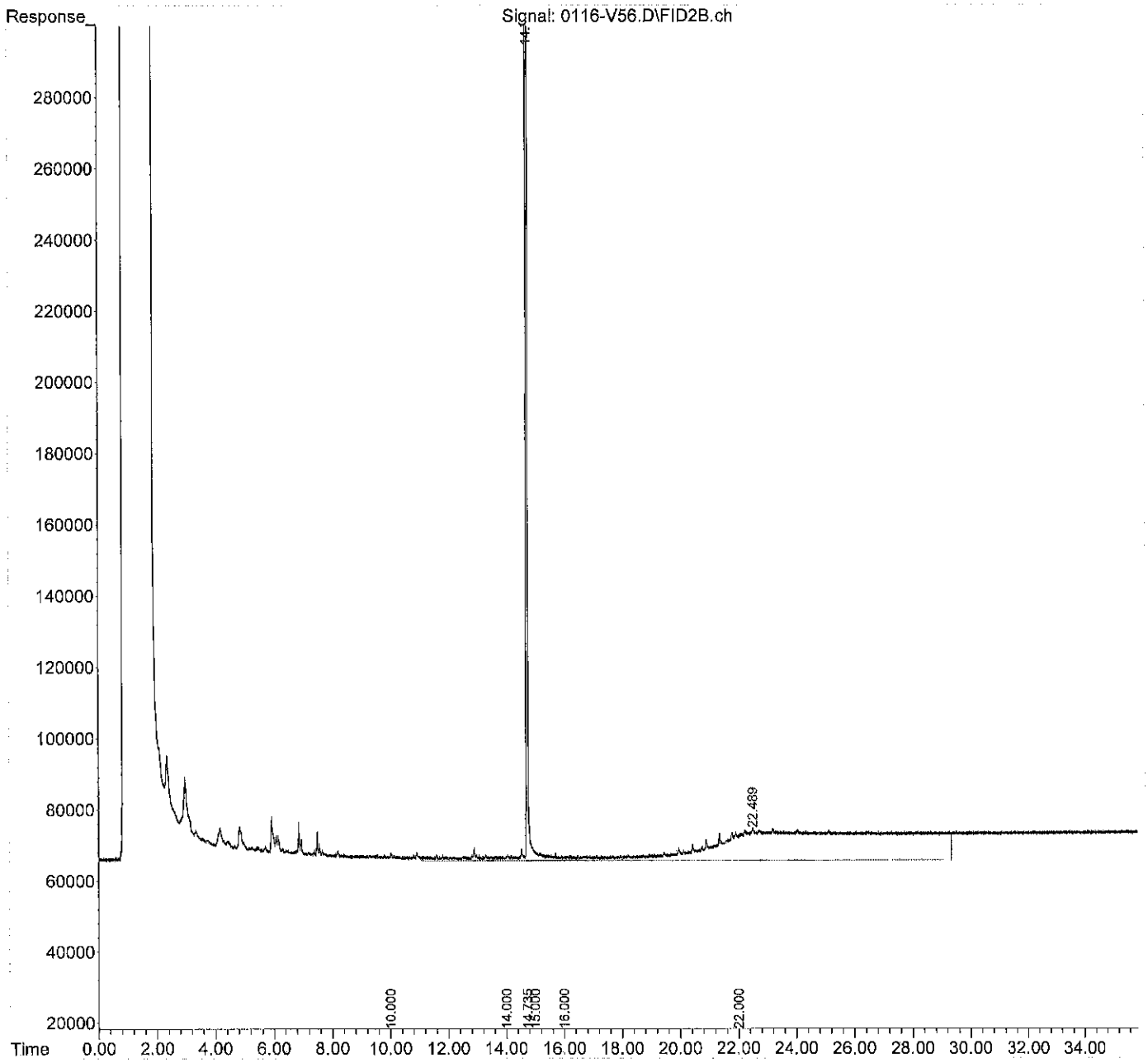
Quantitation Report (Not Reviewed)

Data File : 0116-V56.D
Sample : MB0116S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 15:31
Operator :
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 16:08:09 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V57.D
Sample : 01-087-04

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 16:12
Operator :
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 16:49:22 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1) S	O-Terphenyl (09-28-14)	14.735	139538895	49.417	PPM
Spiked Amount	50.000		Recovery =	98.83%	
Target Compounds					
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	15109655	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	12197314	3.590	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	8136638	1.243	PPM
6) H	Oil (01-08-15)	22.000	40978943	5.999	PPM
7) H	Oil Acid Clean (01-0...	22.000	40978943	1.813	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	7611809	1.070	PPM
9) H	Oil Combo (01-08-15)	22.000	40406817	5.966	PPM
10) H	Oil Acid Clean Combo ...	22.000	40406817	1.647	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	9254182	N.D.	PPM
12) H	Alaska 103 Oil (06-2...	22.000	15566720	3.226	PPM
13) H	Mineral Oil (10-06-14)	16.000	5570995	1.034	PPM
14) H	Bunker C ACU (Fuel O...	15.000	45157478	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	45157478	19.532	PPM
16) H	ALKANE C9-C40	12.666	50518456	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	3650799	0.932	PPM
18) H	Oil Acid Clean MO Com...	22.000	39963668	1.546	PPM
19) H	Oil MO Combo (01-08-15)	22.000	39963668	6.049	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

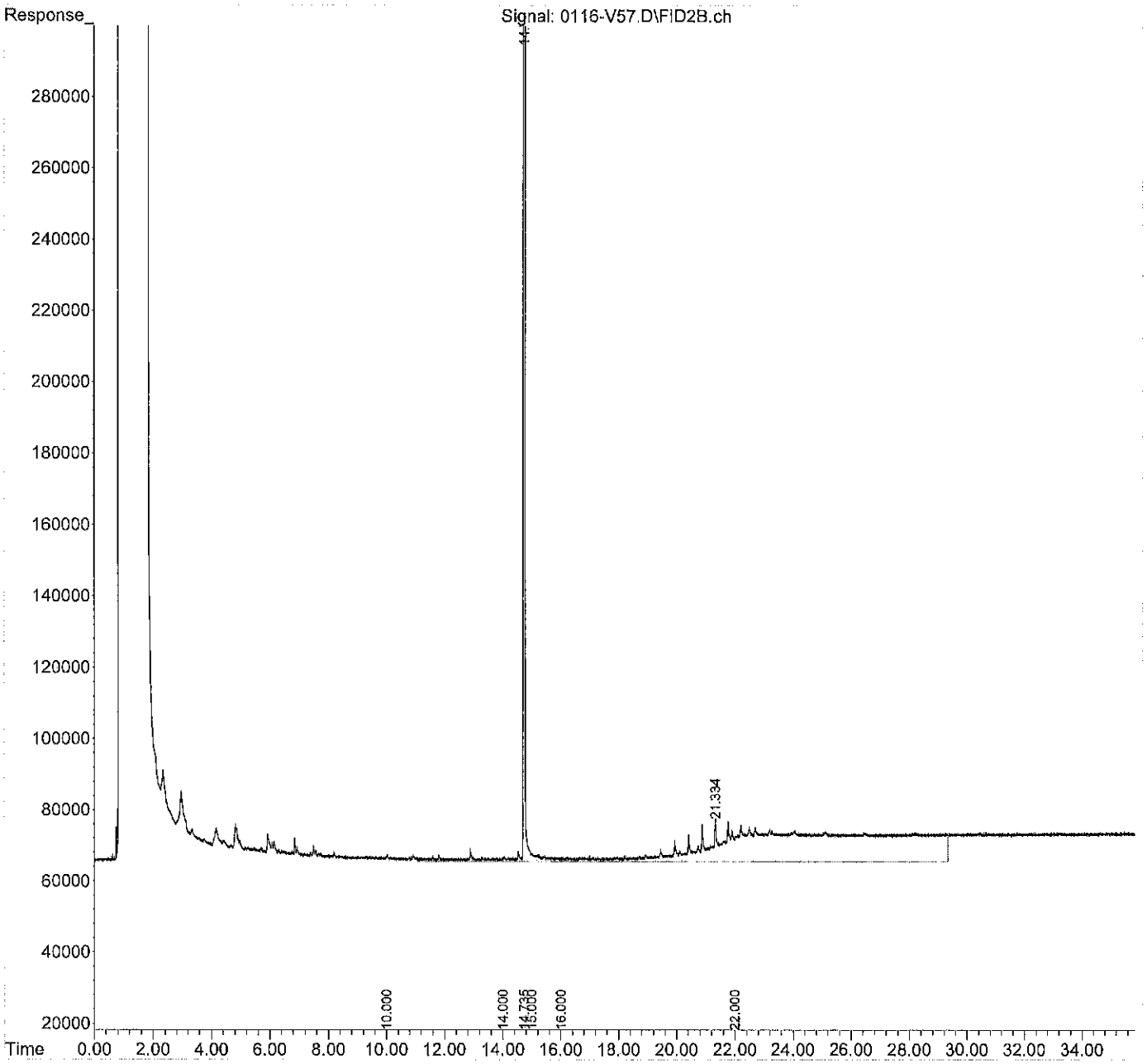
Quantitation Report (Not Reviewed)

Data File : 0116-V57.D
Sample : 01-087-04

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 16:12
Operator :
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 16:49:22 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V58.D
Sample : 01-087-04 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 16:53
Operator :
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 17:29:42 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.733	127123542	45.008	PPM
Spiked Amount	50.000		Recovery =	90.02%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	16648489	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	12824699	3.873	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	7984983	1.170	PPM
6) H	Oil (01-08-15)	22.000	38907140	4.865	PPM
7) H	Oil Acid Clean (01-0...	22.000	38907140	0.581	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	7582052	1.055	PPM
9) H	Oil Combo (01-08-15)	22.000	38525248	4.912	PPM
10) H	Oil Acid Clean Combo ...	22.000	38525248	0.504	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	9323604	N.D.	PPM
12) H	Alaska 103 Oil (06-2...	22.000	14449771	2.246	PPM
13) H	Mineral Oil (10-06-14)	16.000	4664627	0.653	PPM
14) H	Bunker C ACU (Fuel O...	15.000	43521464	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	43521464	18.280	PPM
16) H	ALKANE C9-C40	12.666	49290514	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	2976869	0.637	PPM
18) H	Oil Acid Clean MO Com...	22.000	38190142	0.432	PPM
19) H	Oil MO Combo (01-08-15)	22.000	38190142	5.017	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

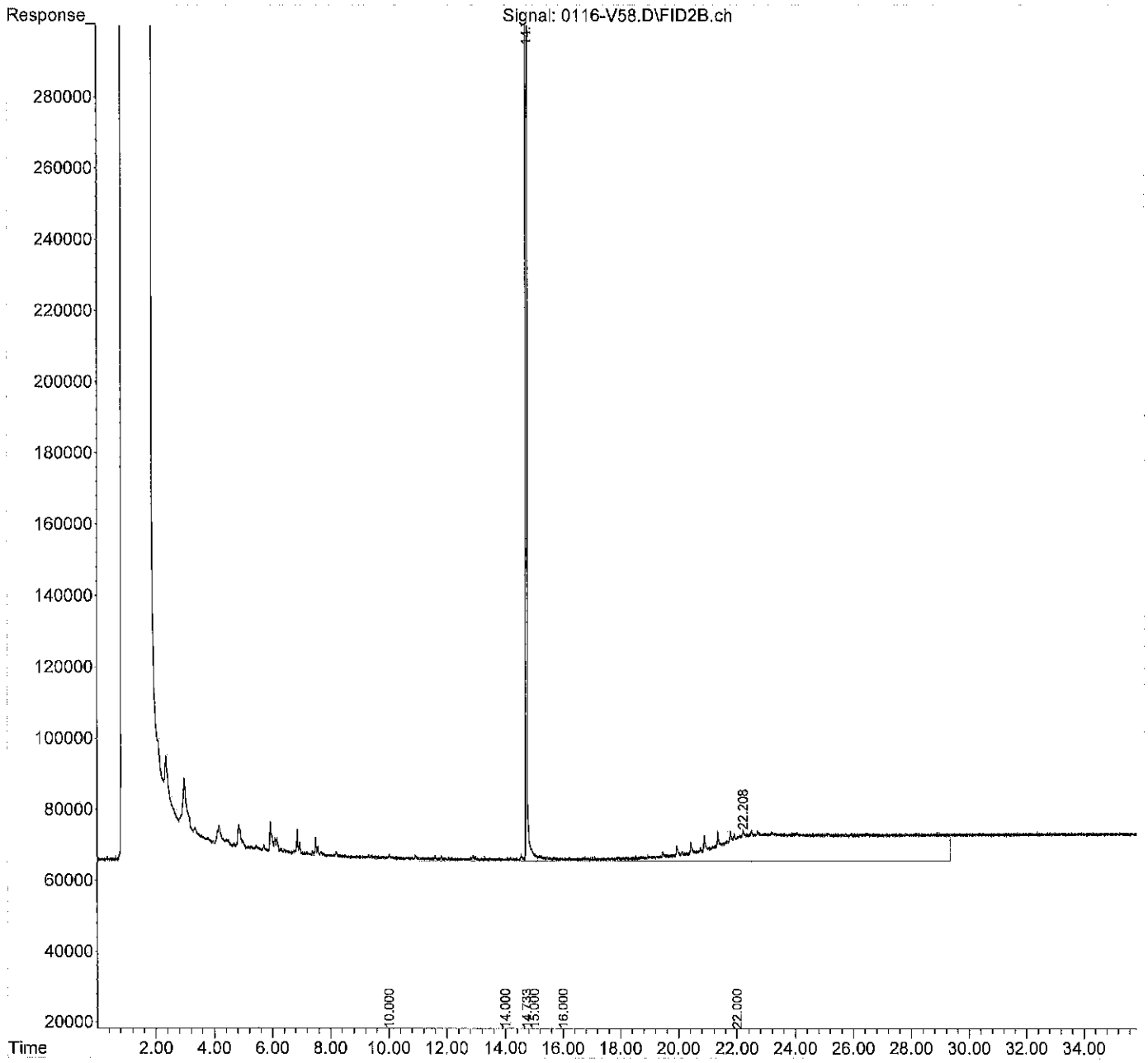
Quantitation Report (Not Reviewed)

Data File : 0116-V58.D
Sample : 01-087-04 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 16:53
Operator :
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 17:29:42 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V01.D
Sample : CCV0116F-V1

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 9:36
Operator :
Misc : SV3-11-24
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 10:12:15 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	24508181	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	216116862	88.280	PPM
5) H	Diesel Fuel #2 (01-...	14.000	219916899	93.550	PPM
6) H	Oil (12-18-14)	22.000	65314778	20.579	PPM
7) H	Oil Acid Clean (12-...	22.000	65314778	21.758	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	215279014	93.438	PPM
9) H	Oil Combo (12-18-14)	22.000	53100466	15.348	PPM
10) H	Oil Acid Clean Combo ...	22.000	53100466	15.367	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	222756004	85.613	PPM
12) H	Alaska 103 Oil (06-2...	22.000	17188231	8.407	PPM
13) H	Mineral Oil (12-18-14)	16.000	145104076	52.745	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	266412244	176.073	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	266412244	178.143	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	278281121	3521.254	PPM
17) H	Mineral Oil Combo (1...	16.000	142059691	54.771	PPM
18) H	Oil Acid Clean MO Com...	22.000	48951713	13.468	PPM
19) H	Oil MO Combo (12-18-14)	22.000	48951713	13.910	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

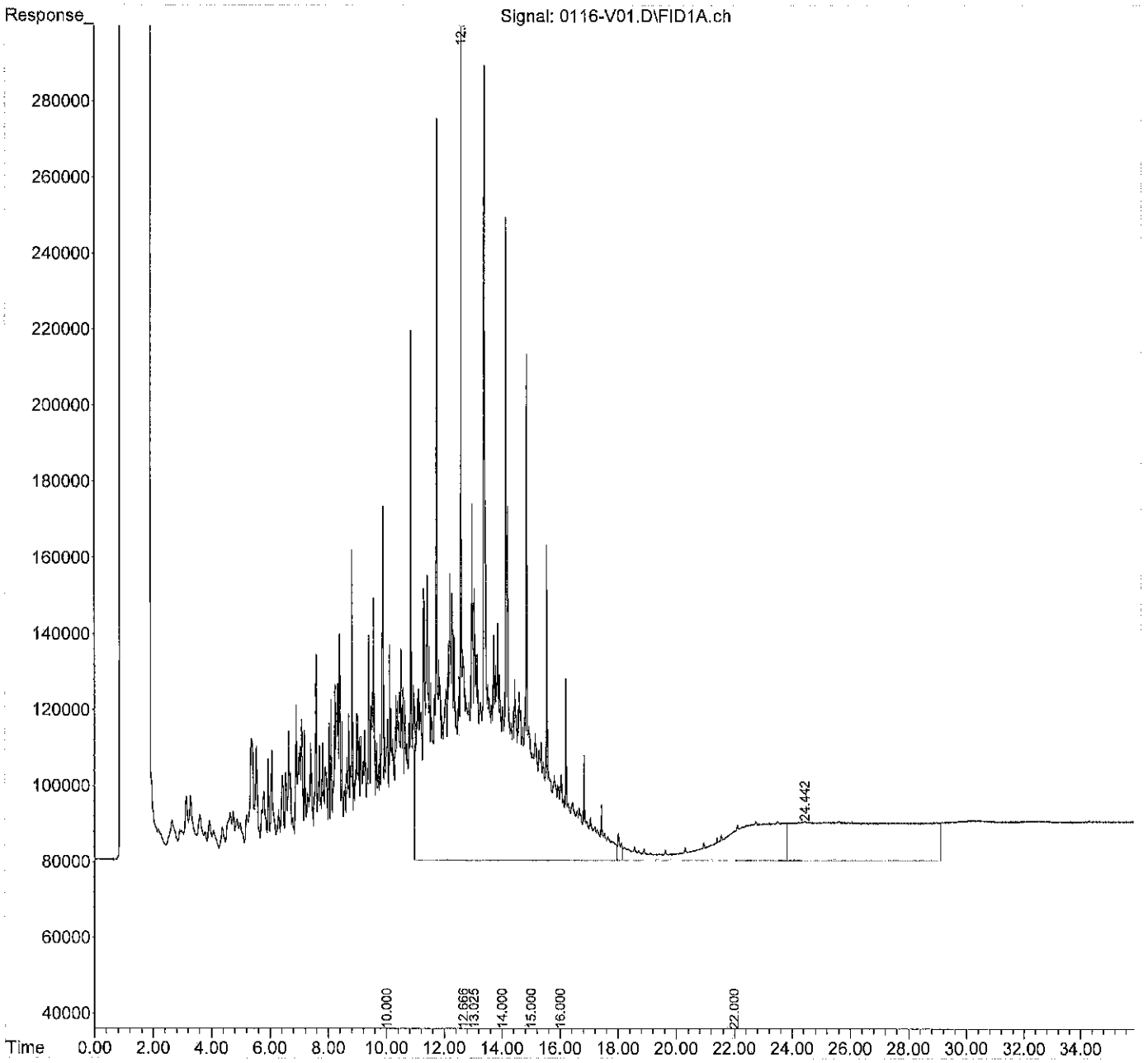
Quantitation Report (Not Reviewed)

Data File : 0116-V01.D
Sample : CCV0116F-V1

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 9:36
Operator :
Misc : SV3-11-24
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 10:12:15 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V09.D
Sample : CCV0116F-V2

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 17:34
Operator :
Misc : SV3-11-24
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 18:10:11 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
Target Compounds					
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	26776002	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	221794299	90.634	PPM
5) H	Diesel Fuel #2 (01-...	14.000	224880466	95.646	PPM
6) H	Oil (12-18-14)	22.000	55648166	15.849	PPM
7) H	Oil Acid Clean (12-...	22.000	55648166	16.439	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	220151030	95.538	PPM
9) H	Oil Combo (12-18-14)	22.000	43178712	10.405	PPM
10) H	Oil Acid Clean Combo ...	22.000	43178712	9.821	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	227914251	87.656	PPM
12) H	Alaska 103 Oil (06-2...	22.000	13963987	5.431	PPM
13) H	Mineral Oil (12-18-14)	16.000	147611156	53.701	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	262038086	172.909	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	262038086	175.083	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	275048814	3480.099	PPM
17) H	Mineral Oil Combo (1...	16.000	144706538	55.806	PPM
18) H	Oil Acid Clean MO Com...	22.000	38952104	7.718	PPM
19) H	Oil MO Combo (12-18-14)	22.000	38952104	8.766	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

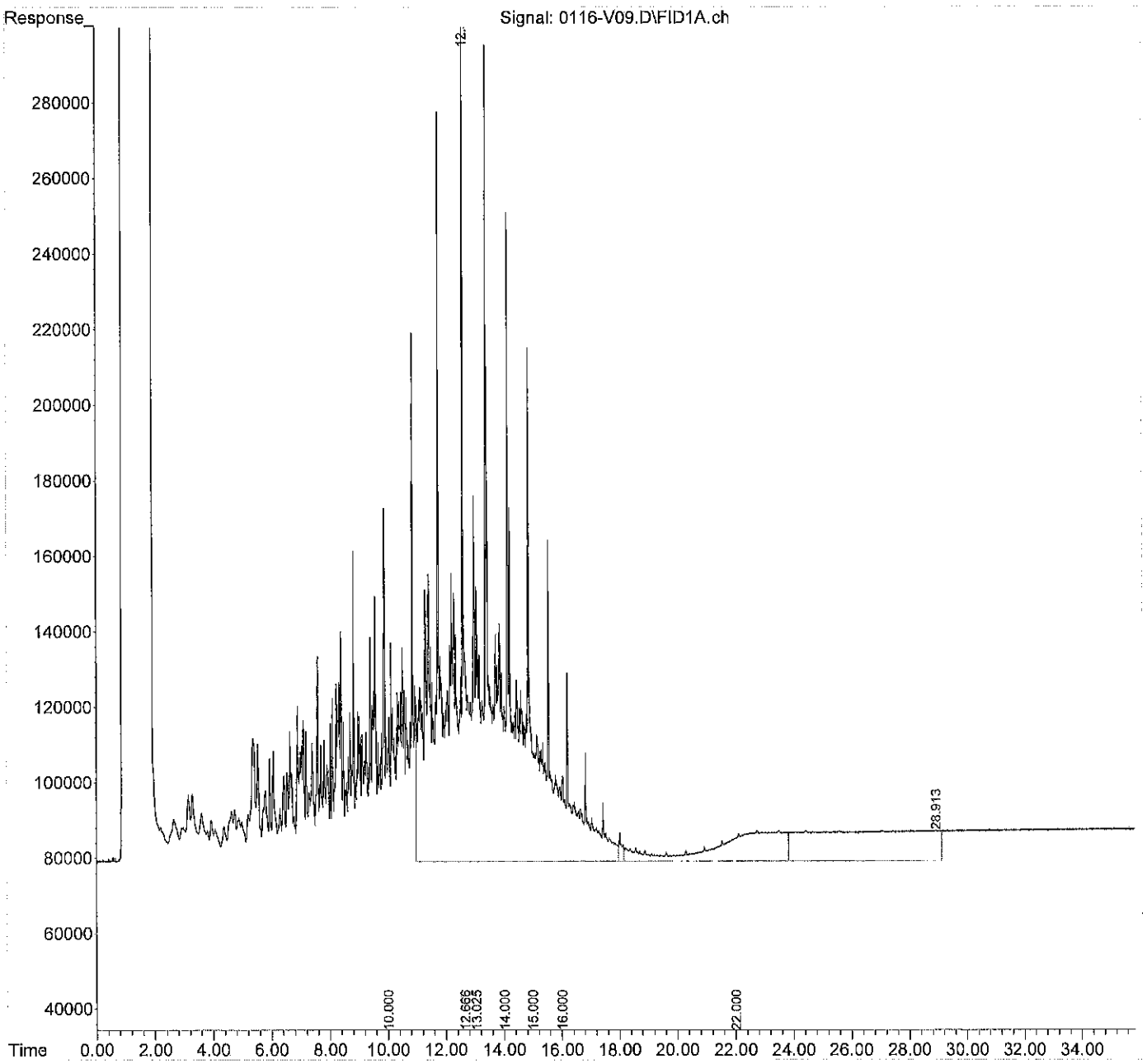
Quantitation Report (Not Reviewed)

Data File : 0116-V09.D
Sample : CCV0116F-V2

Data Path : X:\DIESELS\VIGO\DATA\V150116\
Signal(s) : FID1A.ch
Acq On : 16 Jan 2015 17:34
Operator :
Misc : SV3-11-24
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 18:10:11 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V51.D
Sample : CCV0116R-V1

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 9:36
Operator :
Misc : SV3-11-24
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 10:12:30 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	33639215	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	217637675	96.320	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	216905919	102.359	PPM
6) H	Oil (01-08-15)	22.000	66027377	19.705	PPM
7) H	Oil Acid Clean (01-0...	22.000	66027377	16.714	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	212555366	102.194	PPM
9) H	Oil Combo (01-08-15)	22.000	55082703	14.184	PPM
10) H	Oil Acid Clean Combo ...	22.000	55082703	10.557	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	220760533	79.904	PPM
12) H	Alaska 103 Oil (06-2...	22.000	19720553	6.870	PPM
13) H	Mineral Oil (10-06-14)	16.000	139932009	57.477	PPM
14) H	Bunker C ACU (Fuel O...	15.000	265480293	156.061	PPM
15) H	Bunker C (Fuel Oil #...	15.000	265480293	188.148	PPM
16) H	ALKANE C9-C40	12.666	280552451	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	135753877	58.728	PPM
18) H	Oil Acid Clean MO Com...	22.000	51165496	8.577	PPM
19) H	Oil MO Combo (01-08-15)	22.000	51165496	12.564	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

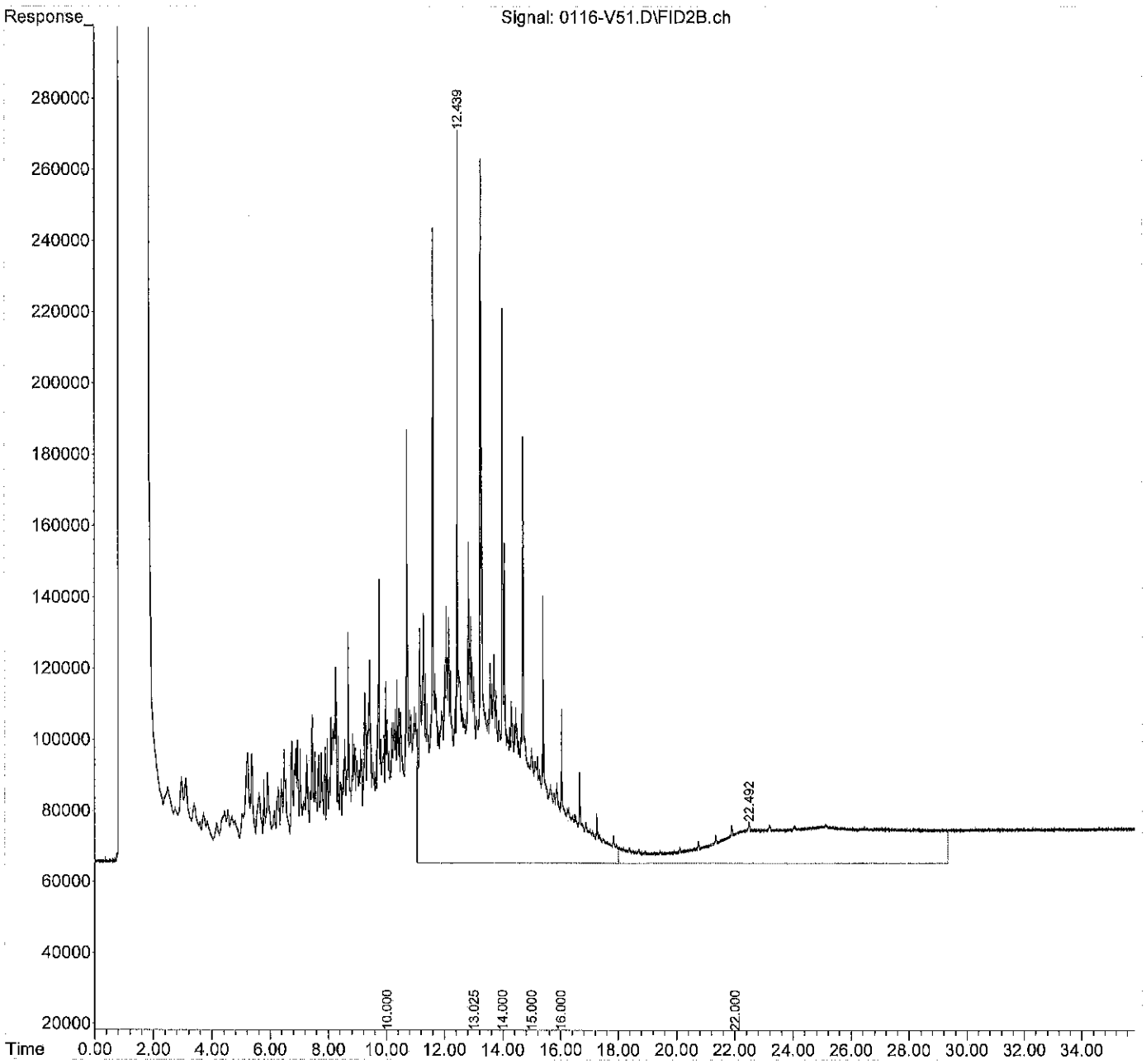
Quantitation Report (Not Reviewed)

Data File : 0116-V51.D
Sample : CCV0116R-V1

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 9:36
Operator :
Misc : SV3-11-24
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 10:12:30 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0116-V59.D
Sample : CCV0116R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 17:34
Operator :
Misc : SV3-11-24
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 18:10:25 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	33739052	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	217359604	96.195	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	215758518	101.803	PPM
6) H	Oil (01-08-15)	22.000	52820129	12.478	PPM
7) H	Oil Acid Clean (01-0...	22.000	52820129	8.857	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	211881290	101.862	PPM
9) H	Oil Combo (01-08-15)	22.000	42205026	6.973	PPM
10) H	Oil Acid Clean Combo ...	22.000	42205026	2.739	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	219585813	79.451	PPM
12) H	Alaska 103 Oil (06-2...	22.000	14565758	2.348	PPM
13) H	Mineral Oil (10-06-14)	16.000	137827838	56.594	PPM
14) H	Bunker C ACU (Fuel O...	15.000	252820004	146.449	PPM
15) H	Bunker C (Fuel Oil #...	15.000	252820004	178.459	PPM
16) H	ALKANE C9-C40	12.666	268022785	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	134976599	58.388	PPM
18) H	Oil Acid Clean MO Com...	22.000	38672179	0.735	PPM
19) H	Oil MO Combo (01-08-15)	22.000	38672179	5.298	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

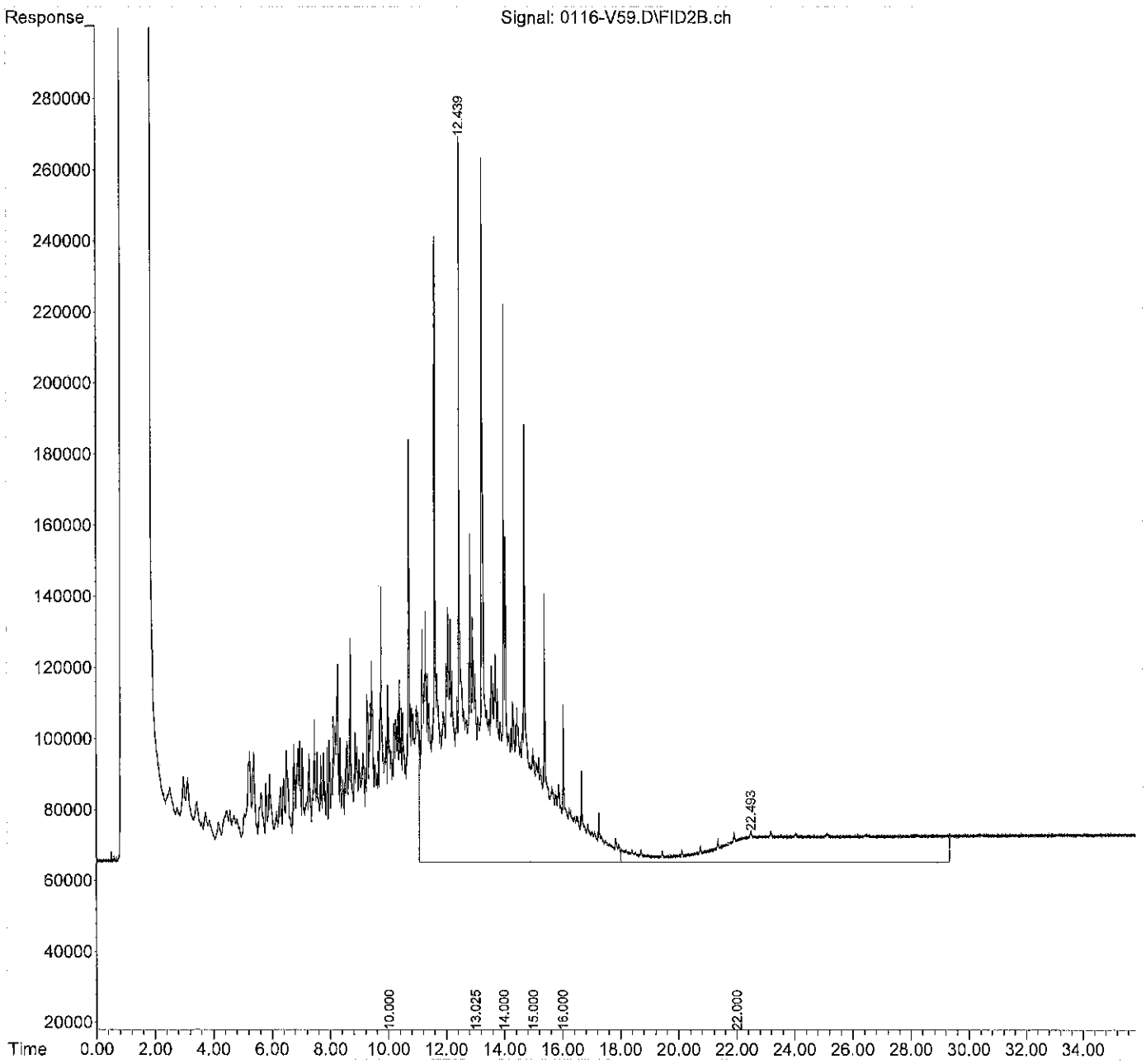
Quantitation Report (Not Reviewed)

Data File : 0116-V59.D
Sample : CCV0116R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150116.SEC\
Signal(s) : FID2B.ch
Acq On : 16 Jan 2015 17:34
Operator :
Misc : SV3-11-24
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 16 18:10:25 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116012.D
Acq On : 16 Jan 2015 6:04 pm
Operator :
Sample : 01-087-01
Misc : SV4-50-10
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 16 18:19:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.122	136	188037	2000.00	ppb	0.00
6) Acenaphthene-d10	5.369	164	93940	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	167115	2000.00	ppb	0.00
17) Chrysene-d12	8.484	240	168719	2000.00	ppb	0.00
21) Perylene-d12	9.941	264	159303	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.623	82	16841	737.16	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 73.72%			
7) 2-Fluorobiphenyl	4.909	172	55607	830.53	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 83.05%			
11) Pyrene-d10	7.374	212	54526	771.08	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 77.11%			
18) Terphenyl-d14	7.542	244	37330	652.26	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 65.23%			
Target Compounds						Qvalue
3) Naphthalene	4.133	128	7307	61.97	ppb	100
4) 2-Methylnaphthalene	4.647	142	466	6.14	ppb	100
5) 1-Methylnaphthalene	4.710	142	661	9.51	ppb	100
8) Acenaphthylene	5.261	152	3419	30.20	ppb	100
9) Acenaphthene	5.392	153	850	11.44	ppb	100
12) Fluorene	5.746	166	1299	16.61	ppb	100
13) Phenanthrene	6.379	178	17445	155.04	ppb	100
14) Anthracene	6.418	178	5241	78.96	ppb	100
15) Fluoranthene	7.217	202	30202	292.96	ppb	100
16) Pyrene	7.385	202	34398	312.65	ppb	100
19) Benzo[a]anthracene	8.468	228	11230	133.44	ppb	100
20) Chrysene	8.507	228	13835	148.36	ppb	100
22) Benzo[b]fluoranthene	9.570	252	14125	~~154.18~~	ppb	100
23) Benzo(j,k)fluoranthene	9.570	252	14125	~~159.92~~	ppb	100
24) Benzo[a]pyrene	9.886	252	10184	123.61	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.984	276	5442	54.40	ppb	100
26) Dibenz[a,h]anthracene	10.980	278	107	~~1.30~~	ppb	100
27) Benzo[g,h,i]perylene	11.238	276	6558	76.26	ppb	100

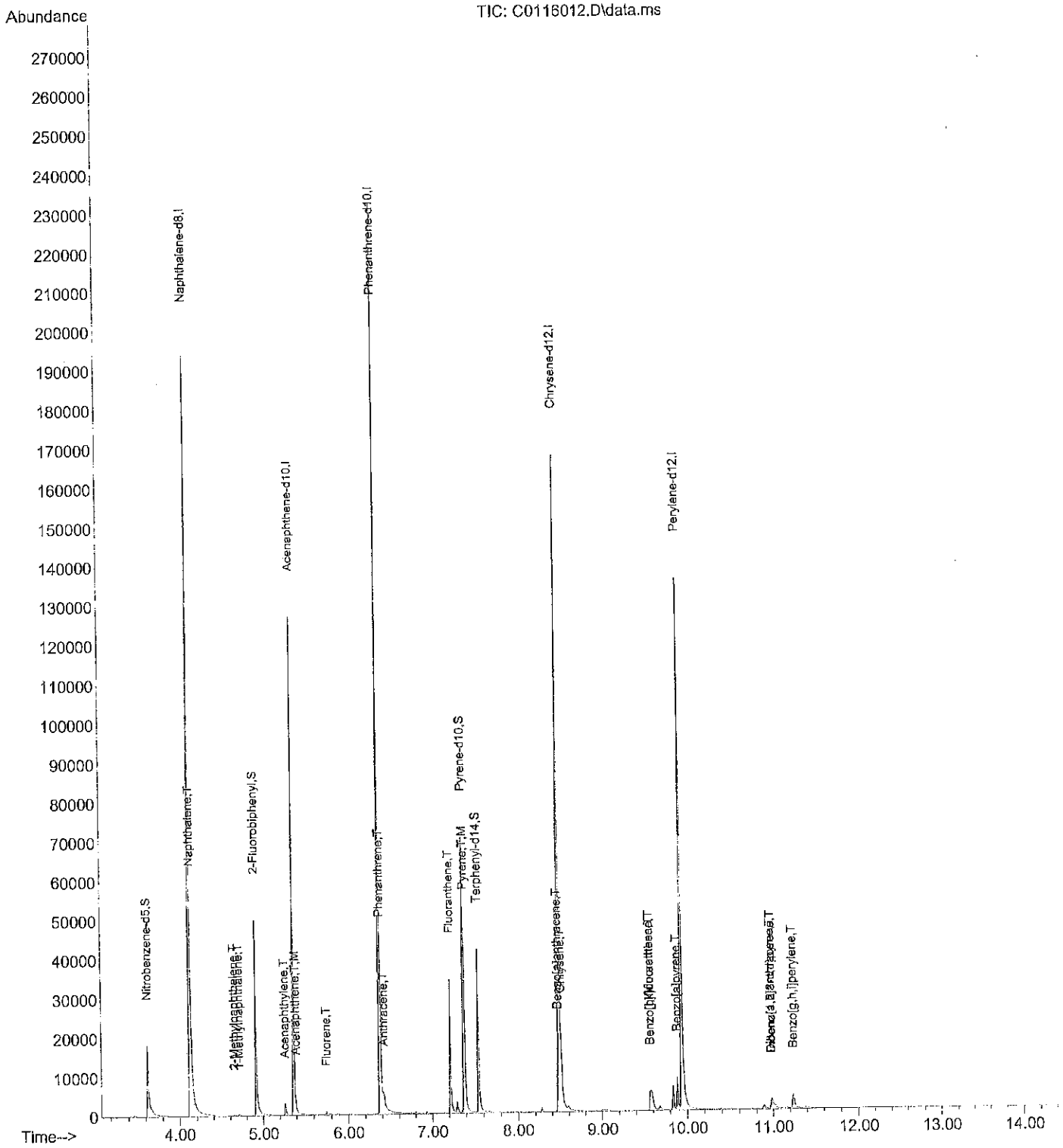
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/19/15
SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116012.D
Acq On : 16 Jan 2015 6:04 pm
Operator :
Sample : 01-087-01
Misc : SV4-50-10
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 16 18:19:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116006.D
Acq On : 16 Jan 2015 3:53 pm
Operator :
Sample : 01-087-02
Misc : SV4-50-10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 16 16:08:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.123	136	190077	2000.00	ppb	0.00
6) Acenaphthene-d10	5.369	164	96046	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	171358	2000.00	ppb	0.00
17) Chrysene-d12	8.488	240	171786	2000.00	ppb	0.00
21) Perylene-d12	9.945	264	160175	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.624	82	18999	822.69	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 82.27%			
7) 2-Fluorobiphenyl	4.909	172	58131	849.19	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 84.92%			
11) Pyrene-d10	7.374	212	56776	783.01	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 78.30%			
18) Terphenyl-d14	7.542	244	37818	648.99	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 64.90%			
Target Compounds						Qvalue
3) Naphthalene	4.135	128	189	1.59	ppb	100
4) 2-Methylnaphthalene	4.643	142	95	1.24	ppb	100
5) 1-Methylnaphthalene	4.714	142	84	1.20	ppb	100
8) Acenaphthylene	5.261	152	57	0.49	ppb	100
9) Acenaphthene	5.384	153	61	0.80	ppb	100
12) Fluorene	5.754	166	64	0.80	ppb	100
13) Phenanthrene	6.383	178	381	3.30	ppb	100
14) Anthracene	6.406	178	414	6.08	ppb	100
15) Fluoranthene	7.223	202	49	0.46	ppb	100
16) Pyrene	7.374	202	152	1.35	ppb	100
19) Benzo[a]anthracene	8.484	228	518	6.05	ppb	100
20) Chrysene	8.484	228	518	~~5.46 ppb~~		100
22) Benzo[b]fluoranthene	9.590	252	77	0.84	ppb	100
23) Benzo(j,k)fluoranthene	9.590	252	77	~~0.87 ppb~~		100
24) Benzo[a]pyrene	9.894	252	220	2.66	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.999	276	1453	14.45	ppb	100
26) Dibenz[a,h]anthracene	11.027	278	1509	18.17	ppb	100
27) Benzo[g,h,i]perylene	11.253	276	945	10.93	ppb	100

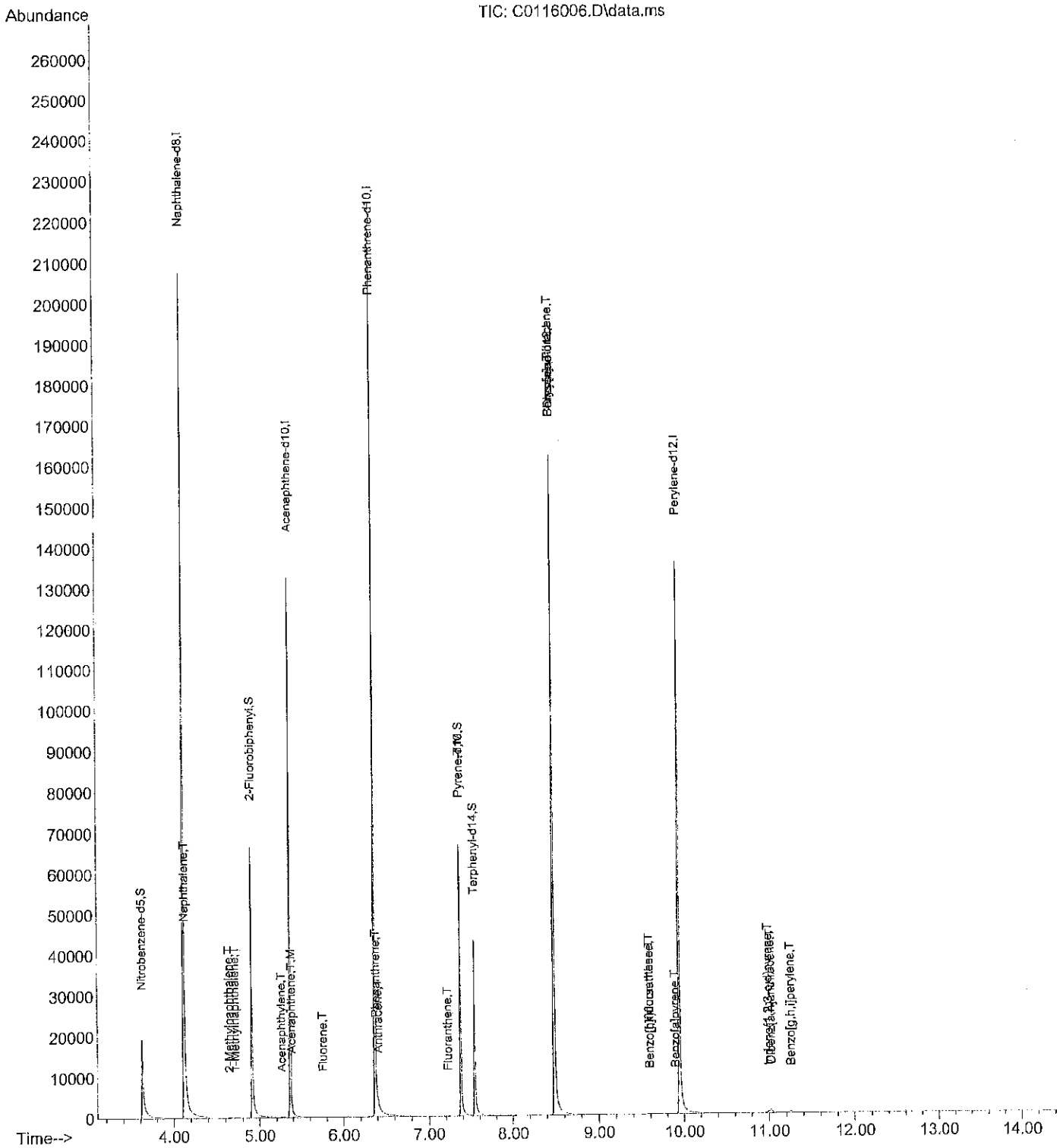
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/19/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116006.D
Acq On : 16 Jan 2015 3:53 pm
Operator :
Sample : 01-087-02
Misc : SV4-50-10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 16 16:08:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116011.D
Acq On : 16 Jan 2015 5:42 pm
Operator :
Sample : 01-087-05
Misc : SV4-50-10
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 17:57:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.122	136	190744	2000.00	ppb	0.00
6) Acenaphthene-d10	5.369	164	96078	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	168651	2000.00	ppb	0.00
17) Chrysene-d12	8.484	240	169953	2000.00	ppb	0.00
21) Perylene-d12	9.945	264	158132	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.623	82	17477	754.14	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 75.41%			
7) 2-Fluorobiphenyl	4.909	172	54785	800.04	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 80.00%			
11) Pyrene-d10	7.374	212	57798	809.90	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 80.99%			
18) Terphenyl-d14	7.542	244	40192	697.17	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 69.72%			
Target Compounds						Qvalue
3) Naphthalene	4.134	128	21313	178.20	ppb	100
4) 2-Methylnaphthalene	4.643	142	617	8.01	ppb	100
5) 1-Methylnaphthalene	4.710	142	742	10.52	ppb	100
8) Acenaphthylene	5.261	152	3598	31.07	ppb	100
9) Acenaphthene	5.392	153	1442	18.97	ppb	100
12) Fluorene	5.746	166	774	9.81	ppb	100
13) Phenanthrene	6.379	178	7746	68.22	ppb	100
14) Anthracene	6.418	178	2311	34.50	ppb	100
15) Fluoranthene	7.217	202	8334	80.11	ppb	100
16) Pyrene	7.385	202	9541	85.93	ppb	100
19) Benzo[a]anthracene	8.469	228	1781	21.01	ppb	100
20) Chrysene	8.508	228	2095	22.30	ppb	100
22) Benzo[b]fluoranthene	9.594	252	2375	~~26.12~~ 9.24	ppb	100
23) Benzo(j,k)fluoranthene	9.594	252	2375	~~27.09~~ 17.80	ppb	100
24) Benzo[a]pyrene	9.890	252	1599	19.55	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.996	276	2056	20.71	ppb	100
26) Dibenz[a,h]anthracene	11.027	278	1425	17.38	ppb	100
27) Benzo[g,h,i]perylene	11.249	276	2015	23.60	ppb	100

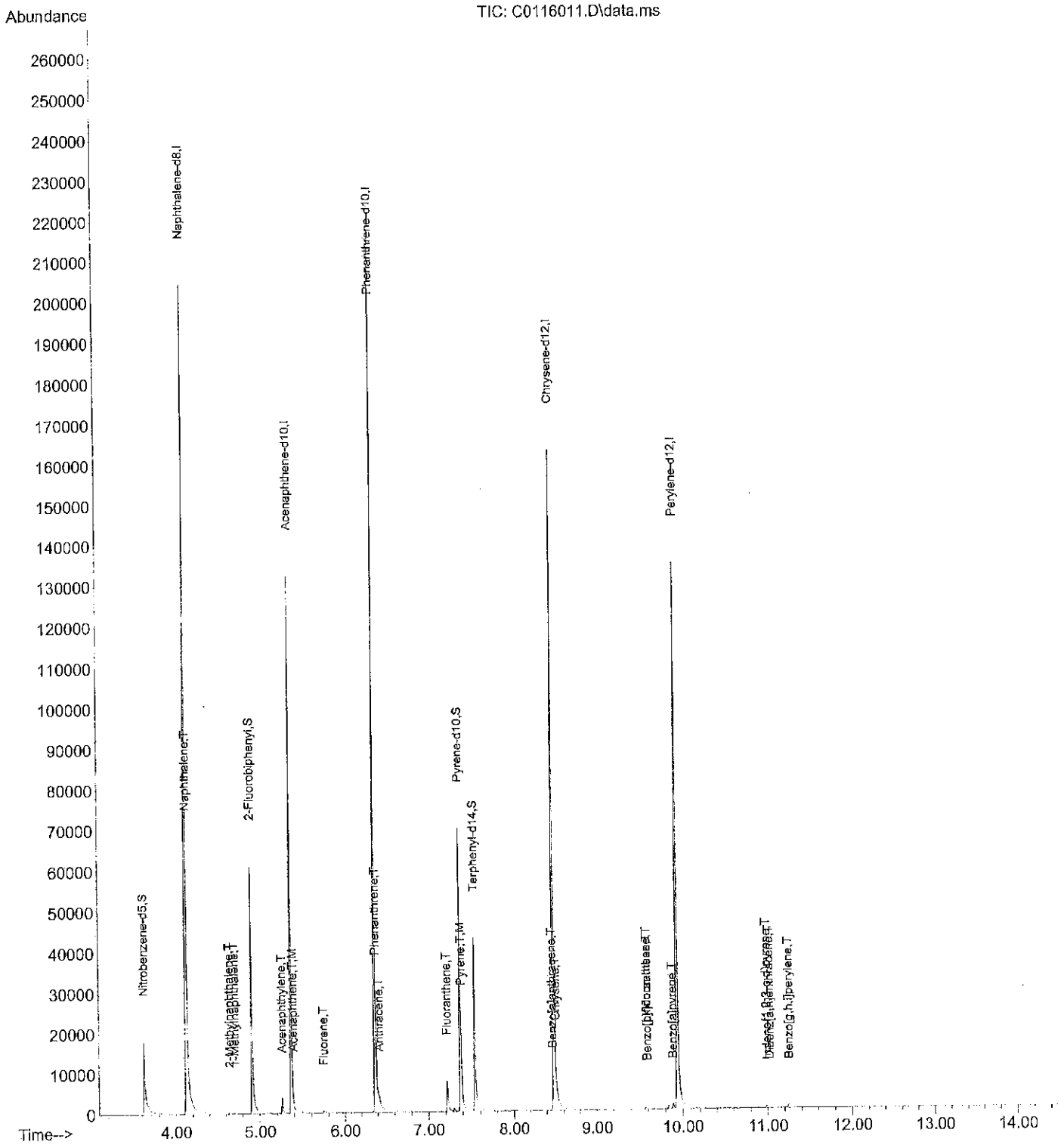
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/19/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116011.D
Acq On : 16 Jan 2015 5:42 pm
Operator :
Sample : 01-087-05
Misc : SV4-50-10
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 17:57:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116003.D
Acq On : 16 Jan 2015 2:48 pm
Operator :
Sample : MB0116S1
Misc : SV4-50-10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 16 15:03:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.123	136	207045	2000.00	ppb	0.00
6) Acenaphthene-d10	5.369	164	103900	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	180961	2000.00	ppb	0.00
17) Chrysene-d12	8.494	240	181700	2000.00	ppb	0.00
21) Perylene-d12	9.949	264	168869	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.618	82	22182	881.80	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 88.18%			
7) 2-Fluorobiphenyl	4.909	172	62276	840.97	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 84.10%			
11) Pyrene-d10	7.386	212	65541	855.93	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 85.59%			
18) Terphenyl-d14	7.554	244	40816	662.22	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 66.22%			
Target Compounds						Qvalue
3) Naphthalene	4.135	128	188	1.45	ppb	100
4) 2-Methylnaphthalene	4.636	142	65	0.78	ppb	100
5) 1-Methylnaphthalene	4.706	142	55	0.72	ppb	100
8) Acenaphthylene	5.261	152	48	0.38	ppb	100
9) Acenaphthene	5.415	153	98	1.19	ppb	100
12) Fluorene	5.738	166	57	0.67	ppb	100
13) Phenanthrene	6.398	178	2325	~~19.08 ppb~~		100
14) Anthracene	6.398	178	2325	32.35	ppb	100
15) Fluoranthene	7.224	202	108	0.97	ppb	100
16) Pyrene	7.386	202	194	1.63	ppb	100
19) Benzo[a]anthracene	8.494	228	834	~~8.20 ppb~~		100
20) Chrysene	8.494	228	834	~~8.30 ppb~~		100
22) Benzo[b]fluoranthene	9.582	252	238	2.45	ppb	100
23) Benzo(j,k)fluoranthene	9.582	252	238	~~2.54 ppb~~		100
24) Benzo[a]pyrene	9.891	252	298	3.41	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.984	276	1710	16.13	ppb	100
26) Dibenz[a,h]anthracene	11.011	278	1840	21.02	ppb	100
27) Benzo[g,h,i]perylene	11.242	276	936	10.27	ppb	100

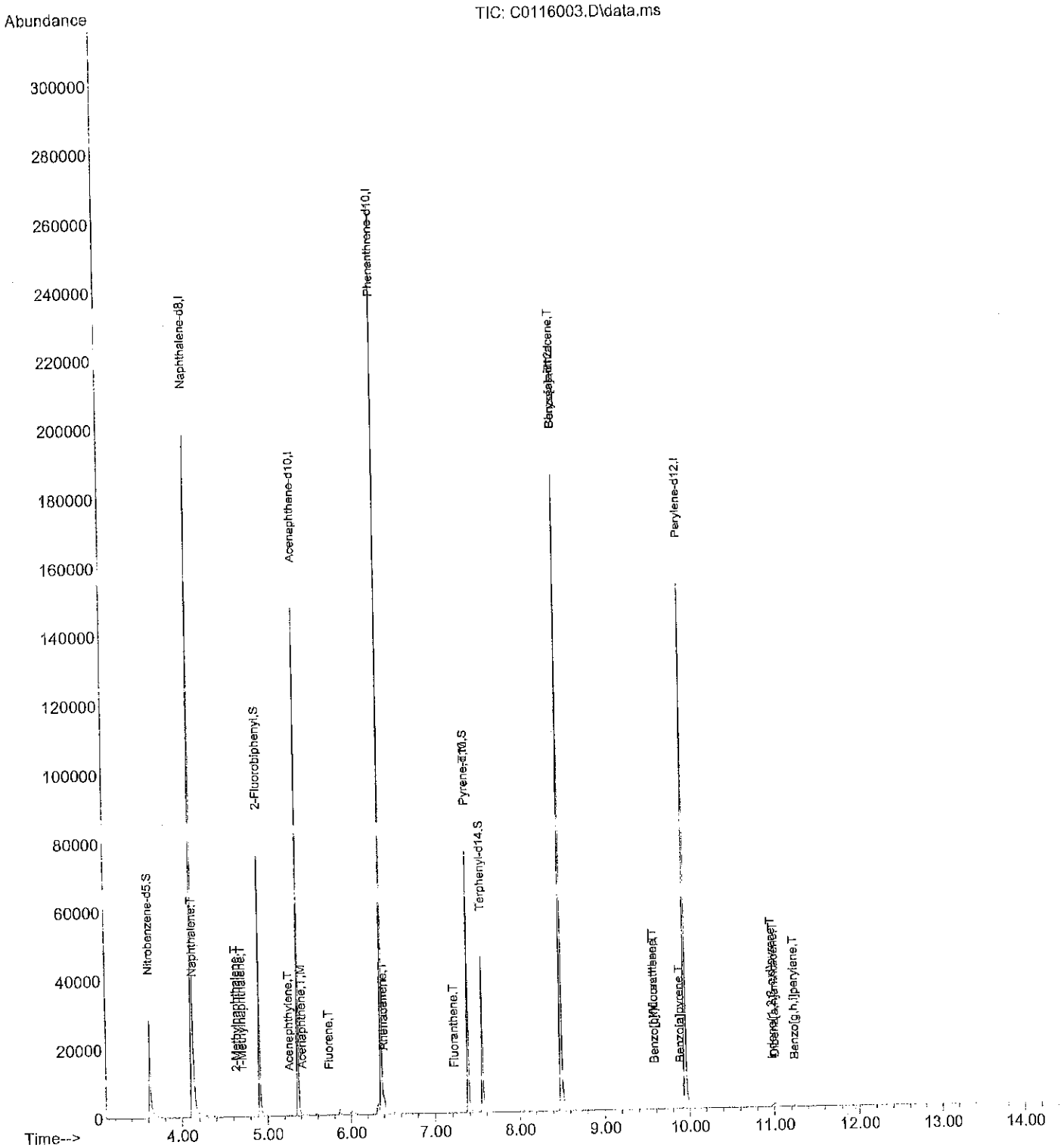
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/19/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116003.D
Acq On : 16 Jan 2015 2:48 pm
Operator :
Sample : MB0116S1
Misc : SV4-50-10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 16 15:03:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116004.D
Acq On : 16 Jan 2015 3:10 pm
Operator :
Sample : SB0116S1
Misc : SV4-50-10
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 16 15:25:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.123	136	193212	2000.00	ppb	0.00
6) Acenaphthene-d10	5.369	164	100755	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	180006	2000.00	ppb	0.00
17) Chrysene-d12	8.485	240	183055	2000.00	ppb	0.00
21) Perylene-d12	9.945	264	173150	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.618	82	21024	895.61	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 89.56%			
7) 2-Fluorobiphenyl	4.909	172	68647	955.94	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 95.59%#			
11) Pyrene-d10	7.374	212	66312	870.59	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 87.06%			
18) Terphenyl-d14	7.543	244	45300	729.53	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 72.95%			
Target Compounds						Qvalue
3) Naphthalene	4.135	128	44034	363.47	ppb	100
4) 2-Methylnaphthalene	4.632	142	27936	358.22	ppb	100
5) 1-Methylnaphthalene	4.706	142	29062	406.95	ppb	100
8) Acenaphthylene	5.261	152	43554	358.70	ppb	100
9) Acenaphthene	5.384	153	28778	361.03	ppb	100
12) Fluorene	5.738	166	32544	386.32	ppb	100
13) Phenanthrene	6.379	178	42174	347.98	ppb	100
14) Anthracene	6.410	178	44753	625.93	ppb	100
15) Fluoranthene	7.212	202	45087	406.03	ppb	100
16) Pyrene	7.386	202	47833	403.62	ppb	100
19) Benzo[a]anthracene	8.469	228	36694	401.87	ppb	100
20) Chrysene	8.508	228	40074	396.07	ppb	100
22) Benzo[b]fluoranthene	9.562	252	32300	324.37	ppb	100
23) Benzo(j,k)fluoranthene	9.589	252	28854	300.55	ppb	100
24) Benzo[a]pyrene	9.882	252	33504	374.14	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.972	276	35719	328.53	ppb	100
26) Dibenz[a,h]anthracene	11.000	278	29297	326.36	ppb	100
27) Benzo[g,h,i]perylene	11.230	276	34848	372.81	ppb	100

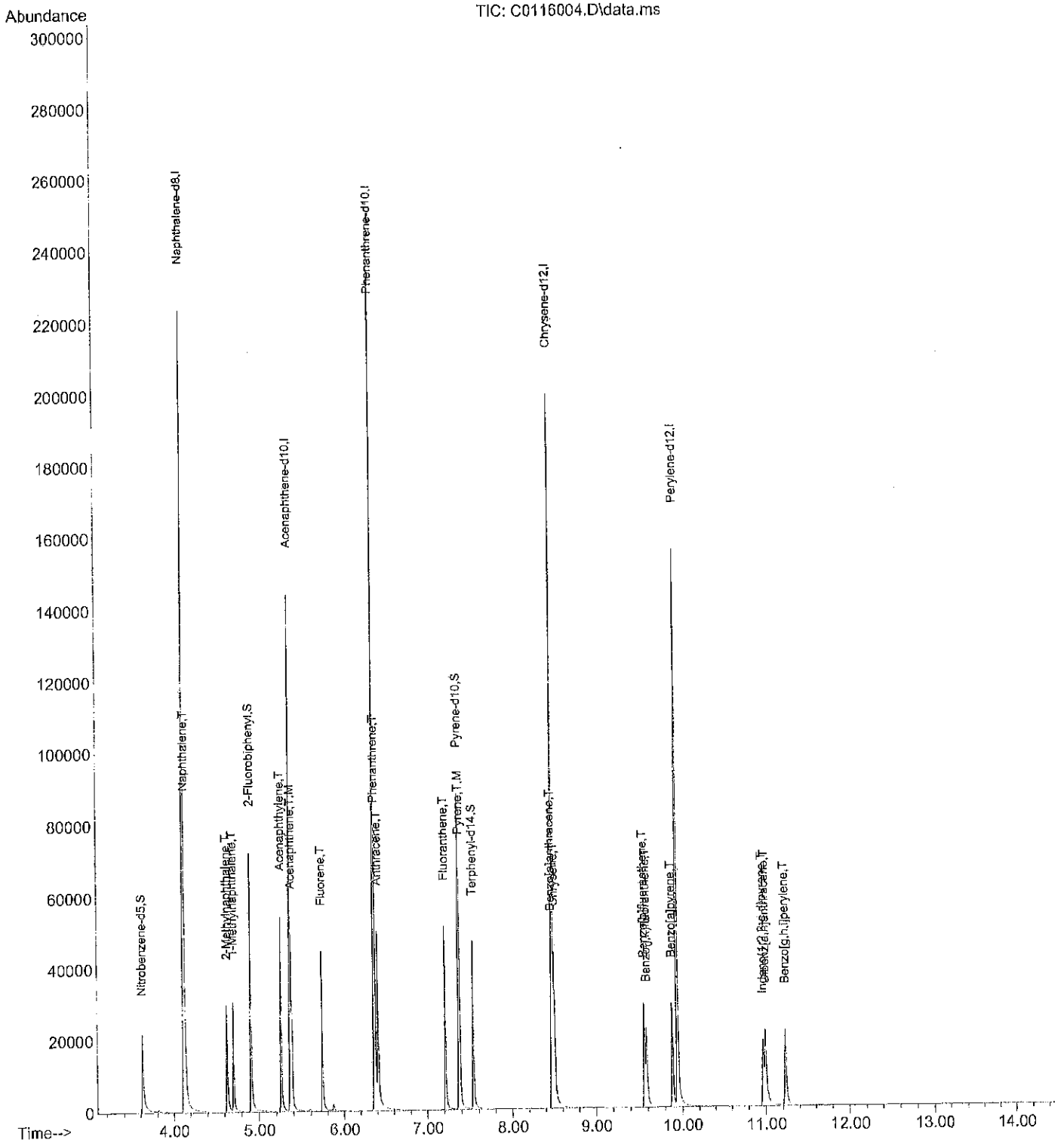
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/19/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116004.D
Acq On : 16 Jan 2015 3:10 pm
Operator :
Sample : SB0116S1
Misc : SV4-50-10
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 16 15:25:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116005.D
Acq On : 16 Jan 2015 3:32 pm
Operator :
Sample : SBD0116S1
Misc : SV4-50-10
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 16 15:47:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

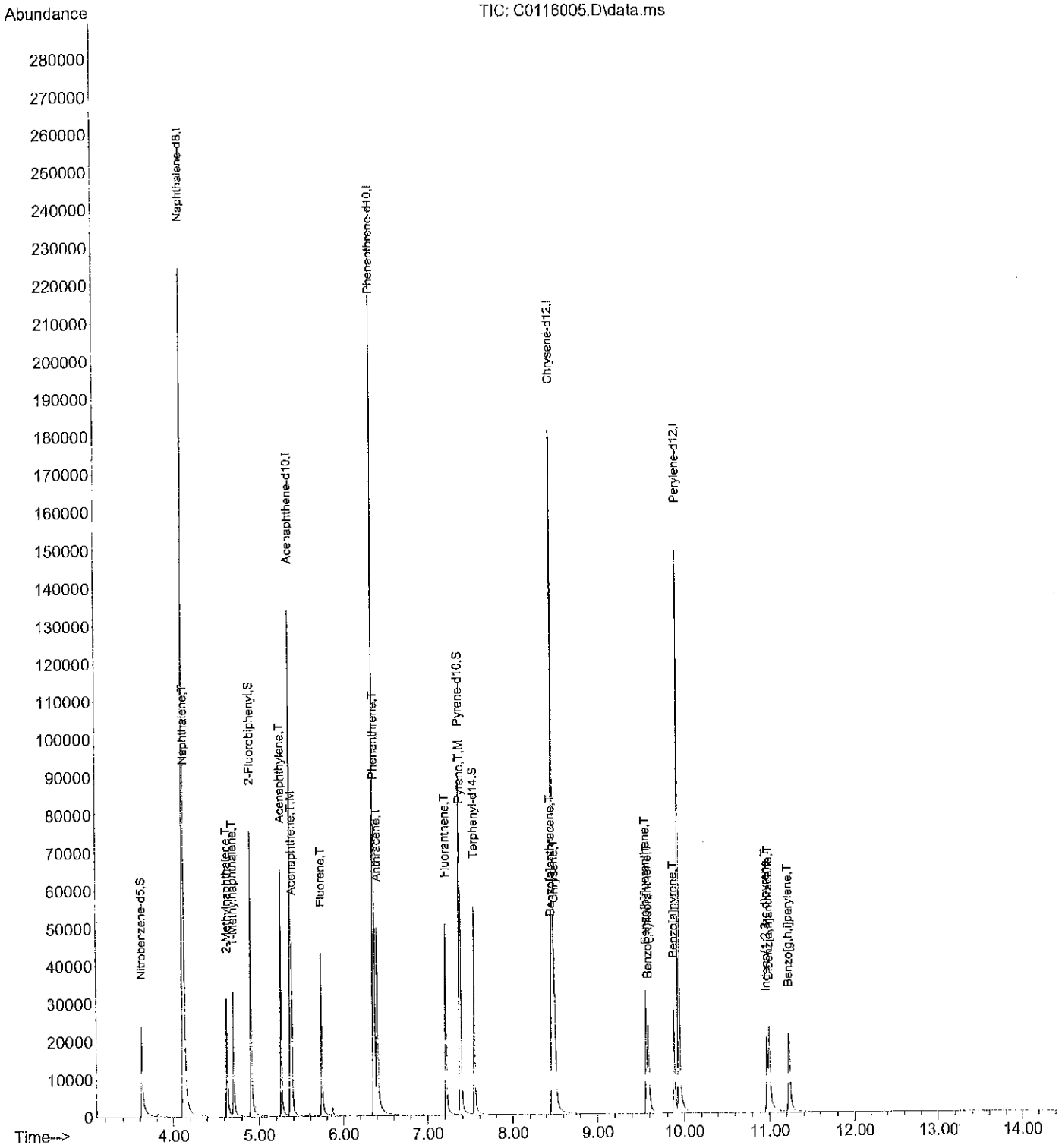
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.123	136	193391	2000.00	ppb	0.00
6) Acenaphthene-d10	5.368	164	96535	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	172443	2000.00	ppb	0.00
17) Chrysene-d12	8.484	240	175420	2000.00	ppb	0.00
21) Perylene-d12	9.945	264	165381	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.624	82	21659	921.80	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 92.18%#			
7) 2-Fluorobiphenyl	4.909	172	64105	931.71	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 93.17%#			
11) Pyrene-d10	7.374	212	67821	929.45	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 92.94%			
18) Terphenyl-d14	7.542	244	47159	792.52	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.25%			
Target Compounds						Qvalue
3) Naphthalene	4.135	128	47588	392.44	ppb	100
4) 2-Methylnaphthalene	4.632	142	28464	364.65	ppb	100
5) 1-Methylnaphthalene	4.706	142	30072	420.71	ppb	100
8) Acenaphthylene	5.260	152	45171	388.28	ppb	100
9) Acenaphthene	5.391	153	29766	389.75	ppb	100
12) Fluorene	5.738	166	33163	410.93	ppb	100
13) Phenanthrene	6.379	178	42847	369.04	ppb	100
14) Anthracene	6.410	178	44346	647.44	ppb	100
15) Fluoranthene	7.217	202	46040	432.80	ppb	100
16) Pyrene	7.385	202	48587	427.97	ppb	100
19) Benzo[a]anthracene	8.469	228	37765	431.60	ppb	100
20) Chrysene	8.508	228	41230	425.24	ppb	100
22) Benzo[b]fluoranthene	9.566	252	32306	339.68	ppb	100
23) Benzo(j,k)fluoranthene	9.590	252	31447	342.94	ppb	100
24) Benzo[a]pyrene	9.886	252	34170	399.50	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.972	276	37812	364.12	ppb	100
26) Dibenz[a,h]anthracene	11.003	278	31185	363.71	ppb	100
27) Benzo[g,h,i]perylene	11.229	276	35942	402.58	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/19/15 gm

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116005.D
Acq On : 16 Jan 2015 3:32 pm
Operator :
Sample : SBD0116S1
Misc : SV4-50-10
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 16 15:47:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150116\
Data File : C0116002.D
Acq On : 16 Jan 2015 1:20 pm
Operator :
Sample : PAH CCV01016
Misc : SV4-50-10
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 16 13:35:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8	2000.000	2000.000	0.0	88	0.00
2 S	Nitrobenzene-d5	500.000	587.539	-17.5	111	0.00
3 T	Naphthalene	500.000	475.584	4.9	92	0.00
4 T	2-Methylnaphthalene	500.000	457.402	8.5	88	0.00
5 T	1-Methylnaphthalene	500.000	499.894	0.0	96	0.00
6 I	Acenaphthene-d10	2000.000	2000.000	0.0	95	0.00
7 S	2-Fluorobiphenyl	500.000	526.465	-5.3	94	0.00
8 T	Acenaphthylene	500.000	456.670	8.7	95	0.00
9 T,M	Acenaphthene	500.000	448.501	10.3	94	0.00
10 I	Phenanthrene-d10	2000.000	2000.000	0.0	95	0.00
11 S	Pyrene-d10	500.000	535.301	-7.1	108	0.00
12 T	Fluorene	500.000	492.704	1.5	104	0.00
13 T	Phenanthrene	500.000	447.798	10.4	93	0.00
14 T	Anthracene	500.000	474.546	5.1	70	0.00
15 T	Fluoranthene	500.000	520.027	-4.0	107	0.00
16 T,M	Pyrene	500.000	512.473	-2.5	105	0.00
17 I	Chrysene-d12	2000.000	2000.000	0.0	107	0.00
18 S	Terphenyl-d14	500.000	549.892	-10.0	111	0.00
19 T	Benzo[a]anthracene	500.000	503.840	-0.8	103	0.00
20 T	Chrysene	500.000	480.494	3.9	110	0.00
21 I	Perylene-d12	2000.000	2000.000	0.0	106	0.00
22 T	Benzo[b]fluoranthene	500.000	468.217	6.4	105	0.00
23 T	Benzo(j,k)fluoranthene	500.000	525.145	-5.0	117	0.00
24 T	Benzo[a]pyrene	500.000	489.131	2.2	108	0.00
25 T	Indeno(1,2,3-c,d)pyrene	500.000	456.959	8.6	102	0.00
26 T	Dibenz[a,h]anthracene	500.000	444.287	11.1	99	0.00
27 T	Benzo[g,h,i]perylene	500.000	457.047	8.6	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116002.D
Acq On : 16 Jan 2015 1:20 pm
Operator :
Sample : PAH CCV01016
Misc : SV4-50-10
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 16 13:35:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration

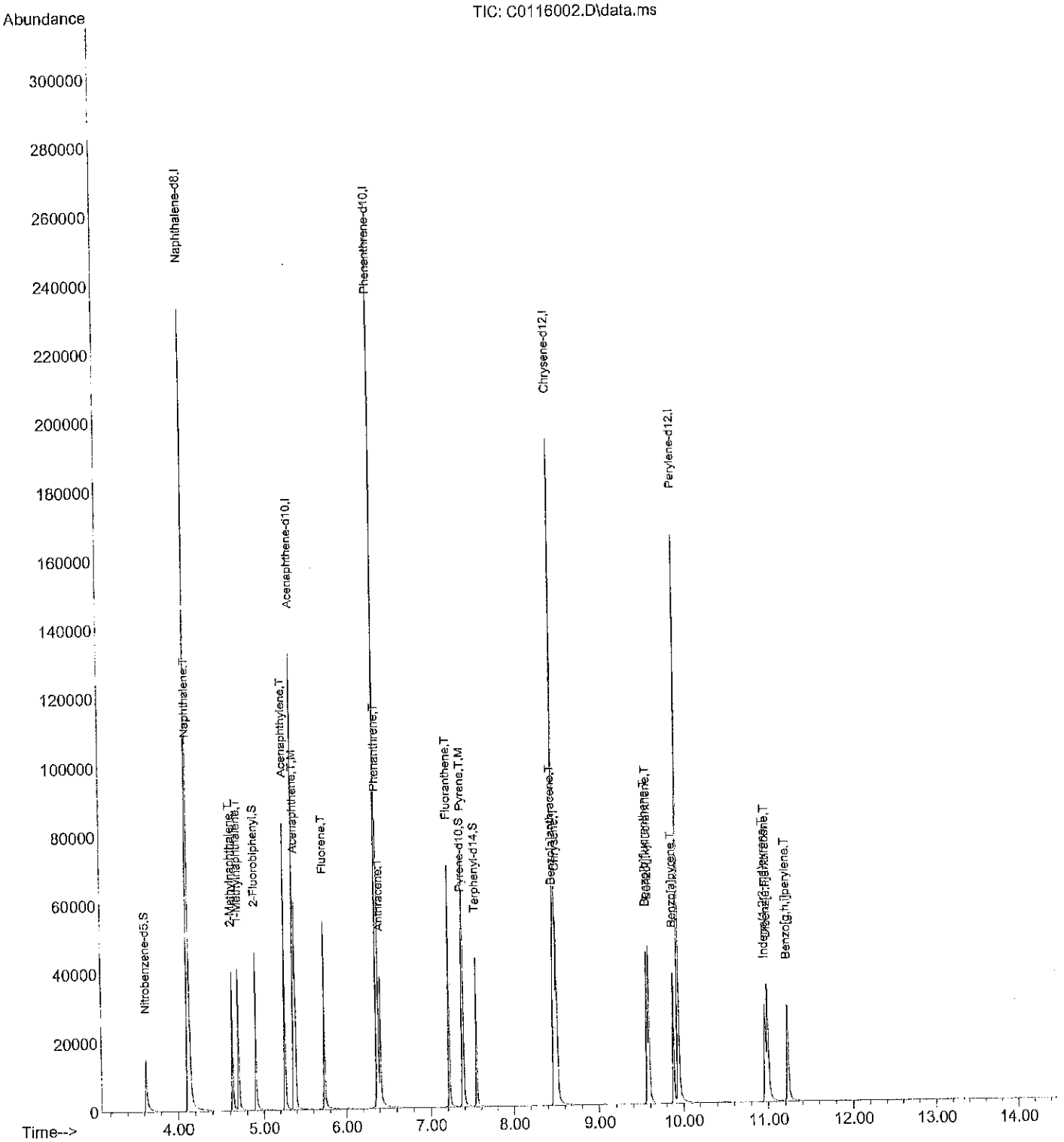
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.123	136	196837	2000.00	ppb	0.00
6) Acenaphthene-d10	5.368	164	99041	2000.00	ppb	0.00
10) Phenanthrene-d10	6.367	188	169515	2000.00	ppb	0.00
17) Chrysene-d12	8.488	240	182436	2000.00	ppb	0.00
21) Perylene-d12	9.946	264	170274	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.623	82	14051	587.54	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 58.75%			
7) 2-Fluorobiphenyl	4.909	172	37163	526.47	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 52.65%			
11) Pyrene-d10	7.375	212	38397	535.30	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 53.53%			
18) Terphenyl-d14	7.543	244	34030	549.89	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 54.99%			
Target Compounds						Qvalue
3) Naphthalene	4.134	128	58698	475.58	ppb	100
4) 2-Methylnaphthalene	4.628	142	36340	457.40	ppb	100
5) 1-Methylnaphthalene	4.707	142	36369	499.89	ppb	100
8) Acenaphthylene	5.260	152	54507	456.67	ppb	100
9) Acenaphthene	5.391	153	35142	448.50	ppb	100
12) Fluorene	5.738	166	39087	492.70	ppb	100
13) Phenanthrene	6.382	178	51108	447.80	ppb	100
14) Anthracene	6.410	178	31952	474.55	ppb	100
15) Fluoranthene	7.218	202	54380	520.03	ppb	100
16) Pyrene	7.386	202	57193	512.47	ppb	100
19) Benzo[a]anthracene	8.472	228	45849	503.84	ppb	100
20) Chrysene	8.511	228	48451	480.49	ppb	100
22) Benzo[b]fluoranthene	9.568	252	45849	468.22	ppb	100
23) Benzo(j,k)fluoranthene	9.591	252	49579	525.14	ppb	100
24) Benzo[a]pyrene	9.884	252	43074	489.13	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.973	276	48857	456.96	ppb	100
26) Dibenz[a,h]anthracene	11.000	278	39221	444.29	ppb	100
27) Benzo[g,h,i]perylene	11.231	276	42012	457.05	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150116\
Data File : C0116002.D
Acq On : 16 Jan 2015 1:20 pm
Operator :
Sample : PAH CCV01016
Misc : SV4-50-10
ALS Vial : 2 Sample Multiplier: 1

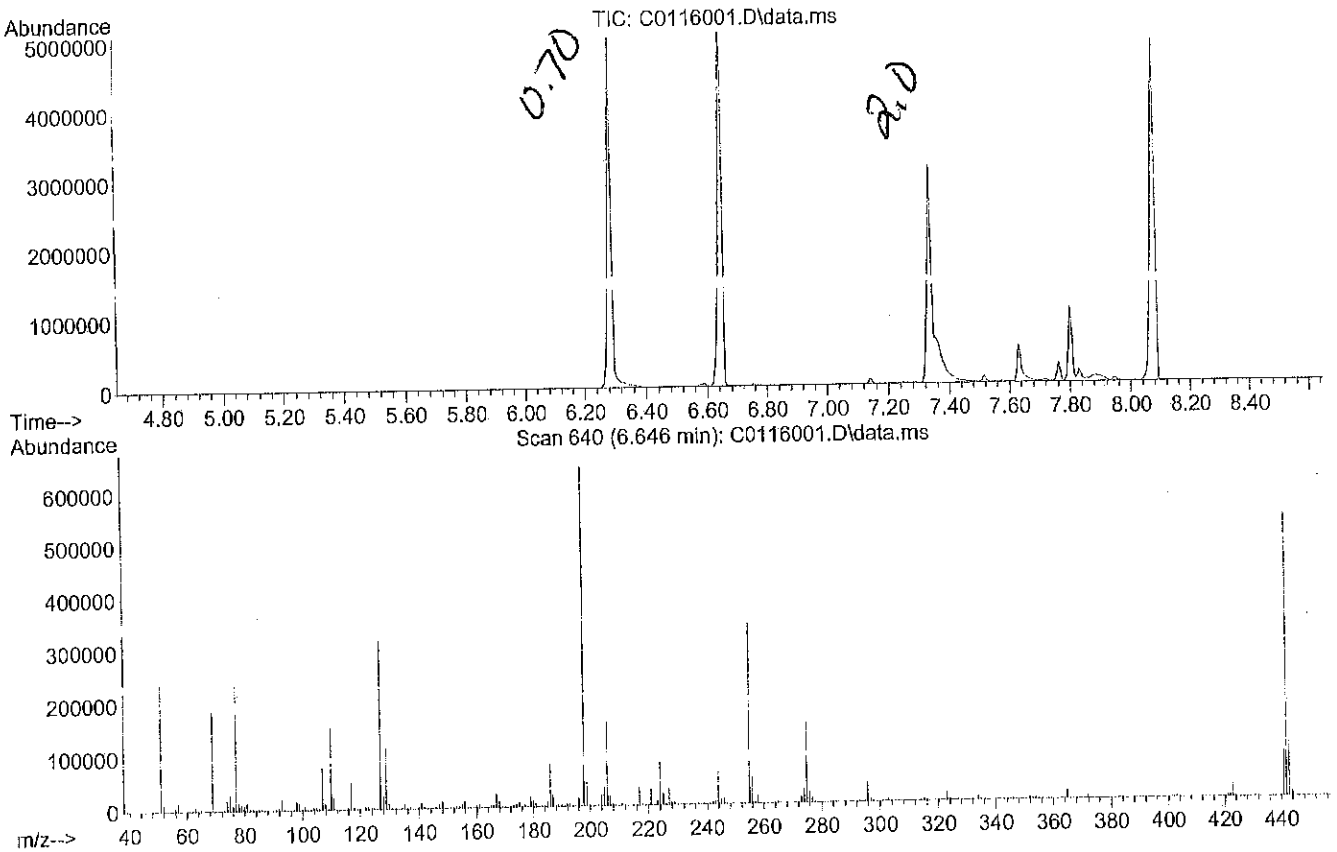
Quant Time: Jan 16 13:35:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0109.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Jan 15 14:37:59 2015
Response via : Initial Calibration



Data Path : X:\SEMIVOLS\COREY\DATA\C150116\
Data File : C0116001.D
Acq On : 16 Jan 2015 12:53 pm
Operator :
Sample : DFTPP
Misc : SV4-49-03
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0109.M
Title : PAH'S BY SIMS
Last Update : Thu Jan 15 14:37:59 2015



Spectrum Information: Scan 640

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	37.2	239616	PASS
68	69	0.00	2	1.2	2379	PASS
69	198	0.00	100	29.7	191552	PASS
70	69	0.00	2	0.4	859	PASS
127	198	25	75	49.6	319360	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	644416	PASS
199	198	5	9	7.2	46560	PASS
275	198	10	30	23.7	152448	PASS
365	198	0.75	100	2.6	16936	PASS
441	443	0.01	100	85.8	90048	PASS
442	198	40	110	83.9	540864	PASS
443	442	15	24	19.4	104936	PASS

Total Cadmium Data

P150116F1B. Mean Only Report 1/19/2015, 9:17:57 AM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	1/16/2015, 9:36:09 AM
Standard 5	Cd 228.802	10.000	ppb	1/16/2015, 10:18:36 AM
Standard 4	Cd 228.802	100.00	ppb	1/16/2015, 9:55:20 AM
Standard 3	Cd 228.802	1000.0	ppb	1/16/2015, 9:59:54 AM
Standard 2	Cd 228.802	2500.0	ppb	1/16/2015, 10:04:27 AM
Standard 1	Cd 228.802	5000.0	ppb	1/16/2015, 10:09:00 AM
Initial Calib Verif	Cd 228.802	1004.4	ppb	1/16/2015, 10:32:13 AM
LLICV	Cd 228.802	10.344	ppb	1/16/2015, 10:43:37 AM
Initial Calib Blank	Cd 228.802	1.774	ppb	1/16/2015, 10:49:36 AM
Cont Calib Verif	Cd 228.802	1064.6	ppb	1/16/2015, 10:54:10 AM
Cont Calib Blank	Cd 228.802	2.181	ppb	1/16/2015, 11:00:54 AM
ICSA	Cd 228.802	-0.309uv	ppb	1/16/2015, 11:05:28 AM
ICSAB	Cd 228.802	909.26	ppb	1/16/2015, 11:10:02 AM
MB0116SM1	Cd 228.802	0.568uv	ppb	1/16/2015, 11:23:45 AM
SB0116SM1	Cd 228.802	920.81	ppb	1/16/2015, 11:28:20 AM
01-075-01	Cd 228.802	3.856	ppb	1/16/2015, 11:32:55 AM
01-075-01 D	Cd 228.802	2.612	ppb	1/16/2015, 11:37:28 AM
01-075-01 L	Cd 228.802	1.240uv	ppb	1/16/2015, 11:42:04 AM
01-075-01 MS	Cd 228.802	891.72	ppb	1/16/2015, 11:46:39 AM
01-075-01 MSD	Cd 228.802	927.38	ppb	1/16/2015, 11:51:14 AM
01-087-01a	Cd 228.802	6.703	ppb	1/16/2015, 11:55:47 AM
Cont Calib Verif	Cd 228.802	1063.6	ppb	1/16/2015, 12:01:07 PM
Cont Calib Blank	Cd 228.802	-0.352uv	ppb	1/16/2015, 12:12:23 PM
LLCCV	Cd 228.802	12.280	ppb	1/16/2015, 12:16:58 PM
01-087-02a	Cd 228.802	2.208	ppb	1/16/2015, 12:28:12 PM
01-087-03a	Cd 228.802	1.280	ppb	1/16/2015, 12:32:46 PM
01-087-04a	Cd 228.802	0.116uv	ppb	1/16/2015, 12:37:20 PM
01-087-05a	Cd 228.802	5.064	ppb	1/16/2015, 12:41:54 PM
01-063-01	Cd 228.802	12.672	ppb	1/16/2015, 12:46:27 PM
01-061-01a	Cd 228.802	3.202	ppb	1/16/2015, 12:51:02 PM
01-062-01a	Cd 228.802	3.854	ppb	1/16/2015, 12:55:35 PM
12-271-51	Cd 228.802	17.686	ppb	1/16/2015, 1:00:09 PM
12-271-52	Cd 228.802	49.645	ppb	1/16/2015, 1:04:43 PM
BLK	Cd 228.802	1.277	ppb	1/16/2015, 1:09:19 PM
Cont Calib Verif	Cd 228.802	1053.7	ppb	1/16/2015, 1:13:52 PM
Cont Calib Blank	Cd 228.802	0.219uv	ppb	1/16/2015, 1:19:48 PM
LLCCV	Cd 228.802	9.810	ppb	1/16/2015, 1:24:23 PM

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 29, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-126

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 22, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

Case Narrative

Samples were collected on January 20 and 21, 2015 and received by the laboratory on January 22, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH-Gx/Benzene EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-39-10.0	01-126-01	Soil	1-20-15	1-22-15	
TRIP BLANK-012015	01-126-02	Water	---	1-22-15	
EX-40-10.0	01-126-03	Soil	1-21-15	1-22-15	

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-39-10.0**					
Laboratory ID:	01-126-01					
Benzene	**ND**	0.020	EPA 8021B	1-22-15	1-22-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***96***	***68-123***				
Client ID:	**EX-40-10.0**					
Laboratory ID:	01-126-03					
Benzene	**ND**	0.020	EPA 8021B	1-22-15	1-22-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***91***	***68-123***				

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TRIP BLANK-012015**					
Laboratory ID:	01-126-02					
Benzene	**ND**	1.0	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	100	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***85***	***71-113***				

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-39-10.0**					
Laboratory ID:	01-126-01					
Diesel Range Organics	**ND**	31	NWTPH-Dx	1-22-15	1-22-15	X1
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	1-22-15	1-22-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***89***	***50-150***				
Client ID:	**EX-40-10.0**					
Laboratory ID:	01-126-03					
Diesel Range Organics	**ND**	33	NWTPH-Dx	1-22-15	1-22-15	X1
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	1-22-15	1-22-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***82***	***50-150***				

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-39-10.0**					
Laboratory ID:	01-126-01					
Benzo[a]anthracene	**0.020**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Chrysene	**0.024**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo[b]fluoranthene	**0.014**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo(j,k)fluoranthene	**0.011**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo[a]pyrene	**0.027**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Indeno(1,2,3-c,d)pyrene	**0.0098**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Dibenz[a,h]anthracene	**ND**	0.0082	EPA 8270D/SIM	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***71***	***32 - 114***				
Pyrene-d10	***71***	***33 - 121***				
Terphenyl-d14	***52***	***31 - 116***				

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-40-10.0**					
Laboratory ID:	01-126-03					
Benzo[a]anthracene	**0.064**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Chrysene	**0.071**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo[b]fluoranthene	**0.047**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo(j,k)fluoranthene	**0.040**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo[a]pyrene	**0.089**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Indeno(1,2,3-c,d)pyrene	**0.034**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270D/SIM	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***75***	***32 - 114***				
Pyrene-d10	***77***	***33 - 121***				
Terphenyl-d14	***61***	***31 - 116***				

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-126-01					
Client ID:	**EX-39-10.0**					
Cadmium	**ND**	0.62	6010C	1-22-14	1-22-14	
Lab ID:	01-126-03					
Client ID:	**EX-40-10.0**					
Cadmium	**ND**	0.65	6010C	1-22-14	1-22-14	

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0122S1					
Benzene	**ND**	0.020	EPA 8021B	1-22-15	1-22-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***97***	***68-123***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-126-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***96***	***98***	***68-123***			
SPIKE BLANKS											
Laboratory ID:	SB0122S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.990**	**1.02**	1.00	1.00		**99**	**102**	75-117	3	13	
Surrogate:											
Fluorobenzene						***97***	***100***	***68-123***			

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0122G-1	5.00	4.80	4	+/- 20%
CCVD0122G-2	5.00	4.84	3	+/- 20%

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0122B-1	50.0	49.5	1	+/- 15%
Benzene	CCVD0122B-2	50.0	48.9	2	+/- 15%

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126W1					
Benzene	**ND**	1.0	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	100	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***87***	***71-113***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-127-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***81***	***82***	***71-113***			
MATRIX SPIKES											
Laboratory ID:	01-127-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**48.0**	**49.8**	50.0	50.0	ND	**96**	**100**	82-120	4	14	
Surrogate:											
Fluorobenzene						***94***	***98***	***71-113***			

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0126G-1	5.00	4.90	2	+/- 20%
CCVH0126G-2	5.00	4.55	9	+/- 20%

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0126B-1	50.0	45.6	9	+/- 15%
Benzene	CCVH0126B-2	50.0	43.9	12	+/- 15%
Benzene	CCVD0126B-2	50.0	48.7	3	+/- 15%
Benzene	CCVD0126B-3	50.0	47.0	6	+/- 15%

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0122S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	1-22-15	1-22-15	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***92***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-112-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Surrogate:											
o-Terphenyl						***117***	***106***	***50-150***			

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

PAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0122S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-22-15	1-22-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***86***	***32 - 114***				
Pyrene-d10	***93***	***33 - 121***				
Terphenyl-d14	***75***	***31 - 116***				

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

PAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0122S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0881**	**0.0875**	0.0833	0.0833	106	105	60 - 128	1	15	
Chrysene	**0.0949**	**0.0962**	0.0833	0.0833	114	115	60 - 117	1	13	
Benzo[b]fluoranthene	**0.0934**	**0.0941**	0.0833	0.0833	112	113	60 - 131	1	16	
Benzo(j,k)fluoranthene	**0.0561**	**0.0630**	0.0833	0.0833	67	76	57 - 126	12	20	
Benzo[a]pyrene	**0.113**	**0.112**	0.0833	0.0833	136	134	62 - 136	1	16	
Indeno(1,2,3-c,d)pyrene	**0.0834**	**0.0861**	0.0833	0.0833	100	103	60 - 127	3	19	
Dibenz[a,h]anthracene	**0.0822**	**0.0821**	0.0833	0.0833	99	99	62 - 133	0	22	
Surrogate:										
2-Fluorobiphenyl					***89***	***89***	***32 - 114***			
Pyrene-d10					***94***	***94***	***33 - 121***			
Terphenyl-d14					***75***	***80***	***31 - 116***			

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	1-22-14
Date Analyzed:	1-22-14
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0122SH1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 1-22-14
Date Analyzed: 1-22-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-126-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 1-22-14
Date Analyzed: 1-22-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-126-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**43.3**	87	**42.6**	85	2	

Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV012215P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLICV1012215P	0.0100	0.0120	-20	+/- 30%
Cadmium	CCV1012215P	1.00	1.08	-8.0	+/- 10%
Cadmium	CCV2012215P	1.00	1.06	-6.0	+/- 10%
Cadmium	LLCCV2012215P	0.0100	0.0118	-18	+/- 30%
Cadmium	CCV3012215P	1.00	1.06	-6.0	+/- 10%
Cadmium	LLCCV3012215P	0.0100	0.00725	28	+/- 30%
Cadmium	CCV4012215P	1.00	1.07	-7.0	+/- 10%
Cadmium	LLCCV4012215P	0.0100	0.00920	8.0	+/- 30%
Cadmium	CCV5012215P	1.00	0.985	1.5	+/- 10%
Cadmium	LLCCV5012215P	0.0100	0.0103	-3.0	+/- 30%

Date of Report: January 29, 2015
Samples Submitted: January 22, 2015
Laboratory Reference: 1501-126
Project: 5147-012-06

% MOISTURE

Date Analyzed: 1-22-15

Client ID	Lab ID	% Moisture
EX-39-10.0	01-126-01	19
EX-40-10.0	01-126-03	23

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 01-126

Company: GeoEngineers Inc.
Project Number: 5147-012-06
Project Name: Former Shell Oil Tank Farm
Project Manager: Abhijit Joshi
Sampled by: Abhijit Joshi

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☒ see comment (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx w/Silica gel cleanup	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Benzene 8021B	cPAHs 8270D/SIM	Cadmium 6010C			% Moisture
1	EX-39-10.0	01/20/15	1230	S	2			X	X													X	X	X			X
2	TRIP BLANK-012015			W	1			X														X					
3	EX-40-10.0	01/21/15	1500	S	2			X	X													X	X	X			X

	Signature	Company	Date	Time
Relinquished		GE	01/22/15	853 AM
Received		OSE	1/22/15	0853 AM
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
EX-39-10.0 on STD TAT
EX-40-10.0 on 1-DAY TAT

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐
Electronic Data Deliverables (EDDs) ☐ _____

25

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-0012-06

OnSite Project Number: 01-126

Initiated by: MM

Date Initiated: 1/22/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 4	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122010.D\FID1A.CH Vial: 10
Signal #2 : d:\btex\DATA\D150122\0122010.D\FID2B.CH
Acq On : 22 Jan 2015 19:45 Operator:
Sample : 01-126-03s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 22 20:14 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

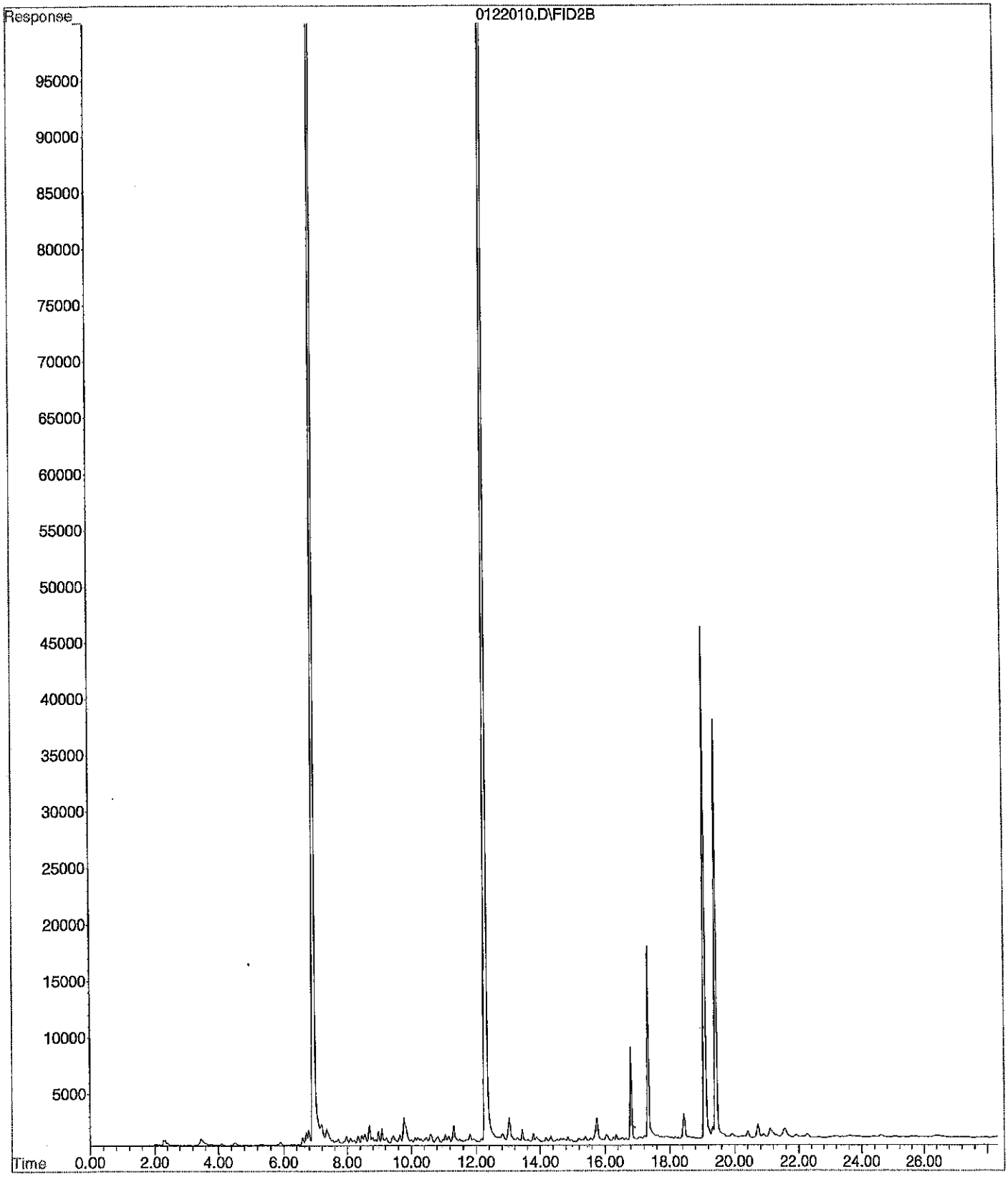
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	3596085	51.913	PPB
5)	S	BROMOFLUOROBENZENE	12.29	2194225	54.243	PPB
11)	S	FLUOROBENZENE #2	6.94	9075823	40.934	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	13123034	43.868	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1544138	0.025	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4748685	0.061	PPM
3)	H	GASOLINE (9-24-14)	13.51	1935435	0.027	PPM
7)	H	entire GAS envelope #2 (9-	12.26	9709524	0.019	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	4030785	N.D.	PPM
9)		MTBE #2	4.71	646	N.D.	PPB
10)		BENZENE #2	6.71	42535	0.101	PPB
12)		TOLUENE #2	9.09	57159	0.028	PPB
13)		ETHYLBENZENE #2	11.05	32982	0.016	PPB
14)		m,p-XYLENE #2	11.31	86682	N.D.	PPB
15)		o-XYLENE #2	11.81	36049	N.D.	PPB

1/23

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150122\0122010.D
Operator :
Acquired : 22 Jan 2015 19:45 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-126-03s
Misc Info : V2-36-17
Vial Number: 10



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D150122\0122003.D\FID2B.CH
Acq On : 22 Jan 2015 15:13 Operator:
Sample : MB0122S1 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

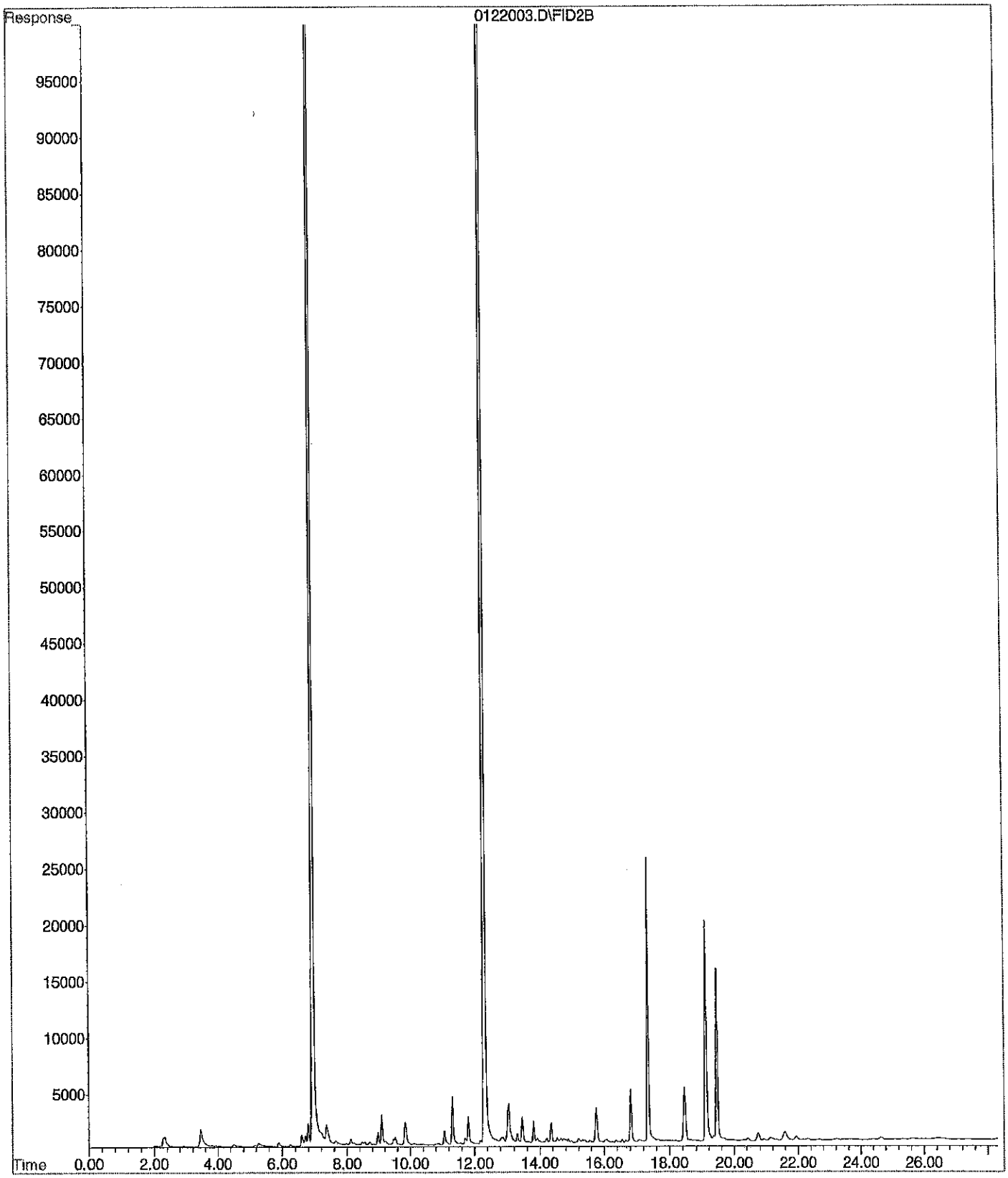
Quant Time: Jan 22 15:41 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	3446841	49.745 PPB
5)	S	BROMOFLUOROBENZENE	12.31	2004307	49.499 PPB
11)	S	FLUOROBENZENE #2	6.95	8598969	38.766 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11847554	39.560 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	1150201	0.017 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3914800	0.049 PPM
3)	H	GASOLINE (9-24-14)	13.51	1632701	0.020 PPM
7)	H	entire GAS envelope #2 (9-	12.26	7654062	0.004 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	4087975	N.D. PPM
9)		MTBE #2	4.68	5884	0.032 PPB
10)		BENZENE #2	6.71	32853	0.068 PPB
12)		TOLUENE #2	9.10	104575	0.199 PPB
13)		ETHYLBENZENE #2	11.06	55016	0.106 PPB
14)		m,p-XYLENE #2	11.32	166250	0.026 PPB
15)		o-XYLENE #2	11.81	109265	0.170 PPB

File : X:\BTEX\DARYL\DATA\D150122\0122003.D
Operator :
Acquired : 22 Jan 2015 15:13 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB0122S1
Misc Info : V2-36-17
Vial Number: 3



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150122\0122008.D\FID2B.CH
Acq On : 22 Jan 2015 18:27 Operator:
Sample : 01-126-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 22 18:55 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

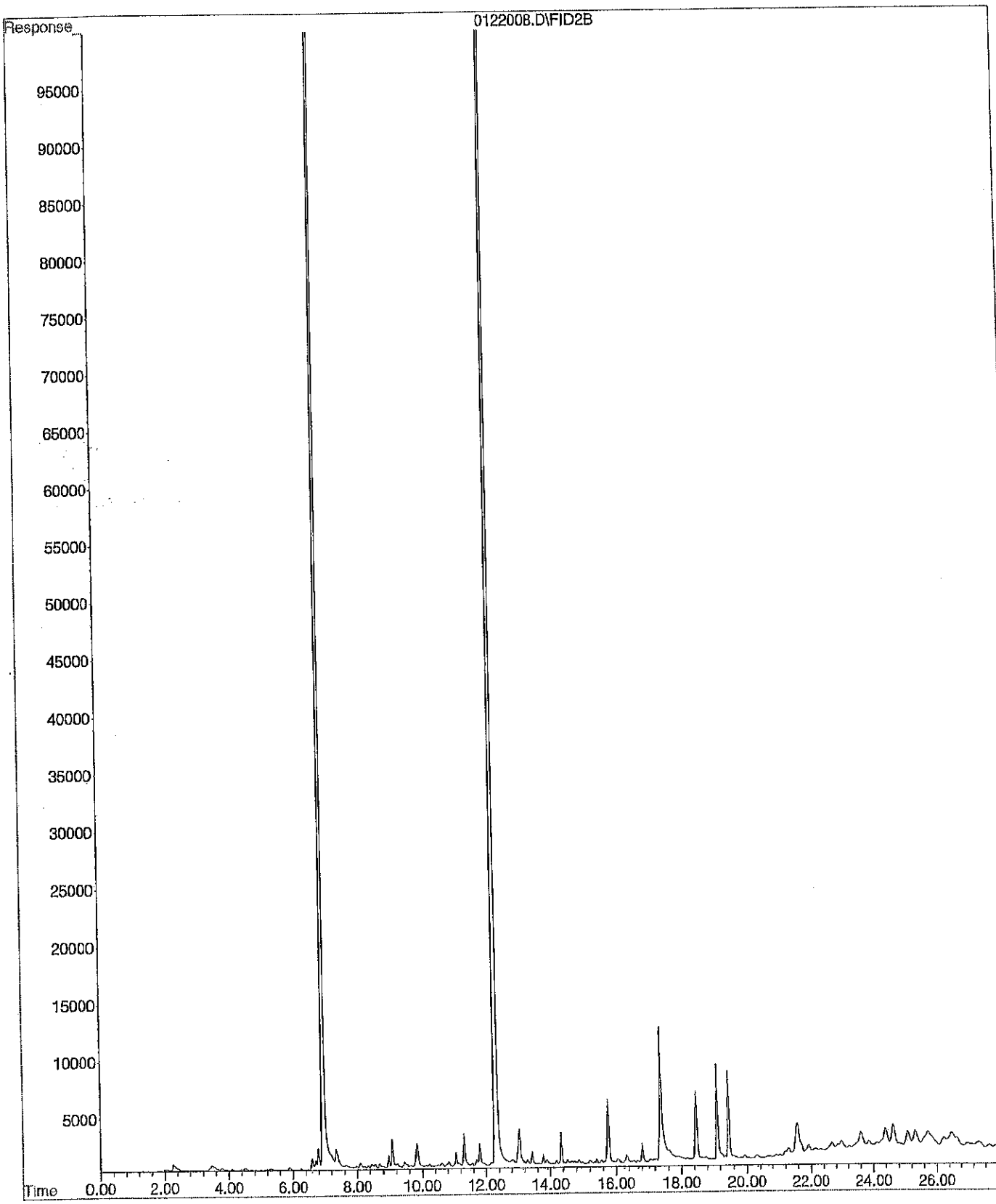
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3879652	56.033 PPB
5)	S	BROMOFLUOROBENZENE	12.30	2419073	59.861 PPB
11)	S	FLUOROBENZENE #2	6.94	9985020	45.068 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	14599019	48.854 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	1135974	0.016 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3715565	0.046 PPM
3)	H	GASOLINE (9-24-14)	13.51	1463066	0.015 PPM
7)	H	entire GAS envelope #2 (9-	12.26	6865224	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3828963	N.D. PPM
9)		MTBE #2	4.67	3705	0.003 PPB
10)		BENZENE #2	6.70	28702	0.053 PPB
12)		TOLUENE #2	9.09	94685	0.163 PPB
13)		ETHYLBENZENE #2	11.05	51947	0.093 PPB
14)		m,p-XYLENE #2	11.31	126702	N.D. PPB
15)		o-XYLENE #2	11.80	91322	0.098 PPB

1/27/

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150122\0122008.D
Operator :
Acquired : 22 Jan 2015 18:27 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-126-01s
Misc Info : V2-36-17
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122009.D\FID1A.CH Vial: 9
Signal #2 : d:\btex\DATA\D150122\0122009.D\FID2B.CH
Acq On : 22 Jan 2015 19:06 Operator:
Sample : 01-126-01s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 22 19:35 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

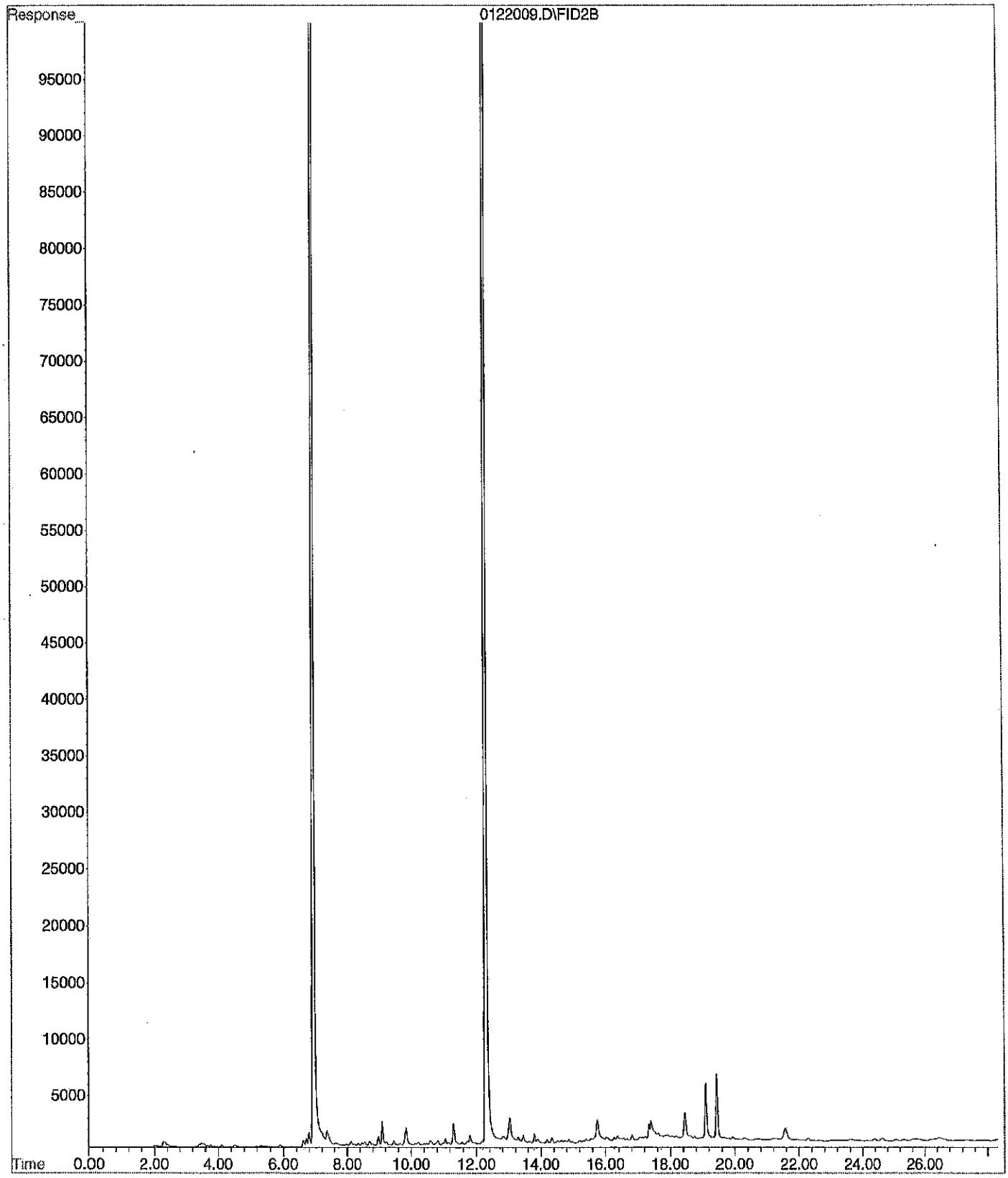
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	4016600	58.023	PPB
5)	S	BROMOFLUOROBENZENE	12.30	2501089	61.910	PPB
11)	S	FLUOROBENZENE #2	6.94	10248199	46.264	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	15098268	50.541	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1130291	0.016	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3435000	0.041	PPM
3)	H	GASOLINE (9-24-14)	13.51	1419913	0.014	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6196977	N.D.	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	3443024	N.D.	PPM
9)		MTBE #2	4.73	792	N.D.	PPB
10)		BENZENE #2	6.71	27277	0.049	PPB
12)		TOLUENE #2	9.09	85105	0.129	PPB
13)		ETHYLBENZENE #2	11.06	25187	N.D.	PPB
14)		m,p-XYLENE #2	11.31	95343	N.D.	PPB
15)		o-XYLENE #2	11.80	67709	0.004	PPB

1/23

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150122\0122009.D
Operator :
Acquired : 22 Jan 2015 19:06 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-126-01s DUP
Misc Info : V2-36-17
Vial Number: 9



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D150122\0122006.D\FID2B.CH
Acq On : 22 Jan 2015 17:09 Operator:
Sample : SB0122S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 22 17:37 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

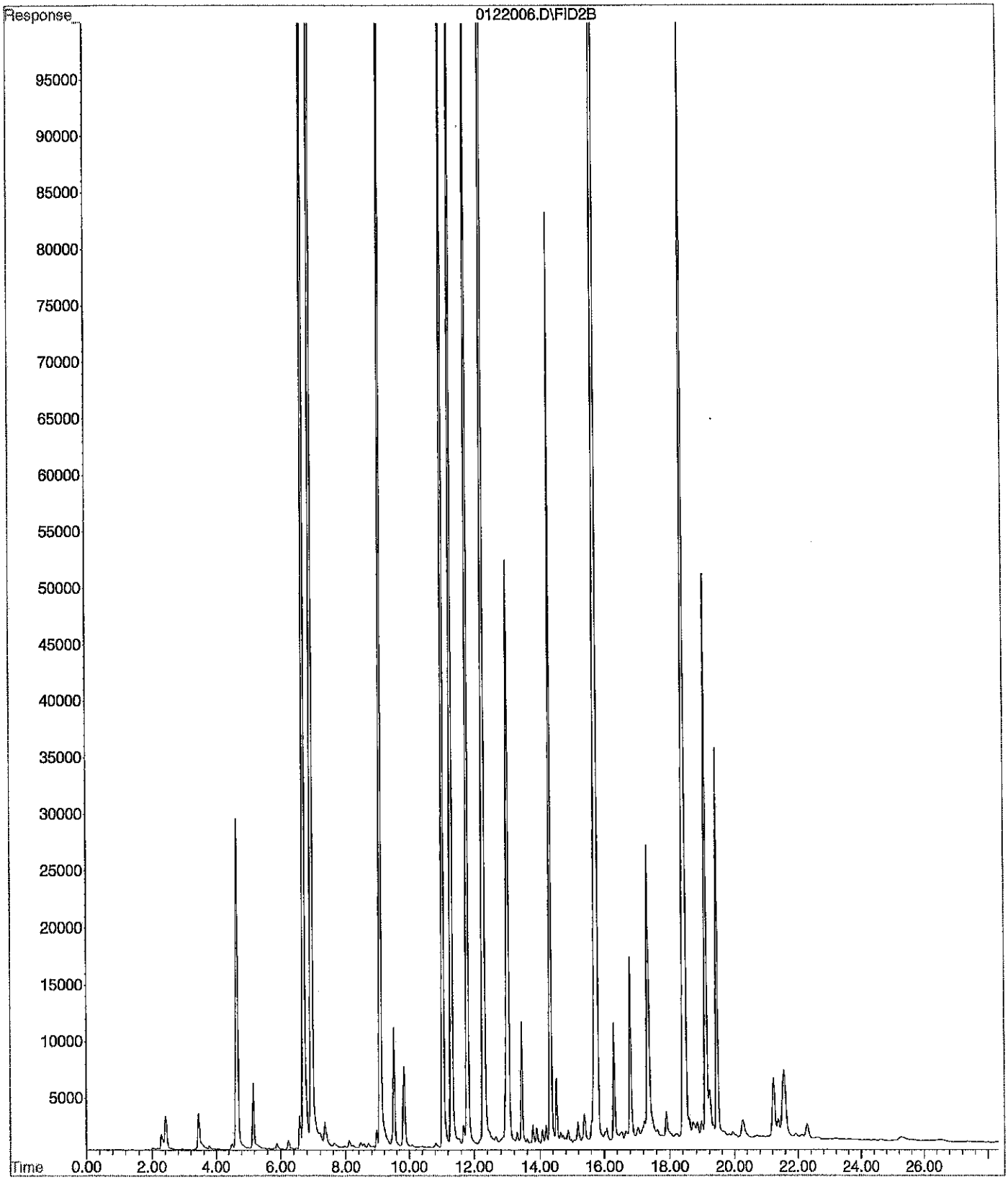
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3298636	47.592 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1685448	41.533 PPB
11)	S	FLUOROBENZENE #2	6.94	8570763	38.638 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	10560390	35.212 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	12546897	0.248 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	24173380	0.359 PPM
3)	H	GASOLINE (9-24-14)	13.51	14599605	0.348 PPM
7)	H	entire GAS envelope #2 (9-	12.26	62162143	0.384 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	42148816	0.325 PPM
9)		MTBE #2	4.66	1424578	19.461 PPB
10)		BENZENE #2	6.70	5822940	19.798 PPB
12)		TOLUENE #2	9.08	5507722	19.641 PPB
13)		ETHYLBENZENE #2	11.05	4522093	18.297 PPB
14)		m,p-XYLENE #2	11.31	5523866	18.496 PPB
15)		o-XYLENE #2	11.80	4555565	17.940 PPB

1/23/

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150122\0122006.D
Operator :
Acquired : 22 Jan 2015 17:09 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SB0122S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D150122\0122007.D\FID2B.CH
Acq On : 22 Jan 2015 17:48 Operator:
Sample : SBD0122S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 22 18:16 2015 Quant Results File: 141012DB.RES

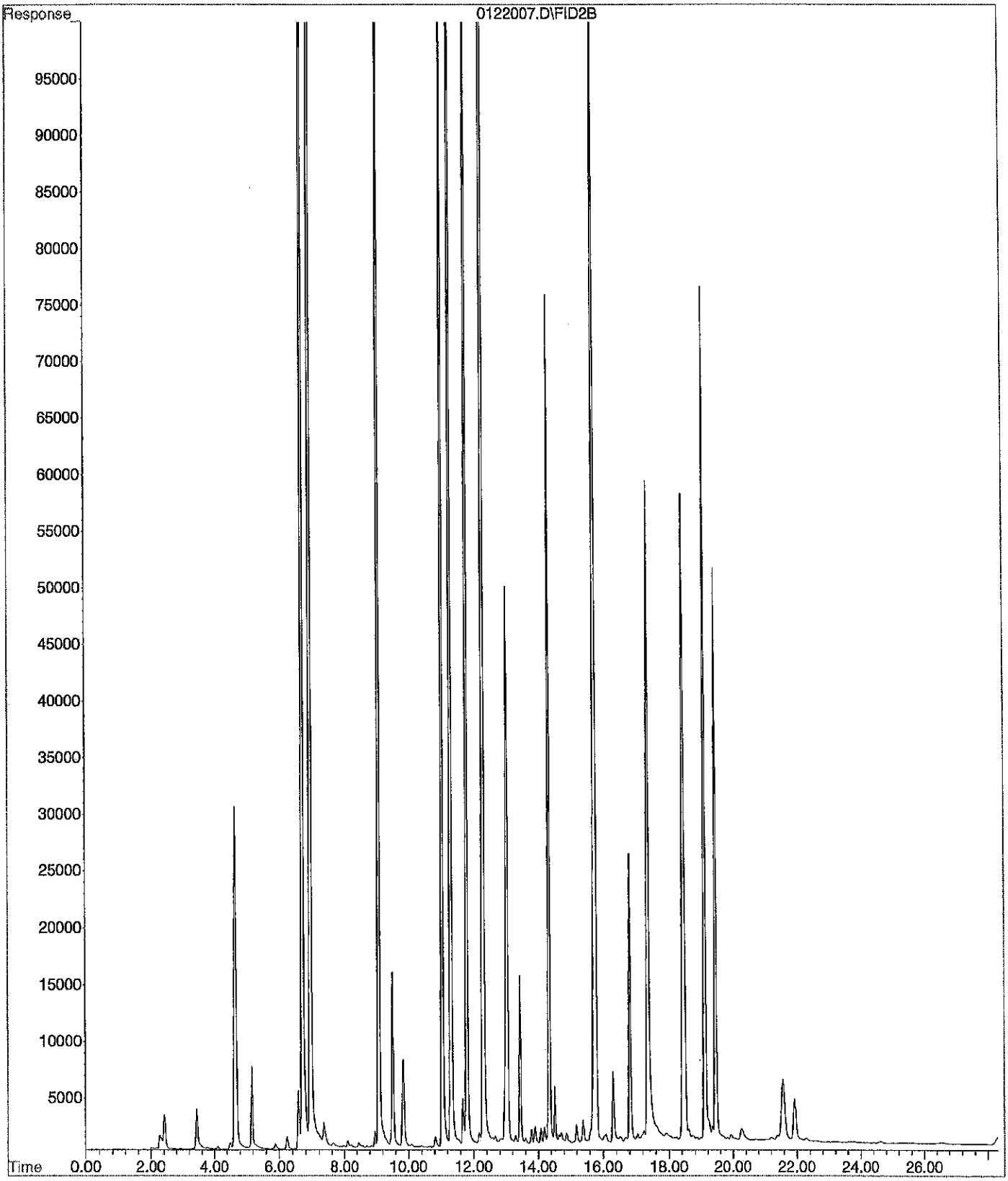
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3381369	48.794 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1703131	41.975 PPB
11)	S	FLUOROBENZENE #2	6.94	8829256	39.813 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	10447311	34.830 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	13285201	0.263 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	24052738	0.357 PPM
3)	H	GASOLINE (9-24-14)	13.51	14912572	0.356 PPM
7)	H	entire GAS envelope #2 (9-	12.26	57970849	0.355 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	39745513	0.303 PPM
9)		MTBE #2	4.65	1474639	20.147 PPB
10)		BENZENE #2	6.70	5976625	20.321 PPB
12)		TOLUENE #2	9.08	5537693	19.749 PPB
13)		ETHYLBENZENE #2	11.05	4685111	18.960 PPB
14)		m,p-XYLENE #2	11.31	5652707	18.940 PPB
15)		o-XYLENE #2	11.80	4644046	18.294 PPB

1/23

File : X:\BTEX\DARYL\DATA\D150122\0122007.D
Operator :
Acquired : 22 Jan 2015 17:48 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: SBD0122S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 7



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150122\0122001.D\FID2B.CH
Acq On : 22 Jan 2015 13:37 Operator:
Sample : CCVD0122G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 22 14:05 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

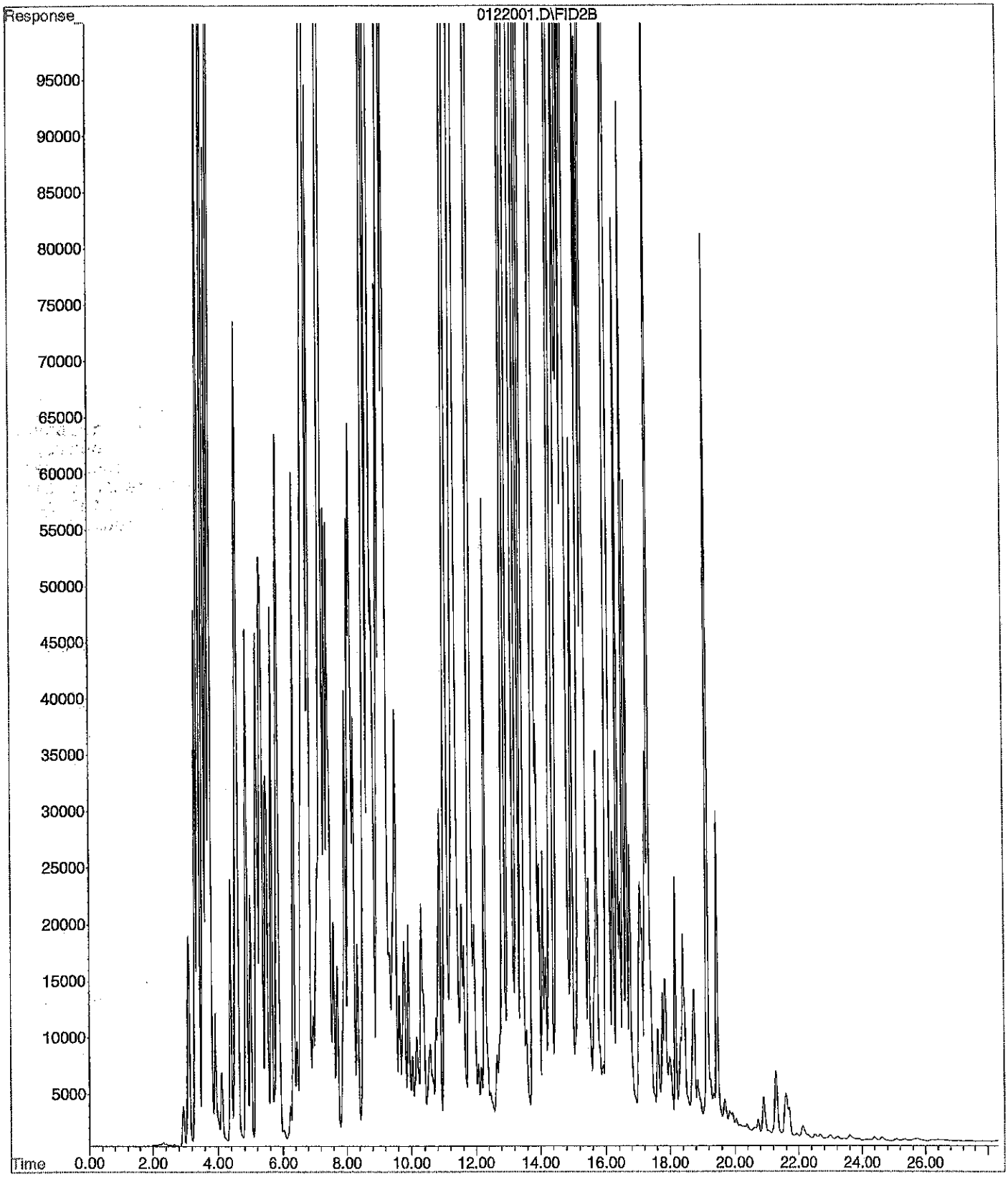
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.84	7948760	115.150	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1027942	25.107	PPB
11)	S	FLUOROBENZENE #2	6.97	502151	1.953	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2505367	8.001	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	297009190	6.027	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	401873609	6.145	PPM
3)	H	GASOLINE (9-24-14)	13.51	229197647	5.777	PPM
7)	H	entire GAS envelope #2 (9-	12.26	708959867	4.889	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	533552085	4.804	PPM
9)		MTBE #2	4.57	3944457	53.970	PPB
10)		BENZENE #2	6.70	48108677	163.889	PPB
12)		TOLUENE #2	9.09	118288863	425.468	PPB
13)		ETHYLBENZENE #2	11.05	30179698	122.778	PPB
14)		m,p-XYLENE #2	11.31	106844958	367.803	PPB
15)		o-XYLENE #2	11.80	42138133	168.147	PPB

1/23

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150122\0122001.D
Operator :
Acquired : 22 Jan 2015 13:37 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0122G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122031.D\FID1A.CH Vial: 31
Signal #2 : d:\btex\DATA\D150122\0122031.D\FID2B.CH
Acq On : 23 Jan 2015 9:29 Operator:
Sample : CCVD0122G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

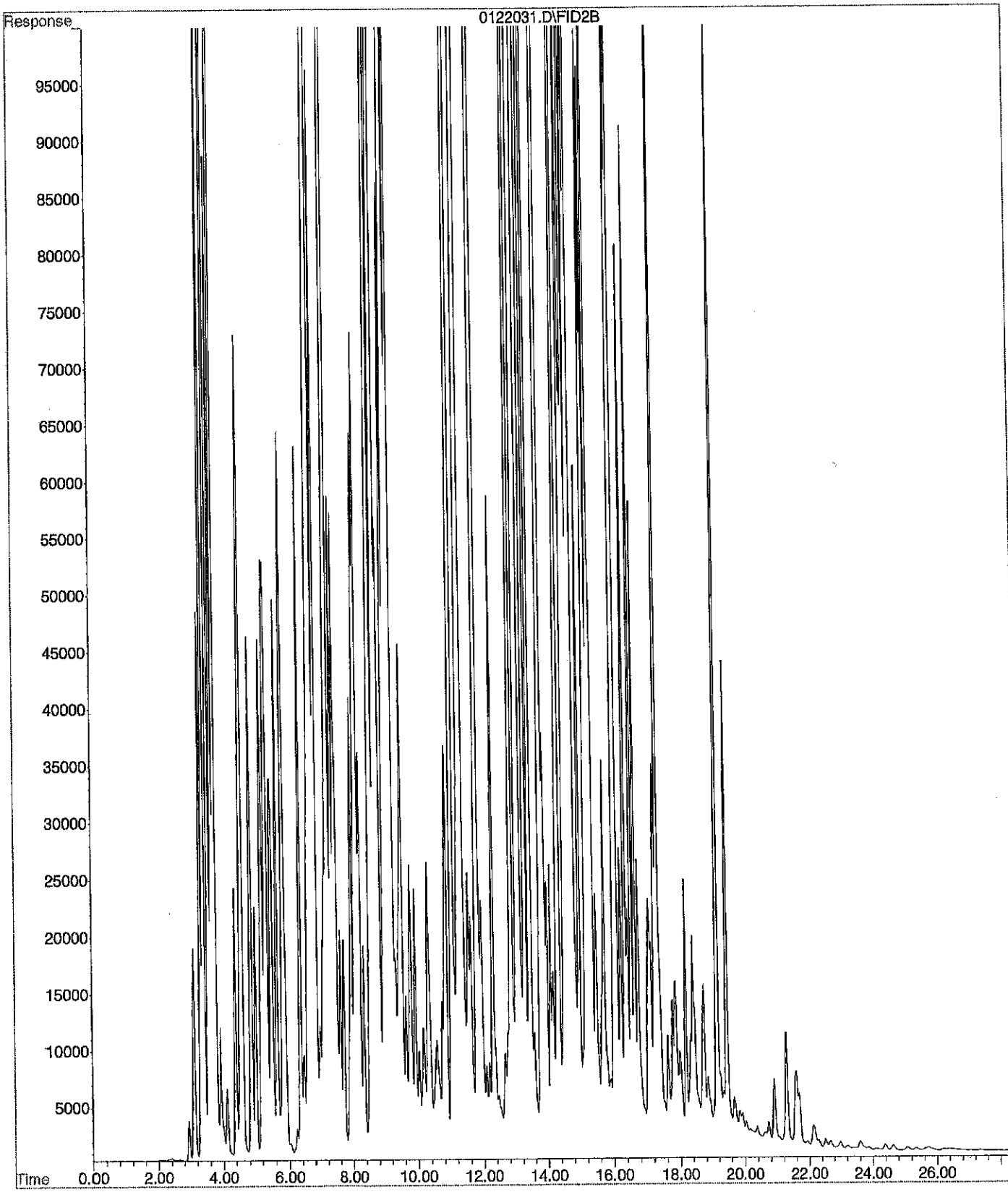
Quant Time: Jan 23 9:58 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.83	8211616	118.969	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1388190	34.107	PPB
11)	S	FLUOROBENZENE #2	6.96	512410	1.999	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2635345	8.440	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	303502729	6.159	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	408951171	6.253	PPM
3)	H	GASOLINE (9-24-14)	13.51	234058012	5.900	PPM
7)	H	entire GAS envelope #2 (9-	12.26	718285768	4.954	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	536958861	4.835	PPM
9)		MTBE #2	4.57	4004592	54.794	PPB
10)		BENZENE #2	6.70	48642589	165.708	PPB
12)		TOLUENE #2	9.09	118976016	427.941	PPB
13)		ETHYLBENZENE #2	11.05	30450227	123.880	PPB
14)		m,p-XYLENE #2	11.31	106769310	367.543	PPB
15)		o-XYLENE #2	11.80	42441759	169.361	PPB

File : X:\BTEX\DARYL\DATA\D150122\0122031.D
Operator :
Acquired : 23 Jan 2015 9:29 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0122G-2
Misc Info : V2-36-08
Vial Number: 31



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150122\0122002.D\FID2B.CH
Acq On : 22 Jan 2015 14:15 Operator:
Sample : CCVD0122B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

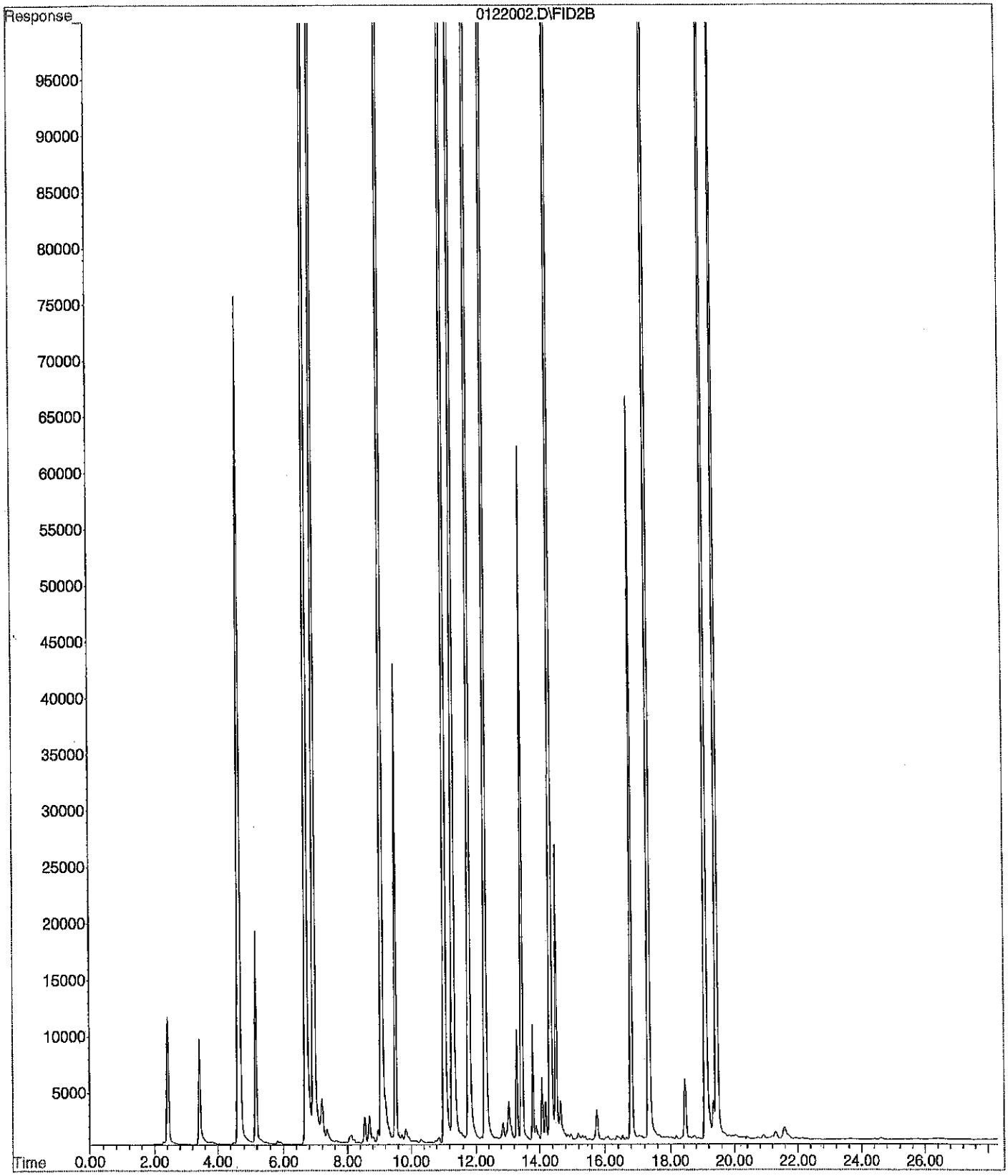
Quant Time: Jan 22 14:44 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3198154	46.132 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1902084	46.945 PPB
11)	S	FLUOROBENZENE #2	6.94	8264805	37.247 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	11334254	37.826 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	31475240	0.633 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	53382093	0.806 PPM
3)	H	GASOLINE (9-24-14)	13.51	36262218	0.896 PPM
7)	H	entire GAS envelope #2 (9-	12.26	115992277	0.759 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	82739366	0.695 PPM
9)		MTBE #2	4.65	3536984	48.390 PPB
10)		BENZENE #2	6.70	14529903	49.467 PPB
12)		TOLUENE #2	9.08	13703197	49.132 PPB
13)		ETHYLBENZENE #2	11.05	11942038	48.512 PPB
14)		m,p-XYLENE #2	11.31	14782461	50.416 PPB
15)		o-XYLENE #2	11.80	12218997	48.569 PPB

File : X:\BTEX\DARYL\DATA\D150122\0122002.D
Operator :
Acquired : 22 Jan 2015 14:15 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0122B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150122\0122014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D150122\0122014.D\FID2B.CH
Acq On : 22 Jan 2015 22:22 Operator:
Sample : CCVD0122B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

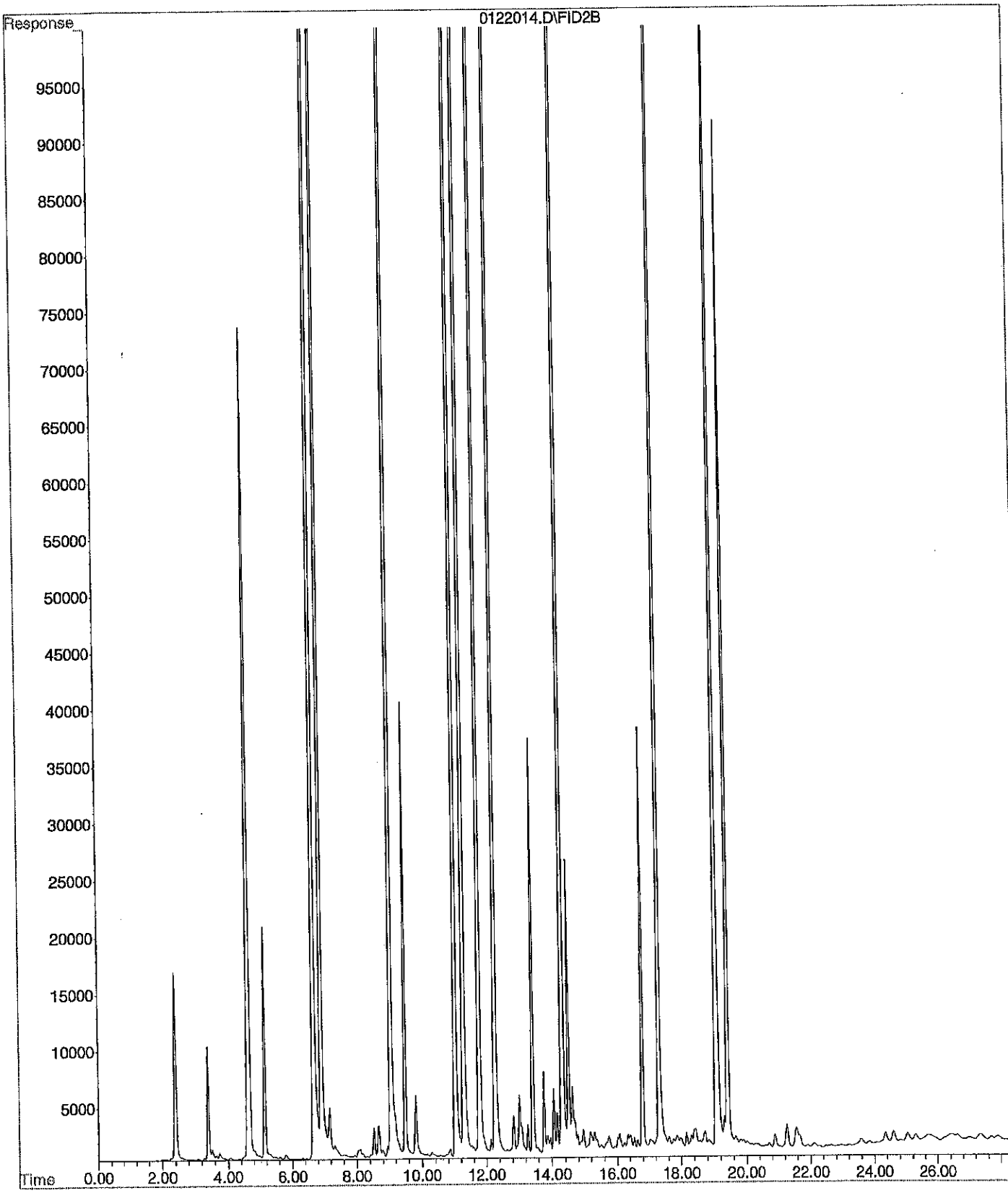
Quant Time: Jan 22 22:50 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3204833	46.229	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1870680	46.160	PPB
11)	S	FLUOROBENZENE #2	6.91	8353945	37.652	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11285413	37.661	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	30597379	0.615	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50137074	0.757	PPM
3)	H	GASOLINE (9-24-14)	13.51	33222777	0.819	PPM
7)	H	entire GAS envelope #2 (9-	12.26	112264672	0.733	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	80326958	0.673	PPM
9)		MTBE #2	4.62	3426483	46.877	PPB
10)		BENZENE #2	6.67	14367257	48.913	PPB
12)		TOLUENE #2	9.06	13532729	48.518	PPB
13)		ETHYLBENZENE #2	11.02	11562344	46.966	PPB
14)		m,p-XYLENE #2	11.29	14030061	47.822	PPB
15)		o-XYLENE #2	11.78	11694406	46.472	PPB

File : X:\BTEX\DARYL\DATA\D150122\0122014.D
Operator :
Acquired : 22 Jan 2015 22:22 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0122B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 14



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126007.D Vial: 7
Acq On : 26 Jan 2015 14:08 Operator:
Sample : 01-126-02 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 29 12:14 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.13	2583081	33.976	PPB
11)	S	BROMOFLUOROBENZENE #2	14.73	3350575	41.818	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.38	884508	N.D.	PPM
3)	H	GASOLINE #2	15.03	184284	N.D.	PPM
4)		MTBE #2	6.69	2179	0.055	PPB
5)		BENZENE #2	8.91	7666	0.063	PPB
7)		TOLUENE #2	11.40	32376	0.340	PPB
8)		ETHYLBENZENE #2	13.46	11046	0.146	PPB
9)		m,p-XYLENE #2	13.70	37998	0.374	PPB
10)		o-XYLENE #2	14.23	12944	0.142	PPB

Quantitation Report (Not Reviewed)

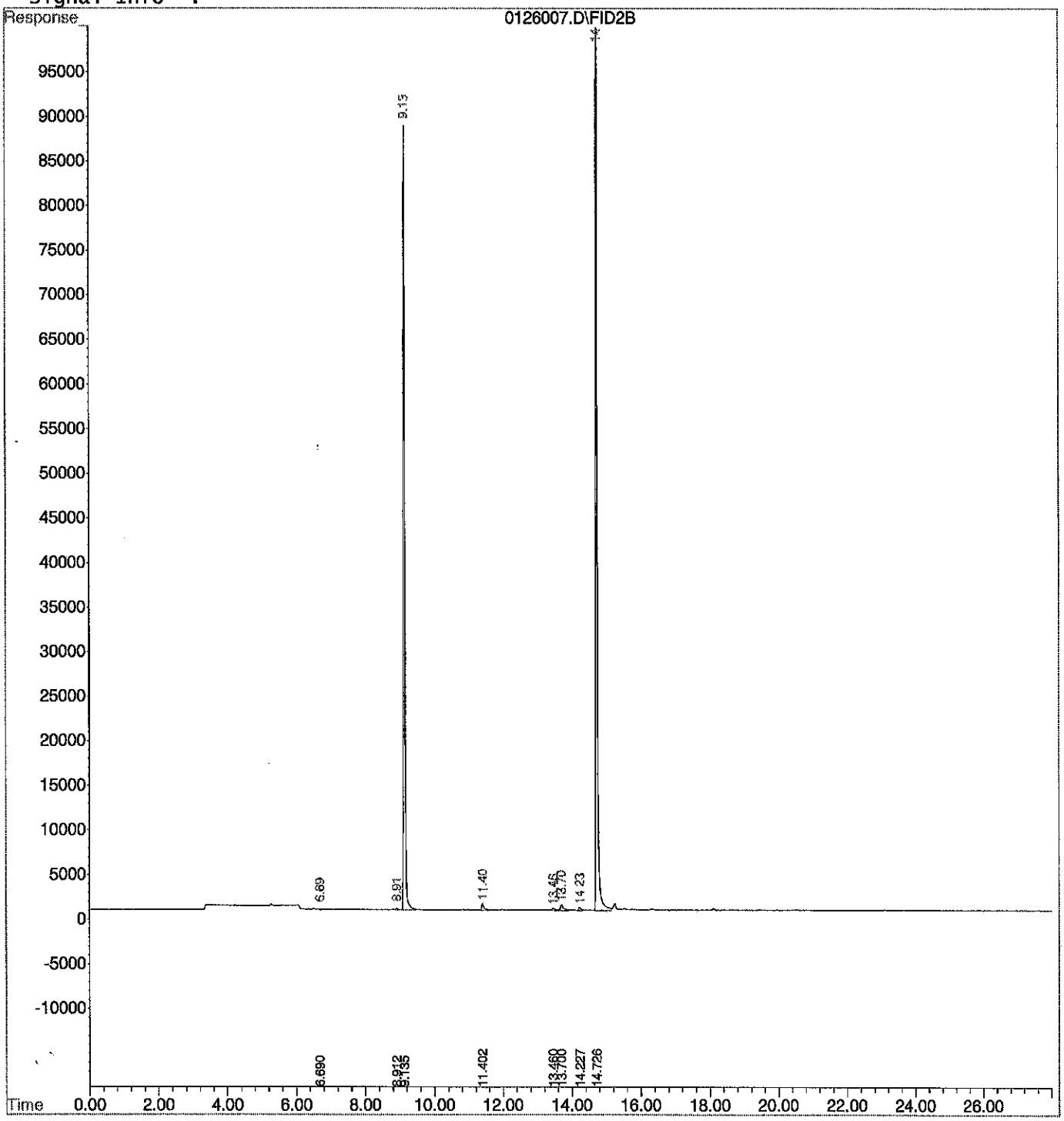
Data File : X:\BTEX\HOPE\DATA\H150126\0126007.D Vial: 7
Acq On : 26 Jan 2015 14:08 Operator:
Sample : 01-126-02 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 29 12:14 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126004.D Vial: 4
Acq On : 26 Jan 2015 12:25 Operator:
Sample : MB0126W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 12:53 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.12	2637802	34.700 PPB
11)	S	BROMOFLUOROBENZENE #2	14.71	3412870	42.603 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	1382571	N.D. PPM
3)	H	GASOLINE #2	14.96	484880	N.D. PPM
4)		MTBE #2	6.63	840	0.024 PPB
5)		BENZENE #2	8.90	12733	0.111 PPB
7)		TOLUENE #2	11.38	75842	0.836 PPB
8)		ETHYLBENZENE #2	13.43	26100	0.360 PPB
9)		m,p-XYLENE #2	13.67	62894	0.684 PPB
10)		o-XYLENE #2	14.20	24207	0.309 PPB

Quantitation Report (Not Reviewed)

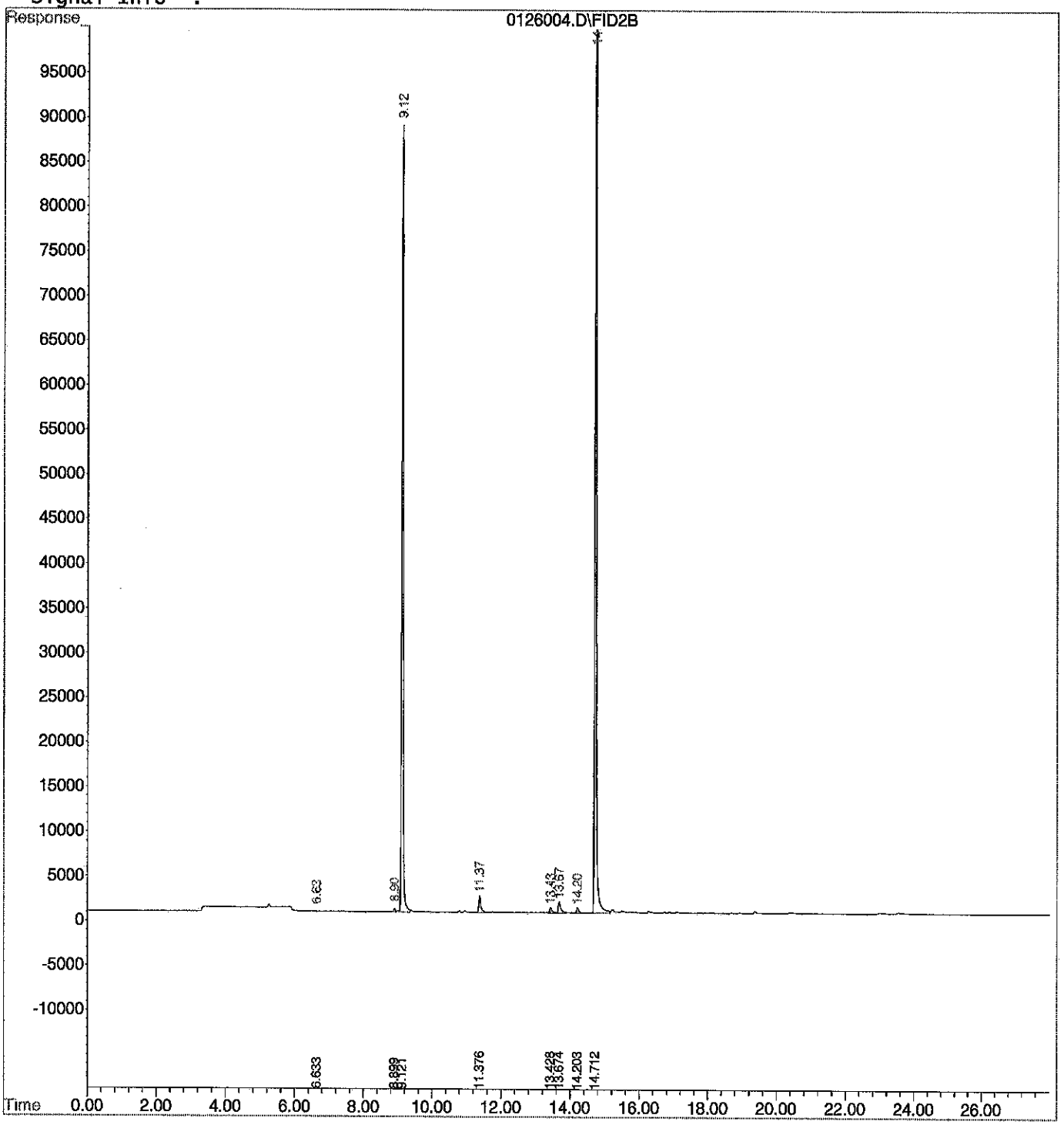
Data File : X:\BTEX\HOPE\DATA\H150126\0126004.D Vial: 4
Acq On : 26 Jan 2015 12:25 Operator:
Sample : MB0126W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 12:53 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126012.D Vial: 12
Acq On : 26 Jan 2015 17:00 Operator:
Sample : 01-127-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:56 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
6)	S	FLUOROBENZENE #2	9.10	2469159	32.468	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.70	3246300	40.504	PPB	
Target Compounds							
2)	H	Entire GAS Envelope #2	14.31	1034845	N.D.	PPM	
3)	H	GASOLINE #2	14.96	210767	N.D.	PPM	
4)		MTBE #2	6.64	728	0.022	PPB	
5)		BENZENE #2	8.89	4291	0.032	PPB	
7)		TOLUENE #2	11.38	12201	0.110	PPB	
8)		ETHYLBENZENE #2	13.45	4662	0.055	PPB	m
9)		m,p-XYLENE #2	13.68	19104	0.138	PPB	
10)		o-XYLENE #2	14.21	8948	0.082	PPB	m

1/29

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

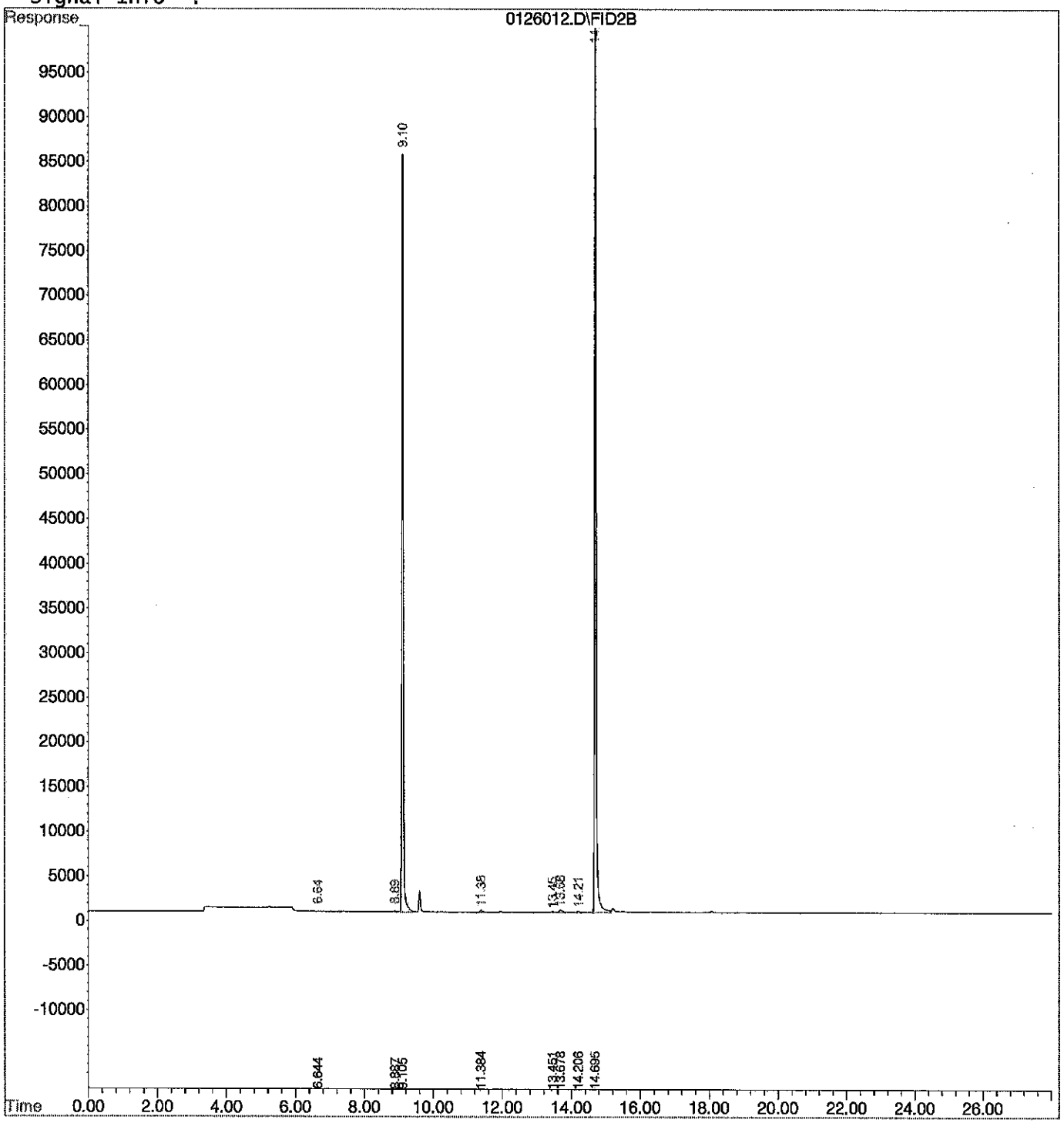
Data File : X:\BTEX\HOPE\DATA\H150126\0126012.D Vial: 12
Acq On : 26 Jan 2015 17:00 Operator:
Sample : 01-127-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:56 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126016.D Vial: 16
Acq On : 26 Jan 2015 19:13 Operator:
Sample : 01-127-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:58 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
6)	S	FLUOROBENZENE #2	9.10	2492761	32.780	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.69	3278746	40.913	PPB	
		Target Compounds					
2)	H	Entire GAS Envelope #2	14.31	958972	N.D.	PPM	
3)	H	GASOLINE #2	14.96	195506	N.D.	PPM	
4)		MTBE #2	6.62	652	0.020	PPB	
5)		BENZENE #2	8.87	4978	0.038	PPB	
7)		TOLUENE #2	11.38	10259	0.088	PPB	m
8)		ETHYLBENZENE #2	13.45	3803	0.042	PPB	m
9)		m,p-XYLENE #2	13.68	15603	0.095	PPB	
10)		o-XYLENE #2	14.20	5395	0.029	PPB	

1/29

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

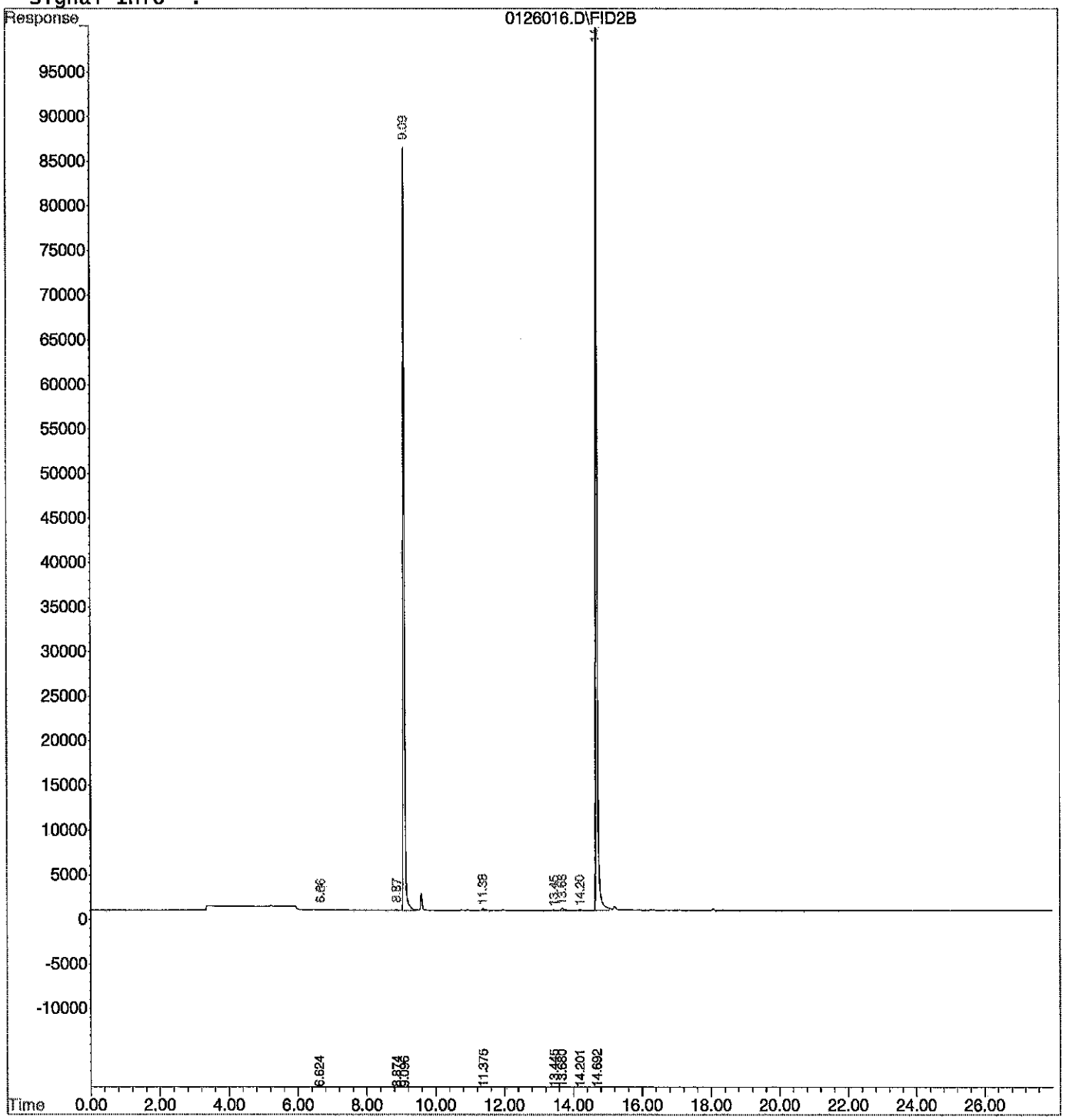
Data File : X:\BTEX\HOPE\DATA\H150126\0126016.D Vial: 16
Acq On : 26 Jan 2015 19:13 Operator:
Sample : 01-127-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:58 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126021.D\FID1A.CH Vial: 21
Signal #2 : d:\btex\DATA\D150126\0126021.D\FID2B.CH
Acq On : 26 Jan 2015 22:50 Operator:
Sample : 01-127-01c MS Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 23:18 2015 Quant Results File: 141012DB.RES

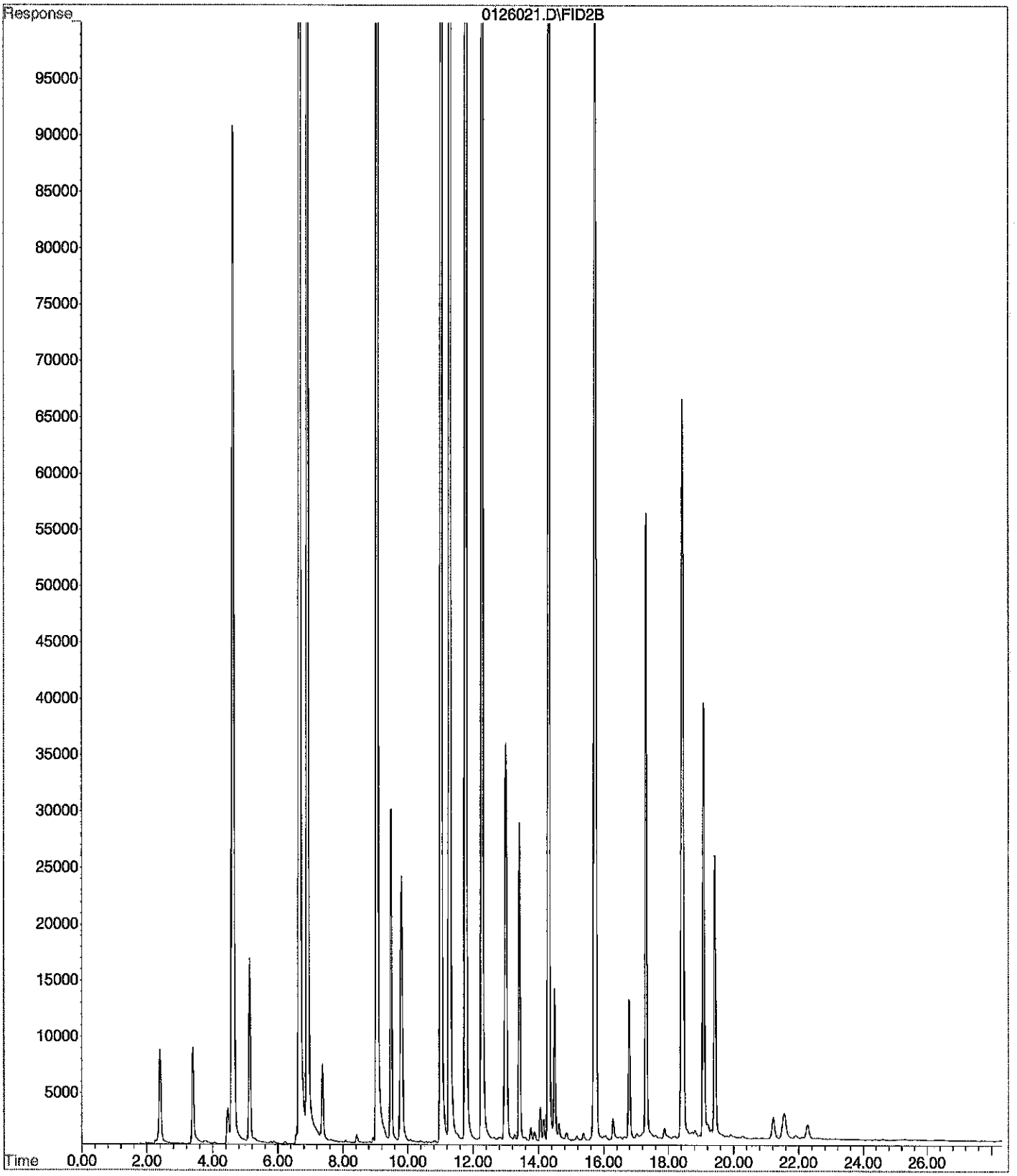
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3260154	47.033 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1687928	41.595 PPB
11)	S	FLUOROBENZENE #2	6.91	8321963	37.507 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	10074553	33.570 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28038253	0.563 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	41732389	0.628 PPM
3)	H	GASOLINE (9-24-14)	13.51	26636379	0.652 PPM
7)	H	entire GAS envelope #2 (9-	12.26	96650228	0.624 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	69155733	0.571 PPM
9)		MTBE #2	4.62	4397230	60.171 PPB
10)		BENZENE #2	6.67	14102236	48.010 PPB
12)		TOLUENE #2	9.05	13066747	46.841 PPB
13)		ETHYLBENZENE #2	11.02	10991270	44.640 PPB
14)		m,p-XYLENE #2	11.28	13103780	44.628 PPB
15)		o-XYLENE #2	11.77	10900196	43.298 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126021.D
Operator :
Acquired : 26 Jan 2015 22:50 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-127-01c MS
Misc Info : V2-36-23,V2-37-04
Vial Number: 21



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126022.D\FID1A.CH Vial: 22
Signal #2 : d:\btex\DATA\D150126\0126022.D\FID2B.CH
Acq On : 26 Jan 2015 23:23 Operator:
Sample : 01-127-01c MSD Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 23:51 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

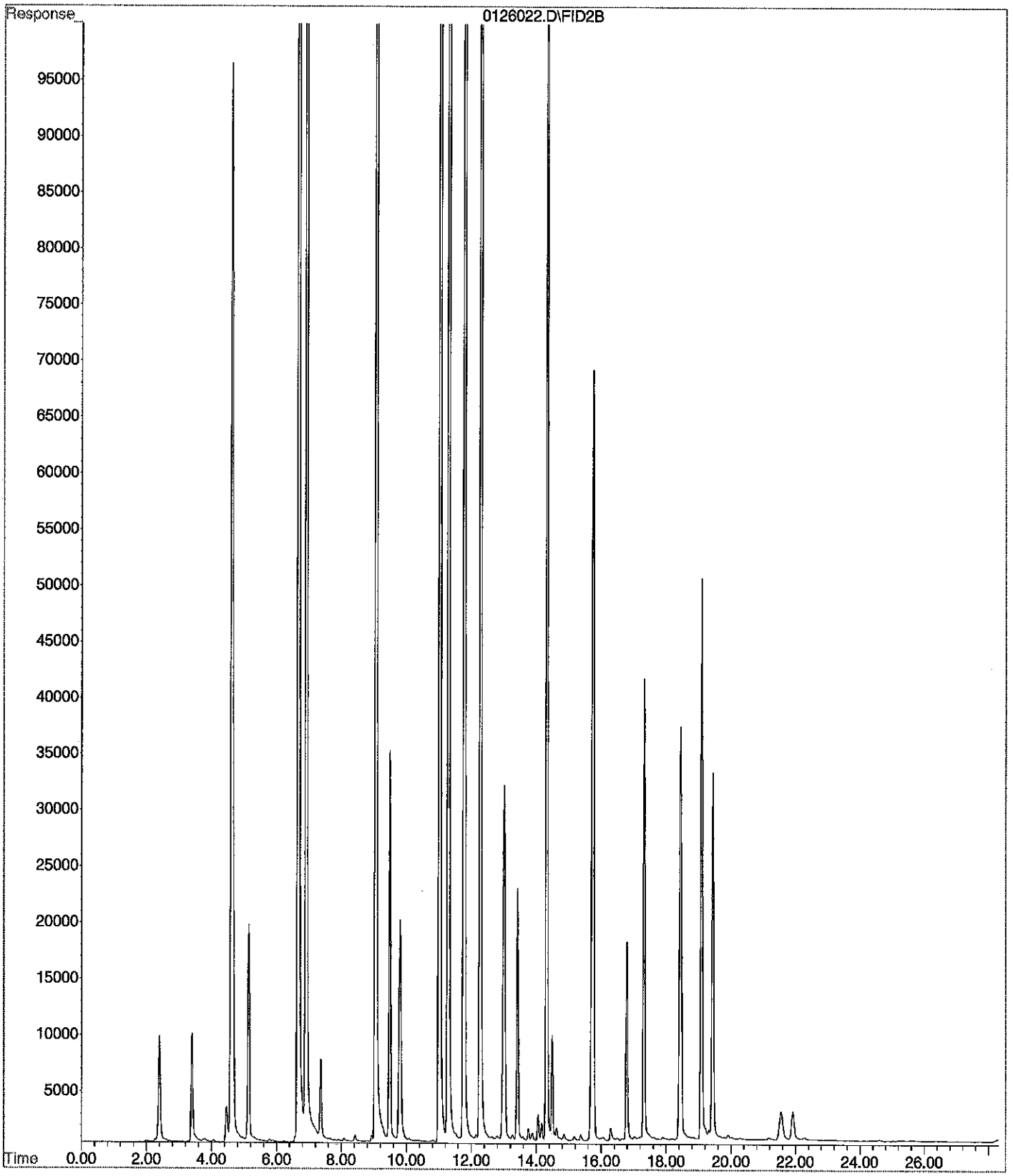
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3350808	48.350 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1618266	39.855 PPB
11)	S	FLUOROBENZENE #2	6.91	8682822	39.147 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	9788378	32.604 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28874111	0.580 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	40662685	0.612 PPM
3)	H	GASOLINE (9-24-14)	13.51	25632709	0.627 PPM
7)	H	entire GAS envelope #2 (9-	12.26	92479389	0.595 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	65553310	0.538 PPM
9)		MTBE #2	4.62	4527011	61.948 PPB
10)		BENZENE #2	6.67	14613876	49.753 PPB
12)		TOLUENE #2	9.05	13531862	48.515 PPB
13)		ETHYLBENZENE #2	11.02	11417345	46.375 PPB
14)		m,p-XYLENE #2	11.28	13557398	46.192 PPB
15)		o-XYLENE #2	11.77	11030055	43.817 PPB

1/27/15

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126022.D
Operator :
Acquired : 26 Jan 2015 23:23 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-127-01c MSD
Misc Info : V2-36-23,V2-37-04
Vial Number: 22



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126001.D Vial: 1
Acq On : 26 Jan 2015 10:43 Operator:
Sample : CCVH0126G-1 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 11:11 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.11	3229748	42.534	PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	4527059	56.637	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	167520043	4.857	PPM
3)	H	GASOLINE #2	14.96	131571310	4.897	PPM
4)		MTBE #2	6.67	52049	1.186	PPB
5)		BENZENE #2	8.88	12555020	118.577	PPB
7)		TOLUENE #2	11.35	36206597	412.971	PPB
8)		ETHYLBENZENE #2	13.38	7255890	103.303	PPB
9)		m,p-XYLENE #2	13.63	27392792	340.952	PPB
10)		o-XYLENE #2	14.16	10123470	150.510	PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126001.D
Acq On : 26 Jan 2015 10:43
Sample : CCVH0126G-1
Misc : V2-36-08

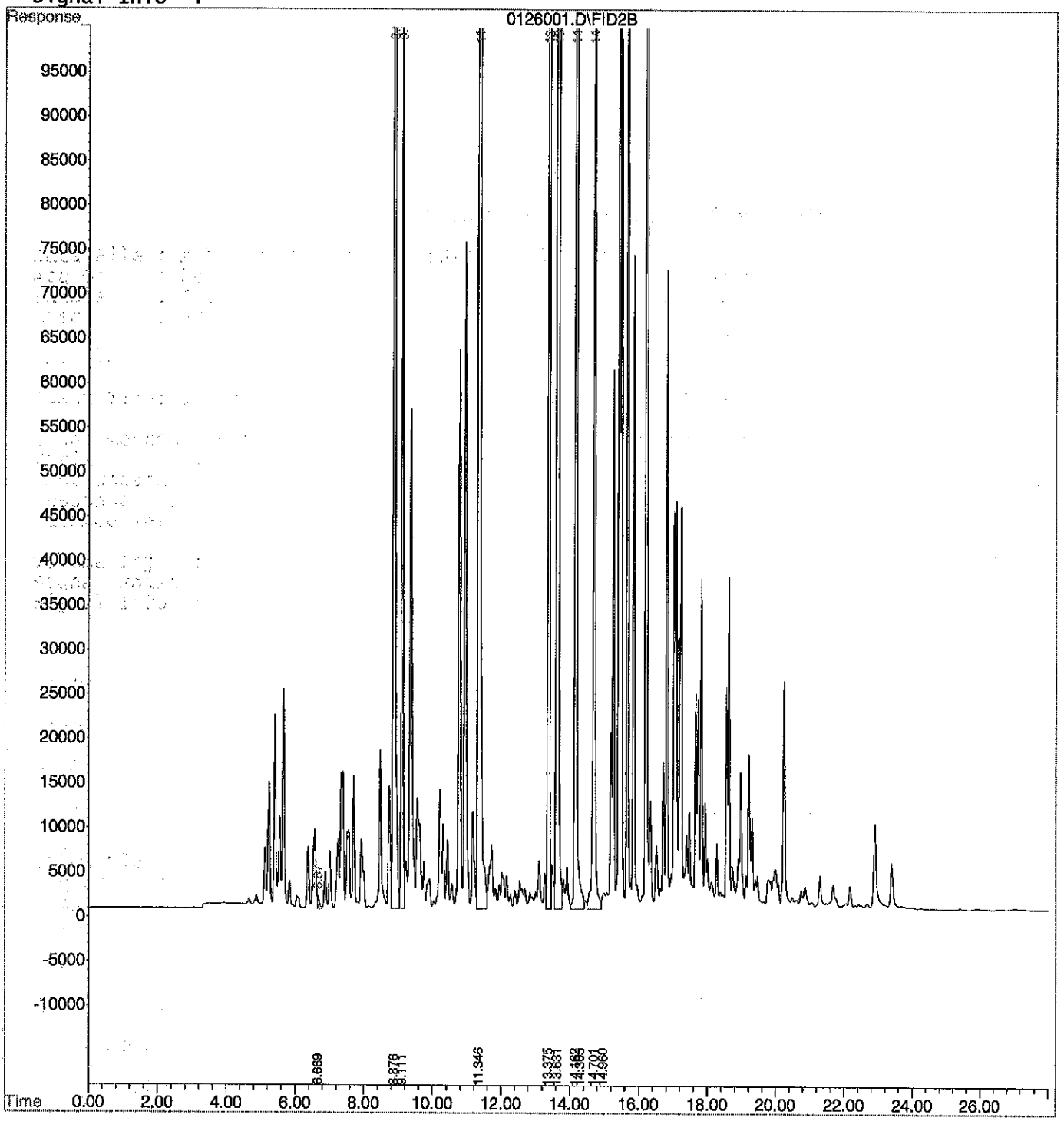
IntFile : EVENTS1.E

Vial: 1
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Jan 26 11:11 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126038.D Vial: 38
Acq On : 27 Jan 2015 7:21 Operator:
Sample : CCVH0126G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 27 7:49 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.10	2471976	32.505	PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3753776	46.897	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	152707792	4.423	PPM
3)	H	GASOLINE #2	14.96	122245306	4.548	PPM
4)		MTBE #2	6.55	419346	9.520	PPB
5)		BENZENE #2	8.87	12072598	114.020	PPB
7)		TOLUENE #2	11.34	34710032	395.900	PPB
8)		ETHYLBENZENE #2	13.37	6968994	99.218	PPB
9)		m,p-XYLENE #2	13.63	26277877	327.071	PPB
10)		o-XYLENE #2	14.16	9648052	143.440	PPB

Quantitation Report (Not Reviewed)

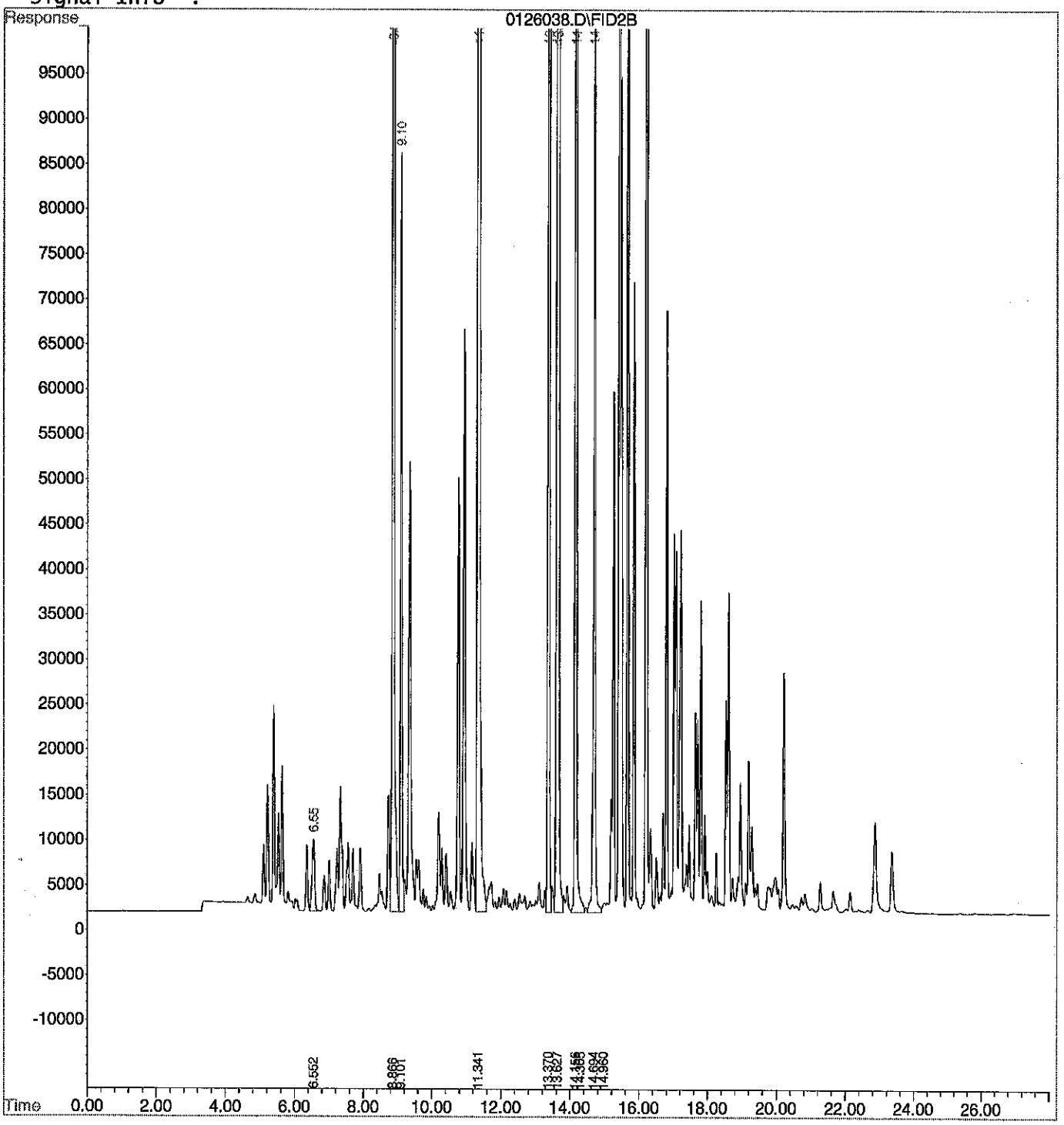
Data File : X:\BTEX\HOPE\DATA\H150126\0126038.D Vial: 38
Acq On : 27 Jan 2015 7:21 Operator:
Sample : CCVH0126G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 27 7:49 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126002.D Vial: 2
Acq On : 26 Jan 2015 11:17 Operator:
Sample : CCVH0126B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 26 11:45 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2683416	35.304 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	3395958	42.389 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	32712746	0.907 PPM
3)	H	GASOLINE #2	14.96	20890774	0.754 PPM
4)		MTBE #2	6.65	2027943	46.021 PPB
5)		BENZENE #2	8.87	4823905	45.554 PPB
7)		TOLUENE #2	11.34	4030052	45.941 PPB
8)		ETHYLBENZENE #2	13.37	3075899	43.785 PPB
9)		m,p-XYLENE #2	13.64	3631768	45.118 PPB
10)		o-XYLENE #2	14.16	2994680	44.487 PPB

Quantitation Report (Not Reviewed)

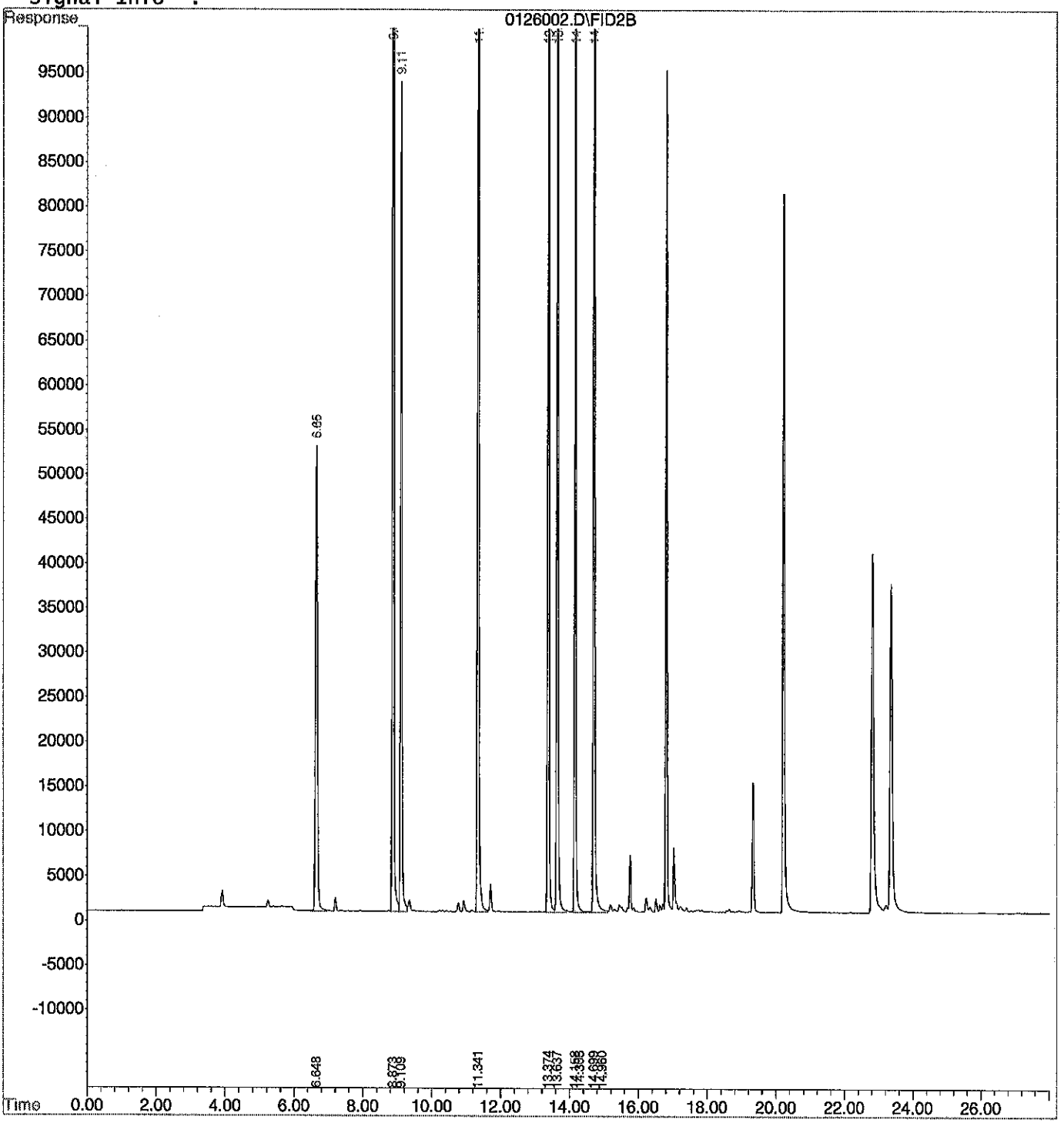
Data File : X:\BTEX\HOPE\DATA\H150126\0126002.D Vial: 2
Acq On : 26 Jan 2015 11:17 Operator:
Sample : CCVH0126B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 11:45 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126019.D Vial: 19
Acq On : 26 Jan 2015 20:53 Operator:
Sample : CCVH0126B-2 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 26 21:21 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
6)	S	FLUOROBENZENE #2	9.07	2482702	32.647	PPB
11)	S	BROMOFLUOROBENZENE #2	14.66	3268088	40.779	PPB
Target Compounds						
2)	H	Entire GAS Envelope #2	14.31	30866014	0.853	PPM
3)	H	GASOLINE #2	14.96	19619469	0.706	PPM
4)		MTBE #2	6.61	1974632	44.811	PPB
5)		BENZENE #2	8.83	4648842	43.901	PPB
7)		TOLUENE #2	11.30	3747214	42.714	PPB
8)		ETHYLBENZENE #2	13.34	3028578	43.111	PPB
9)		m,p-XYLENE #2	13.60	3496638	43.435	PPB
10)		o-XYLENE #2	14.12	2960105	43.973	PPB

Quantitation Report (Not Reviewed)

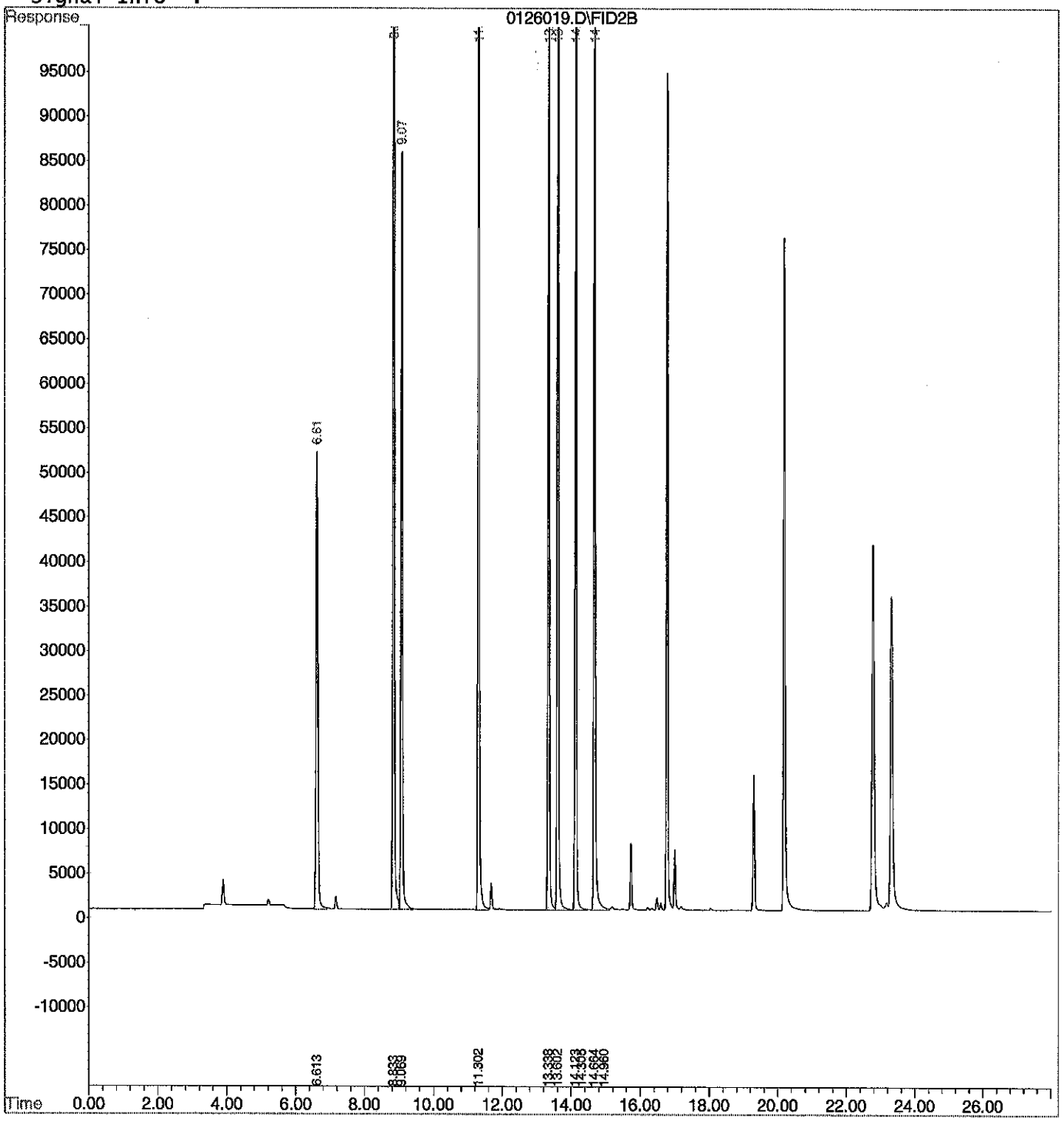
Data File : X:\BTEX\HOPE\DATA\H150126\0126019.D Vial: 19
Acq On : 26 Jan 2015 20:53 Operator:
Sample : CCVH0126B-2 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 21:21 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

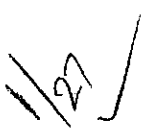
Signal #1 : d:\btex\DATA\D150126\0126017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150126\0126017.D\FID2B.CH
Acq On : 26 Jan 2015 20:38 Operator:
Sample : CCVD0126B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 21:06 2015 Quant Results File: 141012DB.RES

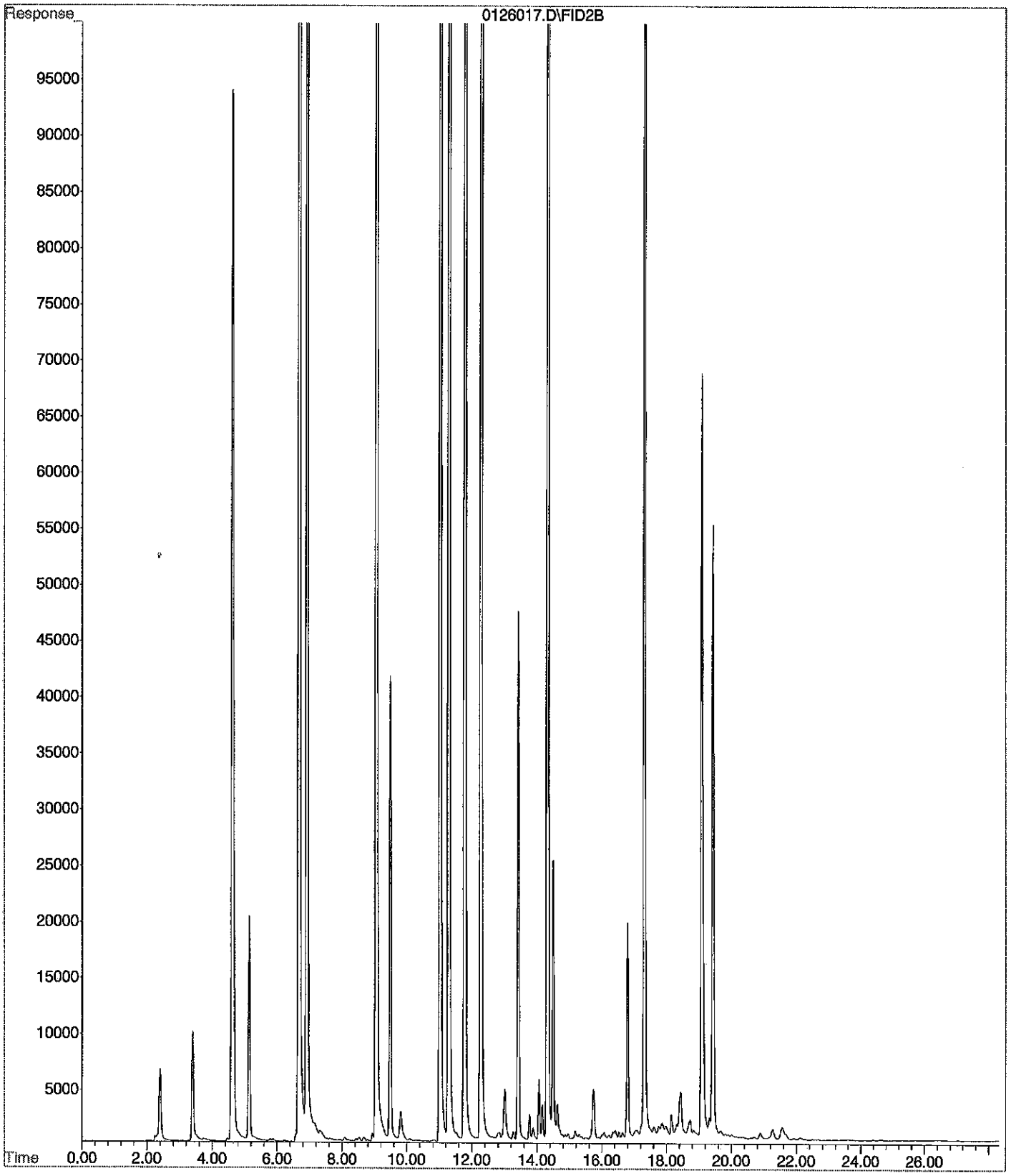
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3212566	46.342 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1863924	45.992 PPB
11)	S	FLUOROBENZENE #2	6.91	8447402	38.077 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11192530	37.347 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30070331	0.604 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48174174	0.727 PPM
3)	H	GASOLINE (9-24-14)	13.51	31689048	0.780 PPM
7)	H	entire GAS envelope #2 (9-	12.26	101570787	0.659 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	74433862	0.619 PPM
9)		MTBE #2	4.63	4439782	60.754 PPB
10)		BENZENE #2	6.67	14310773	48.720 PPB
12)		TOLUENE #2	9.06	13256939	47.526 PPB
13)		ETHYLBENZENE #2	11.02	11533263	46.847 PPB
14)		m,p-XYLENE #2	11.29	13812549	47.072 PPB
15)		o-XYLENE #2	11.77	11672756	46.386 PPB



File : X:\BTEX\DARYL\DATA\D150126\0126017.D
Operator :
Acquired : 26 Jan 2015 20:38 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126035.D\FID1A.CH Vial: 35
Signal #2 : d:\btex\DATA\D150126\0126035.D\FID2B.CH
Acq On : 27 Jan 2015 6:33 Operator:
Sample : CCVD0126B-3 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 27 7:01 2015 Quant Results File: 141012DB.RES

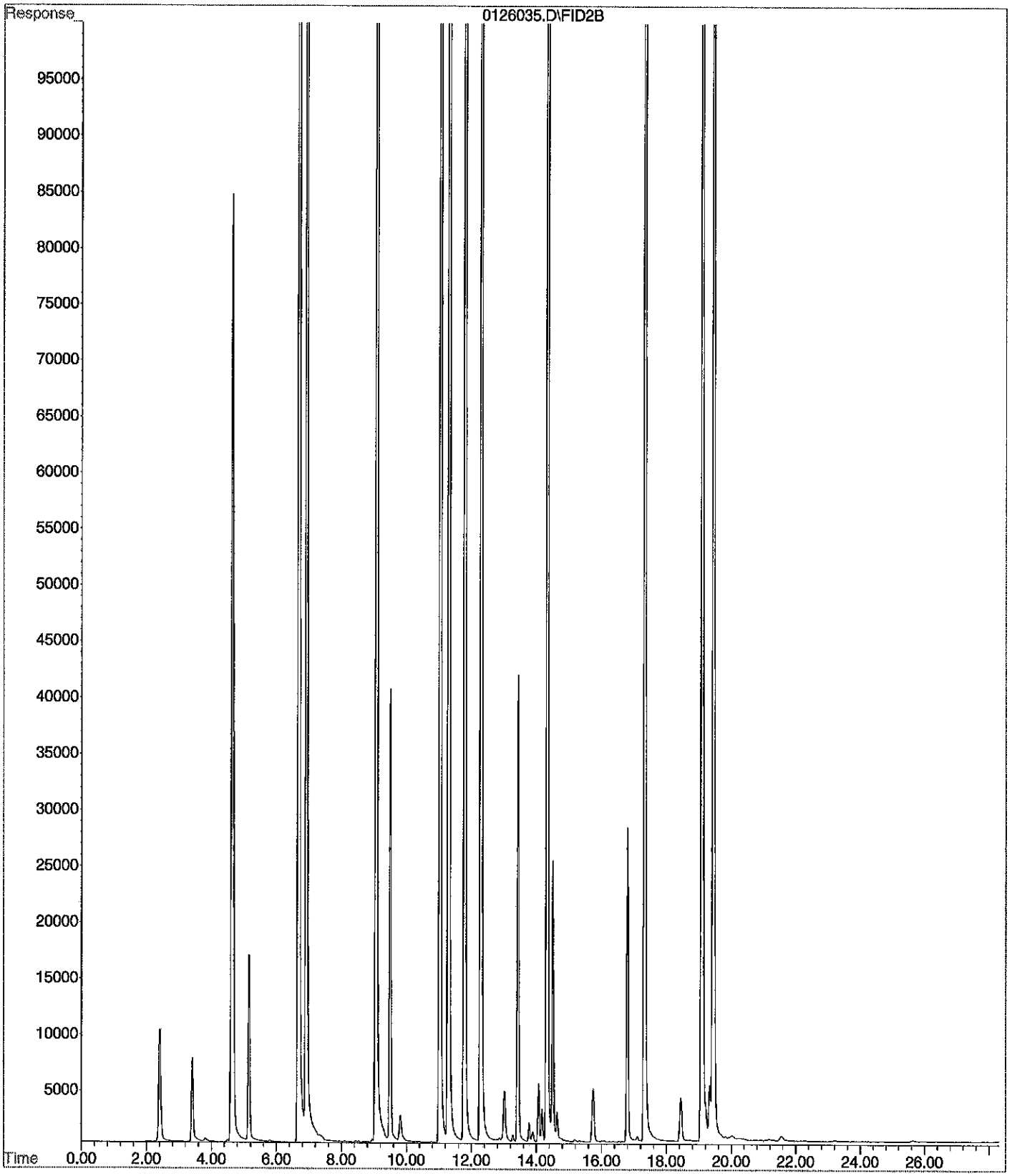
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3296802	47.565 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1942255	47.949 PPB
11)	S	FLUOROBENZENE #2	6.92	8545049	38.521 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11680900	38.997 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28597025	0.574 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48048686	0.725 PPM
3)	H	GASOLINE (9-24-14)	13.51	31799513	0.783 PPM
7)	H	entire GAS envelope #2 (9-	12.26	113052743	0.739 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	76348558	0.637 PPM
9)		MTBE #2	4.64	4079549	55.820 PPB
10)		BENZENE #2	6.68	13795532	46.965 PPB
12)		TOLUENE #2	9.07	12807157	45.907 PPB
13)		ETHYLBENZENE #2	11.03	11181678	45.415 PPB
14)		m,p-XYLENE #2	11.30	13375700	45.566 PPB
15)		o-XYLENE #2	11.78	11386385	45.241 PPB

1/27

File : X:\BTEX\DARYL\DATA\D150126\0126035.D
Operator :
Acquired : 27 Jan 2015 6:33 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-3
Misc Info : V2-36-23,V2-37-04
Vial Number: 35



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0122-V58.D
Sample : 01-126-01

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 18:17
Operator :
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 18:53:55 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.731	126375750	44.743	PPM
Spiked Amount	50.000		Recovery =	89.49%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	15974029	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	16263543	5.425	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	14725200	4.434	PPM
6) H	Oil (01-08-15)	22.000	51057446	11.514	PPM
7) H	Oil Acid Clean (01-0...	22.000	51057446	7.809	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	12934414	3.696	PPM
9) H	Oil Combo (01-08-15)	22.000	49384228	10.993	PPM
10) H	Oil Acid Clean Combo ...	22.000	49384228	7.097	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	16183167	1.068	PPM
12) H	Alaska 103 Oil (06-2...	22.000	23470855	10.160	PPM
13) H	Mineral Oil (10-06-14)	16.000	14130958	4.630	PPM
14) H	Bunker C ACU (Fuel O...	15.000	59919790	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	59919790	30.830	PPM
16) H	ALKANE C9-C40	12.666	64695353	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	8580616	3.088	PPM
18) H	Oil Acid Clean MO Com...	22.000	47892963	6.522	PPM
19) H	Oil MO Combo (01-08-15)	22.000	47892963	10.661	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

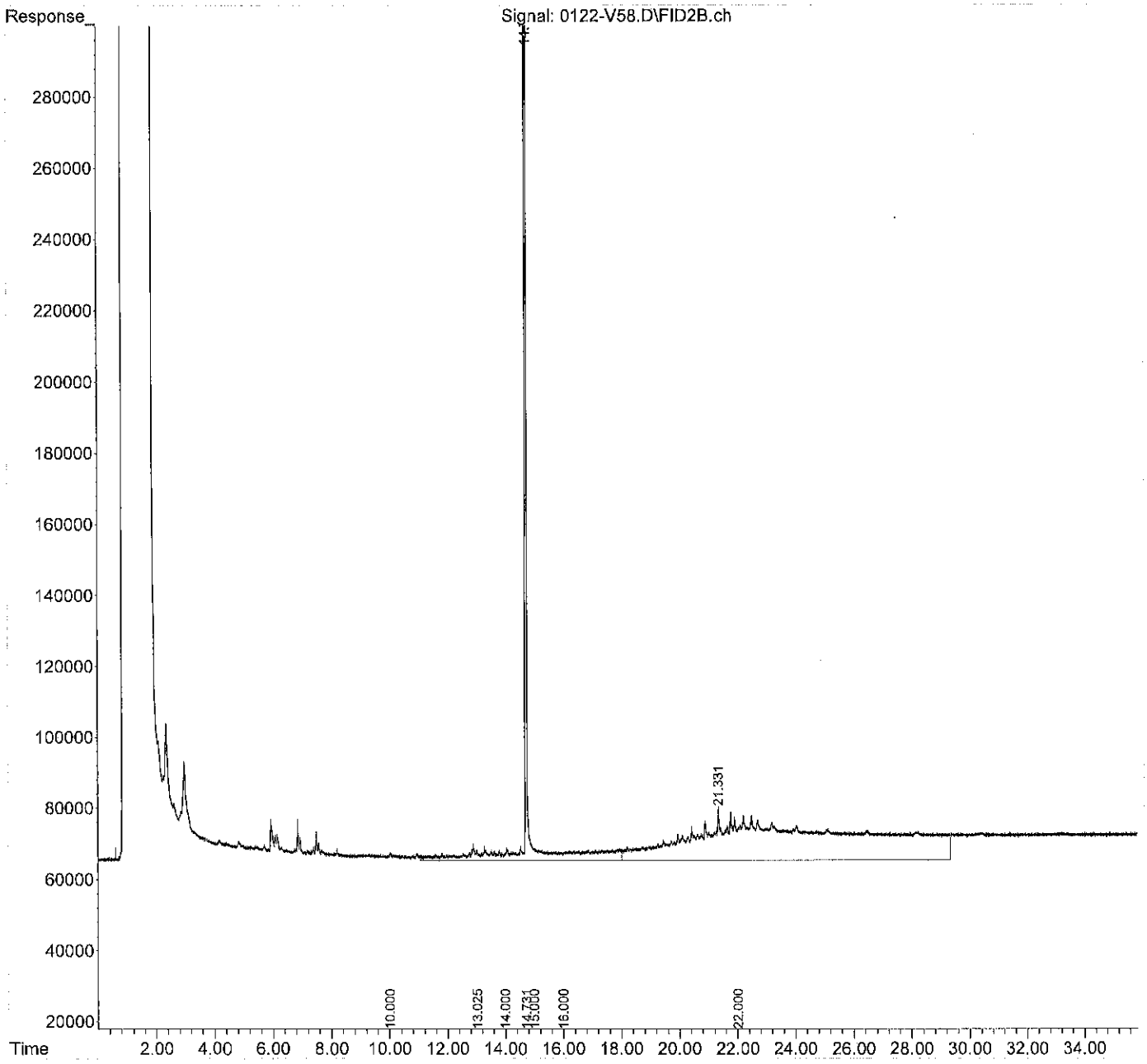
Quantitation Report (Not Reviewed)

Data File : 0122-V58.D
Sample : 01-126-01

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 18:17
Operator :
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 18:53:55 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0122-V59.D
Sample : 01-126-03

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 18:58
Operator :
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 19:34:30 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.730	115722866	40.960	PPM
Spiked Amount	50.000		Recovery =	81.92%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	15762938	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	22494165	8.237	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	28823859	11.263	PPM
6) H	Oil (01-08-15)	22.000	61122763	17.022	PPM
7) H	Oil Acid Clean (01-0...	22.000	61122763	13.796	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	25385774	9.840	PPM
9) H	Oil Combo (01-08-15)	22.000	53367406	13.224	PPM
10) H	Oil Acid Clean Combo ...	22.000	53367406	9.516	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	30273581	6.498	PPM
12) H	Alaska 103 Oil (06-2...	22.000	26477997	12.797	PPM
13) H	Mineral Oil (10-06-14)	16.000	30087066	11.333	PPM
14) H	Bunker C ACU (Fuel O...	15.000	76411646	12.510	PPM
15) H	Bunker C (Fuel Oil #...	15.000	76411646	43.452	PPM
16) H	ALKANE C9-C40	12.666	81035856	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	21851722	8.895	PPM
18) H	Oil Acid Clean MO Com...	22.000	50387746	8.088	PPM
19) H	Oil MO Combo (01-08-15)	22.000	50387746	12.112	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

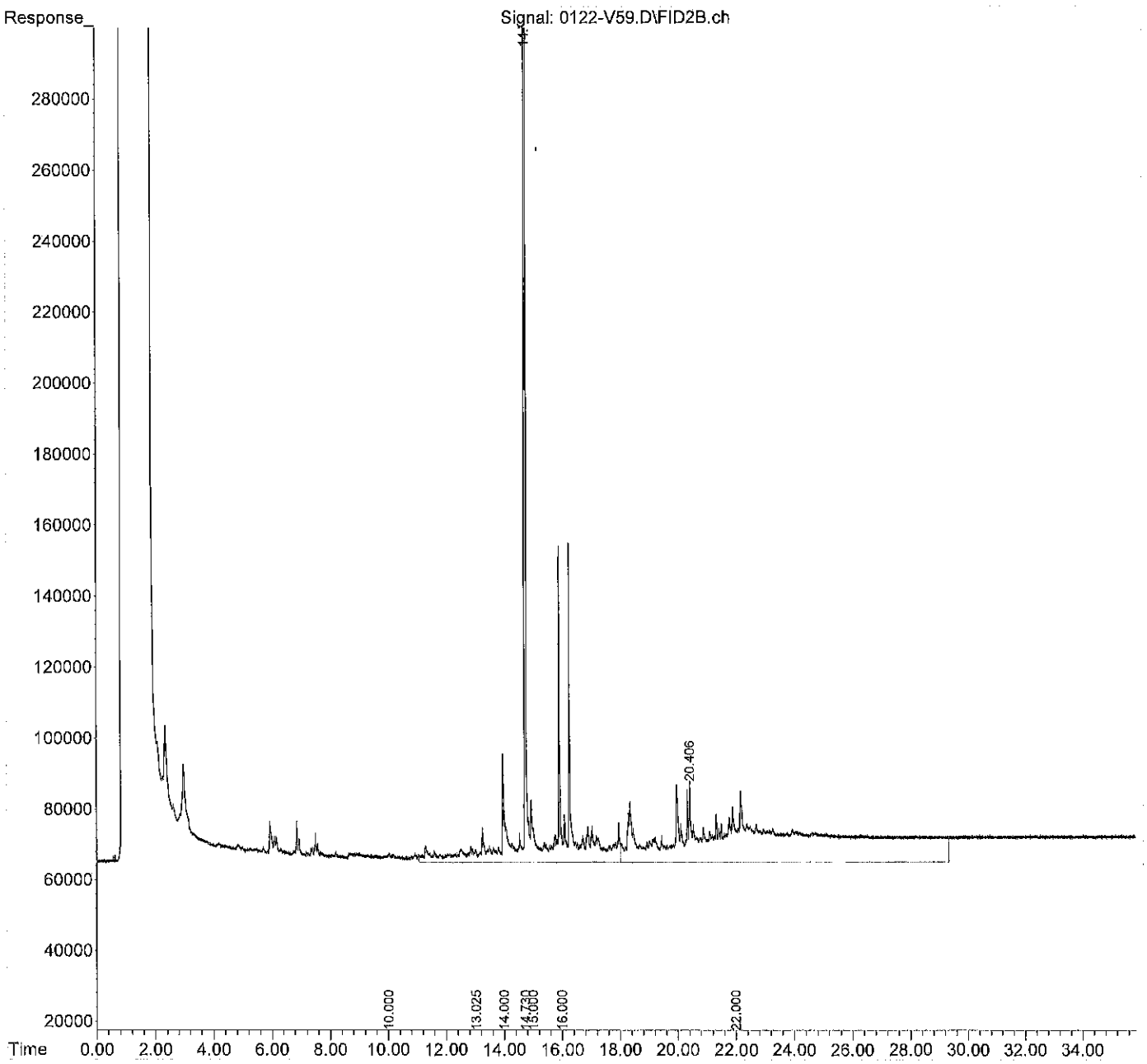
Quantitation Report (Not Reviewed)

Data File : 0122-V59.D
Sample : 01-126-03

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 18:58
Operator :
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 19:34:30 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0122-V55.D
Sample : MB0122S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 16:15
Operator :
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 16:52:02 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.735	148845577	52.722	PPM
Spiked Amount	50.000		Recovery =	105.44%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	14640335	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	12041764	3.520	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	8421983	1.382	PPM
6) H	Oil (01-08-15)	22.000	35752165	3.139	PPM
7) H	Oil Acid Clean (01-0...	22.000	35752165	N.D.	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	8016636	1.270	PPM
9) H	Oil Combo (01-08-15)	22.000	35264782	3.086	PPM
10) H	Oil Acid Clean Combo ...	22.000	35264782	N.D.	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	9603431	N.D.	PPM
12) H	Alaska 103 Oil (06-2...	22.000	12707785	0.718	PPM
13) H	Mineral Oil (10-06-14)	16.000	5398708	0.961	PPM
14) H	Bunker C ACU (Fuel O...	15.000	40808745	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	40808745	16.204	PPM
16) H	ALKANE C9-C40	12.666	45238592	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	4015577	1.091	PPM
18) H	Oil Acid Clean MO Com...	22.000	34919559	N.D.	PPM
19) H	Oil MO Combo (01-08-15)	22.000	34919559	3.115	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

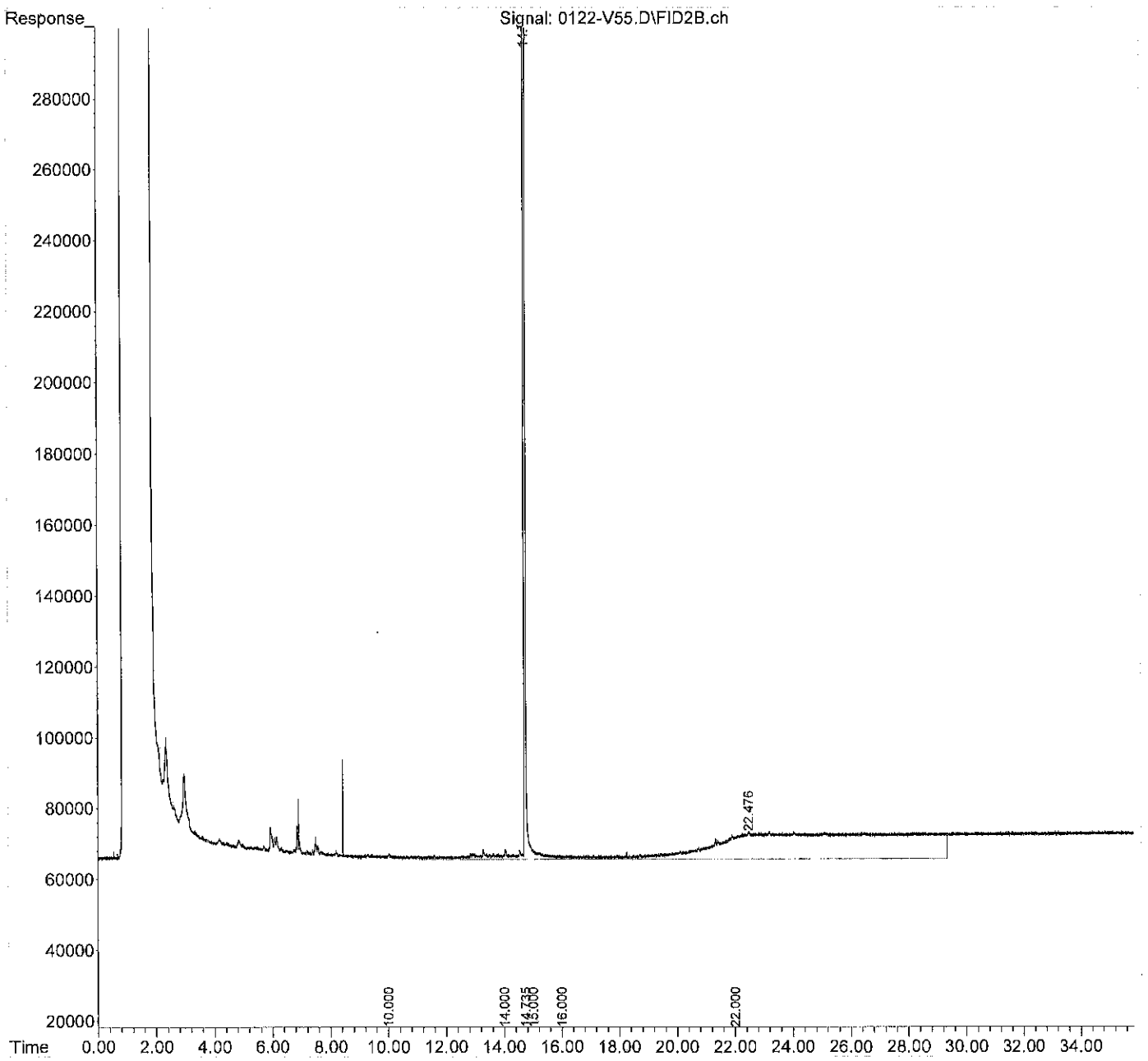
Quantitation Report (Not Reviewed)

Data File : 0122-V55.D
Sample : MB0122S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 16:15
Operator :
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 16:52:02 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0122-V56.D
Sample : 01-112-01

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 16:56
Operator :
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 17:32:36 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.737	164504641	58.283	PPM
Spiked Amount	50.000		Recovery =	116.57%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	15386154	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	16209956	5.401	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	13735210	3.955	PPM
6) H	Oil (01-08-15)	22.000	43230644	7.231	PPM
7) H	Oil Acid Clean (01-0...	22.000	43230644	3.153	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	12551161	3.507	PPM
9) H	Oil Combo (01-08-15)	22.000	42071199	6.898	PPM
10) H	Oil Acid Clean Combo ...	22.000	42071199	2.657	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	15088440	0.646	PPM
12) H	Alaska 103 Oil (06-2...	22.000	17735725	5.128	PPM
13) H	Mineral Oil (10-06-14)	16.000	11061842	3.340	PPM
14) H	Bunker C ACU (Fuel O...	15.000	52178809	N.D.	PPM
15) H	Bunker C (Fuel Oil #...	15.000	52178809	24.906	PPM
16) H	ALKANE C9-C40	12.666	56819639	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	7623209	2.670	PPM
18) H	Oil Acid Clean MO Com...	22.000	41080989	2.247	PPM
19) H	Oil MO Combo (01-08-15)	22.000	41080989	6.699	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

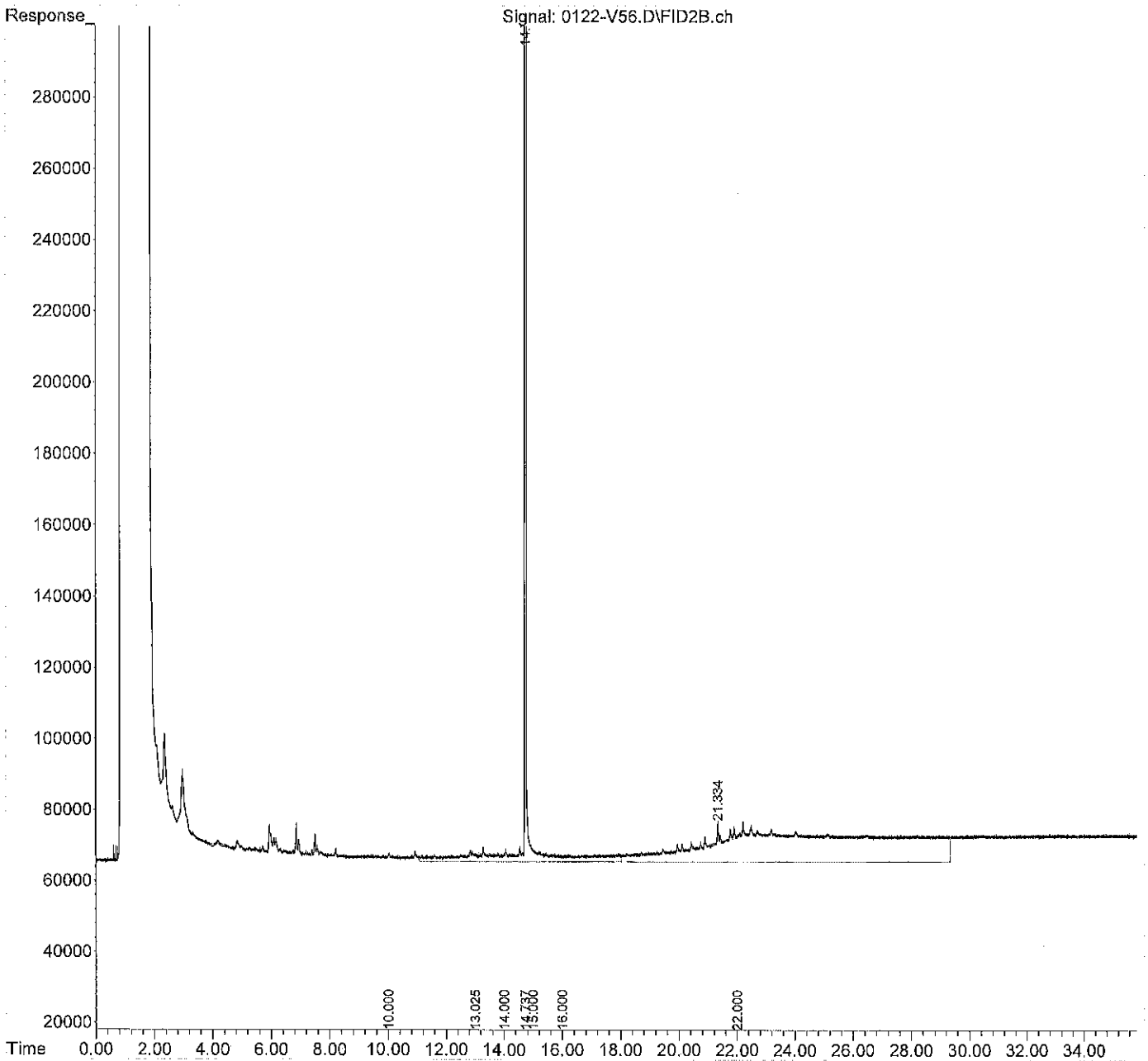
Quantitation Report (Not Reviewed)

Data File : 0122-V56.D
Sample : 01-112-01

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 16:56
Operator :
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 17:32:36 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0122-V57.D
Sample : 01-112-01 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 17:36
Operator :
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 18:13:16 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	O-Terphenyl (09-28-14)	14.734	149621970	52.998	PPM
Spiked Amount		50.000		Recovery =	106.00%	
		Target Compounds				
2)		1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3)	H	Gasoline	3.500	14310865	NoCal	PPM
4)	H	Diesel Fuel #1 (10-0...	10.000	12469434	3.713	PPM
5)	H	Diesel Fuel #2 (10-0...	14.000	9852113	2.074	PPM
6)	H	Oil (01-08-15)	22.000	42094593	6.609	PPM
7)	H	Oil Acid Clean (01-0...	22.000	42094593	2.477	PPM
8)	H	Diesel Fuel #2 Combo ...	14.000	8935534	1.723	PPM
9)	H	Oil Combo (01-08-15)	22.000	41252574	6.439	PPM
10)	H	Oil Acid Clean Combo ...	22.000	41252574	2.160	PPM
11)	H	Alaska 102 DF2 (06-2...	13.025	11024110	N.D.	PPM
12)	H	Alaska 103 Oil (06-2...	22.000	17326100	4.769	PPM
13)	H	Mineral Oil (10-06-14)	16.000	8414513	2.228	PPM
14)	H	Bunker C ACU (Fuel O...	15.000	47606940	N.D.	PPM
15)	H	Bunker C (Fuel Oil #...	15.000	47606940	21.407	PPM
16)	H	ALKANE C9-C40	12.666	51911562	NoCal	PPM
17)	H	Mineral Oil Combo (10...	16.000	5242531	1.628	PPM
18)	H	Oil Acid Clean MO Com...	22.000	40494582	1.879	PPM
19)	H	Oil MO Combo (01-08-15)	22.000	40494582	6.358	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

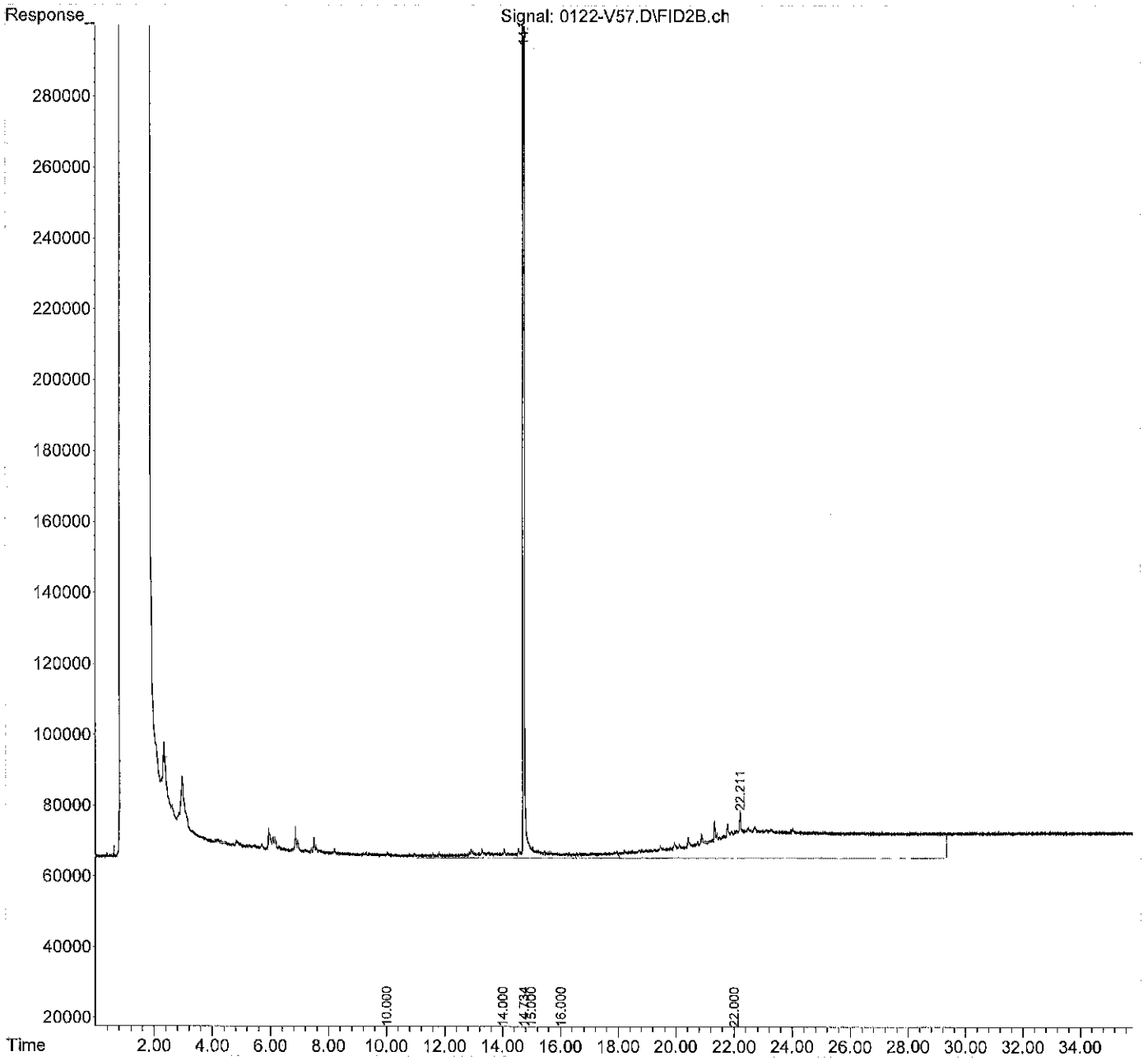
Quantitation Report (Not Reviewed)

Data File : 0122-V57.D
Sample : 01-112-01 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 17:36
Operator :
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 18:13:16 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0122-V53.D
Sample : CCV0122R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 14:54
Operator :
Misc : SV3-11-24
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 15:30:38 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	36078932	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	228511303	101.228	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	228563893	108.006	PPM
6) H	Oil (01-08-15)	22.000	71697453	22.808	PPM
7) H	Oil Acid Clean (01-0...	22.000	71697453	20.087	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	223365908	107.528	PPM
9) H	Oil Combo (01-08-15)	22.000	59770376	16.809	PPM
10) H	Oil Acid Clean Combo ...	22.000	59770376	13.403	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	232655015	84.487	PPM
12) H	Alaska 103 Oil (06-2...	22.000	24197034	10.797	PPM
13) H	Mineral Oil (10-06-14)	16.000	148994895	61.285	PPM
14) H	Bunker C ACU (Fuel O...	15.000	281230332	168.020	PPM
15) H	Bunker C (Fuel Oil #...	15.000	281230332	200.202	PPM
16) H	ALKANE C9-C40	12.666	297407219	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	143088394	61.937	PPM
18) H	Oil Acid Clean MO Com...	22.000	55123744	11.061	PPM
19) H	Oil MO Combo (01-08-15)	22.000	55123744	14.867	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

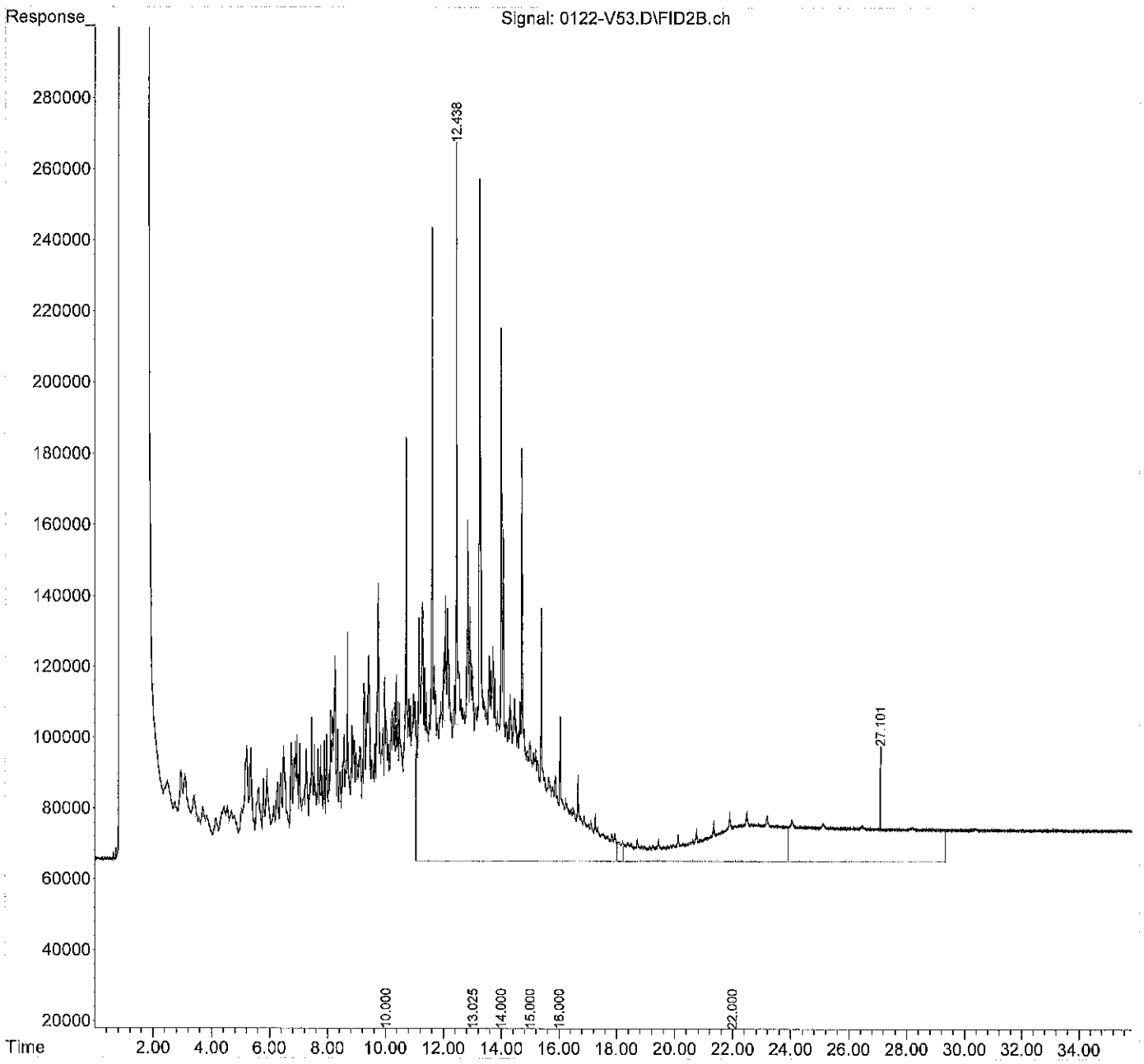
Quantitation Report (Not Reviewed)

Data File : 0122-V53.D
Sample : CCV0122R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 14:54
Operator :
Misc : SV3-11-24
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 15:30:38 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0122-V63.D
Sample : CCV0122R-V3

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 21:40
Operator :
Misc : SV3-11-24
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 22:16:47 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	35561736	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	225358999	99.805	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	224209075	105.896	PPM
6) H	Oil (01-08-15)	22.000	54651416	13.480	PPM
7) H	Oil Acid Clean (01-0...	22.000	54651416	9.947	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	219805321	105.772	PPM
9) H	Oil Combo (01-08-15)	22.000	43296093	7.584	PPM
10) H	Oil Acid Clean Combo ...	22.000	43296093	3.401	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	228228519	82.782	PPM
12) H	Alaska 103 Oil (06-2...	22.000	15698473	3.341	PPM
13) H	Mineral Oil (10-06-14)	16.000	143983259	59.179	PPM
14) H	Bunker C ACU (Fuel O...	15.000	262037889	153.448	PPM
15) H	Bunker C (Fuel Oil #...	15.000	262037889	185.514	PPM
16) H	ALKANE C9-C40	12.666	278060822	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	140352920	60.741	PPM
18) H	Oil Acid Clean MO Com...	22.000	39309580	1.135	PPM
19) H	Oil MO Combo (01-08-15)	22.000	39309580	5.668	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

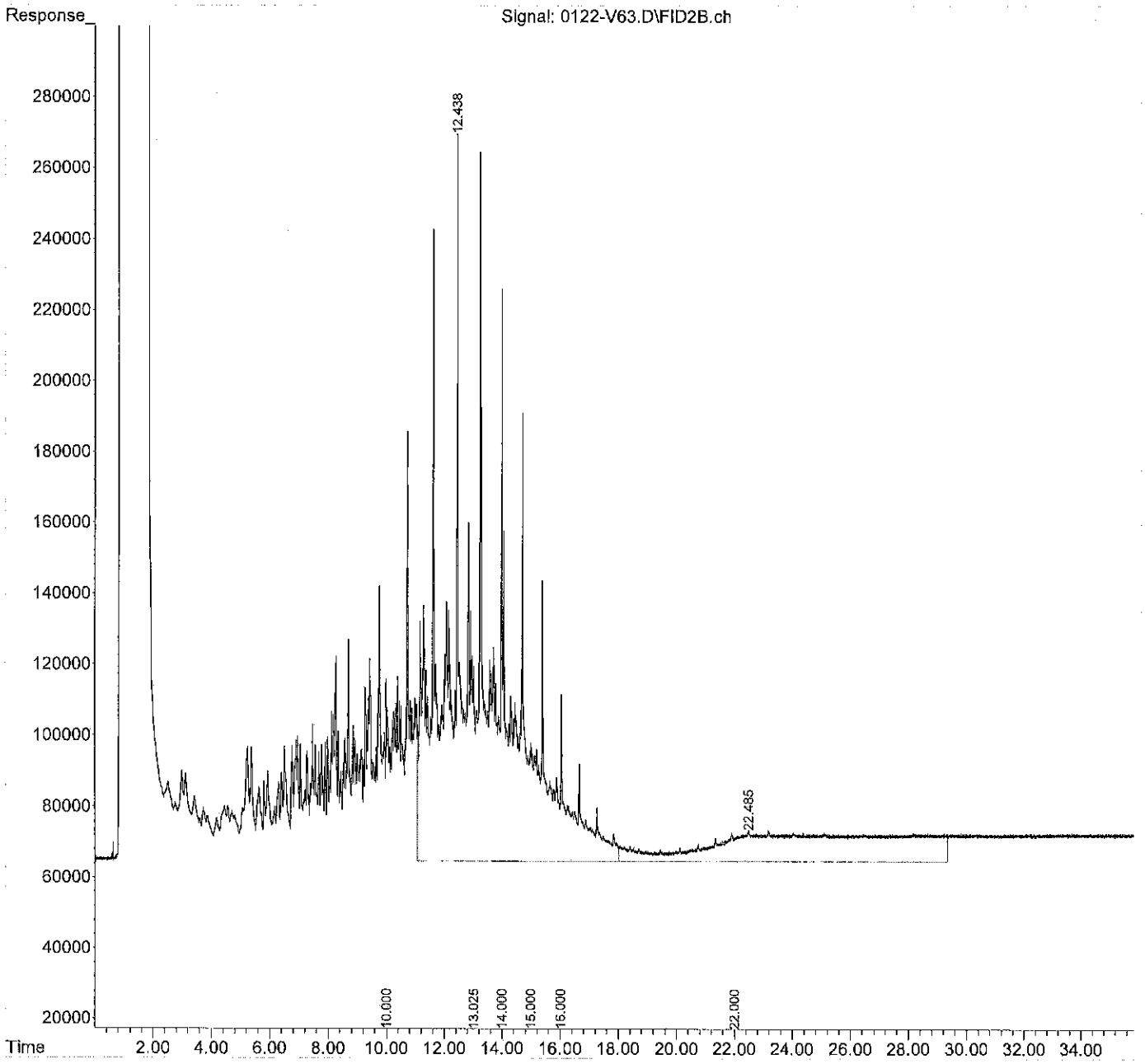
Quantitation Report (Not Reviewed)

Data File : 0122-V63.D
Sample : CCV0122R-V3

Data Path : X:\DIESELS\VIGO\DATA\V150122.SEC\
Signal(s) : FID2B.ch
Acq On : 22 Jan 2015 21:40
Operator :
Misc : SV3-11-24
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 22:16:47 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122021.D
Acq On : 22 Jan 2015 5:16 pm
Operator :
Sample : 01-126-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 22 17:32:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.065	136	137970	2000.00	ppb	0.00
6) Acenaphthene-d10	5.315	164	67487	2000.00	ppb	0.00
10) Phenanthrene-d10	6.311	188	116417	2000.00	ppb	0.00
17) Chrysene-d12	8.406	240	103921	2000.00	ppb	0.00
21) Perylene-d12	9.859	264	95793	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.560	82	14282	766.70	ppb	-0.01
Spiked Amount 1000.000	Range 24 - 92		Recovery = 76.67%			
7) 2-Fluorobiphenyl	4.854	172	39486	707.33	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 70.73%			
11) Pyrene-d10	7.309	212	35201	714.87	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 71.49%			
18) Terphenyl-d14	7.477	244	19911	517.99	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 51.80%			
Target Compounds						Qvalue
3) Naphthalene	4.076	128	7378	97.35	ppb	100
4) 2-Methylnaphthalene	4.585	142	498	11.34	ppb	100
5) 1-Methylnaphthalene	4.655	142	750	13.82	ppb	100
8) Acenaphthylene	5.207	152	3171	48.46	ppb	100
9) Acenaphthene	5.330	153	849	17.24	ppb	100
12) Fluorene	5.692	166	1177	22.97	ppb	100
13) Phenanthrene	6.323	178	7461	99.87	ppb	100
14) Anthracene	6.358	178	2360	37.19	ppb	100
15) Fluoranthene	7.152	202	13574	201.99	ppb	100
16) Pyrene	7.321	202	15429	208.17	ppb	100
19) Benzo[a]anthracene	8.391	228	4598	96.95	ppb	100
20) Chrysene	8.430	228	5557	116.47	ppb	100
22) Benzo[b]fluoranthene	9.484	252	5592	~~141.26~~	ppb	100
23) Benzo(j,k)fluoranthene	9.484	252	5592	~~95.99~~	ppb	100
24) Benzo[a]pyrene	9.796	252	4537	133.01	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.877	276	2447	47.85	ppb	100
26) Dibenz[a,h]anthracene	10.908	278	325	~~7.47~~	ppb	100
27) Benzo[g,h,i]perylene	11.127	276	3057	61.79	ppb	100

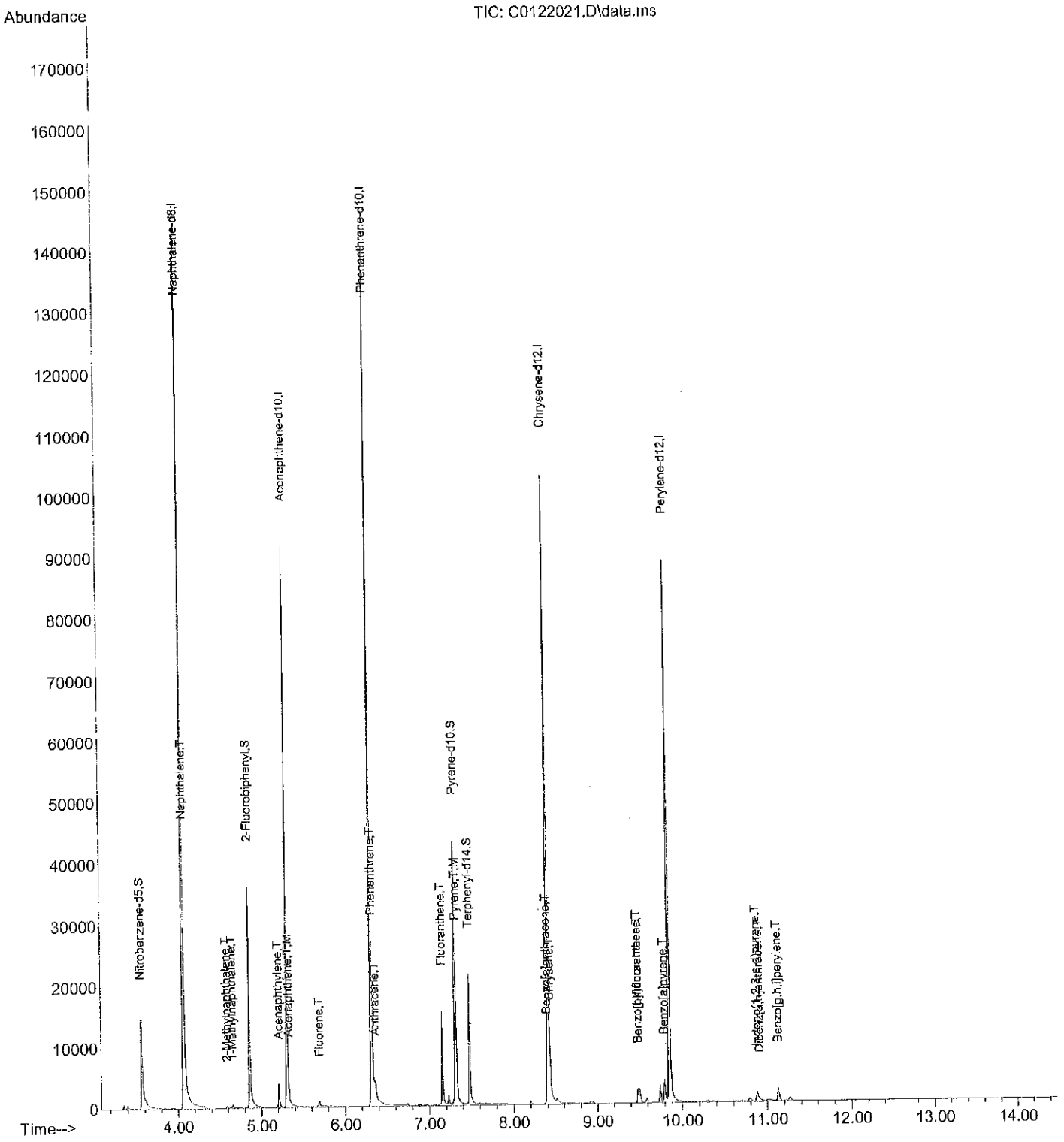
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/23/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122021.D
Acq On : 22 Jan 2015 5:16 pm
Operator :
Sample : 01-126-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 22 17:32:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122022.D
Acq On : 22 Jan 2015 5:38 pm
Operator :
Sample : 01-126-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 22 17:53:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.065	136	136050	2000.00	ppb	0.00
6) Acenaphthene-d10	5.316	164	65219	2000.00	ppb	0.00
10) Phenanthrene-d10	6.309	188	113651	2000.00	ppb	0.00
17) Chrysene-d12	8.408	240	104559	2000.00	ppb	0.00
21) Perylene-d12	9.855	264	96928	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.566	82	14219	774.09	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 77.41%			
7) 2-Fluorobiphenyl	4.854	172	40390	748.68	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 74.87%			
11) Pyrene-d10	7.309	212	36873	767.05	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 76.70%			
18) Terphenyl-d14	7.477	244	23605	610.35	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 61.04%			
Target Compounds						Qvalue
3) Naphthalene	4.077	128	18506	247.62	ppb	100
4) 2-Methylnaphthalene	4.589	142	791	18.27	ppb	100
5) 1-Methylnaphthalene	4.655	142	792	14.80	ppb	100
8) Acenaphthylene	5.208	152	5227	82.66	ppb	100
9) Acenaphthene	5.332	153	1089	22.88	ppb	100
12) Fluorene	5.686	166	1731	34.60	ppb	100
13) Phenanthrene	6.324	178	13181	180.74	ppb	100
14) Anthracene	6.359	178	4675	75.47	ppb	100
15) Fluoranthene	7.152	202	28654	436.77	ppb	100
16) Pyrene	7.320	202	31155	430.58	ppb	100
19) Benzo[a]anthracene	8.392	228	14147	296.48	ppb	100
20) Chrysene	8.427	228	15679	326.60	ppb	100
22) Benzo[b]fluoranthene	9.480	252	8632	215.50	ppb	100
23) Benzo(j,k)fluoranthene	9.480	252	8632	~~146.44~~ 195.00	ppb	100
24) Benzo[a]pyrene	9.796	252	14187	411.05	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.875	276	8096	156.46	ppb	100
26) Dibenz[a,h]anthracene	10.906	278	896	~~30.36~~ 35.99	ppb	100
27) Benzo[g,h,i]perylene	11.125	276	8046	160.73	ppb	100

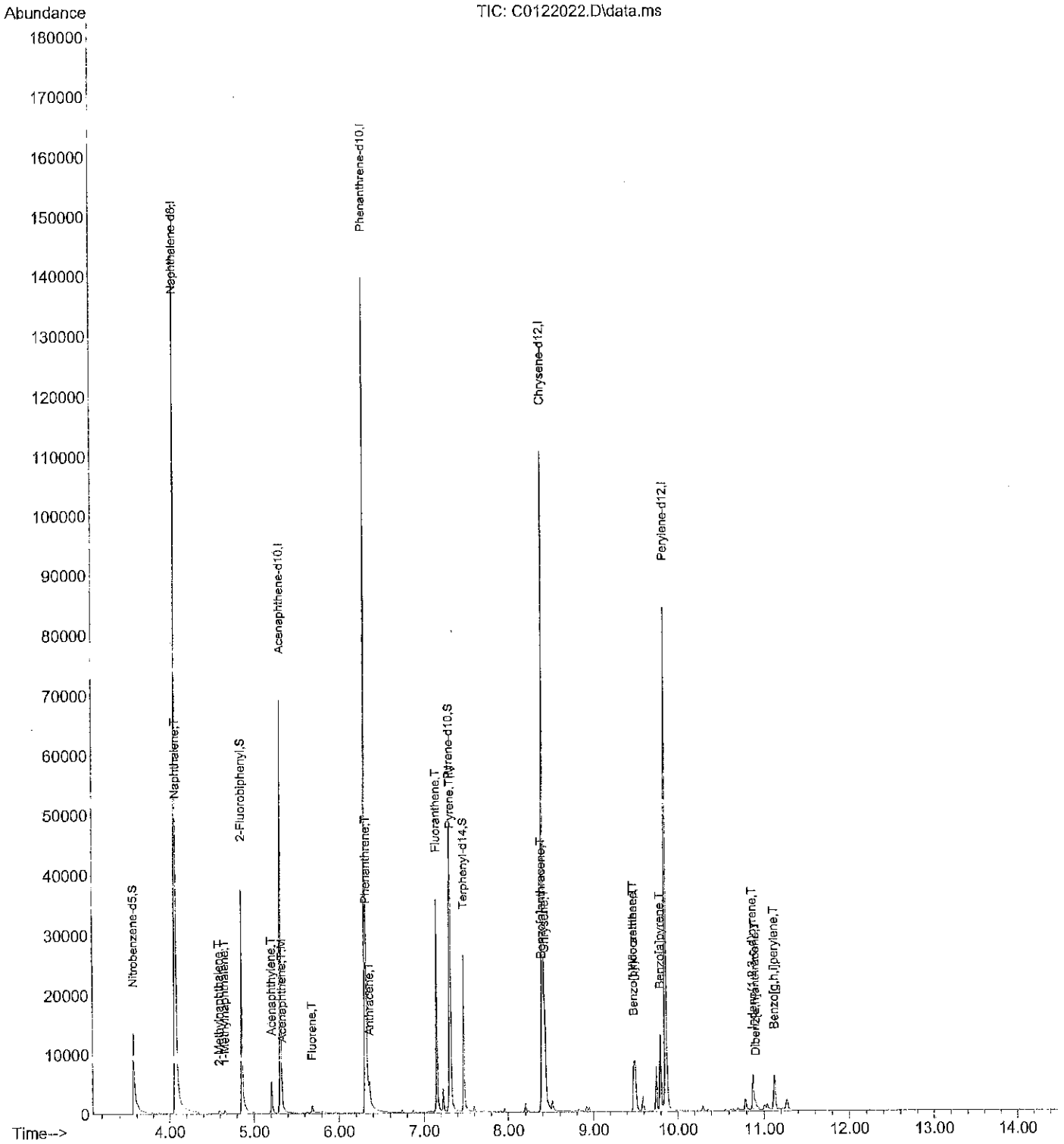
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/23/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122022.D
Acq On : 22 Jan 2015 5:38 pm
Operator :
Sample : 01-126-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 22 17:53:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122018.D
Acq On : 22 Jan 2015 4:11 pm
Operator :
Sample : MB0122S1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 22 16:26:49 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.064	136	127567	2000.00	ppb	0.00
6) Acenaphthene-d10	5.316	164	62389	2000.00	ppb	0.00
10) Phenanthrene-d10	6.312	188	107231	2000.00	ppb	0.00
17) Chrysene-d12	8.407	240	98222	2000.00	ppb	0.00
21) Perylene-d12	9.855	264	91086	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.565	82	16639	966.08	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 96.61%#			
7) 2-Fluorobiphenyl	4.857	172	44616	864.53	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 86.45%			
11) Pyrene-d10	7.308	212	42329	933.27	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 93.33%			
18) Terphenyl-d14	7.477	244	27196	748.56	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 74.86%			
Target Compounds						Qvalue
3) Naphthalene	4.082	128	185	2.64	ppb	100
4) 2-Methylnaphthalene	4.596	142	46	1.13	ppb	100
5) 1-Methylnaphthalene	4.658	142	35	0.70	ppb	100
8) Acenaphthylene	5.208	152	233	3.85	ppb	100
9) Acenaphthene	5.331	153	43	0.94	ppb	100
12) Fluorene	5.693	166	76	1.61	ppb	100
13) Phenanthrene	6.323	178	257	3.73	ppb	100
14) Anthracene	6.323	178	257	~~4.40 ppb~~ ϕ		100
15) Fluoranthene	7.157	202	33	0.53	ppb	100
16) Pyrene	7.308	202	123	1.80	ppb	100
19) Benzo[a]anthracene	8.407	228	351	7.83	ppb	100
20) Chrysene	8.407	228	351	~~7.78 ppb~~ ϕ		100
22) Benzo[b]fluoranthene	9.492	252	18	0.48	ppb	100
23) Benzo(j,k)fluoranthene	9.492	252	18	~~0.32 ppb~~ ϕ		100
24) Benzo[a]pyrene	9.797	252	18	0.55	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.847	276	3	0.06	ppb	100
26) Dibenz[a,h]anthracene	10.874	278	4	0.10	ppb	100
27) Benzo[g,h,i]perylene	11.112	276	3	0.06	ppb	100

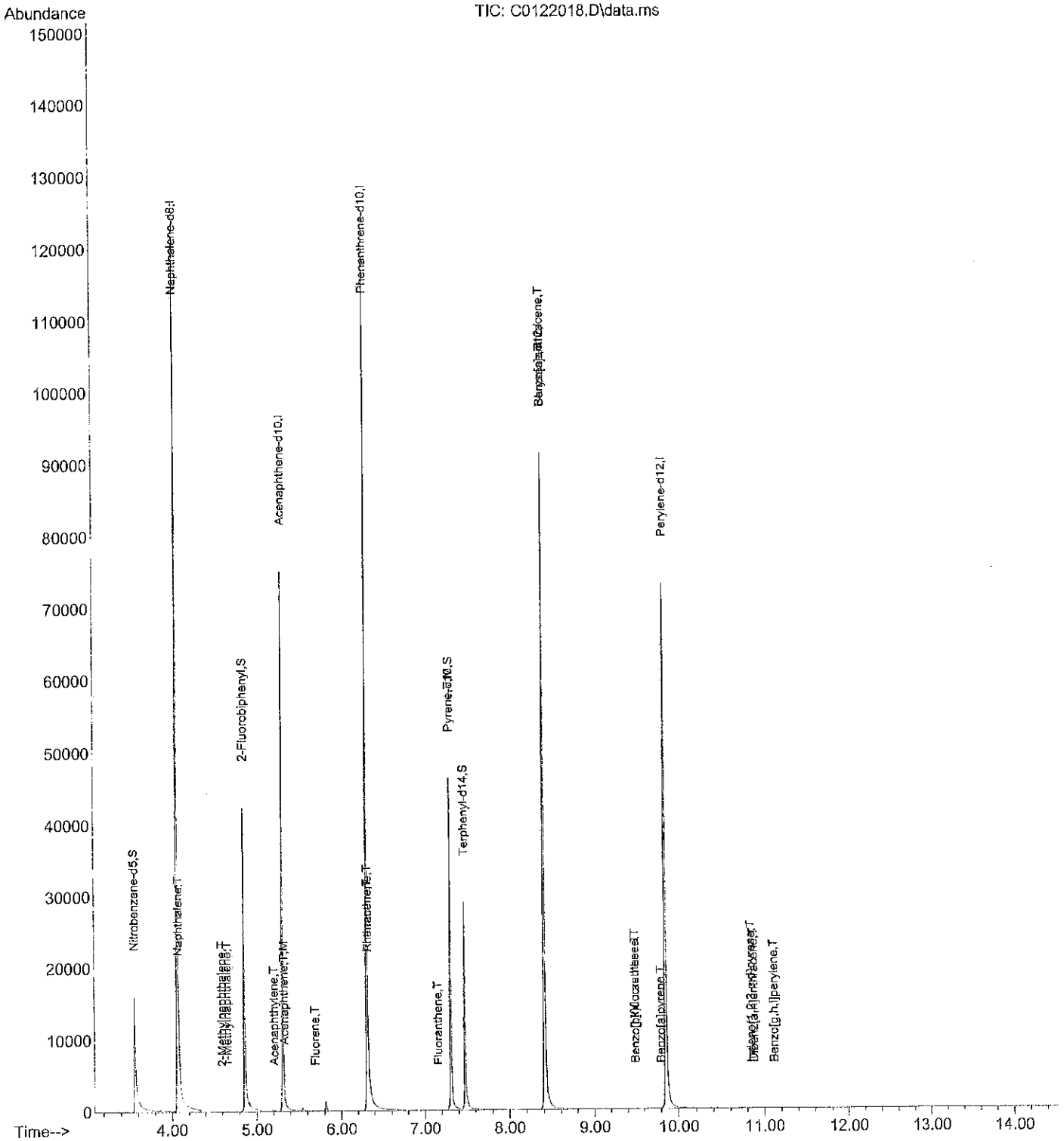
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/23/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122018.D
Acq On : 22 Jan 2015 4:11 pm
Operator :
Sample : MB0122S1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 22 16:26:49 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122019.D
Acq On : 22 Jan 2015 4:33 pm
Operator :
Sample : SB0122S1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 22 16:48:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.064	136	128987	2000.00	ppb	0.00
6) Acenaphthene-d10	5.316	164	62208	2000.00	ppb	0.00
10) Phenanthrene-d10	6.312	188	108680	2000.00	ppb	0.00
17) Chrysene-d12	8.407	240	100565	2000.00	ppb	0.00
21) Perylene-d12	9.856	264	94490	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.565	82	16223	931.55	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 93.16%#			
7) 2-Fluorobiphenyl	4.858	172	46039	894.70	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 89.47%#			
11) Pyrene-d10	7.309	212	43247	940.79	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.08%			
18) Terphenyl-d14	7.477	244	28052	754.14	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 75.41%			
Target Compounds						Qvalue
3) Naphthalene	4.076	128	32313	456.03	ppb	100
4) 2-Methylnaphthalene	4.577	142	18068	440.11	ppb	100
5) 1-Methylnaphthalene	4.651	142	21587	425.43	ppb	100
8) Acenaphthylene	5.201	152	32050	531.40	ppb	100
9) Acenaphthene	5.332	153	20291	446.98	ppb	100
12) Fluorene	5.686	166	22597	472.34	ppb	100
13) Phenanthrene	6.324	178	28028	401.89	ppb	100
14) Anthracene	6.355	178	30087	507.89	ppb	100
15) Fluoranthene	7.152	202	30329	483.45	ppb	100
16) Pyrene	7.320	202	31760	459.02	ppb	100
19) Benzo[a]anthracene	8.392	228	24266	528.75	ppb	100
20) Chrysene	8.431	228	26291	569.41	ppb	100
22) Benzo[b]fluoranthene	9.482	252	21890	560.58	ppb	100
23) Benzo(j,k)fluoranthene	9.505	252	19337	336.50	ppb	100
24) Benzo[a]pyrene	9.794	252	23052	~~685.14~~ 678.93	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.874	276	25228	500.11	ppb	100
26) Dibenz[a,h]anthracene	10.905	278	21149	492.94	ppb	100
27) Benzo[g,h,i]perylene	11.124	276	22378	458.58	ppb	100

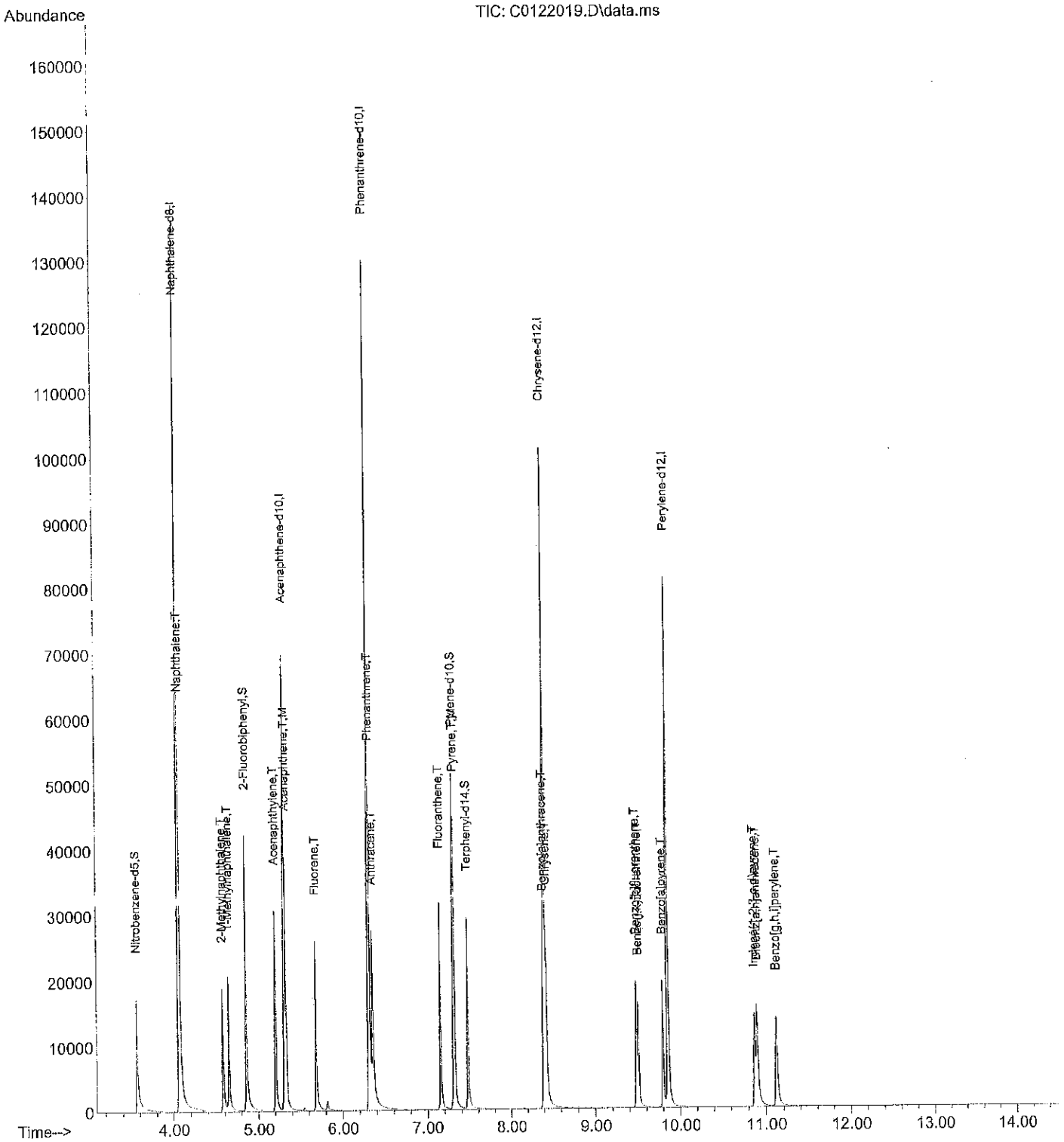
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/23/15 sm

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122019.D
Acq On : 22 Jan 2015 4:33 pm
Operator :
Sample : SB0122S1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 22 16:48:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122020.D
Acq On : 22 Jan 2015 4:55 pm
Operator :
Sample : SB0122S1 DUP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 22 17:10:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.064	136	132839	2000.00	ppb	0.00
6) Acenaphthene-d10	5.316	164	64876	2000.00	ppb	0.00
10) Phenanthrene-d10	6.312	188	109956	2000.00	ppb	0.00
17) Chrysene-d12	8.407	240	103024	2000.00	ppb	0.00
21) Perylene-d12	9.855	264	97410	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.565	82	16681	930.08	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 93.01%#			
7) 2-Fluorobiphenyl	4.857	172	47925	893.05	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 89.30%#			
11) Pyrene-d10	7.308	212	43884	943.57	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.36%			
18) Terphenyl-d14	7.476	244	30555	801.82	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 80.18%			
Target Compounds						Qvalue
3) Naphthalene	4.081	128	33793	463.09	ppb	100
4) 2-Methylnaphthalene	4.576	142	18933	447.81	ppb	100
5) 1-Methylnaphthalene	4.650	142	22473	430.05	ppb	100
8) Acenaphthylene	5.208	152	32746	520.61	ppb	100
9) Acenaphthene	5.331	153	21162	446.99	ppb	100
12) Fluorene	5.685	166	22951	474.17	ppb	100
13) Phenanthrene	6.324	178	28532	404.37	ppb	100
14) Anthracene	6.355	178	31360	523.24	ppb	100
15) Fluoranthene	7.151	202	30672	483.24	ppb	100
16) Pyrene	7.320	202	32408	462.95	ppb	100
19) Benzo[a]anthracene	8.392	228	24672	524.77	ppb	100
20) Chrysene	8.431	228	27311	577.38	ppb	100
22) Benzo[b]fluoranthene	9.481	252	22731	564.67	ppb	100
23) Benzo(j,k)fluoranthene	9.504	252	22401	378.14	ppb	100
24) Benzo[a]pyrene	9.797	252	23796	~~686.05~~ 674.98	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.874	276	26870	516.70	ppb	100
26) Dibenz[a,h]anthracene	10.901	278	21794	492.75	ppb	100
27) Benzo[g,h,i]perylene	11.124	276	23481	466.75	ppb	100

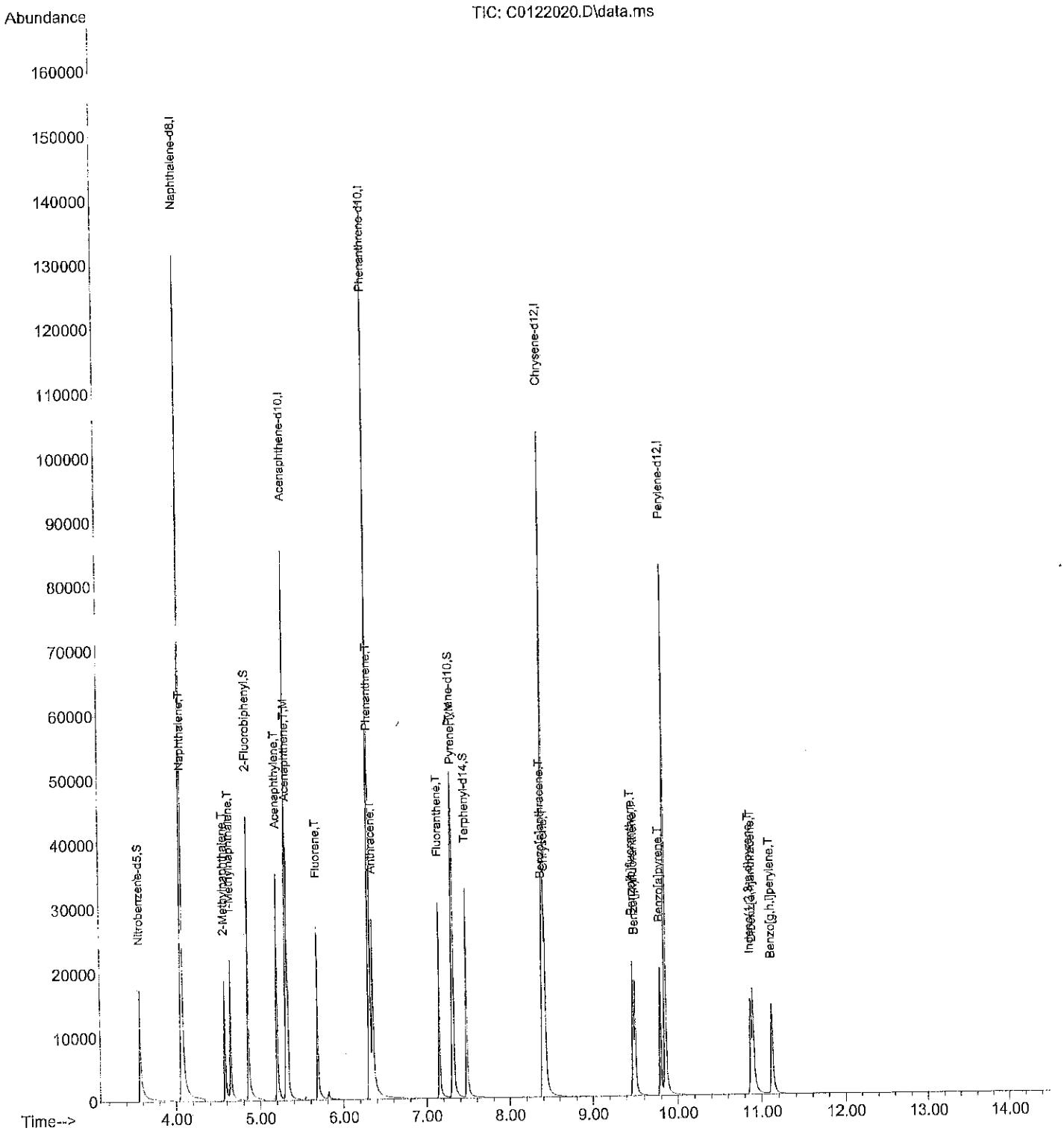
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/23/15 gm

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150122\
Data File : C0122020.D
Acq On : 22 Jan 2015 4:55 pm
Operator :
Sample : SB0122S1 DUP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 22 17:10:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150122\
Data File : C0122003.D
Acq On : 22 Jan 2015 10:45 am
Operator :
Sample : PAH CCV010121
Misc : SV4-51-06
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 11:26:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	106	0.00
2	S	Nitrobenzene-d5	500.000	468.673	6.3	123	0.00
3	T	Naphthalene	500.000	500.218	-0.0	102	0.00
4	T	2-Methylnaphthalene	500.000	504.750	-0.9	113	0.00
5	T	1-Methylnaphthalene	500.000	451.094	9.8	100	0.00
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	105	0.00
7	S	2-Fluorobiphenyl	500.000	511.202	-2.2	106	0.00
8	T	Acenaphthylene	500.000	529.466	-5.9	114	0.00
9	T,M	Acenaphthene	500.000	487.040	2.6	106	0.00
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	107	0.00
11	S	Pyrene-d10	500.000	502.171	-0.4	108	0.00
12	T	Fluorene	500.000	482.819	3.4	107	0.00
13	T	Phenanthrene	500.000	449.369	10.1	105	0.00
14	T	Anthracene	500.000	525.149	-5.0	114	0.00
15	T	Fluoranthene	500.000	495.551	0.9	108	0.00
16	T,M	Pyrene	500.000	482.486	3.5	106	0.00
17	I	Chrysene-d12	2000.000	2000.000	0.0	105	0.00
18	S	Terphenyl-d14	500.000	501.493	-0.3	108	0.00
19	T	Benzo[a]anthracene	500.000	529.127	-5.8	121	0.00
20	T	Chrysene	500.000	568.011	-13.6	100	0.00
21	I	Perylene-d12	2000.000	2000.000	0.0	107	0.00
22	T	Benzo[b]fluoranthene	500.000	574.385	-14.9	111	0.00
23	T	Benzo(j,k)fluoranthene	500.000	439.782	12.0	105	0.00
24	T	Benzo[a]pyrene	500.000	589.634	-17.9	124	0.00
25	T	Indeno(1,2,3-c,d)pyrene	500.000	551.560	-10.3	118	0.00
26	T	Dibenz[a,h]anthracene	500.000	542.215	-8.4	113	0.00
27	T	Benzo[g,h,i]perylene	500.000	496.682	0.7	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150122\
Data File : C0122003.D
Acq On : 22 Jan 2015 10:45 am
Operator :
Sample : PAH CCV010121
Misc : SV4-51-06
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 11:26:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.064	136	171610	2000.00	ppb	0.00
6) Acenaphthene-d10	5.316	164	81538	2000.00	ppb	0.00
10) Phenanthrene-d10	6.308	188	144771	2000.00	ppb	0.00
17) Chrysene-d12	8.408	240	142942	2000.00	ppb	0.00
21) Perylene-d12	9.852	264	133110	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.565	82	10859	468.67	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 46.87%			
7) 2-Fluorobiphenyl	4.857	172	34479	511.20	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 51.12%			
11) Pyrene-d10	7.308	212	30750	502.17	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 50.22%			
18) Terphenyl-d14	7.476	244	26515	501.49	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 50.15%			
Target Compounds						Qvalue
3) Naphthalene	4.075	128	47156	500.22	ppb	100
4) 2-Methylnaphthalene	4.576	142	27569	504.75	ppb	100
5) 1-Methylnaphthalene	4.650	142	30453	451.09	ppb	100
8) Acenaphthylene	5.200	152	41856	529.47	ppb	100
9) Acenaphthene	5.331	153	28980	487.04	ppb	100
12) Fluorene	5.686	166	30769	482.82	ppb	100
13) Phenanthrene	6.323	178	41746	449.37	ppb	100
14) Anthracene	6.355	178	41440	525.15	ppb	100
15) Fluoranthene	7.151	202	41412	495.55	ppb	100
16) Pyrene	7.319	202	44470	482.49	ppb	100
19) Benzo[a]anthracene	8.388	228	34516	529.13	ppb	100
20) Chrysene	8.427	228	37278	568.01	ppb	100
22) Benzo[b]fluoranthene	9.477	252	31596m	574.38	ppb	
23) Benzo(j,k)fluoranthene	9.501	252	35601	439.78	ppb	100
24) Benzo[a]pyrene	9.793	252	27947m	589.63	ppb	
25) Indeno(1,2,3-c,d)pyrene	10.866	276	39195	551.56	ppb	100
26) Dibenz[a,h]anthracene	10.893	278	32771	542.21	ppb	100
27) Benzo[g,h,i]perylene	11.116	276	34144	496.68	ppb	100

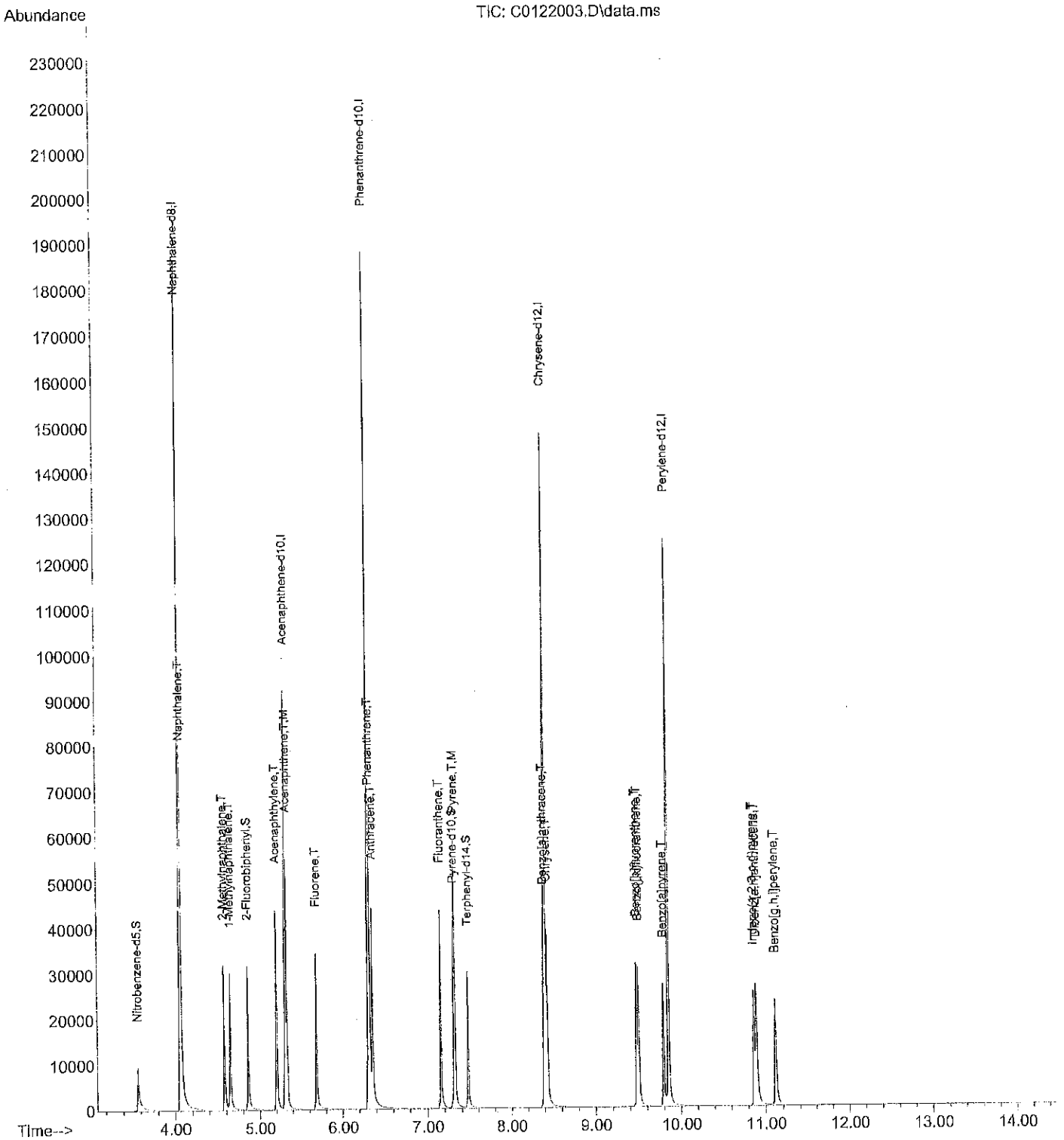
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/22/15 SM

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150122\
Data File : C0122003.D
Acq On : 22 Jan 2015 10:45 am
Operator :
Sample : PAH CCV010121
Misc : SV4-51-06
ALS Vial : 3 Sample Multiplier: 1

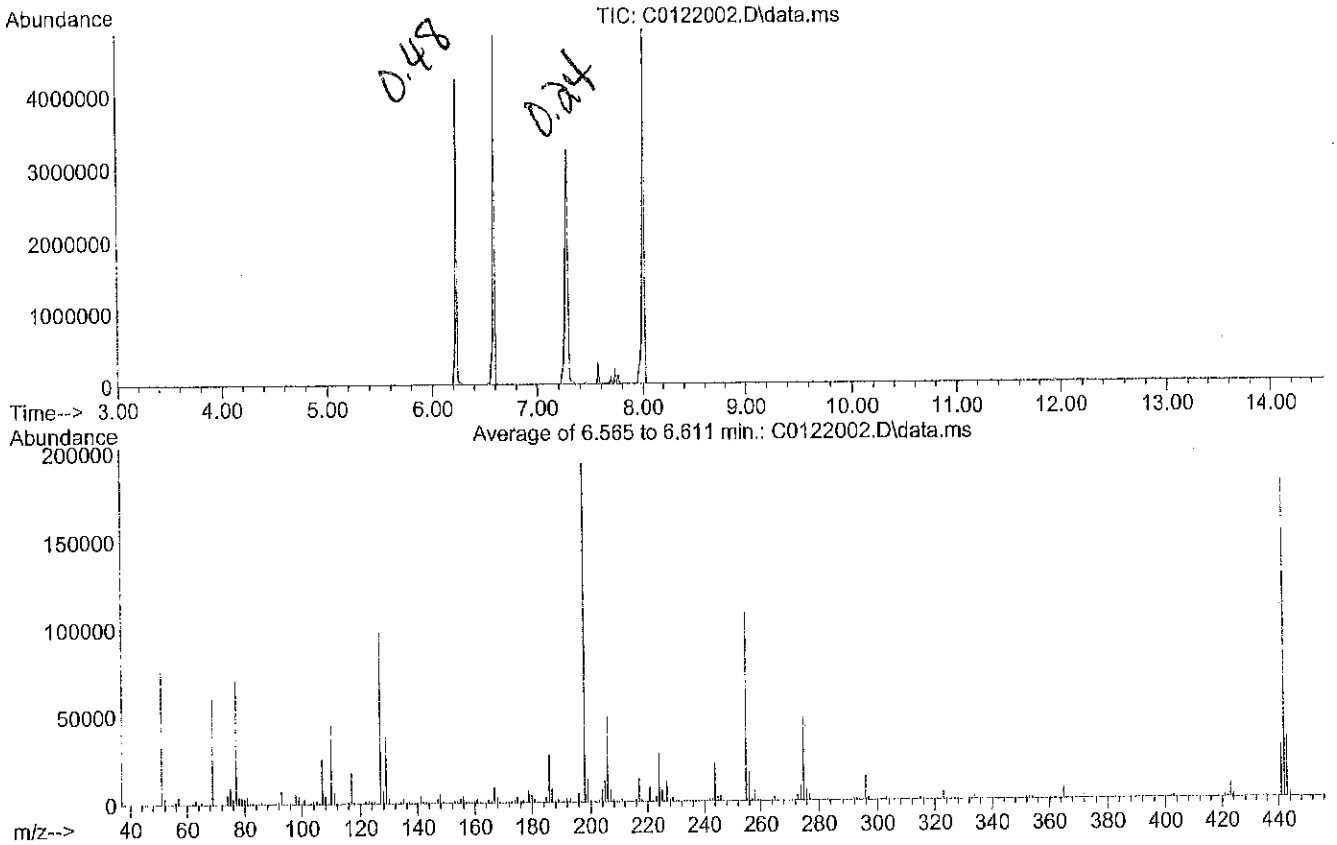
Quant Time: Jan 22 11:26:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0120.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Jan 20 14:57:48 2015
Response via : Initial Calibration



Data Path : X:\SEMIVOLS\COREY\DATA\C150122\
Data File : C0122002.D
Acq On : 22 Jan 2015 10:18 am
Operator :
Sample : DFTPP
Misc : SV4-49-03
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0120.M
Title : PAH'S BY SIMS
Last Update : Tue Jan 20 14:57:48 2015



Spectrum Information: Average of 6.565 to 6.611 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	39.5	76596	PASS
68	69	0.00	2	1.4	837	PASS
69	198	0.00	100	31.3	60561	PASS
70	69	0.00	2	0.3	207	PASS
127	198	25	75	50.7	98310	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	193770	PASS
199	198	5	9	7.0	13601	PASS
275	198	10	30	24.8	48021	PASS
365	198	0.75	100	3.6	6902	PASS
441	443	0.01	100	85.5	30169	PASS
442	198	40	110	93.6	181314	PASS
443	442	15	24	19.5	35266	PASS

Total Cadmium Data

P150122F1. Mean Only Report 1/22/2015, 7:07:38 PM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	1/22/2015, 11:24:29 AM
Standard 5	Cd 228.802	10.000	ppb	1/22/2015, 11:29:33 AM
Standard 4	Cd 228.802	100.00	ppb	1/22/2015, 10:50:59 AM
Standard 3	Cd 228.802	1000.0	ppb	1/22/2015, 10:56:05 AM
Standard 2	Cd 228.802	2500.0	ppb	1/22/2015, 11:01:11 AM
Standard 1	Cd 228.802	5000.0	ppb	1/22/2015, 11:06:19 AM
Initial Calib Verif	Cd 228.802	1012.4	ppb	1/22/2015, 11:37:19 AM
LLICV	Cd 228.802	11.972	ppb	1/22/2015, 11:45:55 AM
Initial Calib Blank	Cd 228.802	-0.781uv	ppb	1/22/2015, 11:55:15 AM
Cont Calib Verif	Cd 228.802	1079.5	ppb	1/22/2015, 12:00:20 PM
Cont Calib Blank	Cd 228.802	2.051	ppb	1/22/2015, 12:05:24 PM
ICSA	Cd 228.802	0.747uv	ppb	1/22/2015, 12:10:30 PM
ICSAB	Cd 228.802	936.51	ppb	1/22/2015, 12:15:37 PM
MB0121WH1	Cd 228.802	0.896uv	ppb	1/22/2015, 12:24:05 PM
SB0121WH1	Cd 228.802	957.90	ppb	1/22/2015, 12:29:09 PM
01-101-27	Cd 228.802	1.935	ppb	1/22/2015, 12:34:14 PM
01-101-27 D	Cd 228.802	-0.671uv	ppb	1/22/2015, 12:39:17 PM
01-101-27 L	Cd 228.802	0.289uv	ppb	1/22/2015, 12:44:20 PM
01-101-27 MS	Cd 228.802	915.49	ppb	1/22/2015, 12:49:24 PM
01-101-27 MSD	Cd 228.802	878.73	ppb	1/22/2015, 12:54:27 PM
01-082-02a	Cd 228.802	11.206	ppb	1/22/2015, 12:59:30 PM
Cont Calib Verif	Cd 228.802	1059.9	ppb	1/22/2015, 1:16:35 PM
Cont Calib Blank	Cd 228.802	1.354	ppb	1/22/2015, 1:22:18 PM
LLCCV	Cd 228.802	11.783	ppb	1/22/2015, 1:27:23 PM
01-082-02a X 5	Cd 228.802	2.458	ppb	1/22/2015, 1:39:07 PM
BLK	Cd 228.802	0.517uv	ppb	1/22/2015, 1:44:12 PM
SB0121PH1	Cd 228.802	1020.9	ppb	1/22/2015, 1:55:33 PM
01-082-04a X 5	Cd 228.802	0.699uv	ppb	1/22/2015, 2:00:36 PM
01-082-04a D X 5	Cd 228.802	1.026	ppb	1/22/2015, 2:05:39 PM
01-082-04a L X 5	Cd 228.802	0.369uv	ppb	1/22/2015, 2:10:42 PM
01-082-04a MS X 5	Cd 228.802	203.11	ppb	1/22/2015, 2:15:47 PM
01-082-04a MSD X 5	Cd 228.802	201.08	ppb	1/22/2015, 2:20:50 PM
MB0121TH1	Cd 228.802	0.418uv	ppb	1/22/2015, 2:25:54 PM
SB0121TH1	Cd 228.802	1015.1	ppb	1/22/2015, 2:30:57 PM
Cont Calib Verif	Cd 228.802	1062.7	ppb	1/22/2015, 2:35:59 PM
Cont Calib Blank	Cd 228.802	-0.038uv	ppb	1/22/2015, 3:48:02 PM
LLCCV	Cd 228.802	7.250	ppb	1/22/2015, 3:53:03 PM
01-082-04a	Cd 228.802	-0.010uv	ppb	1/22/2015, 4:04:17 PM
01-082-04a D	Cd 228.802	-1.162uv	ppb	1/22/2015, 4:09:19 PM
01-082-04a L	Cd 228.802	0.802uv	ppb	1/22/2015, 4:14:24 PM
01-082-04a MS	Cd 228.802	982.14	ppb	1/22/2015, 4:19:28 PM
01-082-04a MSD	Cd 228.802	1014.1	ppb	1/22/2015, 4:24:32 PM
01-082-05c	Cd 228.802	2.473	ppb	1/22/2015, 4:29:37 PM
BLK	Cd 228.802	0.134uv	ppb	1/22/2015, 4:34:39 PM
MB0122SH1	Cd 228.802	-0.774uv	ppb	1/22/2015, 4:39:44 PM
SB0122SH1	Cd 228.802	920.24	ppb	1/22/2015, 4:44:47 PM
01-126-03	Cd 228.802	8.248	ppb	1/22/2015, 4:49:51 PM
Cont Calib Verif	Cd 228.802	1071.9	ppb	1/22/2015, 5:06:36 PM
Cont Calib Blank	Cd 228.802	-0.365uv	ppb	1/22/2015, 5:33:37 PM
LLCCV	Cd 228.802	9.200	ppb	1/22/2015, 5:40:10 PM
01-126-03 D	Cd 228.802	5.682	ppb	1/22/2015, 5:52:36 PM
01-126-03 L	Cd 228.802	1.040	ppb	1/22/2015, 5:57:41 PM

P150122F1. Mean Only Report 1/22/2015, 7:07:38 PM

Sample	Label	Calc Conc.	Units	Date/Time
01-126-03 MS	Cd 228.802	865.66	ppb	1/22/2015, 6:02:46 PM
01-126-03 MSD	Cd 228.802	852.05	ppb	1/22/2015, 6:07:49 PM
01-126-01	Cd 228.802	6.222	ppb	1/22/2015, 6:12:53 PM
MB0122WM1	Cd 228.802	-1.152uv	ppb	1/22/2015, 6:23:26 PM
SB0122WM1	Cd 228.802	-0.000uv	ppb	1/22/2015, 6:28:32 PM
01-059-05a	Cd 228.802	-0.964uv	ppb	1/22/2015, 6:33:40 PM
01-059-05a D	Cd 228.802	-0.226uv	ppb	1/22/2015, 6:38:46 PM
01-059-05a L	Cd 228.802	1.681	ppb	1/22/2015, 6:43:54 PM
Cont Calib Verif	Cd 228.802	984.97	ppb	1/22/2015, 6:48:59 PM
Cont Calib Blank	Cd 228.802	0.371uv	ppb	1/22/2015, 6:55:07 PM
LLCCV	Cd 228.802	10.293	ppb	1/22/2015, 7:00:10 PM

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 28, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-159

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 23, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

Case Narrative

Samples were collected on January 23, 2015 and received by the laboratory on January 23, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/Benzene EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-41-9.0	01-159-01	Soil	1-23-15	1-23-15	
Dup-3	01-159-02	Soil	1-23-15	1-23-15	
Trip Blank-012315	01-159-03	Water	---	1-23-15	

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-41-9.0**					
Laboratory ID:	01-159-01					
Benzene	**ND**	0.020	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***93***	***68-123***				
Client ID:	**Dup-3**					
Laboratory ID:	01-159-02					
Benzene	**ND**	0.020	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***96***	***68-123***				

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank-012315**					
Laboratory ID:	01-159-03					
Benzene	**ND**	1.0	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	100	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***85***	***71-113***				

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-41-9.0**					
Laboratory ID:	01-159-01					
Diesel Range Organics	**ND**	31	NWTPH-Dx	1-26-15	1-26-15	X1
Lube Oil Range Organics	**ND**	63	NWTPH-Dx	1-26-15	1-26-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***94***	***50-150***				
Client ID:	**Dup-3**					
Laboratory ID:	01-159-02					
Diesel Range Organics	**ND**	31	NWTPH-Dx	1-26-15	1-26-15	X1
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	1-26-15	1-26-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***85***	***50-150***				

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-41-9.0**					
Laboratory ID:	01-159-01					
Benzo[a]anthracene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Chrysene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo[b]fluoranthene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo(j,k)fluoranthene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo[a]pyrene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Dibenz[a,h]anthracene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***72***	***32 - 114***				
Pyrene-d10	***78***	***33 - 121***				
Terphenyl-d14	***71***	***31 - 116***				

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Dup-3**					
Laboratory ID:	01-159-02					
Benzo[a]anthracene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Chrysene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo[b]fluoranthene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo(j,k)fluoranthene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo[a]pyrene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Dibenz[a,h]anthracene	**ND**	0.0083	EPA 8270D/SIM	1-27-15	1-27-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***73***	***32 - 114***				
Pyrene-d10	***79***	***33 - 121***				
Terphenyl-d14	***67***	***31 - 116***				

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-159-01					
Client ID:	**EX-41-9.0**					
Cadmium	**ND**	0.63	6010C	1-27-15	1-27-15	
Lab ID:	01-159-02					
Client ID:	**Dup-3**					
Cadmium	**ND**	0.62	6010C	1-27-15	1-27-15	

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126S1					
Benzene	**ND**	0.020	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***93***	***68-123***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-171-02										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***94***	***89***	***68-123***			
MATRIX SPIKES											
Laboratory ID:	01-159-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**0.852**	**0.857**	1.00	1.00	ND	**85**	**86**	71-122	1	21	
Surrogate:											
Fluorobenzene						***87***	***91***	***68-123***			

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0126G-1	5.00	4.57	9	+/- 20%
CCVD0126G-2	5.00	4.36	13	+/- 20%

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

BENZENE
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0126B-1	50.0	49.1	2	+/- 15%
Benzene	CCVD0126B-2	50.0	48.7	3	+/- 15%
Benzene	CCVD0126B-3	50.0	47.0	6	+/- 15%
Benzene	CCVD0127B-1	50.0	47.7	5	+/- 15%
Benzene	CCVD0127B-2	50.0	48.2	4	+/- 15%

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126W1					
Benzene	**ND**	1.0	EPA 8021B	1-26-15	1-26-15	
Gasoline	**ND**	100	NWTPH-Gx	1-26-15	1-26-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***87***	***71-113***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-127-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***81***	***82***	***71-113***			
MATRIX SPIKES											
Laboratory ID:	01-127-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**48.0**	**49.8**	50.0	50.0	ND	**96**	**100**	82-120	4	14	
Surrogate:											
Fluorobenzene						***94***	***98***	***71-113***			

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0126G-1	5.00	4.90	2	+/- 20%
CCVH0126G-2	5.00	4.55	9	+/- 20%

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

BENZENE
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0126B-1	50.0	45.6	9	+/- 15%
Benzene	CCVH0126B-2	50.0	43.9	12	+/- 15%
Benzene	CCVD0126B-2	50.0	48.7	3	+/- 15%
Benzene	CCVD0126B-3	50.0	47.0	6	+/- 15%

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	1-26-15	1-26-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	1-26-15	1-26-15	X1
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***114***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	01-142-03									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	X1
Surrogate:										
o-Terphenyl						***97*** ***75***	***50-150***			

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0126F-V4	100	97.8	2.2	+/-15%
CCV0126F-V5	100	98.3	1.7	+/-15%
CCV0126R-V4	100	112	-12	+/-15%
CCV0126R-V5	100	106	-6.0	+/-15%

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0127S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-27-15	1-27-15	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorobiphenyl	***83***	***32 - 114***				
Pyrene-d10	***89***	***33 - 121***				
Terphenyl-d14	***77***	***31 - 116***				

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	01-159-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0588**	**0.0619**	0.0833	0.0833	ND	71	74	42 - 134	5	27	
Chrysene	**0.0505**	**0.0541**	0.0833	0.0833	ND	61	65	45 - 114	7	27	
Benzo[b]fluoranthene	**0.0561**	**0.0555**	0.0833	0.0833	ND	67	67	38 - 131	1	33	
Benzo(j,k)fluoranthene	**0.0431**	**0.0510**	0.0833	0.0833	ND	52	61	44 - 114	17	34	
Benzo[a]pyrene	**0.0498**	**0.0530**	0.0833	0.0833	ND	60	64	40 - 136	6	29	
Indeno(1,2,3-c,d)pyrene	**0.0528**	**0.0559**	0.0833	0.0833	ND	63	67	45 - 126	6	30	
Dibenz[a,h]anthracene	**0.0519**	**0.0543**	0.0833	0.0833	ND	62	65	46 - 121	5	28	
Surrogate:											
2-Fluorobiphenyl						***71***	***71***	***32 - 114***			
Pyrene-d10						***71***	***73***	***33 - 121***			
Terphenyl-d14						***61***	***65***	***31 - 116***			

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	1-27-15
Date Analyzed:	1-27-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0127SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 1-27-15
Date Analyzed: 1-27-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-156-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**0.900**	**0.810**	11	0.50	

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 1-27-15
Date Analyzed: 1-27-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-156-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**46.5**	91	**44.9**	88	3	

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV012715P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLICV1012715P	0.0100	0.0116	-16	+/- 30%
Cadmium	CCV1012715P	1.00	1.06	-6.0	+/- 10%
Cadmium	CCV2012715P	1.00	1.04	-4.0	+/- 10%
Cadmium	LLCCV2012715P	0.0100	0.0110	-10	+/- 30%
Cadmium	CCV2012715P	1.00	1.05	-5.0	+/- 10%
Cadmium	LLCCV3012715P	0.0100	0.0112	-12	+/- 30%

Date of Report: January 28, 2015
Samples Submitted: January 23, 2015
Laboratory Reference: 1501-159
Project: 5147-012-06

% MOISTURE

Date Analyzed: 1-26-15

Client ID	Lab ID	% Moisture
EX-41-9.0	01-159-01	20
Dup-3	01-159-02	19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 01-159

Company: GeoEngineers, Inc.
Project Number: 5147-012-06
Project Name: Shell Site
Project Manager: Abhijit Joshi
Sampled by: Abhijit Joshi

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx w/ silica gel	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Benzene 8021	cPAHs	Cadmium			% Moisture
1	EX-41-9.0	01/23/15	1000	S	4			X	X													X	X	X			X
2	DUP-3	01/23/15	1005	S	2			X	X													X	X	X			X
3	TRIPBLANK-012315	—	—	W	2			X														X					

	Signature	Company	Date	Time
Relinquished		GEI	01/23/15	1605
Received		CORE	1/23/15	1605
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
RUN EX-41-9.0 FOR MS/MSD for benzene, cPAHs & Cadmium.

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 01-159

Initiated by: MN

Date Initiated: 1/23/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (QT Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150126\0126019.D\FID1A.CH Vial: 19
Signal #2 : X:\BTEX\DARYL\DATA\D150126\0126019.D\FID2B.CH
Acq On : 26 Jan 2015 21:44 Operator:
Sample : 01-159-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 27 11:09 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

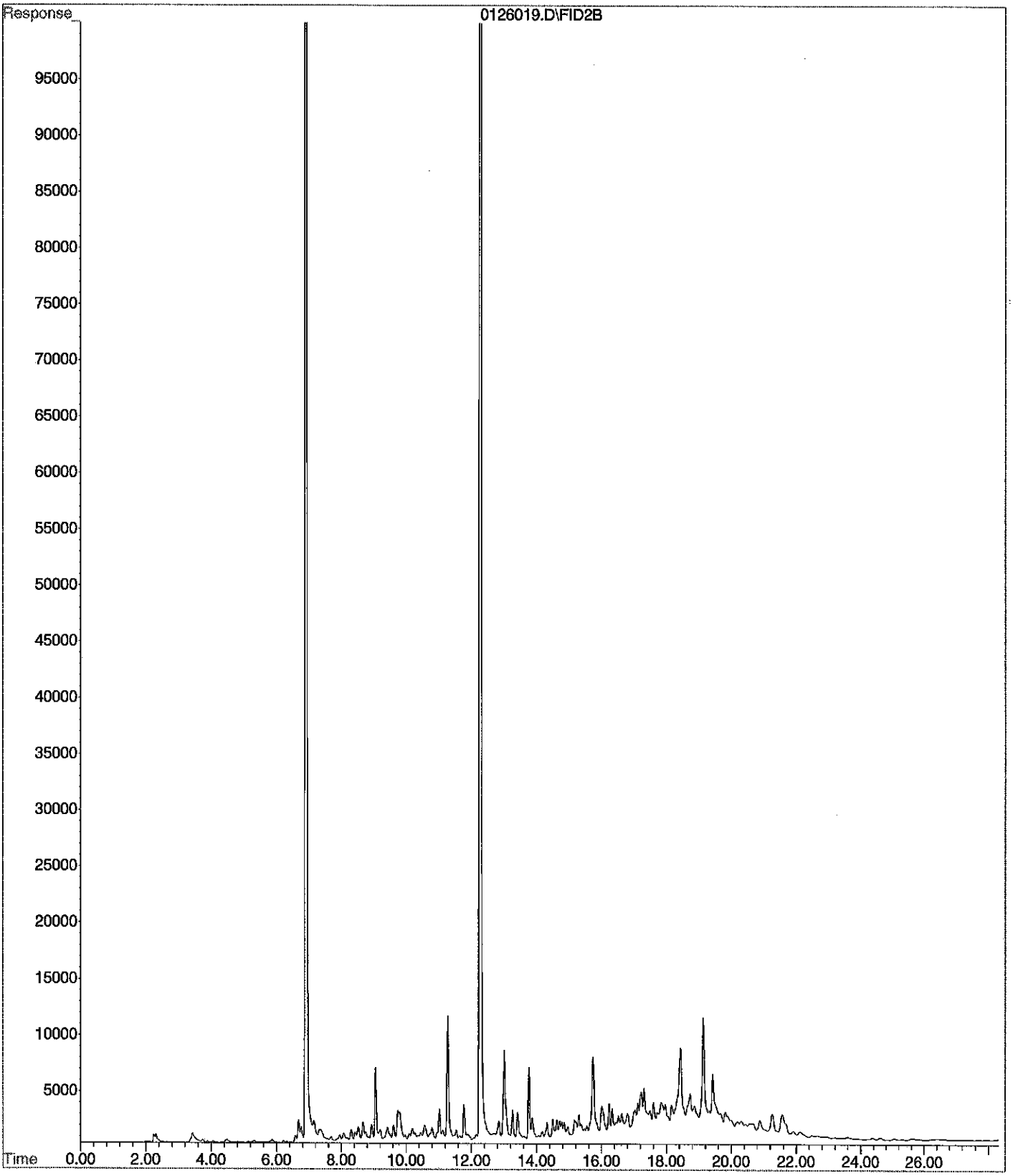
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
4)	S	FLUOROBENZENE	6.91	3408941	49.195	PPB	
5)	S	BROMOFLUOROBENZENE	12.27	2065047	51.016	PPB	
11)	S	FLUOROBENZENE #2	6.91	8383276	37.785	PPB	
16)	S	BROMOFLUOROBENZENE #2	12.27	12114799	40.462	PPB	
		Target Compounds					
1)	H	Gasoline AK GRO (9-24-14)	8.51	2498851	0.044	PPM	
2)	H	Entire GAS Envelope (9-24-	12.21	8126817	0.113	PPM	
3)	H	GASOLINE (9-24-14)	13.51	3822536	0.075	PPM	
7)	H	entire GAS envelope #2 (9-	12.26	15629045	0.060	PPM	
8)	H	GASOLINE #2 (9-24-14)	13.56	8668342	0.020	PPM	
9)		MTBE #2	4.64	3760	0.003	PPB	
10)		BENZENE #2	6.68	76892	0.218	PPB	
12)		TOLUENE #2	9.06	238633	0.681	PPB	
13)		ETHYLBENZENE #2	11.03	113154	0.343	PPB	
14)		m,p-XYLENE #2	11.28	392799	0.807	PPB	m
15)		o-XYLENE #2	11.78	137872	0.284	PPB	

1/27

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126019.D
Operator :
Acquired : 26 Jan 2015 21:44 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-159-01s
Misc Info : V2-36-17
Vial Number: 19



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126020.D\FID1A.CH Vial: 20
Signal #2 : d:\btex\DATA\D150126\0126020.D\FID2B.CH
Acq On : 26 Jan 2015 22:17 Operator:
Sample : 01-159-02s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 22:45 2015 Quant Results File: 141012DB.RES

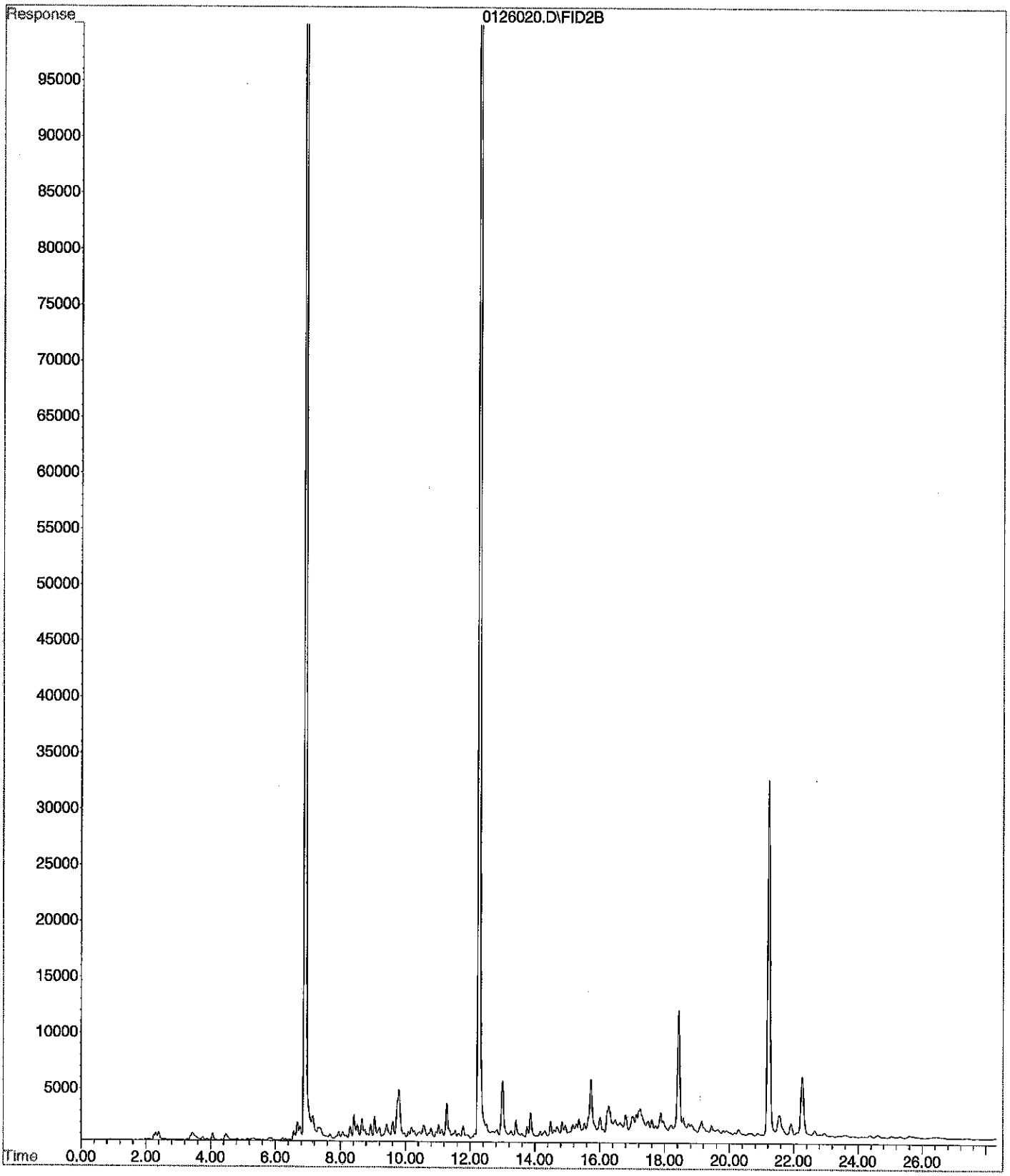
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3548258	51.219	PPB
5)	S	BROMOFLUOROBENZENE	12.27	2128233	52.595	PPB
11)	S	FLUOROBENZENE #2	6.91	8786088	39.617	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	12525887	41.851	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	2200329	0.038	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	6453366	0.088	PPM
3)	H	GASOLINE (9-24-14)	13.51	3091759	0.057	PPM
7)	H	entire GAS envelope #2 (9-	12.26	12440884	0.038	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	6749817	0.002	PPM
9)		MTBE #2	4.70	3593	0.001	PPB
10)		BENZENE #2	6.68	63826	0.173	PPB
12)		TOLUENE #2	9.06	84103	0.125	PPB
13)		ETHYLBENZENE #2	11.02	56598	0.112	PPB
14)		m,p-XYLENE #2	11.28	185723	0.093	PPB
15)		o-XYLENE #2	11.78	61539	N.D.	PPB

1/2

File : X:\BTEX\DARYL\DATA\D150126\0126020.D
Operator :
Acquired : 26 Jan 2015 22:17 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-159-02s
Misc Info : V2-36-17
Vial Number: 20



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D150126\0126003.D\FID2B.CH
Acq On : 26 Jan 2015 12:45 Operator:
Sample : MB0126S1 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 13:13 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

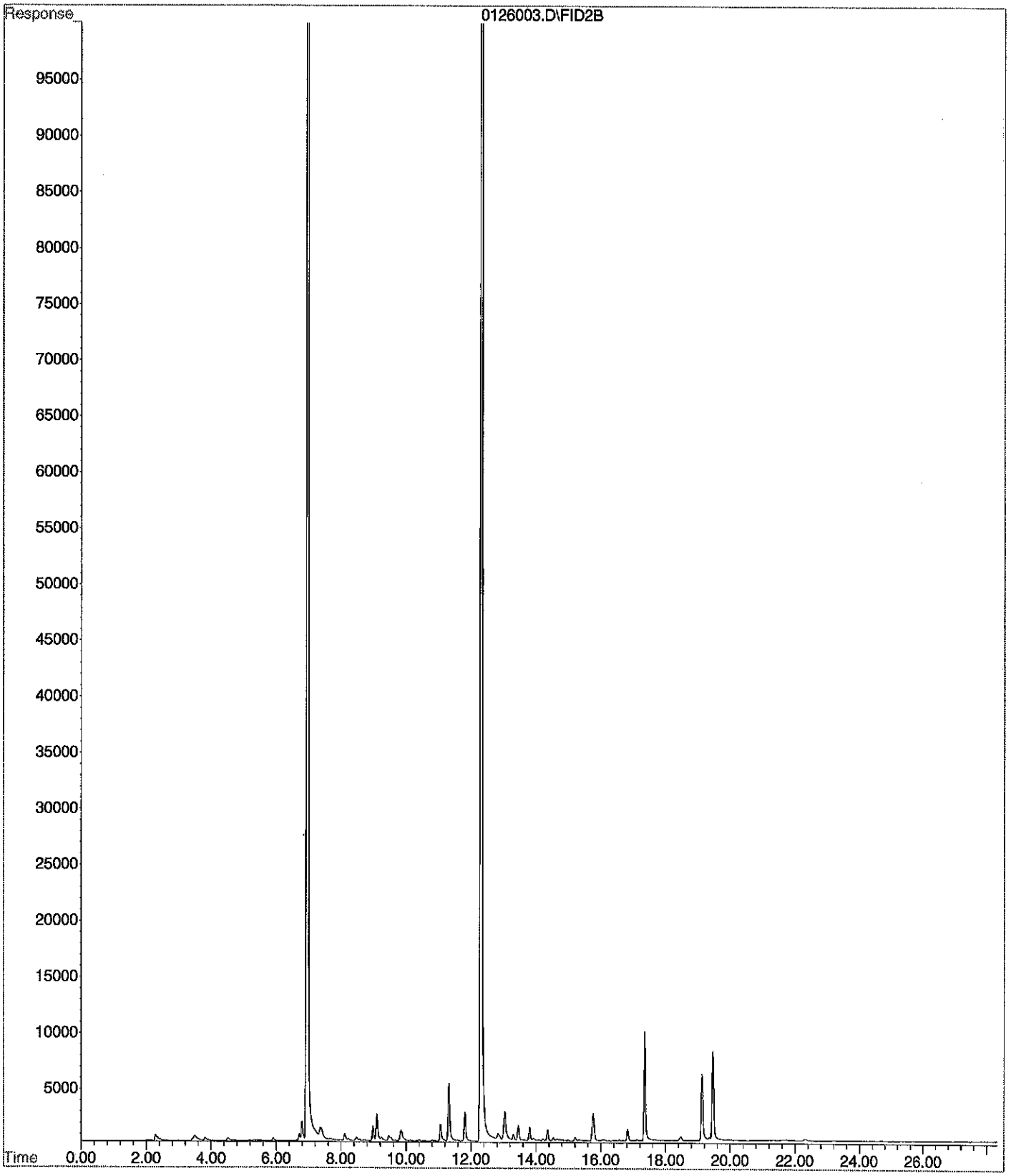
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.95	3239369	46.731 PPB
5)	S	BROMOFLUOROBENZENE	12.31	1910114	47.146 PPB
11)	S	FLUOROBENZENE #2	6.95	8216298	37.026 PPB
16)	S	BROMOFLUOROBENZENE #2	12.31	11250619	37.543 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	1034556	0.014 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2978881	0.034 PPM
3)	H	GASOLINE (9-24-14)	13.51	1048689	0.005 PPM
7)	H	entire GAS envelope #2 (9-	12.26	3911512	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2231746	N.D. PPM
9)		MTBE #2	4.70	10293	0.093 PPB
10)		BENZENE #2	6.72	23046	0.034 PPB
12)		TOLUENE #2	9.10	90719	0.149 PPB
13)		ETHYLBENZENE #2	11.07	58499	0.120 PPB
14)		m,p-XYLENE #2	11.32	207301	0.167 PPB
15)		o-XYLENE #2	11.81	94311	0.110 PPB

1/24

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126003.D
Operator :
Acquired : 26 Jan 2015 12:45 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: MB0126S1
Misc Info : V2-36-17
Vial Number: 3



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150126\0126004.D\FID1A.CH Vial: 4
Signal #2 : X:\BTEX\DARYL\DATA\D150126\0126004.D\FID2B.CH
Acq On : 26 Jan 2015 13:19 Operator:
Sample : 01-171-02s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

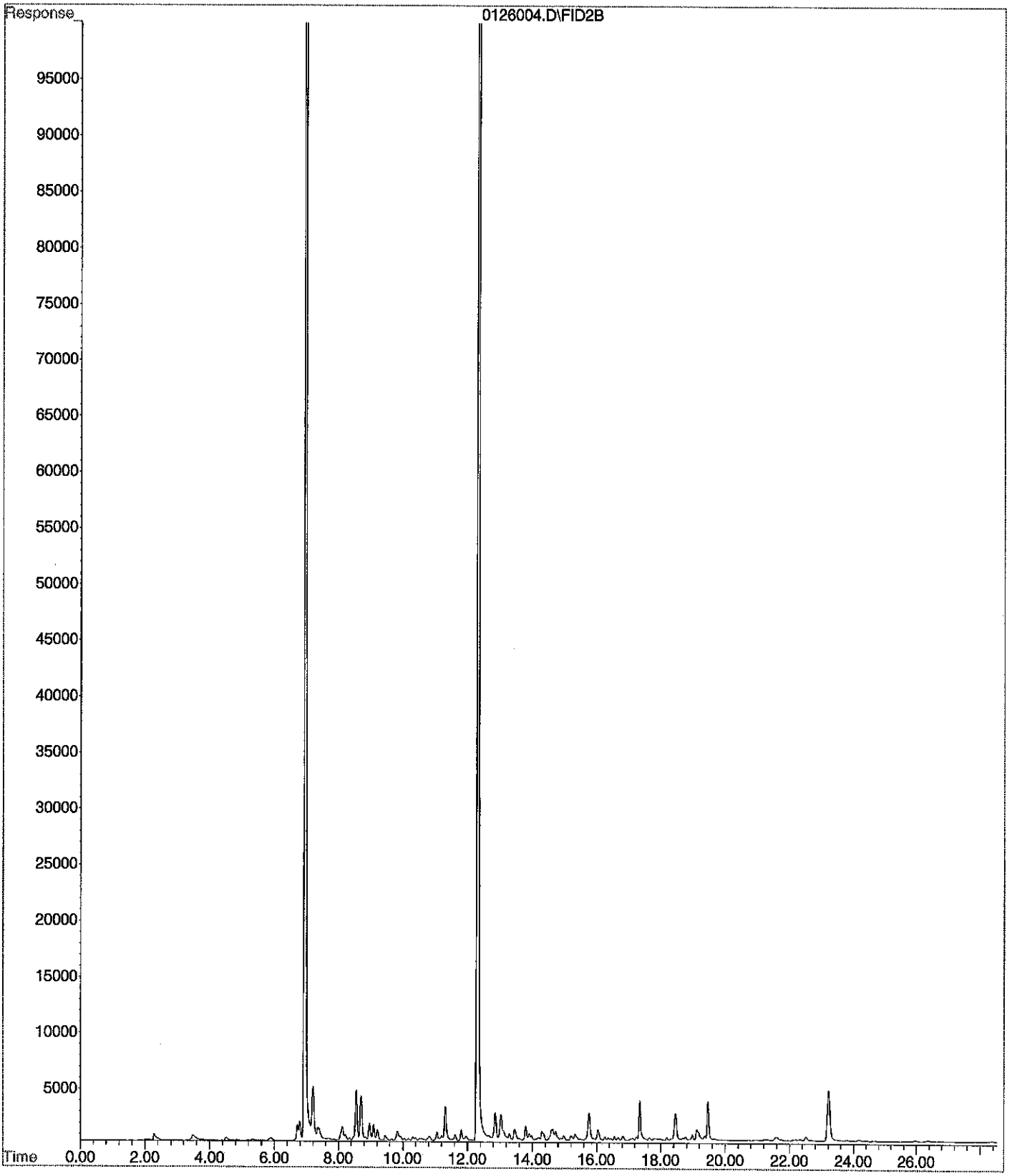
Quant Time: Jan 26 13:48 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	2831489	40.805 PPB
5)	S	BROMOFLUOROBENZENE	12.30	1673528	41.235 PPB
11)	S	FLUOROBENZENE #2	6.94	6970461	31.362 PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	9823071	32.721 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	1980658	0.034 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3905406	0.048 PPM
3)	H	GASOLINE (9-24-14)	13.51	1345751	0.013 PPM
7)	H	entire GAS envelope #2 (9-	12.26	4869869	N.D. PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	2627352	N.D. PPM
9)		MTBE #2	4.71	415	N.D. PPB
10)		BENZENE #2	6.72	54151	0.140 PPB
12)		TOLUENE #2	9.09	55678	0.023 PPB
13)		ETHYLBENZENE #2	11.06	33878	0.020 PPB
14)		m,p-XYLENE #2	11.32	143138	N.D. PPB
15)		o-XYLENE #2	11.81	38896	N.D. PPB

File : X:\BTEX\DARYL\DATA\D150126\0126004.D
Operator :
Acquired : 26 Jan 2015 13:19 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-171-02s
Misc Info : V2-36-17
Vial Number: 4



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150126\0126009.D\FID1A.CH Vial: 9
Signal #2 : X:\BTEX\DARYL\DATA\D150126\0126009.D\FID2B.CH
Acq On : 26 Jan 2015 16:11 Operator:
Sample : 01-171-02s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

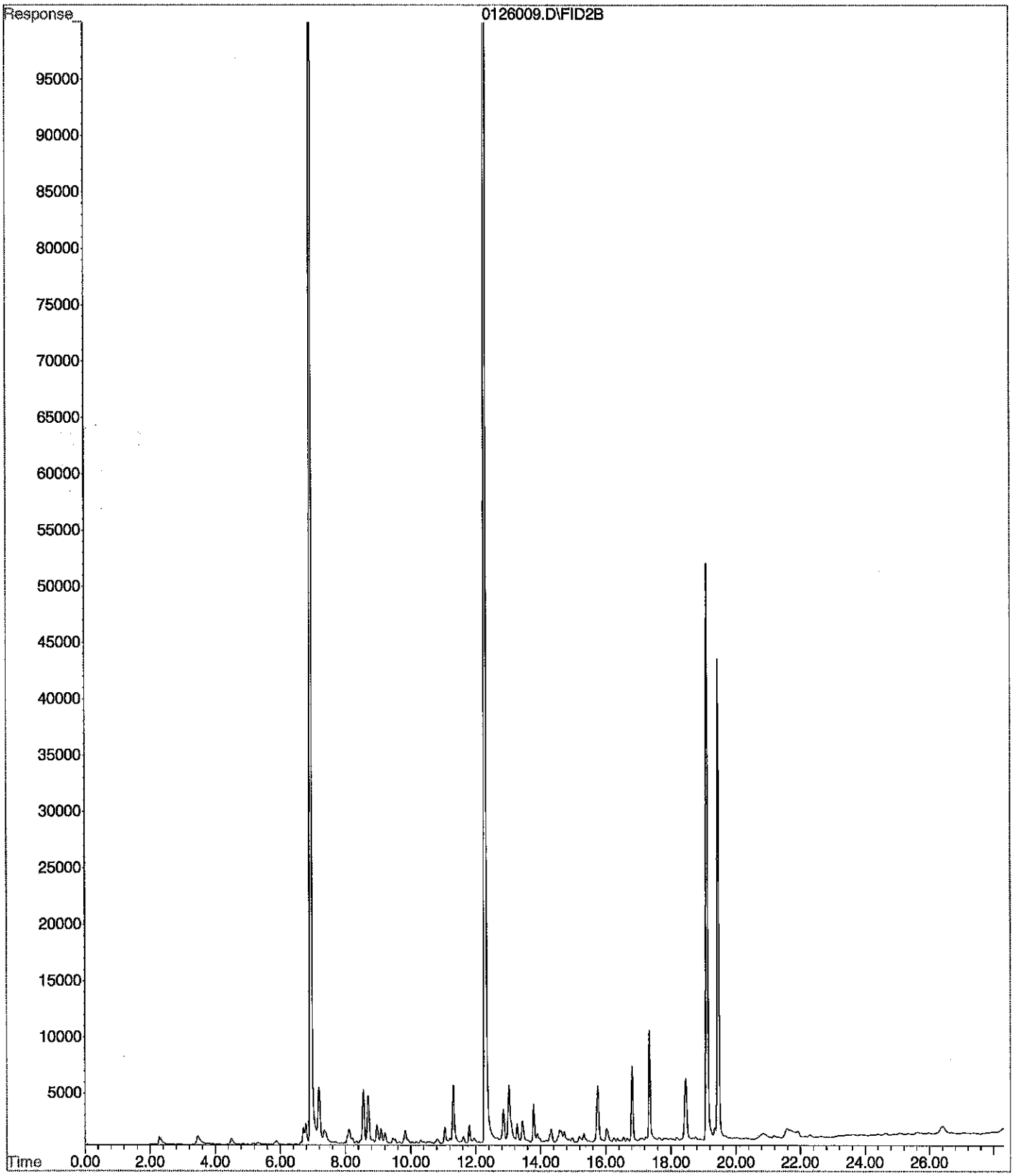
Quant Time: Jan 26 16:39 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	2805582	40.429	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1683755	41.491	PPB
11)	S	FLUOROBENZENE #2	6.94	6588836	29.627	PPB
16)	S	BROMOFLUOROBENZENE #2	12.30	9402118	31.299	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	2397814	0.042	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	6172811	0.083	PPM
3)	H	GASOLINE (9-24-14)	13.51	2225367	0.035	PPM
7)	H	entire GAS envelope #2 (9-	12.26	10358585	0.023	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	4044288	N.D.	PPM
9)		MTBE #2	4.69	3499	N.D.	PPB
10)		BENZENE #2	6.71	58779	0.156	PPB
12)		TOLUENE #2	9.09	49988	0.003	PPB
13)		ETHYLBENZENE #2	11.05	57468	0.116	PPB
14)		m,p-XYLENE #2	11.31	216758	0.200	PPB
15)		o-XYLENE #2	11.80	58144	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150126\0126009.D
Operator :
Acquired : 26 Jan 2015 16:11 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-171-02s DUP
Misc Info : V2-36-17
Vial Number: 9



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150127\0127006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D150127\0127006.D\FID2B.CH
Acq On : 27 Jan 2015 17:44 Operator:
Sample : 01-159-01s MS Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

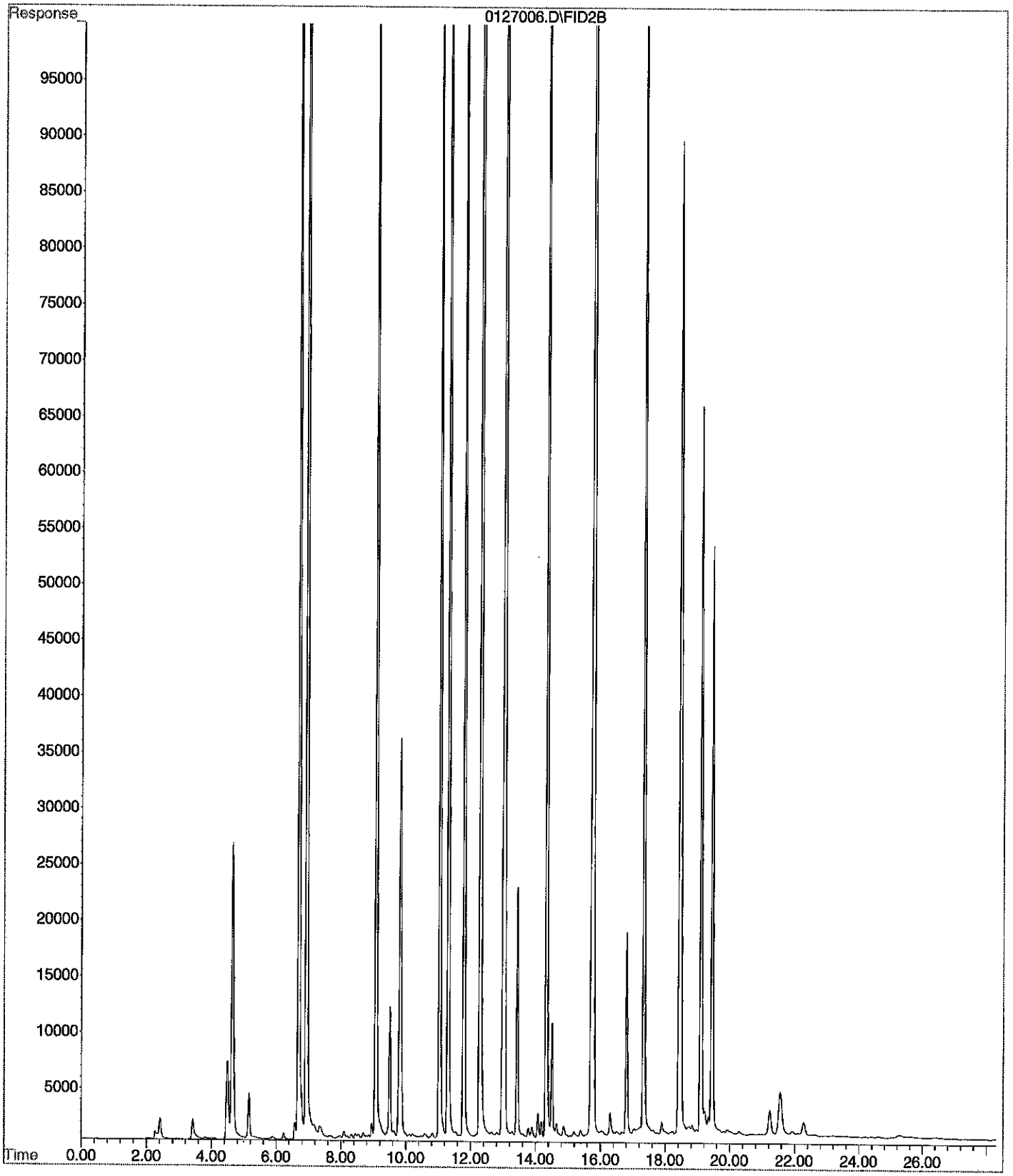
Quant Time: Jan 27 18:13 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	2516324	36.226	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1406957	34.575	PPB
11)	S	FLUOROBENZENE #2	6.93	6385828	28.704	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	8470562	28.152	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	11106145	0.219	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	22084297	0.327	PPM
3)	H	GASOLINE (9-24-14)	13.51	14697360	0.350	PPM
7)	H	entire GAS envelope #2 (9-	12.26	61543749	0.380	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	43768573	0.340	PPM
9)		MTBE #2	4.65	1353583	18.489	PPB
10)		BENZENE #2	6.69	4412119	14.990	PPB
12)		TOLUENE #2	9.07	4218231	15.001	PPB
13)		ETHYLBENZENE #2	11.04	3700293	14.950	PPB
14)		m,p-XYLENE #2	11.30	4460151	14.829	PPB
15)		o-XYLENE #2	11.79	3792268	14.890	PPB

File : X:\BTEX\DARYL\DATA\D150127\0127006.D
Operator :
Acquired : 27 Jan 2015 17:44 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-159-01s MS
Misc Info : V2-36-17,V2-37-04
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150127\0127007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D150127\0127007.D\FID2B.CH
Acq On : 27 Jan 2015 18:18 Operator:
Sample : 01-159-01s MSD Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

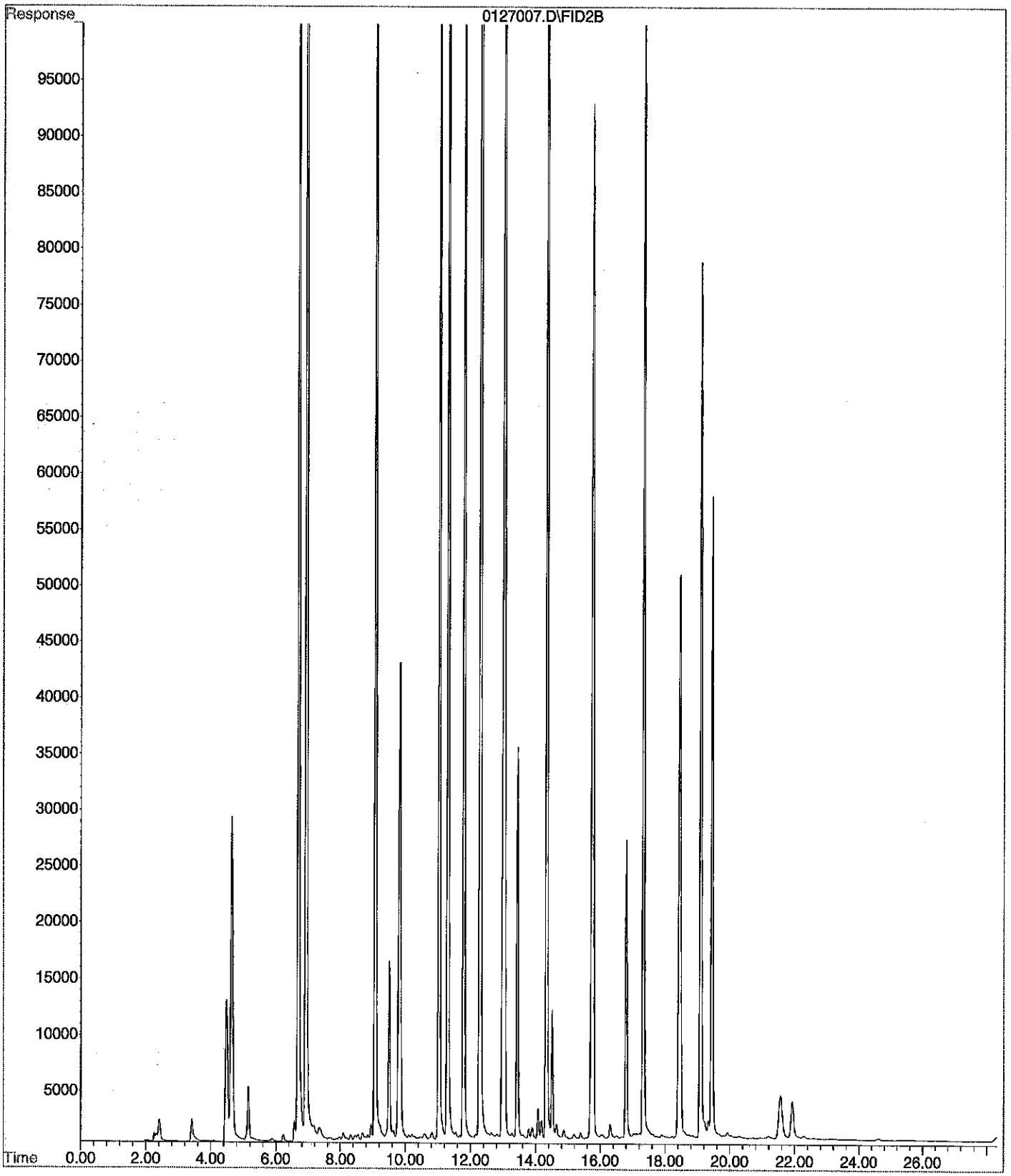
Quant Time: Jan 27 18:46 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	2588602	37.276 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1445733	35.544 PPB
11)	S	FLUOROBENZENE #2	6.93	6625575	29.794 PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	8740618	29.064 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	11830019	0.234 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23178774	0.344 PPM
3)	H	GASOLINE (9-24-14)	13.51	15984190	0.383 PPM
7)	H	entire GAS envelope #2 (9-	12.26	59285959	0.364 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	42765087	0.331 PPM
9)		MTBE #2	4.64	1479575	20.214 PPB
10)		BENZENE #2	6.69	4627843	15.725 PPB
12)		TOLUENE #2	9.07	4430461	15.765 PPB
13)		ETHYLBENZENE #2	11.04	3899687	15.762 PPB
14)		m,p-XYLENE #2	11.30	4700433	15.657 PPB
15)		o-XYLENE #2	11.79	4048768	15.915 PPB

File : X:\BTEX\DARYL\DATA\D150127\0127007.D
Operator :
Acquired : 27 Jan 2015 18:18 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-159-01s MSD
Misc Info : V2-36-17,V2-37-04
Vial Number: 7



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150126\0126001.D\FID2B.CH
Acq On : 26 Jan 2015 11:24 Operator:
Sample : CCVD0126G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 11:53 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

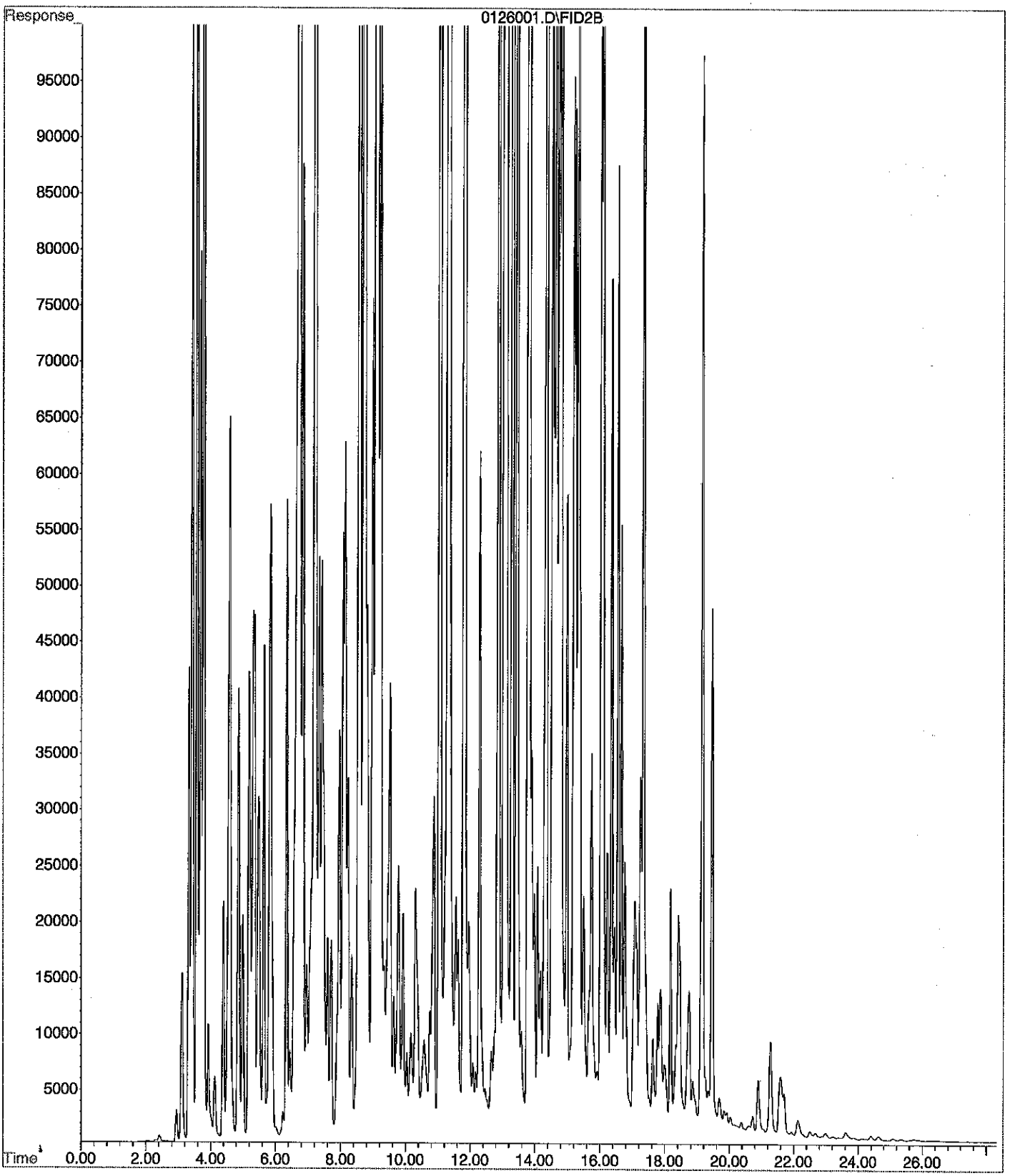
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	277375	3.698	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1332303	32.710	PPB
11)	S	FLUOROBENZENE #2	6.95	705645	2.878	PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	2745536	8.813	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	291176255	5.908	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	391584293	5.987	PPM
3)	H	GASOLINE (9-24-14)	13.51	221304231	5.577	PPM
7)	H	entire GAS envelope #2 (9-	12.26	672474891	4.635	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	507627878	4.568	PPM
9)		MTBE #2	4.58	3728494	51.013	PPB
10)		BENZENE #2	6.70	44717458	152.333	PPB
12)		TOLUENE #2	9.09	112624386	405.085	PPB
13)		ETHYLBENZENE #2	11.05	28694478	116.730	PPB
14)		m,p-XYLENE #2	11.31	102227462	351.884	PPB
15)		o-XYLENE #2	11.80	39792131	158.771	PPB

1/26

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126001.D
Operator :
Acquired : 26 Jan 2015 11:24 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126036.D\FID1A.CH Vial: 36
Signal #2 : d:\btex\DATA\D150126\0126036.D\FID2B.CH
Acq On : 27 Jan 2015 7:07 Operator:
Sample : CCVD0126G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 27 7:35 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

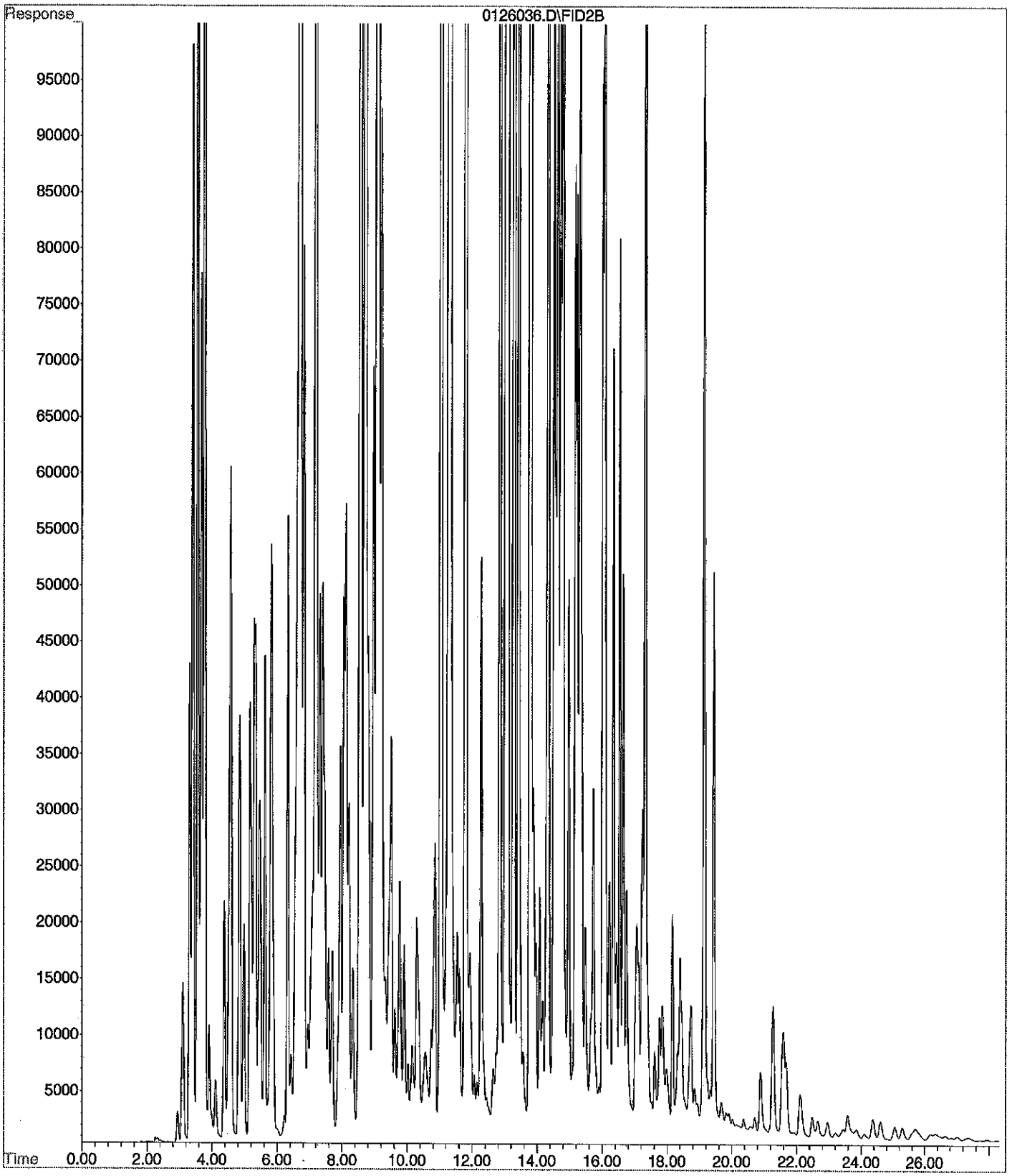
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1148783	28.126	PPB
11)	S	FLUOROBENZENE #2	6.95	466255	1.789	PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	2277010	7.230	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	271923006	5.517	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	364121340	5.566	PPM
3)	H	GASOLINE (9-24-14)	13.51	207677175	5.232	PPM
7)	H	entire GAS envelope #2 (9-	12.26	642988689	4.430	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	484993181	4.362	PPM
9)		MTBE #2	4.56	3425049	46.857	PPB
10)		BENZENE #2	6.69	44034952	150.007	PPB
12)		TOLUENE #2	9.07	112573277	404.901	PPB
13)		ETHYLBENZENE #2	11.04	27297761	111.043	PPB
14)		m,p-XYLENE #2	11.29	99861665	343.728	PPB
15)		o-XYLENE #2	11.79	38169101	152.284	PPB

1/27

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126036.D
Operator :
Acquired : 27 Jan 2015 7:07 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126G-2
Misc Info : V2-36-08
Vial Number: 36



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150126\0126002.D\FID2B.CH
Acq On : 26 Jan 2015 11:58 Operator:
Sample : CCVD0126B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 12:27 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3271895	47.203	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1917782	47.337	PPB
11)	S	FLUOROBENZENE #2	6.93	8476034	38.207	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11652083	38.899	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	31456080	0.632	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	55343313	0.836	PPM
3)	H	GASOLINE (9-24-14)	13.51	37508852	0.927	PPM
7)	H	entire GAS envelope #2 (9-	12.26	122788950	0.806	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	84538352	0.711	PPM
9)		MTBE #2	4.65	4168649	57.040	PPB
10)		BENZENE #2	6.69	14425860	49.113	PPB
12)		TOLUENE #2	9.07	13653180	48.952	PPB
13)		ETHYLBENZENE #2	11.04	11985698	48.690	PPB
14)		m,p-XYLENE #2	11.31	14593714	49.765	PPB
15)		o-XYLENE #2	11.79	12190145	48.454	PPB

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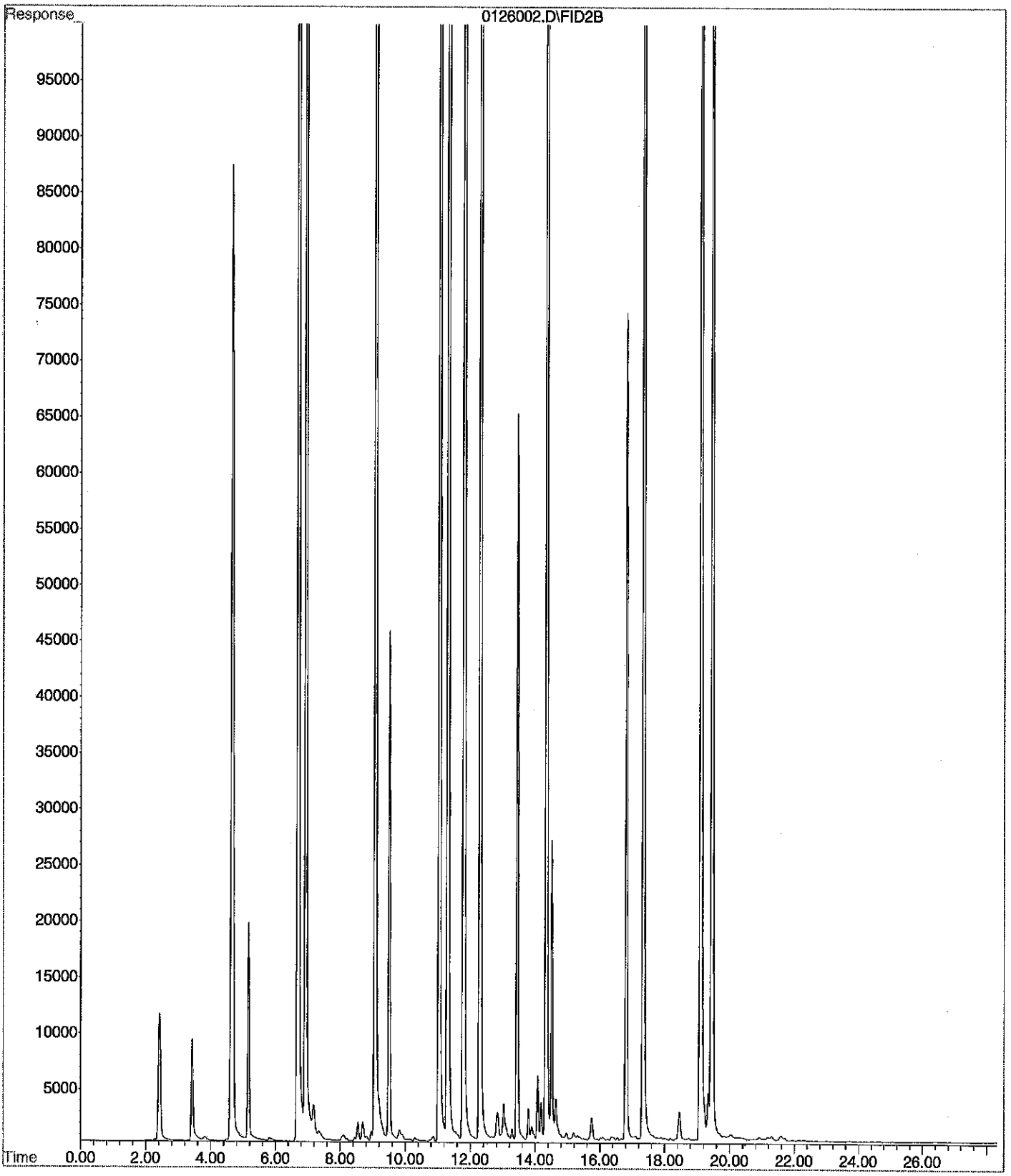
File : X:\BTEX\DARYL\DATA\D150126\0126002.D
Operator :
Acquired : 26 Jan 2015 11:58 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150126\0126017.D\FID2B.CH
Acq On : 26 Jan 2015 20:38 Operator:
Sample : CCVD0126B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 21:06 2015 Quant Results File: 141012DB.RES

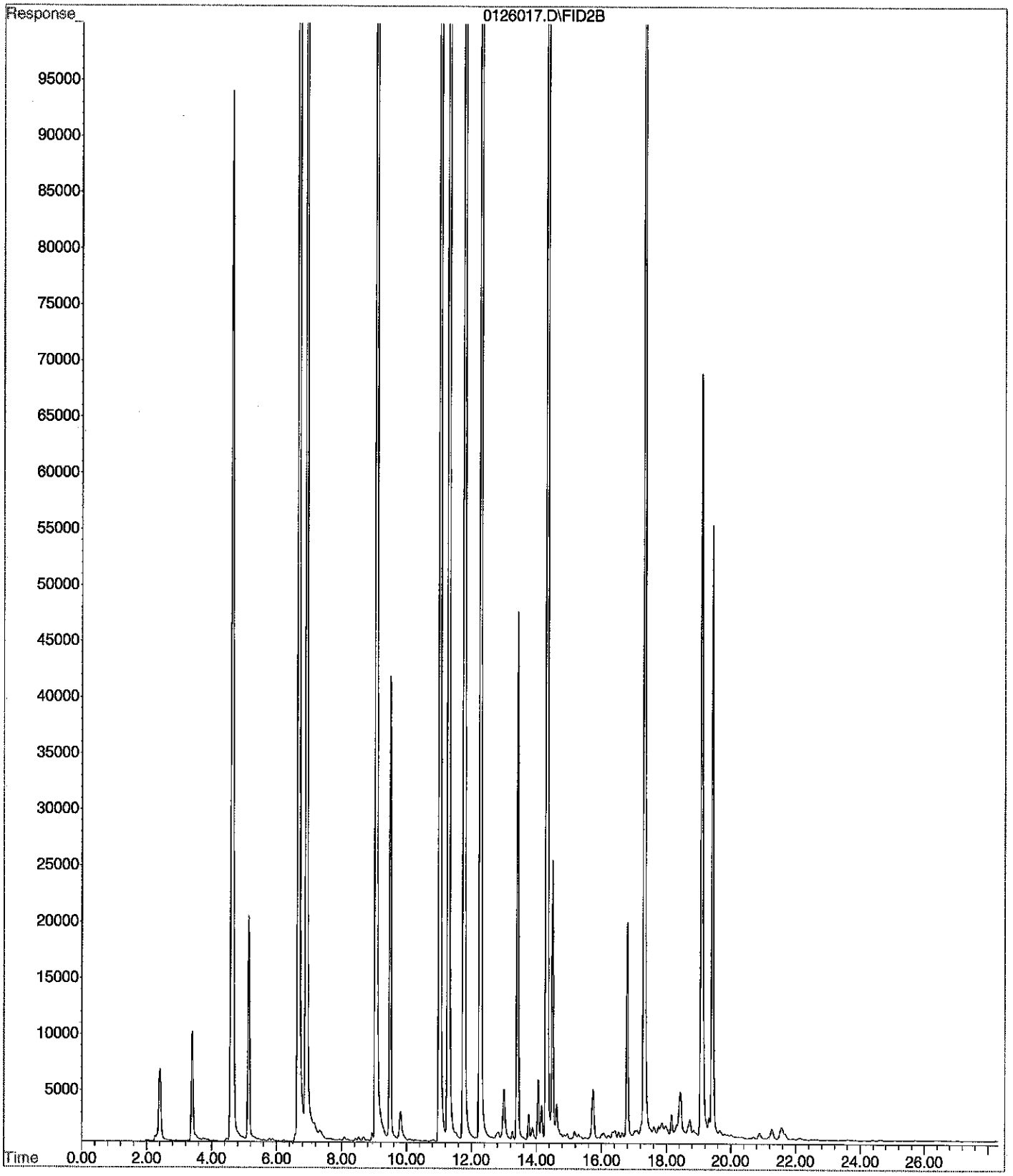
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3212566	46.342 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1863924	45.992 PPB
11)	S	FLUOROBENZENE #2	6.91	8447402	38.077 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11192530	37.347 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30070331	0.604 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48174174	0.727 PPM
3)	H	GASOLINE (9-24-14)	13.51	31689048	0.780 PPM
7)	H	entire GAS envelope #2 (9-	12.26	101570787	0.659 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	74433862	0.619 PPM
9)		MTBE #2	4.63	4439782	60.754 PPB
10)		BENZENE #2	6.67	14310773	48.720 PPB
12)		TOLUENE #2	9.06	13256939	47.526 PPB
13)		ETHYLBENZENE #2	11.02	11533263	46.847 PPB
14)		m,p-XYLENE #2	11.29	13812549	47.072 PPB
15)		o-XYLENE #2	11.77	11672756	46.386 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126017.D
Operator :
Acquired : 26 Jan 2015 20:38 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126035.D\FID1A.CH Vial: 35
Signal #2 : d:\btex\DATA\D150126\0126035.D\FID2B.CH
Acq On : 27 Jan 2015 6:33 Operator:
Sample : CCVD0126B-3 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

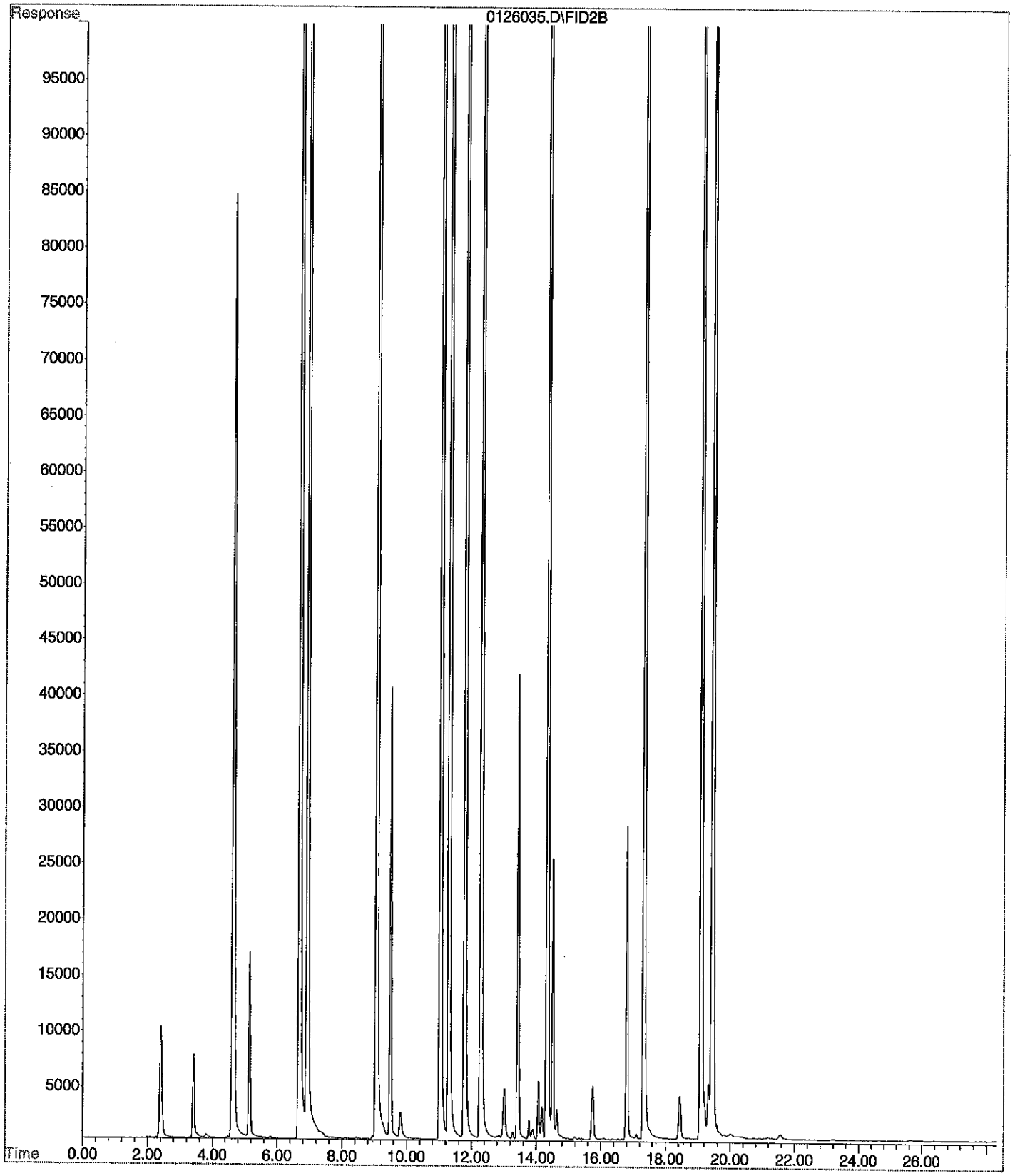
Quant Time: Jan 27 7:01 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3296802	47.565 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1942255	47.949 PPB
11)	S	FLUOROBENZENE #2	6.92	8545049	38.521 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11680900	38.997 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28597025	0.574 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48048686	0.725 PPM
3)	H	GASOLINE (9-24-14)	13.51	31799513	0.783 PPM
7)	H	entire GAS envelope #2 (9-	12.26	113052743	0.739 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	76348558	0.637 PPM
9)		MTBE #2	4.64	4079549	55.820 PPB
10)		BENZENE #2	6.68	13795532	46.965 PPB
12)		TOLUENE #2	9.07	12807157	45.907 PPB
13)		ETHYLBENZENE #2	11.03	11181678	45.415 PPB
14)		m,p-XYLENE #2	11.30	13375700	45.566 PPB
15)		o-XYLENE #2	11.78	11386385	45.241 PPB

File : X:\BTEX\DARYL\DATA\D150126\0126035.D
Operator :
Acquired : 27 Jan 2015 6:33 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-3
Misc Info : V2-36-23,V2-37-04
Vial Number: 35



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150127\0127002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150127\0127002.D\FID2B.CH
Acq On : 27 Jan 2015 12:39 Operator:
Sample : CCVD0127B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

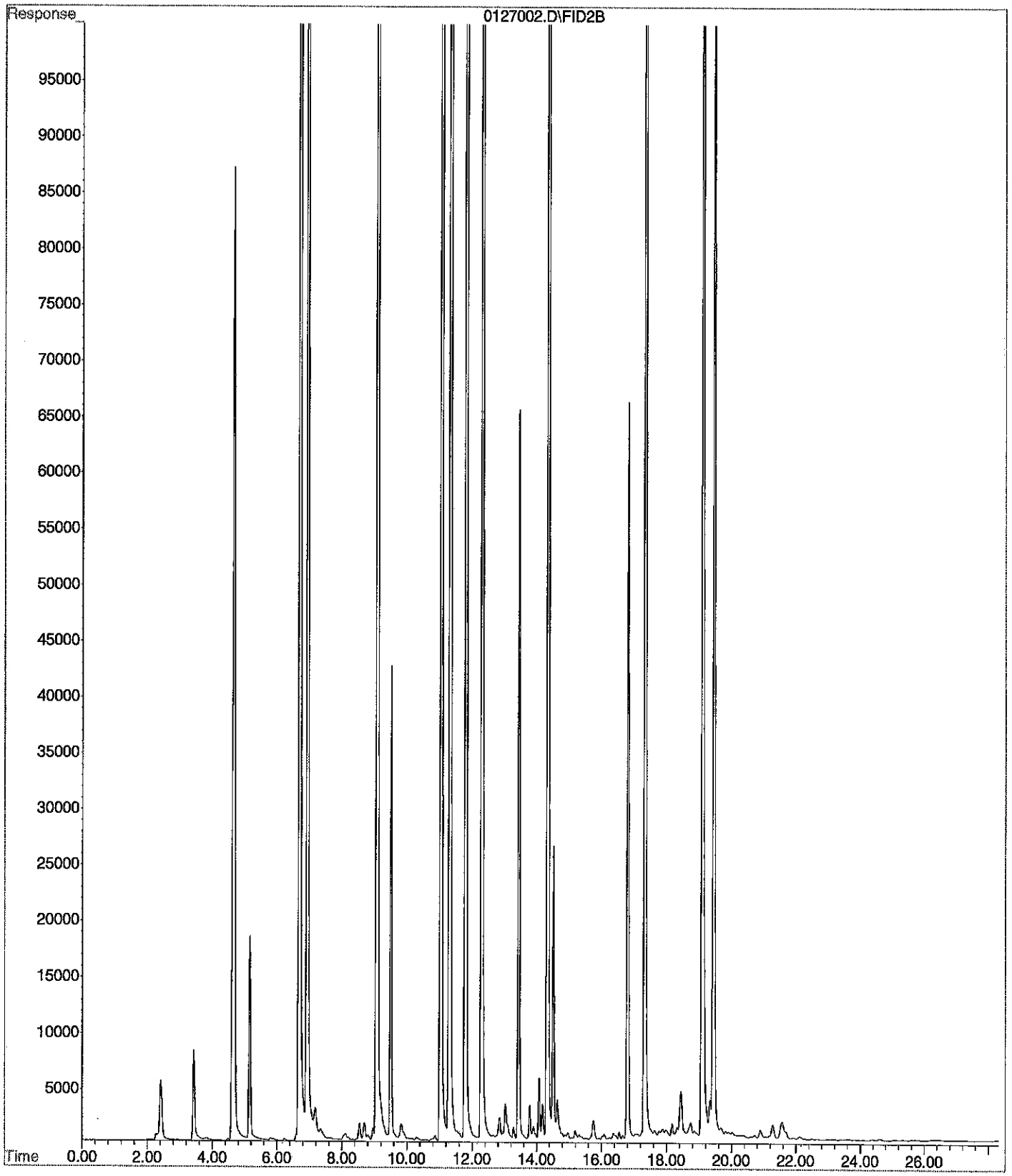
Quant Time: Jan 27 13:07 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3312188	47.789	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1981060	48.918	PPB
11)	S	FLUOROBENZENE #2	6.93	8471815	38.188	PPB
16)	S	BROMOFLUOROBENZENE #2	12.29	11944912	39.889	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	30787351	0.619	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	53561733	0.809	PPM
3)	H	GASOLINE (9-24-14)	13.51	36147791	0.893	PPM
7)	H	entire GAS envelope #2 (9-	12.26	113021641	0.738	PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	80378420	0.673	PPM
9)		MTBE #2	4.65	4220550	57.751	PPB
10)		BENZENE #2	6.69	14013142	47.706	PPB
12)		TOLUENE #2	9.07	13305772	47.702	PPB
13)		ETHYLBENZENE #2	11.04	11603103	47.132	PPB
14)		m,p-XYLENE #2	11.31	14226935	48.500	PPB
15)		o-XYLENE #2	11.79	11935106	47.434	PPB

File : X:\BTEX\DARYL\DATA\D150127\0127002.D
Operator :
Acquired : 27 Jan 2015 12:39 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0127B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150127\0127017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150127\0127017.D\FID2B.CH
Acq On : 27 Jan 2015 23:48 Operator:
Sample : CCVD0127B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

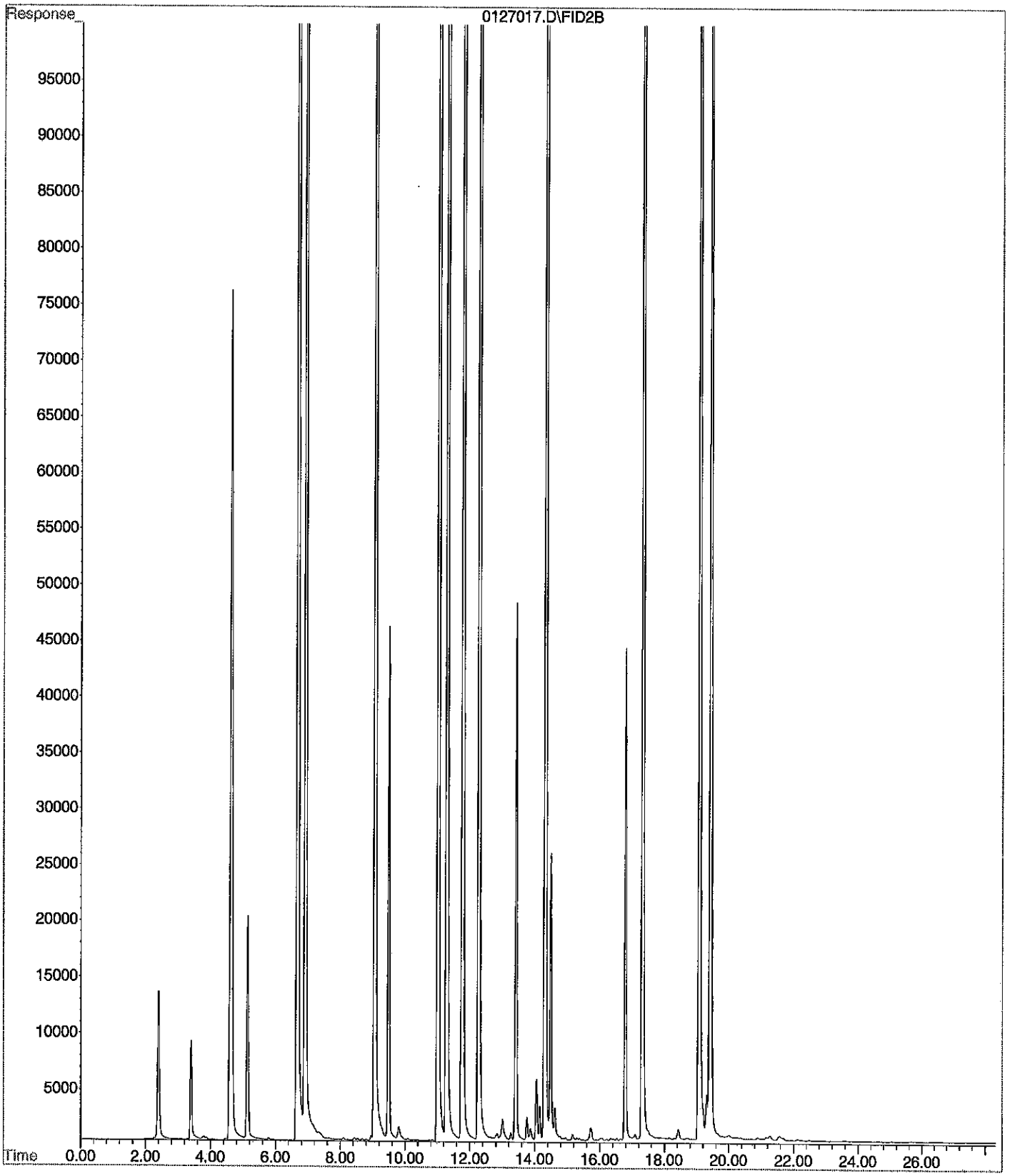
Quant Time: Jan 28 0:16 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3195906	46.099 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1924589	47.507 PPB
11)	S	FLUOROBENZENE #2	6.91	8577621	38.669 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11717346	39.120 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	29844395	0.600 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	49927363	0.753 PPM
3)	H	GASOLINE (9-24-14)	13.51	33414605	0.824 PPM
7)	H	entire GAS envelope #2 (9-	12.26	113263683	0.740 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	78646782	0.658 PPM
9)		MTBE #2	4.63	3621639	49.549 PPB
10)		BENZENE #2	6.67	14150306	48.174 PPB
12)		TOLUENE #2	9.05	13216461	47.380 PPB
13)		ETHYLBENZENE #2	11.02	11627452	47.231 PPB
14)		m,p-XYLENE #2	11.28	13960999	47.583 PPB
15)		o-XYLENE #2	11.77	11784486	46.832 PPB

File : X:\BTEX\DARYL\DATA\D150127\0127017.D
Operator :
Acquired : 27 Jan 2015 23:48 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0127B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 17



NWTPH-Gx/Benzene (water) Data

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126009.D Vial: 9
Acq On : 26 Jan 2015 15:18 Operator:
Sample : 01-159-03a Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 13:15 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
6)	S	FLUOROBENZENE #2	9.13	2573672	33.851	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.72	3342626	41.718	PPB	
		Target Compounds					
2)	H	Entire GAS Envelope #2	14.36	861729	N.D.	PPM	
3)	H	GASOLINE #2	15.01	182178	N.D.	PPM	
4)		MTBE #2	6.69	583	0.018	PPB	
5)		BENZENE #2	8.91	5819	0.046	PPB	
7)		TOLUENE #2	11.40	24467	0.250	PPB	
8)		ETHYLBENZENE #2	13.46	5383	0.065	PPB	m
9)		m,p-XYLENE #2	13.69	26026	0.225	PPB	
10)		o-XYLENE #2	14.22	9552	0.091	PPB	

1/28

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

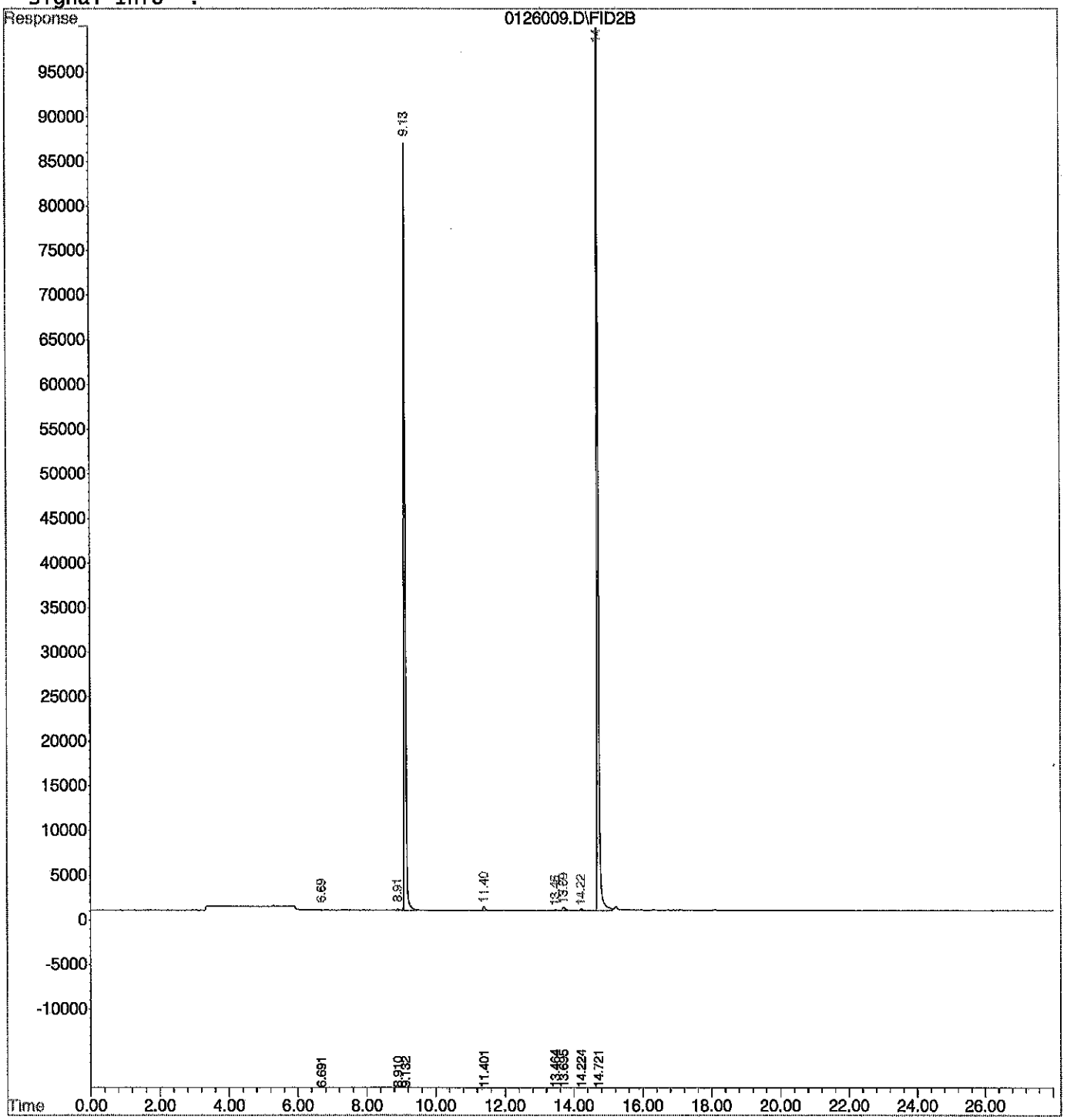
Data File : X:\BTEX\HOPE\DATA\H150126\0126009.D Vial: 9
Acq On : 26 Jan 2015 15:18 Operator:
Sample : 01-159-03a Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 13:15 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126004.D Vial: 4
Acq On : 26 Jan 2015 12:25 Operator:
Sample : MB0126W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 12:53 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.12	2637802	34.700	PPB
11)	S	BROMOFLUOROBENZENE #2	14.71	3412870	42.603	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	1382571	N.D.	PPM
3)	H	GASOLINE #2	14.96	484880	N.D.	PPM
4)		MTBE #2	6.63	840	0.024	PPB
5)		BENZENE #2	8.90	12733	0.111	PPB
7)		TOLUENE #2	11.38	75842	0.836	PPB
8)		ETHYLBENZENE #2	13.43	26100	0.360	PPB
9)		m,p-XYLENE #2	13.67	62894	0.684	PPB
10)		o-XYLENE #2	14.20	24207	0.309	PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126004.D
Acq On : 26 Jan 2015 12:25
Sample : MB0126W1
Misc : V2-36-17

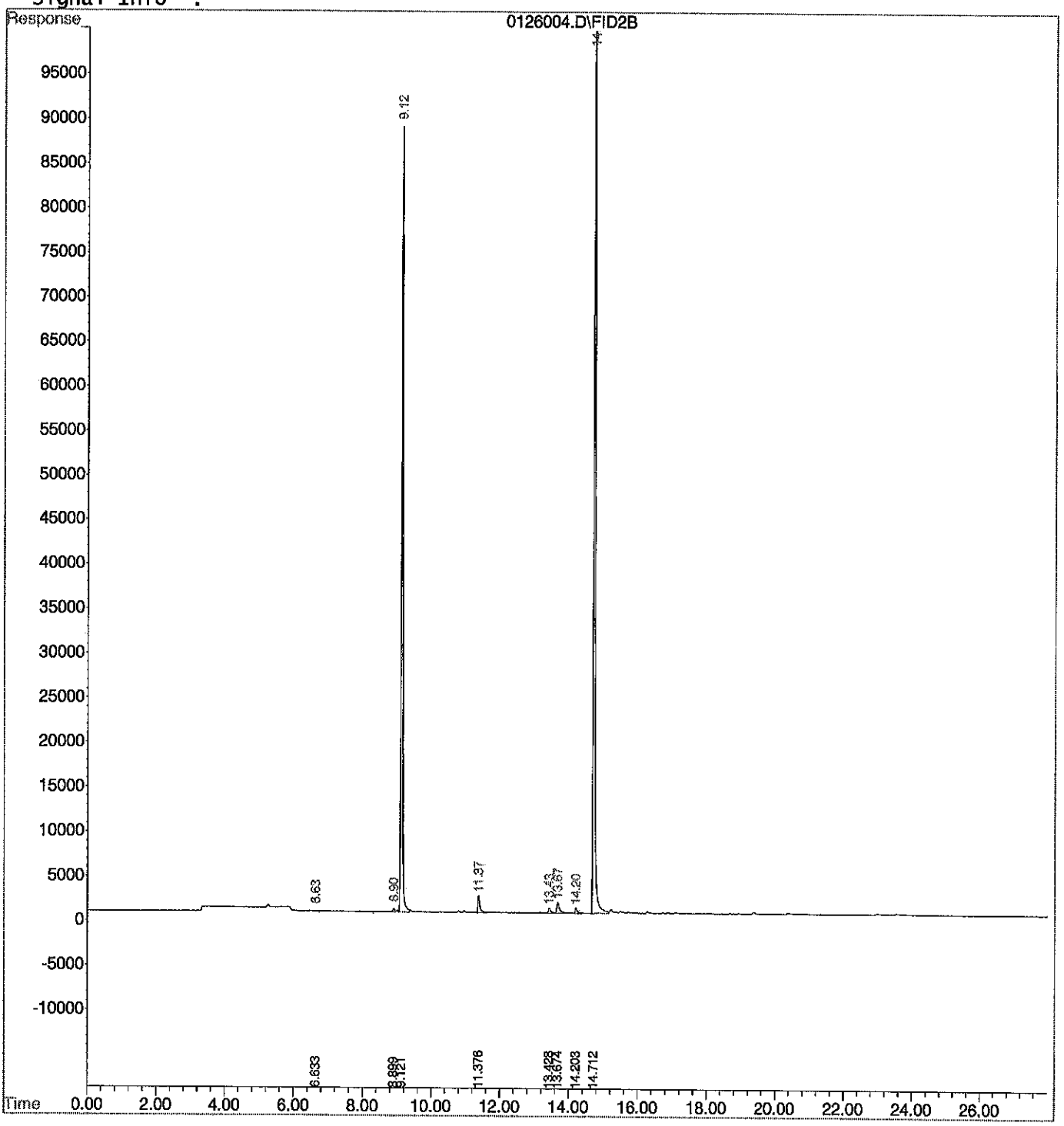
IntFile : EVENTS1.E

Vial: 4
Operator:
Inst : HOPE
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Jan 26 12:53 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126012.D Vial: 12
Acq On : 26 Jan 2015 17:00 Operator:
Sample : 01-127-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:56 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
6)	S	FLUOROBENZENE #2	9.10	2469159	32.468	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.70	3246300	40.504	PPB	
Target Compounds							
2)	H	Entire GAS Envelope #2	14.31	1034845	N.D.	PPM	
3)	H	GASOLINE #2	14.96	210767	N.D.	PPM	
4)		MTBE #2	6.64	728	0.022	PPB	
5)		BENZENE #2	8.89	4291	0.032	PPB	
7)		TOLUENE #2	11.38	12201	0.110	PPB	
8)		ETHYLBENZENE #2	13.45	4662	0.055	PPB	m
9)		m,p-XYLENE #2	13.68	19104	0.138	PPB	
10)		o-XYLENE #2	14.21	8948	0.082	PPB	m

1/28

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

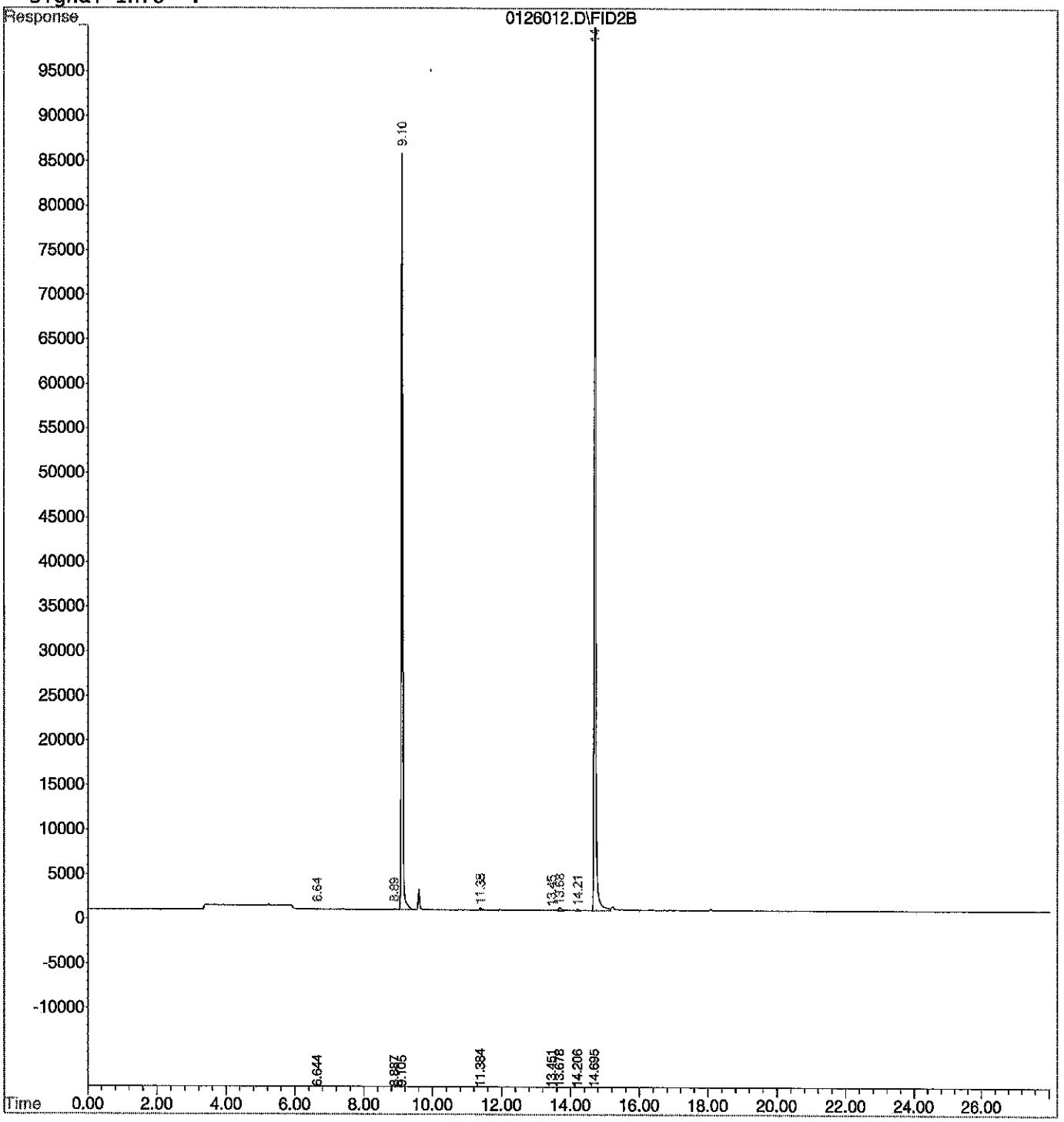
Data File : X:\BTEX\HOPE\DATA\H150126\0126012.D Vial: 12
Acq On : 26 Jan 2015 17:00 Operator:
Sample : 01-127-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:56 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126016.D Vial: 16
Acq On : 26 Jan 2015 19:13 Operator:
Sample : 01-127-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:58 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
6)	S	FLUOROBENZENE #2	9.10	2492761	32.780	PPB	
11)	S	BROMOFLUOROBENZENE #2	14.69	3278746	40.913	PPB	
Target Compounds							
2)	H	Entire GAS Envelope #2	14.31	958972	N.D.	PPM	
3)	H	GASOLINE #2	14.96	195506	N.D.	PPM	
4)		MTBE #2	6.62	652	0.020	PPB	
5)		BENZENE #2	8.87	4978	0.038	PPB	
7)		TOLUENE #2	11.38	10259	0.088	PPB	m
8)		ETHYLBENZENE #2	13.45	3803	0.042	PPB	m
9)		m,p-XYLENE #2	13.68	15603	0.095	PPB	
10)		o-XYLENE #2	14.20	5395	0.029	PPB	

1/28 MV

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

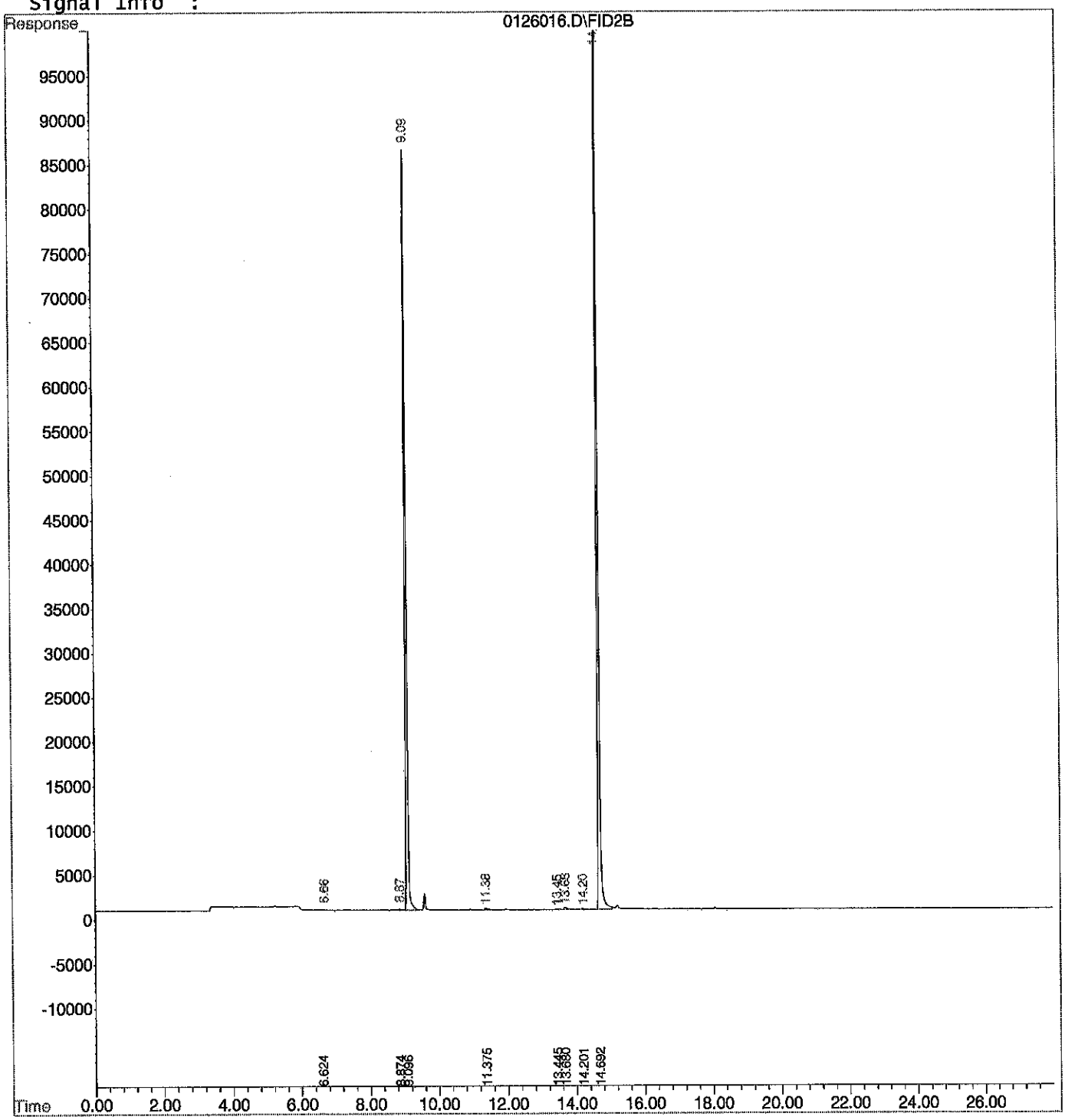
Data File : X:\BTEX\HOPE\DATA\H150126\0126016.D Vial: 16
Acq On : 26 Jan 2015 19:13 Operator:
Sample : 01-127-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 28 10:58 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126021.D\FID1A.CH Vial: 21
Signal #2 : d:\btex\DATA\D150126\0126021.D\FID2B.CH
Acq On : 26 Jan 2015 22:50 Operator:
Sample : 01-127-01c MS Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 23:18 2015 Quant Results File: 141012DB.RES

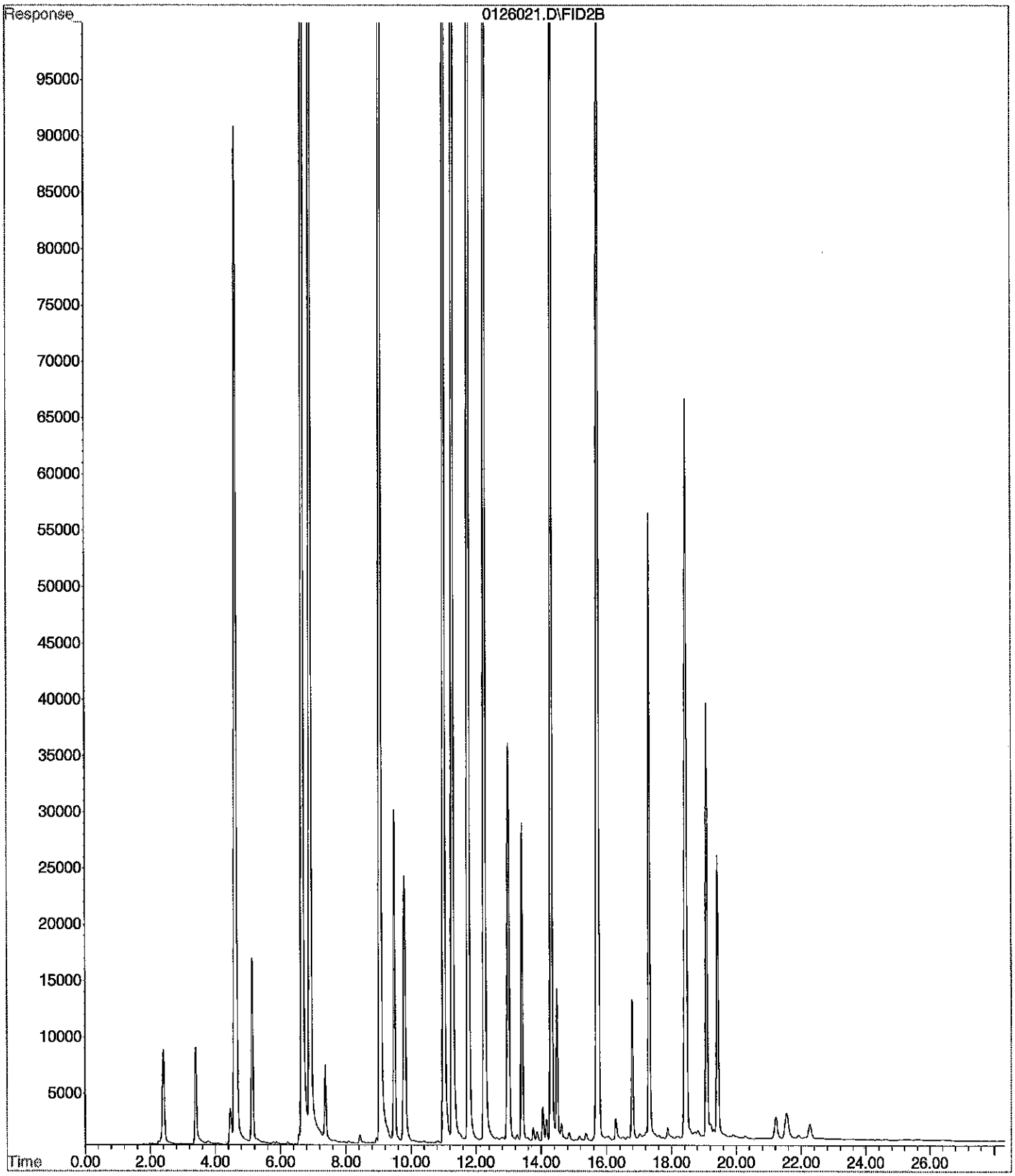
Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3260154	47.033 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1687928	41.595 PPB
11)	S	FLUOROBENZENE #2	6.91	8321963	37.507 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	10074553	33.570 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28038253	0.563 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	41732389	0.628 PPM
3)	H	GASOLINE (9-24-14)	13.51	26636379	0.652 PPM
7)	H	entire GAS envelope #2 (9-	12.26	96650228	0.624 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	69155733	0.571 PPM
9)		MTBE #2	4.62	4397230	60.171 PPB
10)		BENZENE #2	6.67	14102236	48.010 PPB
12)		TOLUENE #2	9.05	13066747	46.841 PPB
13)		ETHYLBENZENE #2	11.02	10991270	44.640 PPB
14)		m,p-XYLENE #2	11.28	13103780	44.628 PPB
15)		o-XYLENE #2	11.77	10900196	43.298 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126021.D
Operator :
Acquired : 26 Jan 2015 22:50 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-127-01c MS
Misc Info : V2-36-23,V2-37-04
Vial Number: 21



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126022.D\FID1A.CH Vial: 22
Signal #2 : d:\btex\DATA\D150126\0126022.D\FID2B.CH
Acq On : 26 Jan 2015 23:23 Operator:
Sample : 01-127-01c MSD Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 26 23:51 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

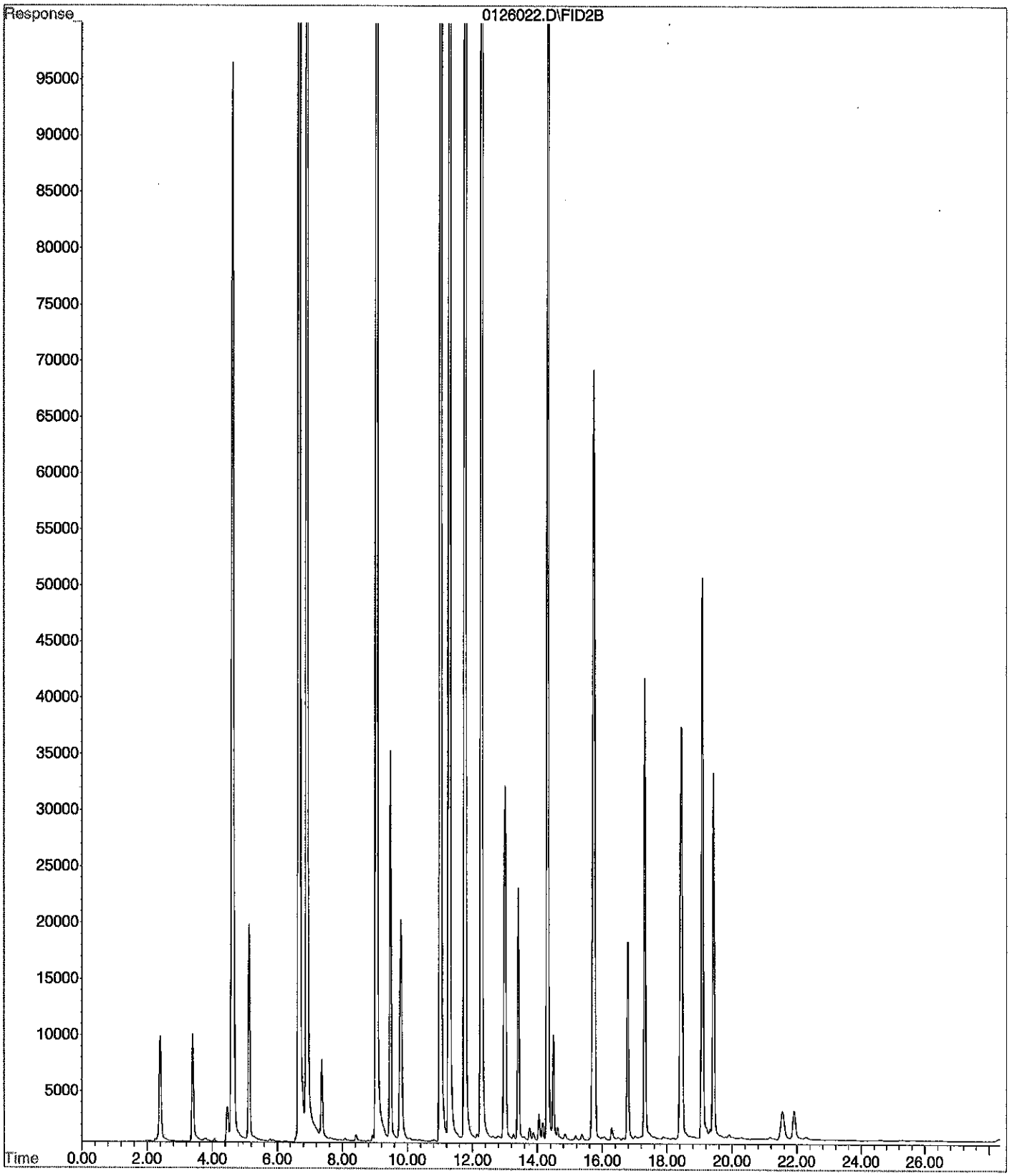
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3350808	48.350 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1618266	39.855 PPB
11)	S	FLUOROBENZENE #2	6.91	8682822	39.147 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	9788378	32.604 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28874111	0.580 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	40662685	0.612 PPM
3)	H	GASOLINE (9-24-14)	13.51	25632709	0.627 PPM
7)	H	entire GAS envelope #2 (9-	12.26	92479389	0.595 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	65553310	0.538 PPM
9)		MTBE #2	4.62	4527011	61.948 PPB
10)		BENZENE #2	6.67	14613876	49.753 PPB
12)		TOLUENE #2	9.05	13531862	48.515 PPB
13)		ETHYLBENZENE #2	11.02	11417345	46.375 PPB
14)		m,p-XYLENE #2	11.28	13557398	46.192 PPB
15)		o-XYLENE #2	11.77	11030055	43.817 PPB

1/27/15

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150126\0126022.D
Operator :
Acquired : 26 Jan 2015 23:23 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: 01-127-01c MSD
Misc Info : V2-36-23,V2-37-04
Vial Number: 22



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126001.D Vial: 1
Acq On : 26 Jan 2015 10:43 Operator:
Sample : CCVH0126G-1 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 11:11 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.11	3229748	42.534	PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	4527059	56.637	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	167520043	4.857	PPM
3)	H	GASOLINE #2	14.96	131571310	4.897	PPM
4)		MTBE #2	6.67	52049	1.186	PPB
5)		BENZENE #2	8.88	12555020	118.577	PPB
7)		TOLUENE #2	11.35	36206597	412.971	PPB
8)		ETHYLBENZENE #2	13.38	7255890	103.303	PPB
9)		m,p-XYLENE #2	13.63	27392792	340.952	PPB
10)		o-XYLENE #2	14.16	10123470	150.510	PPB

Quantitation Report (Not Reviewed)

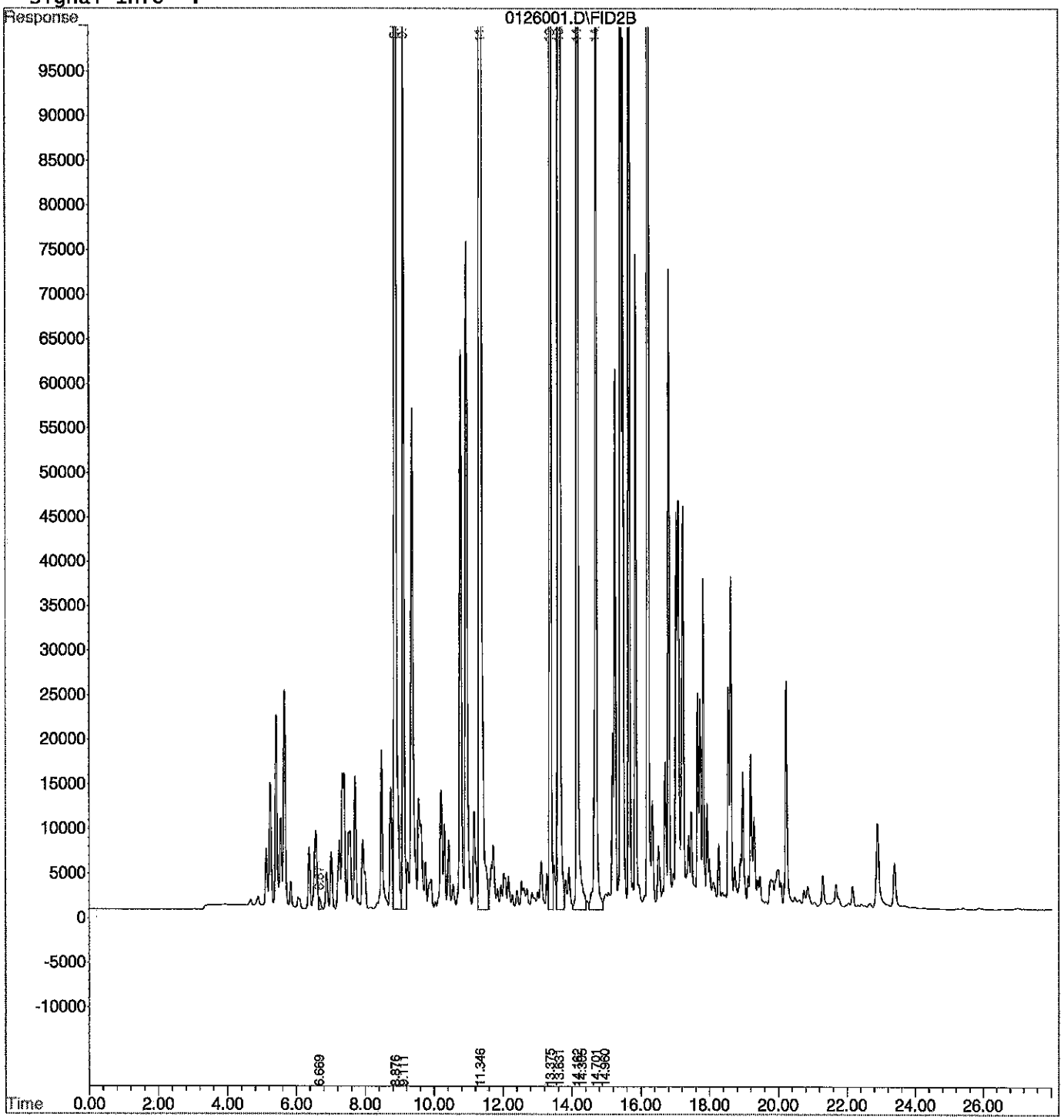
Data File : X:\BTEX\HOPE\DATA\H150126\0126001.D Vial: 1
Acq On : 26 Jan 2015 10:43 Operator:
Sample : CCVH0126G-1 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 11:11 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126038.D Vial: 38
Acq On : 27 Jan 2015 7:21 Operator:
Sample : CCVH0126G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 27 7:49 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.10	2471976	32.505	PPB
11)	S	BROMOFLUOROBENZENE #2	14.69	3753776	46.897	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	152707792	4.423	PPM
3)	H	GASOLINE #2	14.96	122245306	4.548	PPM
4)		MTBE #2	6.55	419346	9.520	PPB
5)		BENZENE #2	8.87	12072598	114.020	PPB
7)		TOLUENE #2	11.34	34710032	395.900	PPB
8)		ETHYLBENZENE #2	13.37	6968994	99.218	PPB
9)		m,p-XYLENE #2	13.63	26277877	327.071	PPB
10)		o-XYLENE #2	14.16	9648052	143.440	PPB

Quantitation Report (Not Reviewed)

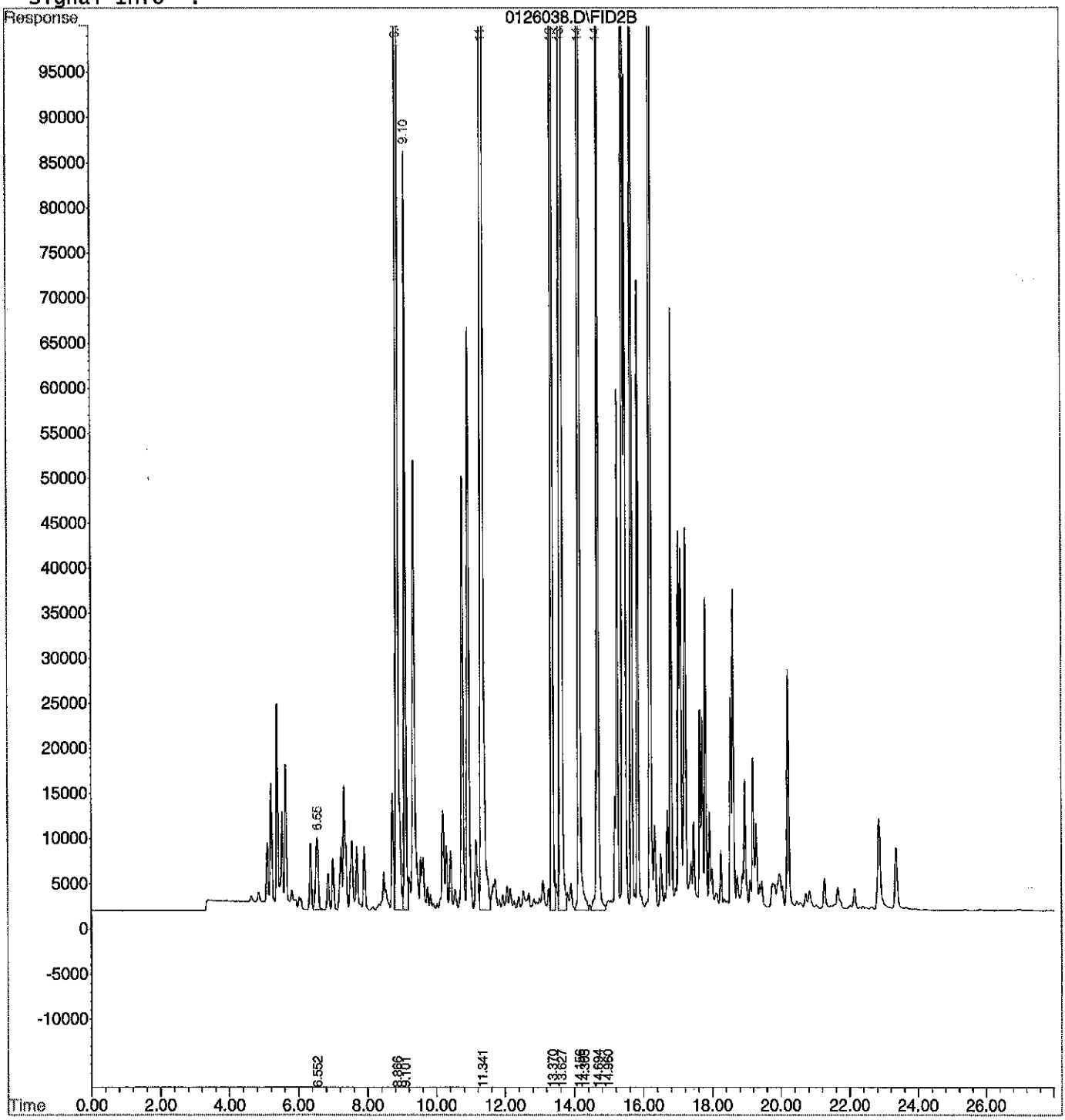
Data File : X:\BTEX\HOPE\DATA\H150126\0126038.D Vial: 38
Acq On : 27 Jan 2015 7:21 Operator:
Sample : CCVH0126G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 27 7:49 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126002.D Vial: 2
Acq On : 26 Jan 2015 11:17 Operator:
Sample : CCVH0126B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 11:45 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2683416	35.304 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	3395958	42.389 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	32712746	0.907 PPM
3)	H	GASOLINE #2	14.96	20890774	0.754 PPM
4)		MTBE #2	6.65	2027943	46.021 PPB
5)		BENZENE #2	8.87	4823905	45.554 PPB
7)		TOLUENE #2	11.34	4030052	45.941 PPB
8)		ETHYLBENZENE #2	13.37	3075899	43.785 PPB
9)		m,p-XYLENE #2	13.64	3631768	45.118 PPB
10)		o-XYLENE #2	14.16	2994680	44.487 PPB

Quantitation Report (Not Reviewed)

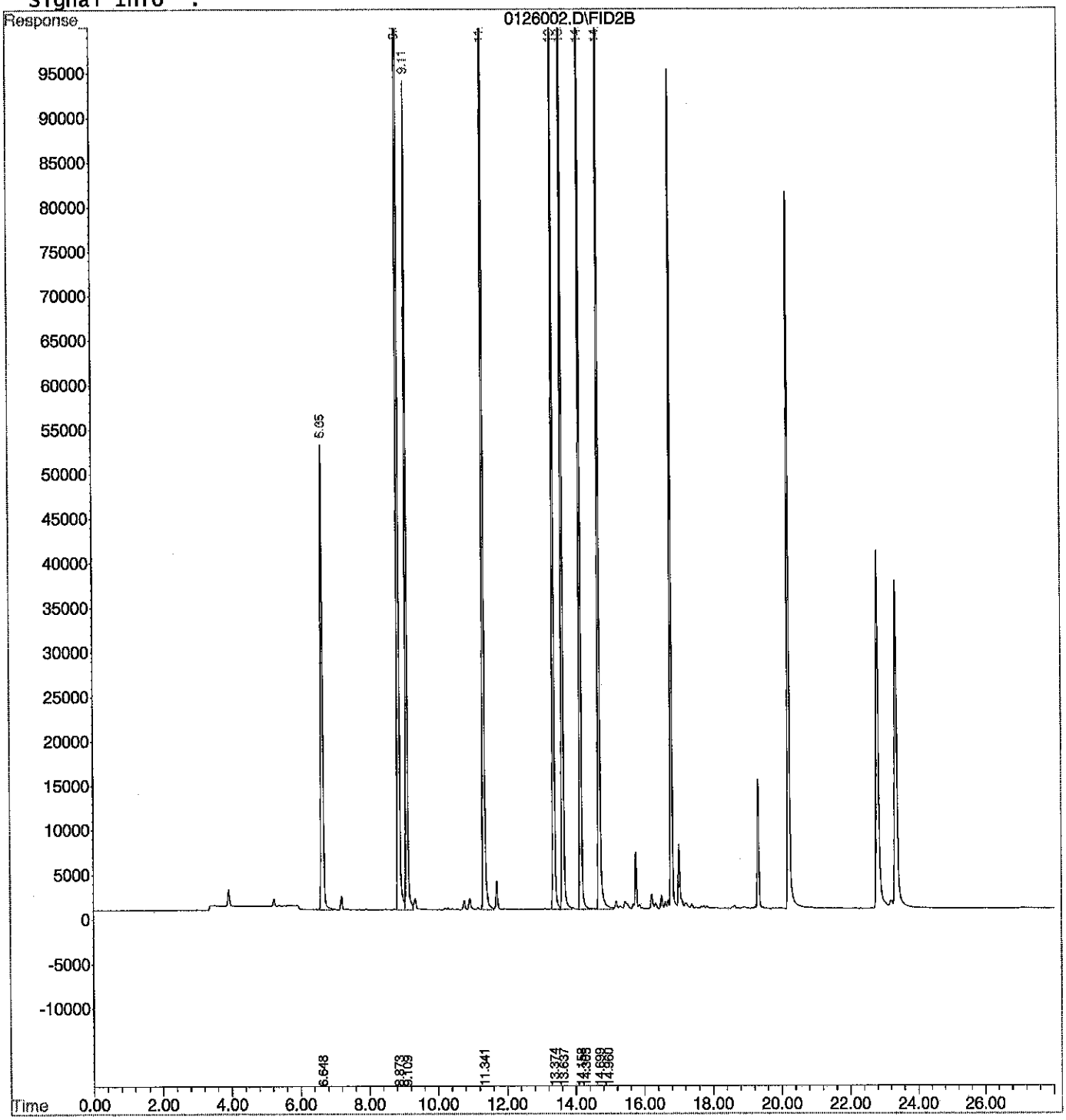
Data File : X:\BTEX\HOPE\DATA\H150126\0126002.D Vial: 2
Acq On : 26 Jan 2015 11:17 Operator:
Sample : CCVH0126B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 11:45 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150126\0126019.D Vial: 19
Acq On : 26 Jan 2015 20:53 Operator:
Sample : CCVH0126B-2 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 26 21:21 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.07	2482702	32.647	PPB
11)	S	BROMOFLUOROBENZENE #2	14.66	3268088	40.779	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	30866014	0.853	PPM
3)	H	GASOLINE #2	14.96	19619469	0.706	PPM
4)		MTBE #2	6.61	1974632	44.811	PPB
5)		BENZENE #2	8.83	4648842	43.901	PPB
7)		TOLUENE #2	11.30	3747214	42.714	PPB
8)		ETHYLBENZENE #2	13.34	3028578	43.111	PPB
9)		m,p-XYLENE #2	13.60	3496638	43.435	PPB
10)		o-XYLENE #2	14.12	2960105	43.973	PPB

Quantitation Report (Not Reviewed)

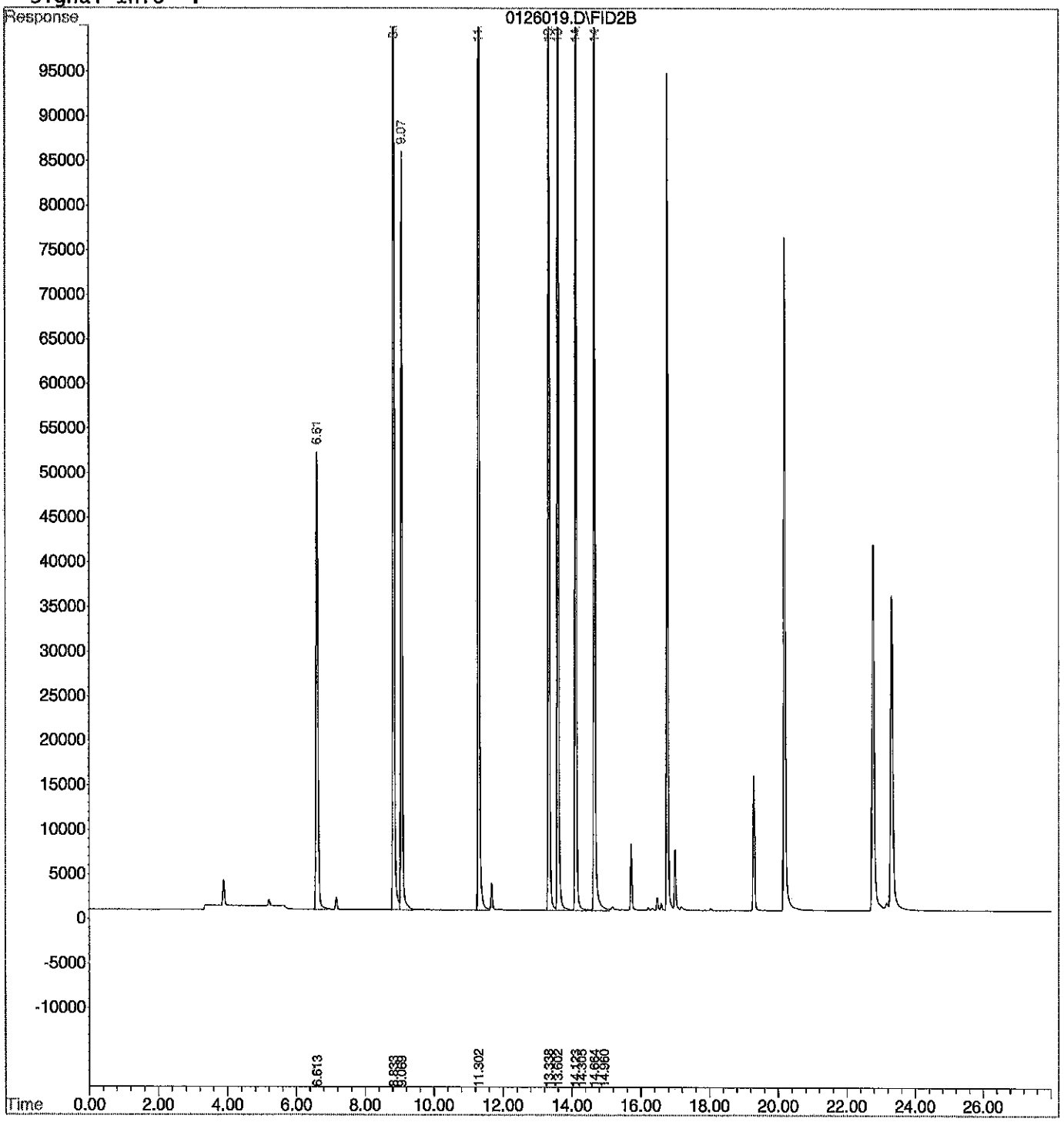
Data File : X:\BTEX\HOPE\DATA\H150126\0126019.D Vial: 19
Acq On : 26 Jan 2015 20:53 Operator:
Sample : CCVH0126B-2 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 26 21:21 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150126\0126017.D\FID2B.CH
Acq On : 26 Jan 2015 20:38 Operator:
Sample : CCVD0126B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

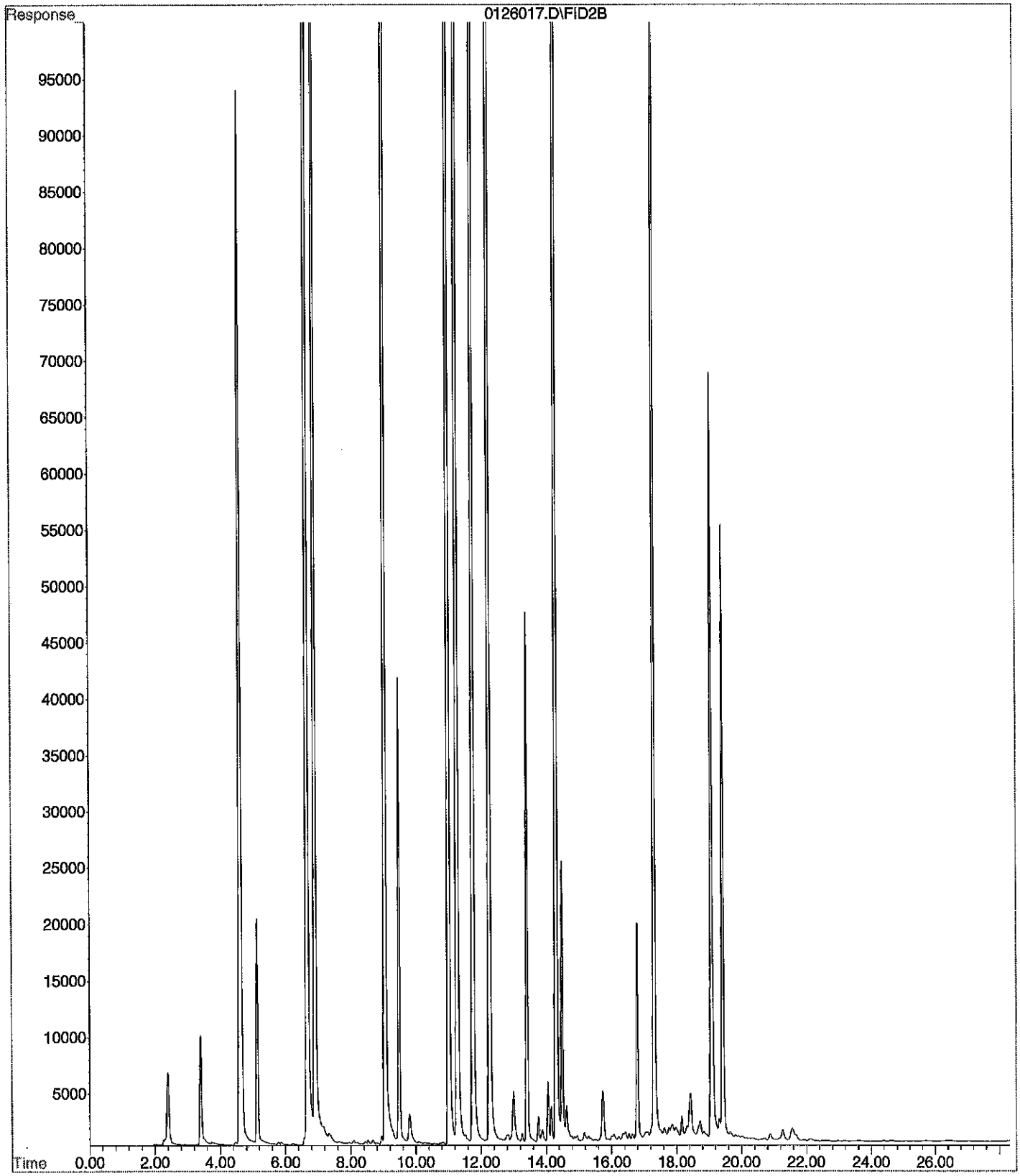
Quant Time: Jan 26 21:06 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3212566	46.342 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1863924	45.992 PPB
11)	S	FLUOROBENZENE #2	6.91	8447402	38.077 PPB
16)	S	BROMOFLUOROBENZENE #2	12.27	11192530	37.347 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30070331	0.604 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48174174	0.727 PPM
3)	H	GASOLINE (9-24-14)	13.51	31689048	0.780 PPM
7)	H	entire GAS envelope #2 (9-	12.26	101570787	0.659 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	74433862	0.619 PPM
9)		MTBE #2	4.63	4439782	60.754 PPB
10)		BENZENE #2	6.67	14310773	48.720 PPB
12)		TOLUENE #2	9.06	13256939	47.526 PPB
13)		ETHYLBENZENE #2	11.02	11533263	46.847 PPB
14)		m,p-XYLENE #2	11.29	13812549	47.072 PPB
15)		o-XYLENE #2	11.77	11672756	46.386 PPB

File : X:\BTEX\DARYL\DATA\D150126\0126017.D
Operator :
Acquired : 26 Jan 2015 20:38 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150126\0126035.D\FID1A.CH Vial: 35
Signal #2 : d:\btex\DATA\D150126\0126035.D\FID2B.CH
Acq On : 27 Jan 2015 6:33 Operator:
Sample : CCVD0126B-3 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

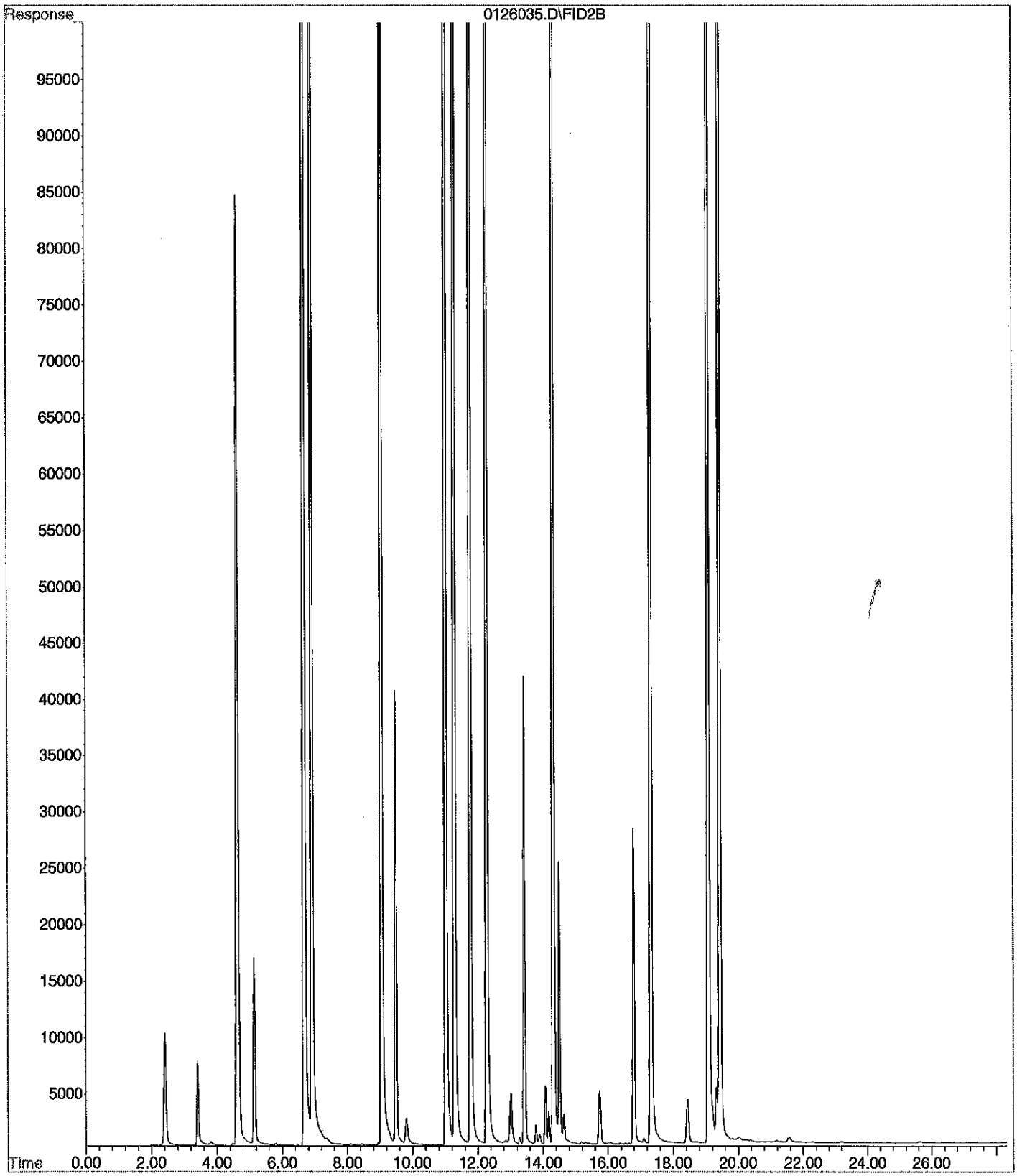
Quant Time: Jan 27 7:01 2015 Quant Results File: 141012DB.RES

Quant Method : D:\BTEX\methods\141012DB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Thu Oct 16 17:24:28 2014
Response via : Initial Calibration
DataAcq Meth : 141012DB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3296802	47.565 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1942255	47.949 PPB
11)	S	FLUOROBENZENE #2	6.92	8545049	38.521 PPB
16)	S	BROMOFLUOROBENZENE #2	12.28	11680900	38.997 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	28597025	0.574 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	48048686	0.725 PPM
3)	H	GASOLINE (9-24-14)	13.51	31799513	0.783 PPM
7)	H	entire GAS envelope #2 (9-	12.26	113052743	0.739 PPM
8)	H	GASOLINE #2 (9-24-14)	13.56	76348558	0.637 PPM
9)		MTBE #2	4.64	4079549	55.820 PPB
10)		BENZENE #2	6.68	13795532	46.965 PPB
12)		TOLUENE #2	9.07	12807157	45.907 PPB
13)		ETHYLBENZENE #2	11.03	11181678	45.415 PPB
14)		m,p-XYLENE #2	11.30	13375700	45.566 PPB
15)		o-XYLENE #2	11.78	11386385	45.241 PPB

File : X:\BTEX\DARYL\DATA\D150126\0126035.D
Operator :
Acquired : 27 Jan 2015 6:33 using AcqMethod 141012DB.M
Instrument : Daryl
Sample Name: CCVD0126B-3
Misc Info : V2-36-23,V2-37-04
Vial Number: 35



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0126-V70.D
Sample : 01-159-01

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 27 Jan 2015 2:12
Operator :
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 02:48:28 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	O-Terphenyl (09-28-14)	14.731	132893005	47.057	PPM
Spiked Amount		50.000		Recovery =	94.11%	
Target Compounds						
2)		1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3)	H	Gasoline	3.500	15851672	NoCal	PPM
4)	H	Diesel Fuel #1 (10-0...	10.000	20628299	7.395	PPM
5)	H	Diesel Fuel #2 (10-0...	14.000	17904934	5.975	PPM
6)	H	Oil (01-08-15)	22.000	55850984	14.137	PPM
7)	H	Oil Acid Clean (01-0...	22.000	55850984	10.660	PPM
8)	H	Diesel Fuel #2 Combo ...	14.000	16780217	5.594	PPM
9)	H	Oil Combo (01-08-15)	22.000	54676400	13.957	PPM
10)	H	Oil Acid Clean Combo ...	22.000	54676400	10.310	PPM
11)	H	Alaska 102 DF2 (06-2...	13.025	19268918	2.257	PPM
12)	H	Alaska 103 Oil (06-2...	22.000	22556865	9.358	PPM
13)	H	Mineral Oil (10-06-14)	16.000	13531884	4.378	PPM
14)	H	Bunker C ACU (Fuel O...	15.000	67866903	6.022	PPM
15)	H	Bunker C (Fuel Oil #...	15.000	67866903	36.912	PPM
16)	H	ALKANE C9-C40	12.666	72707506	NoCal	PPM
17)	H	Mineral Oil Combo (10...	16.000	9953472	3.689	PPM
18)	H	Oil Acid Clean MO Com...	22.000	53730472	10.186	PPM
19)	H	Oil MO Combo (01-08-15)	22.000	53730472	14.056	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

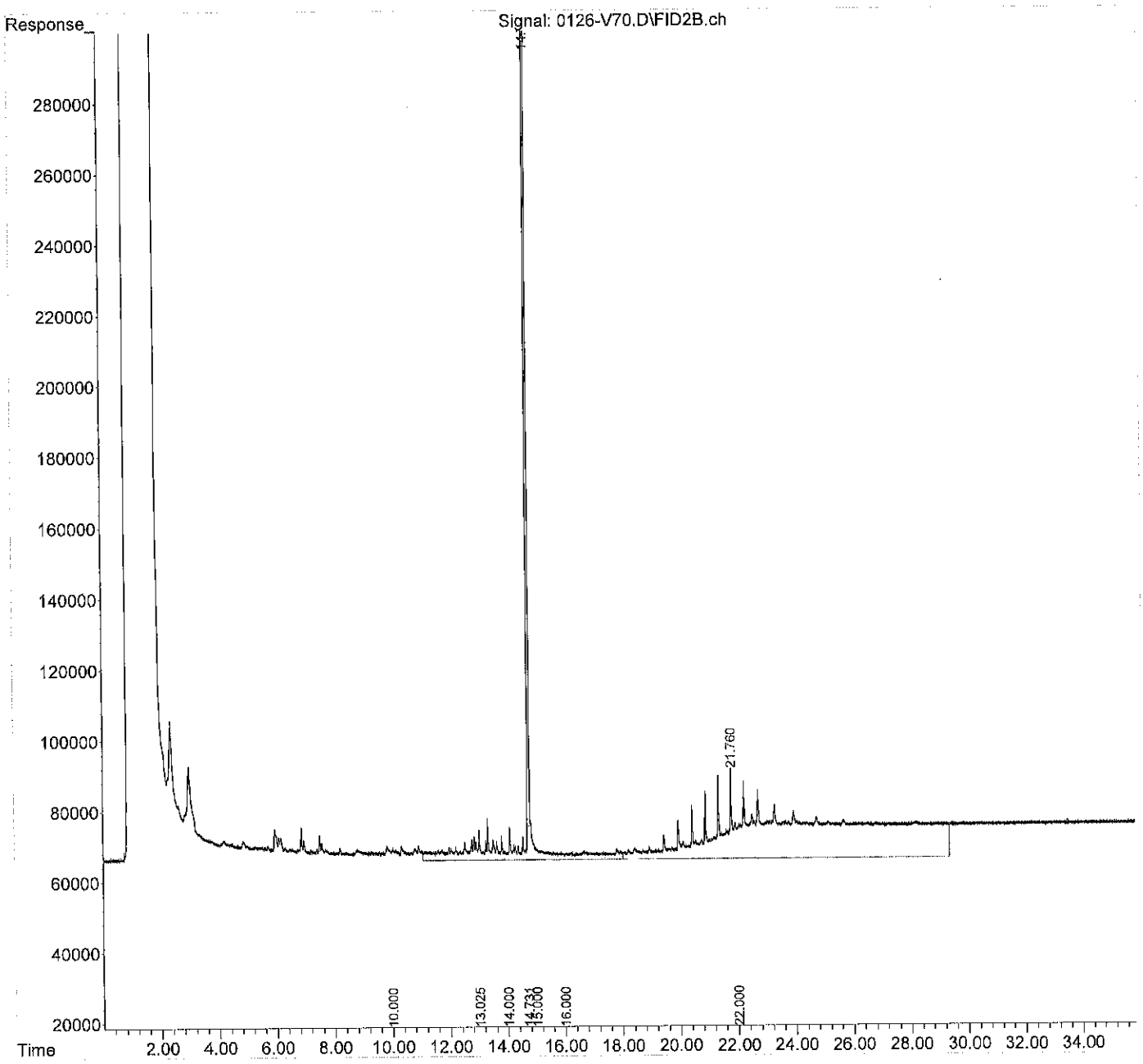
Quantitation Report (Not Reviewed)

Data File : 0126-V70.D
Sample : 01-159-01

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 27 Jan 2015 2:12
Operator :
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 02:48:28 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V71.D
Sample : 01-159-02

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 27 Jan 2015 2:52
Operator :
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 03:29:04 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl (09-28-14)	14.729	119391919	42.262 PPM
Spiked Amount	50.000		Recovery =	84.52%
	Target Compounds			
2)	1-Chlorooctadecane (...	0.000	0	N.D. PPM
3) H	Gasoline	3.500	17657321	NoCal PPM
4) H	Diesel Fuel #1 (10-0...	10.000	19733841	6.992 PPM
5) H	Diesel Fuel #2 (10-0...	14.000	15981180	5.043 PPM
6) H	Oil (01-08-15)	22.000	50365860	11.135 PPM
7) H	Oil Acid Clean (01-0...	22.000	50365860	7.397 PPM
8) H	Diesel Fuel #2 Combo ...	14.000	15118570	4.774 PPM
9) H	Oil Combo (01-08-15)	22.000	49491476	11.053 PPM
10) H	Oil Acid Clean Combo ...	22.000	49491476	7.162 PPM
11) H	Alaska 102 DF2 (06-2...	13.025	17438462	1.551 PPM
12) H	Alaska 103 Oil (06-2...	22.000	19129016	6.351 PPM
13) H	Mineral Oil (10-06-14)	16.000	10034394	2.909 PPM
14) H	Bunker C ACU (Fuel O...	15.000	61264712	1.009 PPM
15) H	Bunker C (Fuel Oil #...	15.000	61264712	31.860 PPM
16) H	ALKANE C9-C40	12.666	66625904	NoCal PPM
17) H	Mineral Oil Combo (10...	16.000	7301084	2.529 PPM
18) H	Oil Acid Clean MO Com...	22.000	48764976	7.070 PPM
19) H	Oil MO Combo (01-08-15)	22.000	48764976	11.168 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

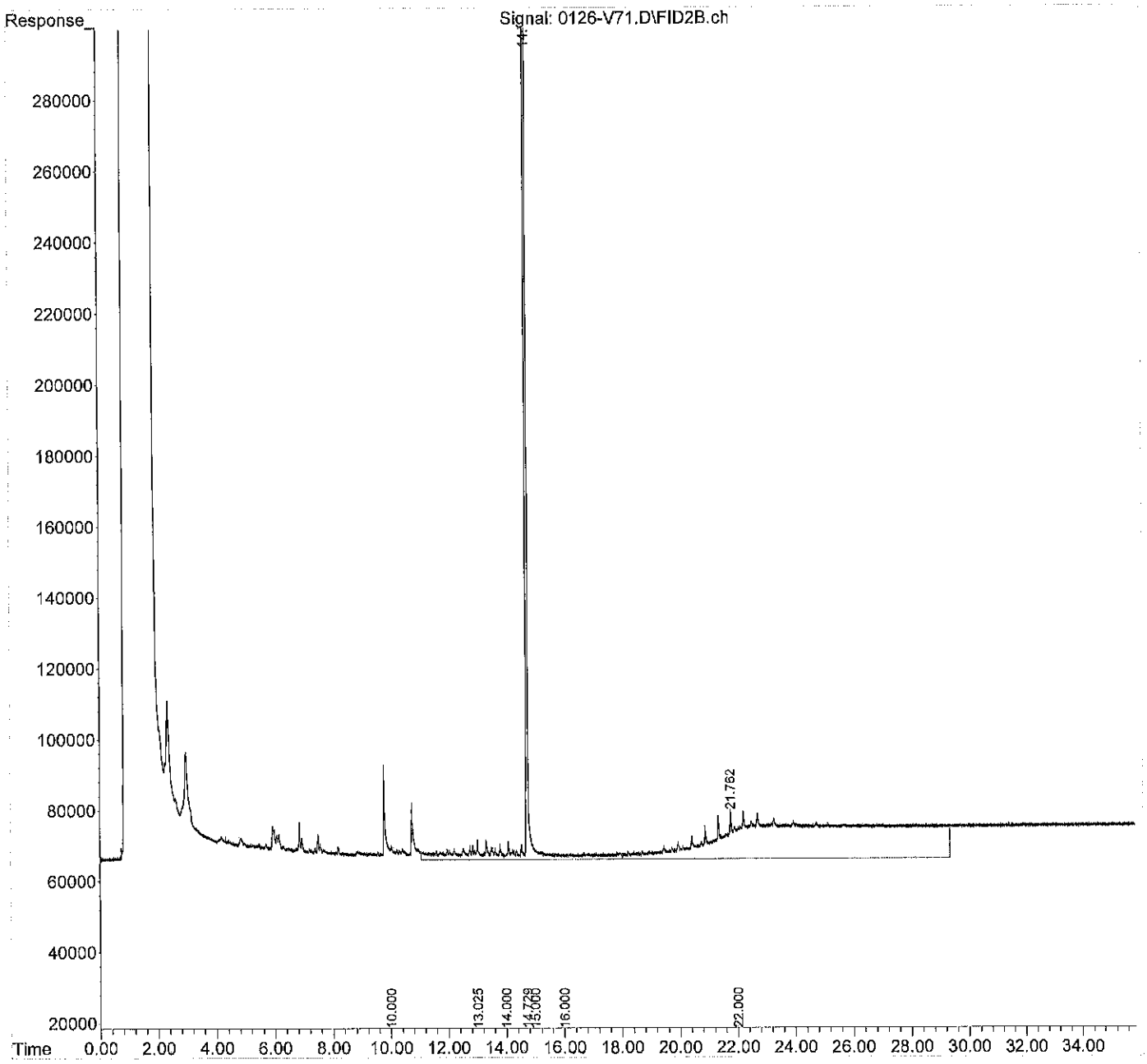
Quantitation Report (Not Reviewed)

Data File : 0126-V71.D
Sample : 01-159-02

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 27 Jan 2015 2:52
Operator :
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 03:29:04 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V20.D
Sample : MB0126S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 2:12
Operator :
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 02:48:13 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	O-Terphenyl (12-18-14)	14.894	176052460	57.134	PPM
Spiked Amount		50.000		Recovery =	114.27%	
Target Compounds						
2)		1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3)	H	Gasoline	3.500	9204900	NoCal	PPM
4)	H	Diesel Fuel #1 (01-0...	10.000	9168022	2.477	PPM
5)	H	Diesel Fuel #2 (01-...	14.000	8178279	4.140	PPM
6)	H	Oil (12-18-14)	22.000	45030341	10.654	PPM
7)	H	Oil Acid Clean (12-...	22.000	45030341	10.597	PPM
8)	H	Diesel Fuel #2 Combo ...	14.000	7560378	3.876	PPM
9)	H	Oil Combo (12-18-14)	22.000	44345622	10.986	PPM
10)	H	Oil Acid Clean Combo ...	22.000	44345622	10.473	PPM
11)	H	Alaska 102 DF2 (06-2...	13.025	8507939	0.773	PPM
12)	H	Alaska 103 Oil (06-2...	22.000	15598947	6.940	PPM
13)	H	Mineral Oil (12-18-14)	16.000	5921326	N.D.	PPM
14)	H	Bunker C ACU (Fuel Oi...	15.000	49206325	18.980	PPM
15)	H	Bunker C (Fuel Oil #6...	15.000	49206325	26.175	PPM
16)	H	ALKANE C9-C40 10-26-07	12.666	50983166	627.159	PPM
17)	H	Mineral Oil Combo (1...	16.000	4145908	0.861	PPM
18)	H	Oil Acid Clean MO Com...	22.000	43839190	10.528	PPM
19)	H	Oil MO Combo (12-18-14)	22.000	43839190	11.280	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

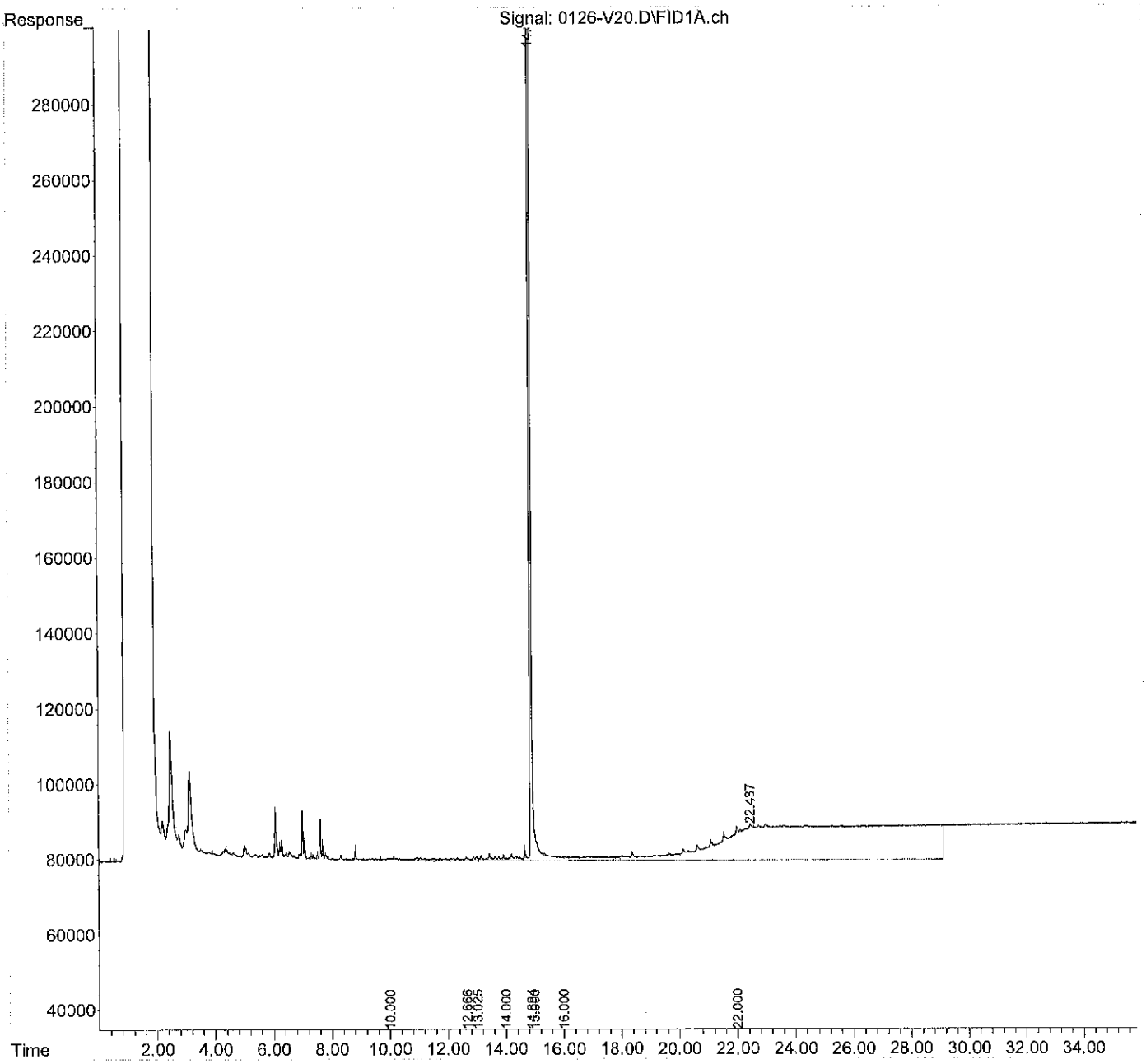
Quantitation Report (Not Reviewed)

Data File : 0126-V20.D
Sample : MB0126S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 2:12
Operator :
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 02:48:13 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V22.D
Sample : 01-142-03

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 3:33
Operator :
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 04:09:26 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl (12-18-14)	14.891	149212360	48.411 PPM
Spiked Amount	50.000		Recovery =	96.82%
	Target Compounds			
2)	1-Chlorooctadecane (...	0.000	0	N.D. PPM
3) H	Gasoline	3.500	8178765	NoCal PPM
4) H	Diesel Fuel #1 (01-0...	10.000	18260440	6.247 PPM
5) H	Diesel Fuel #2 (01-...	14.000	21043754	9.572 PPM
6) H	Oil (12-18-14)	22.000	51705870	13.920 PPM
7) H	Oil Acid Clean (12-...	22.000	51705870	14.270 PPM
8) H	Diesel Fuel #2 Combo ...	14.000	19071353	8.839 PPM
9) H	Oil Combo (12-18-14)	22.000	48848912	13.230 PPM
10) H	Oil Acid Clean Combo ...	22.000	48848912	12.990 PPM
11) H	Alaska 102 DF2 (06-2...	13.025	21370362	5.866 PPM
12) H	Alaska 103 Oil (06-2...	22.000	18390673	9.517 PPM
13) H	Mineral Oil (12-18-14)	16.000	18708776	4.535 PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	65221569	30.563 PPM
15) H	Bunker C (Fuel Oil #6...	15.000	65221569	37.380 PPM
16) H	ALKANE C9-C40 10-26-07	12.666	66749667	827.908 PPM
17) H	Mineral Oil Combo (1...	16.000	15540349	5.315 PPM
18) H	Oil Acid Clean MO Com...	22.000	47150005	12.432 PPM
19) H	Oil MO Combo (12-18-14)	22.000	47150005	12.983 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

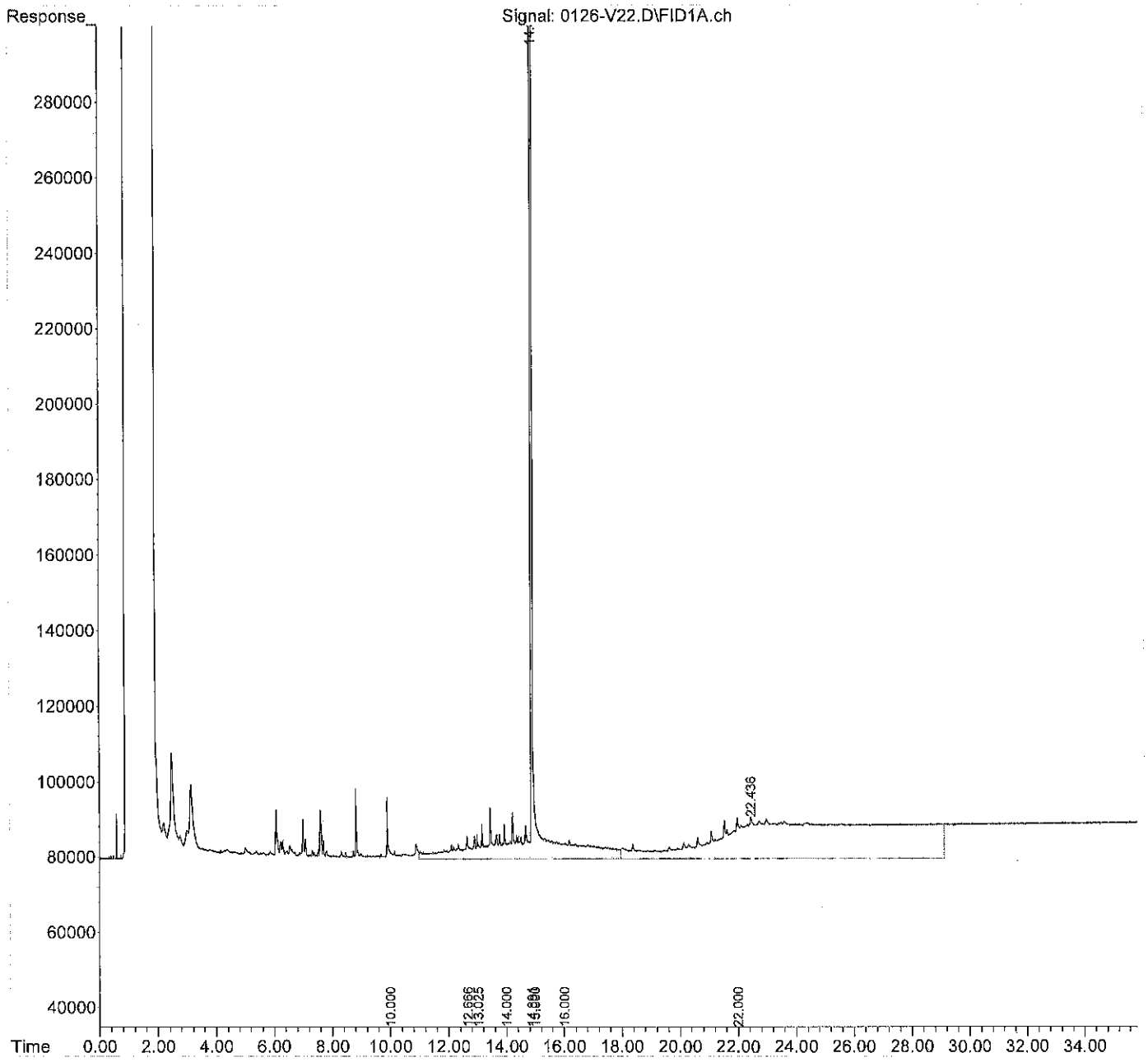
Quantitation Report (Not Reviewed)

Data File : 0126-V22.D
Sample : 01-142-03

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 3:33
Operator :
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 04:09:26 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V23.D
Sample : 01-142-03 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 4:13
Operator :
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 04:49:59 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.887	115435683	37.435	PPM
Spiked Amount	50.000		Recovery =	74.87%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	7980183	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	24648357	8.895	PPM
5) H	Diesel Fuel #2 (01-...	14.000	29816764	13.277	PPM
6) H	Oil (12-18-14)	22.000	53594942	14.845	PPM
7) H	Oil Acid Clean (12-...	22.000	53594942	15.310	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	27120550	12.310	PPM
9) H	Oil Combo (12-18-14)	22.000	49149833	13.380	PPM
10) H	Oil Acid Clean Combo ...	22.000	49149833	13.158	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	30122612	9.332	PPM
12) H	Alaska 103 Oil (06-2...	22.000	18267343	9.403	PPM
13) H	Mineral Oil (12-18-14)	16.000	27515113	7.894	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	73591327	36.616	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	73591327	43.236	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	75058316	933.699	PPM
17) H	Mineral Oil Combo (1...	16.000	24208382	8.703	PPM
18) H	Oil Acid Clean MO Com...	22.000	46792097	12.226	PPM
19) H	Oil MO Combo (12-18-14)	22.000	46792097	12.799	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

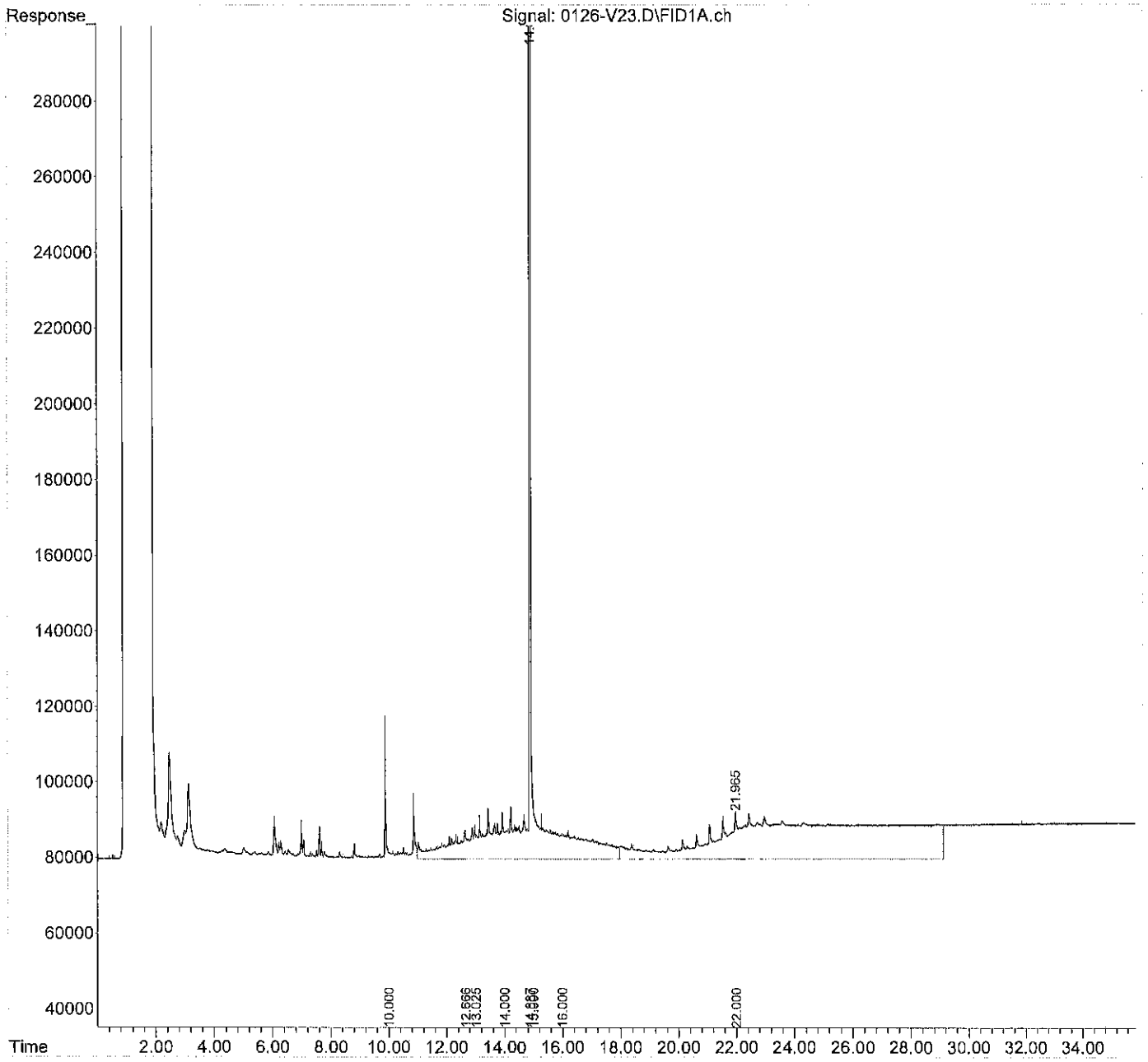
Quantitation Report (Not Reviewed)

Data File : 0126-V23.D
Sample : 01-142-03 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 4:13
Operator :
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 04:49:59 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V16.D
Sample : CCV0126F-V4

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 26 Jan 2015 23:29
Operator :
Misc : SV3-11-24
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 00:05:55 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
Target Compounds					
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	27640600	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	226735879	92.683	PPM
5) H	Diesel Fuel #2 (01-...	14.000	230078233	97.841	PPM
6) H	Oil (12-18-14)	22.000	63315186	19.601	PPM
7) H	Oil Acid Clean (12-...	22.000	63315186	20.658	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	225037897	97.645	PPM
9) H	Oil Combo (12-18-14)	22.000	50410232	14.008	PPM
10) H	Oil Acid Clean Combo ...	22.000	50410232	13.863	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	233194665	89.747	PPM
12) H	Alaska 103 Oil (06-2...	22.000	16618138	7.881	PPM
13) H	Mineral Oil (12-18-14)	16.000	151500518	55.185	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	273748194	181.378	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	273748194	183.276	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	287176171	3634.511	PPM
17) H	Mineral Oil Combo (1...	16.000	147985859	57.087	PPM
18) H	Oil Acid Clean MO Com...	22.000	45900893	11.714	PPM
19) H	Oil MO Combo (12-18-14)	22.000	45900893	12.340	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

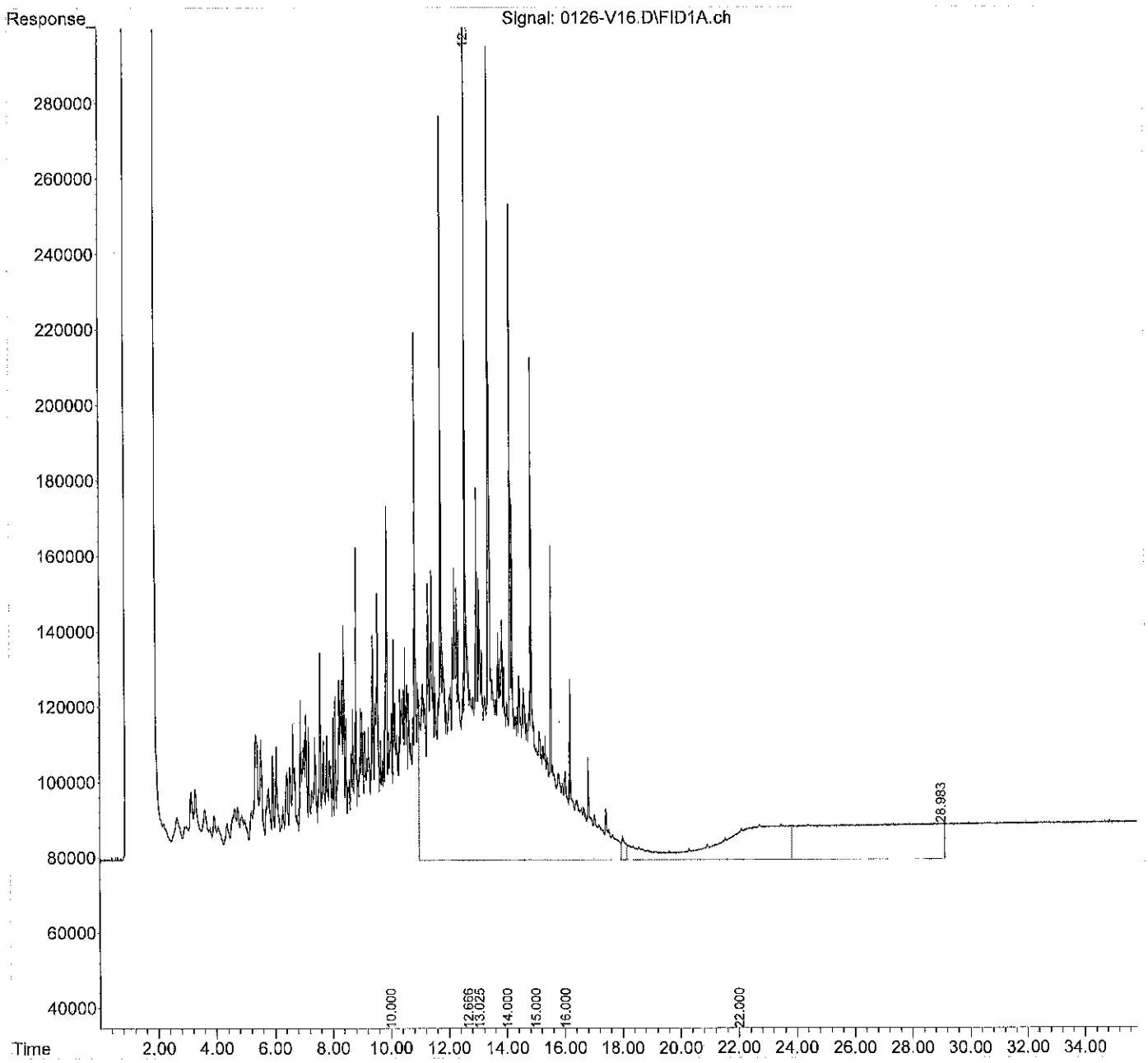
Quantitation Report (Not Reviewed)

Data File : 0126-V16.D
Sample : CCV0126F-V4

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 26 Jan 2015 23:29
Operator :
Misc : SV3-11-24
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 00:05:55 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V28.D
Sample : CCV0126F-V5

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 7:37
Operator :
Misc : SV3-11-24
ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 08:13:49 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.840	2071084	0.594	PPM
Spiked Amount	50.000		Recovery =	1.19%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	26446801	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	225682815	92.246	PPM
5) H	Diesel Fuel #2 (01-...	14.000	231100188	98.273	PPM
6) H	Oil (12-18-14)	22.000	108968237	41.939	PPM
7) H	Oil Acid Clean (12-...	22.000	108968237	45.778	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	225112601	97.678	PPM
9) H	Oil Combo (12-18-14)	22.000	95454447	36.447	PPM
10) H	Oil Acid Clean Combo ...	22.000	95454447	39.039	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	234157157	90.128	PPM
12) H	Alaska 103 Oil (06-2...	22.000	36919027	26.618	PPM
13) H	Mineral Oil (12-18-14)	16.000	155634511	56.761	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	316837976	212.542	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	316837976	213.423	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	329368230	4171.726	PPM
17) H	Mineral Oil Combo (1...	16.000	149026085	57.494	PPM
18) H	Oil Acid Clean MO Com...	22.000	90197747	37.186	PPM
19) H	Oil MO Combo (12-18-14)	22.000	90197747	35.129	PPM

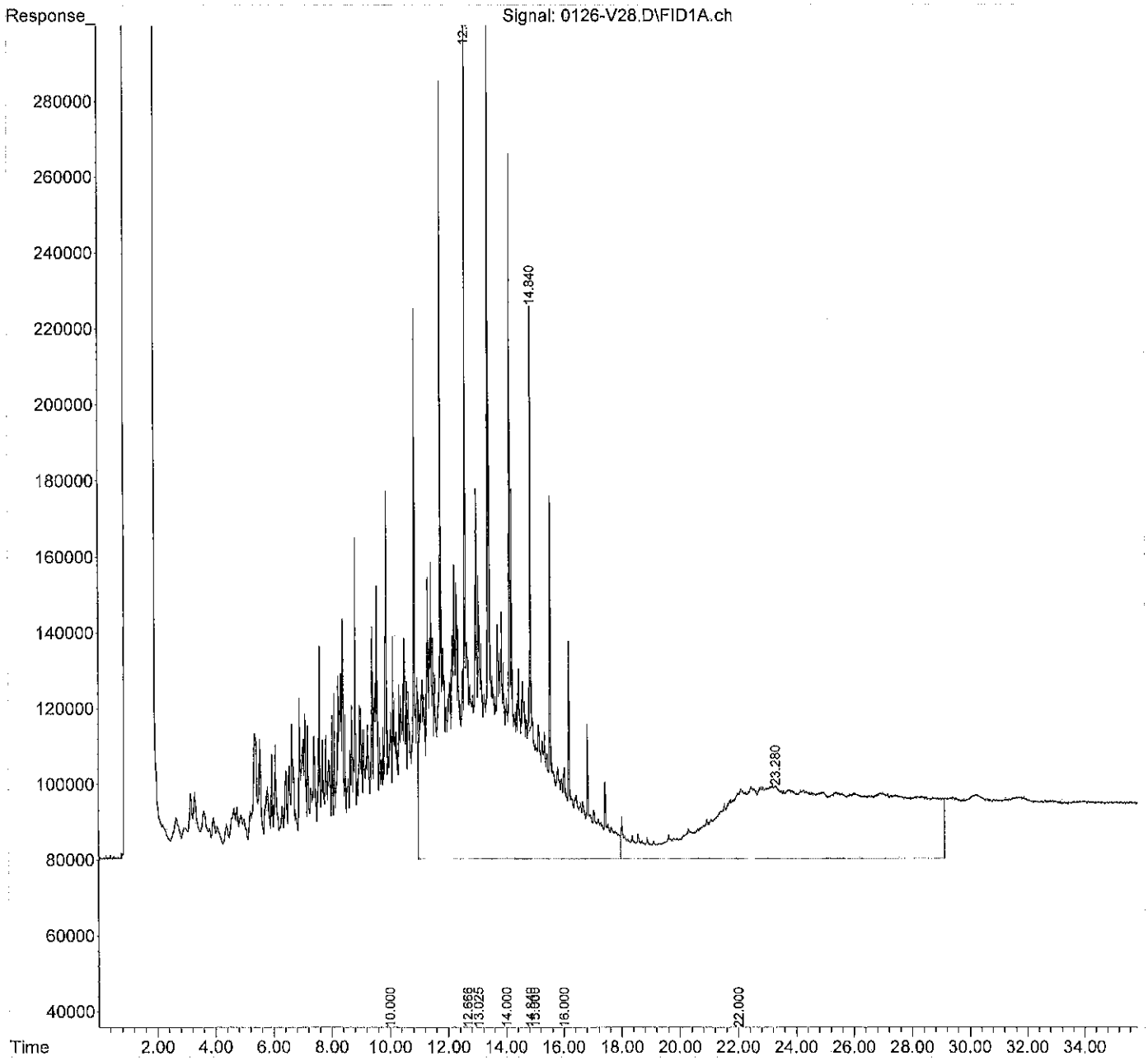
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : 0126-V28.D
Sample : CCV0126F-V5

Data Path : X:\DIESELS\VIGO\DATA\V150126\
Signal(s) : FID1A.ch
Acq On : 27 Jan 2015 7:37
Operator :
Misc : SV3-11-24
ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 08:13:49 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V66.D
Sample : CCV0126R-V4

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 26 Jan 2015 23:29
Operator :
Misc : SV3-11-24
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 00:06:09 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.692	1805781	0.505	PPM
Spiked Amount	50.000		Recovery =	1.01%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	35395093	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	237060901	105.087	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	237683282	112.422	PPM
6) H	Oil (01-08-15)	22.000	74072334	24.108	PPM
7) H	Oil Acid Clean (01-0...	22.000	74072334	21.500	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	232540216	112.055	PPM
9) H	Oil Combo (01-08-15)	22.000	61483275	17.768	PPM
10) H	Oil Acid Clean Combo ...	22.000	61483275	14.443	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	241815482	88.018	PPM
12) H	Alaska 103 Oil (06-2...	22.000	22731845	9.511	PPM
13) H	Mineral Oil (10-06-14)	16.000	154451410	63.577	PPM
14) H	Bunker C ACU (Fuel O...	15.000	291531977	175.841	PPM
15) H	Bunker C (Fuel Oil #...	15.000	291531977	208.086	PPM
16) H	ALKANE C9-C40	12.666	307579108	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	149513386	64.748	PPM
18) H	Oil Acid Clean MO Com...	22.000	56856859	12.149	PPM
19) H	Oil MO Combo (01-08-15)	22.000	56856859	15.875	PPM

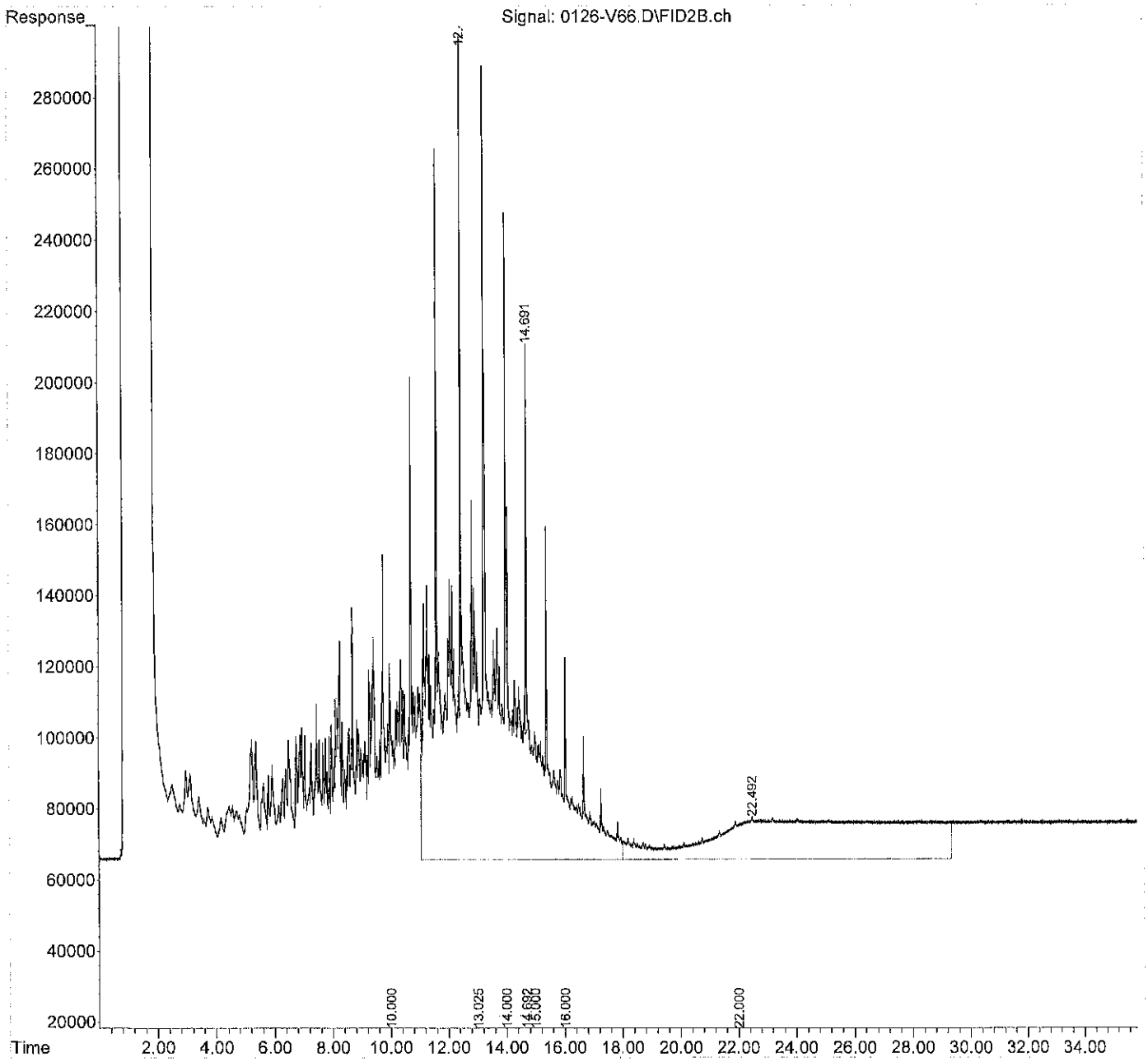
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : 0126-V66.D
Sample : CCV0126R-V4

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 26 Jan 2015 23:29
Operator :
Misc : SV3-11-24
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 00:06:09 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0126-V78.D
Sample : CCV0126R-V5

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 27 Jan 2015 7:37
Operator :
Misc : SV3-11-24
ALS Vial : 78 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 08:14:05 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S O-Terphenyl (09-28-14)	14.691	1784412	0.498	PPM
	Spiked Amount 50.000		Recovery =	1.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3)	H Gasoline	3.500	35059700	NoCal	PPM
4)	H Diesel Fuel #1 (10-0...	10.000	224770839	99.540	PPM
5)	H Diesel Fuel #2 (10-0...	14.000	224774154	106.170	PPM
6)	H Oil (01-08-15)	22.000	108314655	42.845	PPM
7)	H Oil Acid Clean (01-0...	22.000	108314655	41.871	PPM
8)	H Diesel Fuel #2 Combo ...	14.000	219790738	105.764	PPM
9)	H Oil Combo (01-08-15)	22.000	96581475	37.423	PPM
10)	H Oil Acid Clean Combo ...	22.000	96581475	35.752	PPM
11)	H Alaska 102 DF2 (06-2...	13.025	228813446	83.007	PPM
12)	H Alaska 103 Oil (06-2...	22.000	38614519	23.444	PPM
13)	H Mineral Oil (10-06-14)	16.000	147517705	60.664	PPM
14)	H Bunker C ACU (Fuel O...	15.000	311315487	190.862	PPM
15)	H Bunker C (Fuel Oil #...	15.000	311315487	223.226	PPM
16)	H ALKANE C9-C40	12.666	326945013	NoCal	PPM
17)	H Mineral Oil Combo (10...	16.000	140749034	60.914	PPM
18)	H Oil Acid Clean MO Com...	22.000	92114308	34.279	PPM
19)	H Oil MO Combo (01-08-15)	22.000	92114308	36.382	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

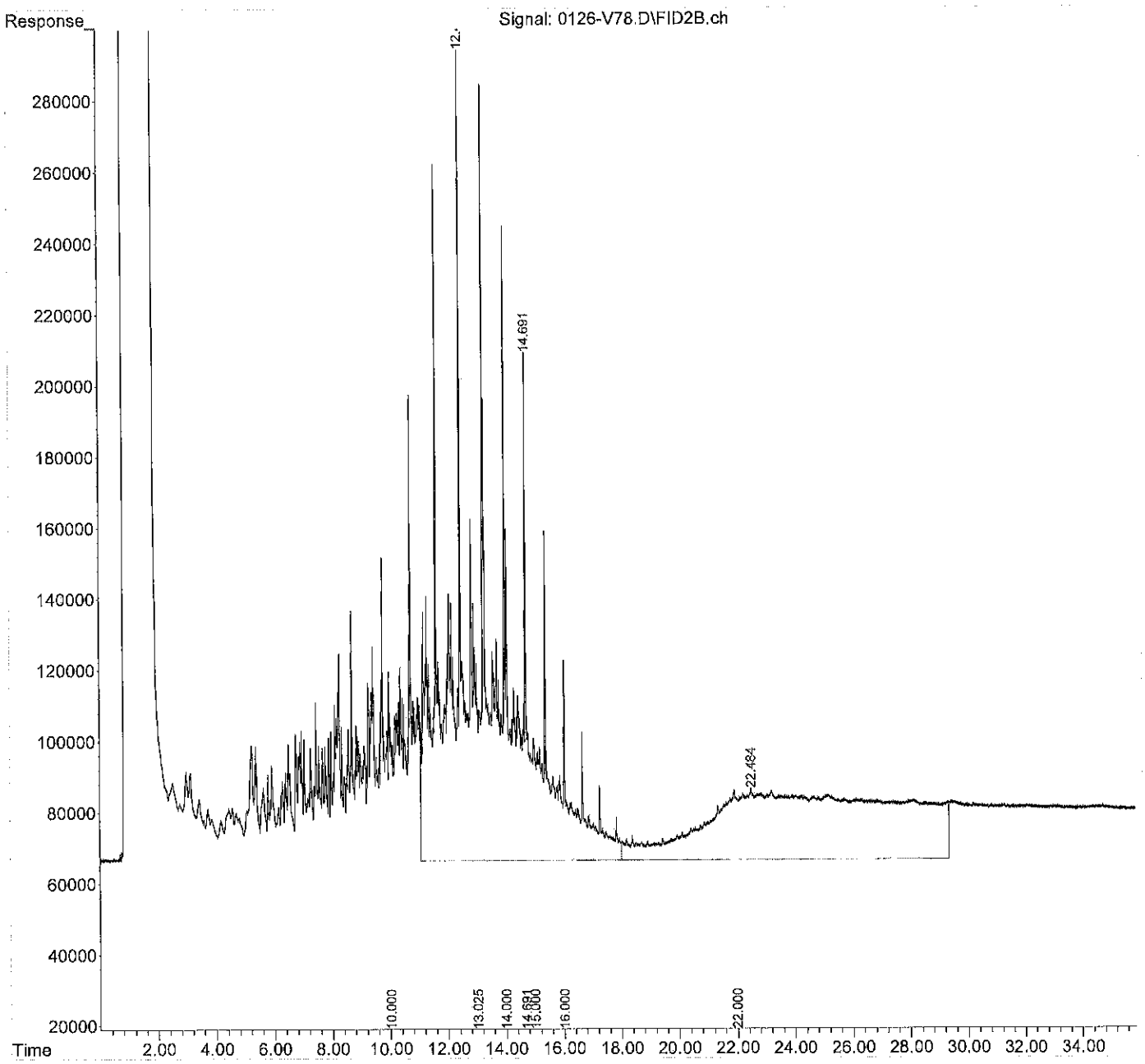
Quantitation Report (Not Reviewed)

Data File : 0126-V78.D
Sample : CCV0126R-V5

Data Path : X:\DIESELS\VIGO\DATA\V150126.SEC\
Signal(s) : FID2B.ch
Acq On : 27 Jan 2015 7:37
Operator :
Misc : SV3-11-24
ALS Vial : 78 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 27 08:14:05 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127007.D
Acq On : 27 Jan 2015 3:44 pm
Operator :
Sample : 01-159-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 27 15:59:13 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.025	136	111044	2000.00	ppb	-0.02
6) Acenaphthene-d10	5.277	164	52386	2000.00	ppb	-0.02
10) Phenanthrene-d10	6.276	188	89867	2000.00	ppb	-0.01
17) Chrysene-d12	8.372	240	84877	2000.00	ppb	0.00
21) Perylene-d12	9.820	264	79770	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.532	82	12674	863.70	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 86.37%			
7) 2-Fluorobiphenyl	4.819	172	29635	721.41	ppb	-0.02
Spiked Amount 1000.000	Range 25 - 89		Recovery = 72.14%			
11) Pyrene-d10	7.274	212	29537	783.82	ppb	-0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 78.38%			
18) Terphenyl-d14	7.442	244	22300	708.60	ppb	-0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 70.86%			
Target Compounds						Qvalue
3) Naphthalene	4.037	128	1376	22.31	ppb	100
4) 2-Methylnaphthalene	4.553	142	165	5.34	ppb	100
5) 1-Methylnaphthalene	4.616	142	1928	47.85	ppb	100
8) Acenaphthylene	5.176	152	499	9.13	ppb	100
9) Acenaphthene	5.292	153	1078	29.14	ppb	100
12) Fluorene	5.662	166	516	13.10	ppb	100
13) Phenanthrene	6.291	178	681	12.92	ppb	100
14) Anthracene	6.338	178	422	8.18	ppb	100
15) Fluoranthene	7.094	202	18	~~0.34~~	ppb	100
16) Pyrene	7.286	202	592	10.54	ppb	100
19) Benzo[a]anthracene	8.372	228	329	8.29	ppb	100
20) Chrysene	8.372	228	329	~~6.09~~	ppb	100
22) Benzo[b]fluoranthene	9.496	252	23	0.63	ppb	100
23) Benzo(j,k)fluoranthene	9.496	252	23	~~0.43~~	ppb	100
24) Benzo[a]pyrene	9.773	252	26	0.63	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.823	276	1	0.02	ppb	100
26) Dibenz[a,h]anthracene	10.869	278	3	0.07	ppb	100
27) Benzo[g,h,i]perylene	11.076	276	8	0.19	ppb	100

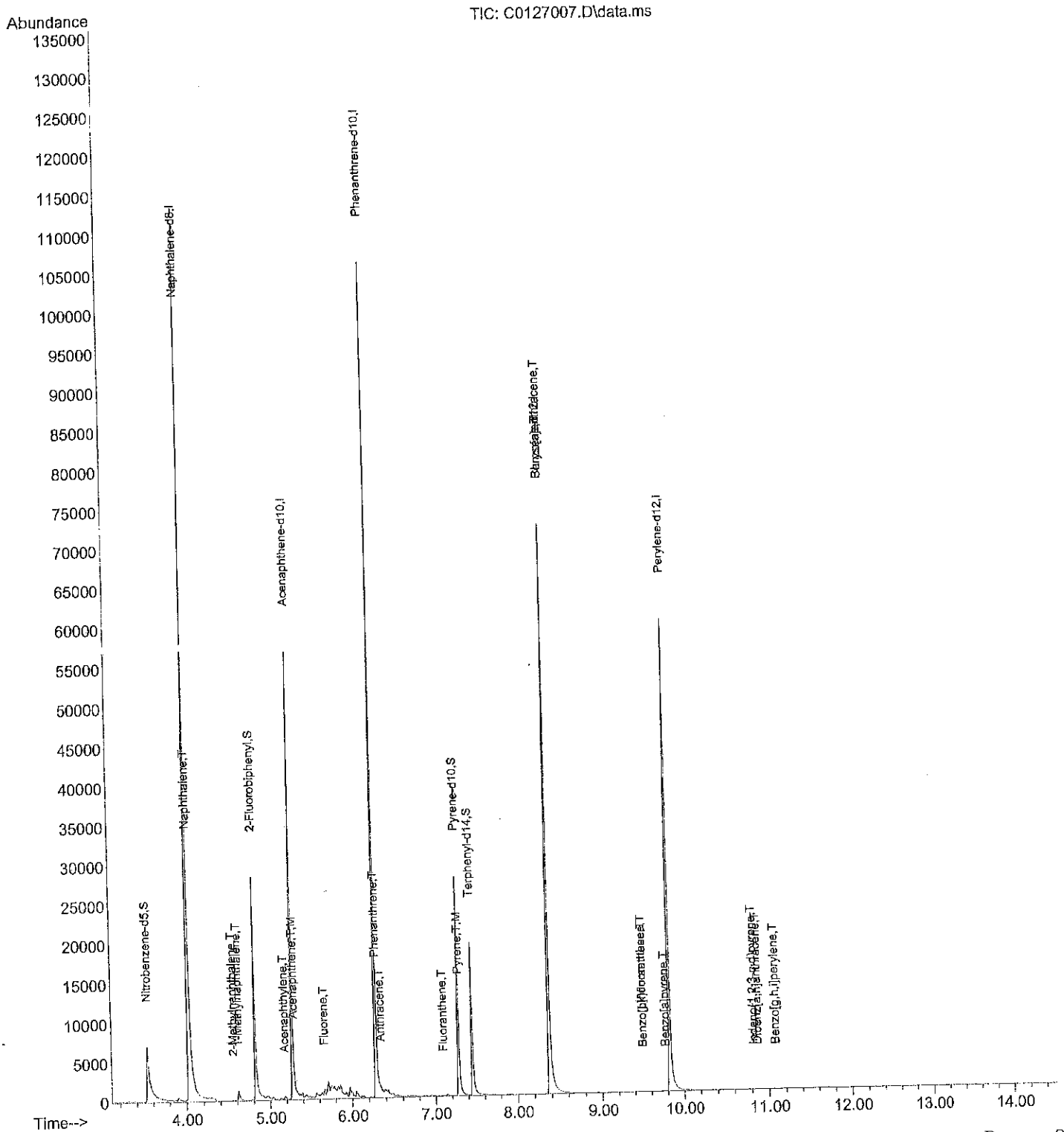
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/28/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127007.D
Acq On : 27 Jan 2015 3:44 pm
Operator :
Sample : 01-159-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 27 15:59:13 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127010.D
Acq On : 27 Jan 2015 4:49 pm
Operator :
Sample : 01-159-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 27 17:04:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.025	136	113023	2000.00	ppb	-0.02
6) Acenaphthene-d10	5.270	164	52242	2000.00	ppb	-0.02
10) Phenanthrene-d10	6.277	188	89214	2000.00	ppb	-0.01
17) Chrysene-d12	8.369	240	83296	2000.00	ppb	0.00
21) Perylene-d12	9.820	264	78142	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.531	82	11478	768.50	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 76.85%			
7) 2-Fluorobiphenyl	4.819	172	29932	730.65	ppb	-0.02
Spiked Amount 1000.000	Range 25 - 89		Recovery = 73.06%			
11) Pyrene-d10	7.274	212	29698	793.87	ppb	-0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 79.39%			
18) Terphenyl-d14	7.442	244	20664	669.08	ppb	-0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 66.91%			
Target Compounds						Qvalue
3) Naphthalene	4.036	128	515	8.20	ppb	100
4) 2-Methylnaphthalene	4.577	142	55	1.75	ppb	100
5) 1-Methylnaphthalene	4.624	142	443	10.80	ppb	100
8) Acenaphthylene	5.178	152	114	2.09	ppb	100
9) Acenaphthene	5.293	153	214	5.80	ppb	100
12) Fluorene	5.671	166	164	4.20	ppb	100
13) Phenanthrene	6.289	178	352	6.73	ppb	100
14) Anthracene	6.351	178	76	1.48	ppb	100
15) Fluoranthene	7.146	202	146	2.78	ppb	100
16) Pyrene	7.285	202	277	4.97	ppb	100
19) Benzo[a]anthracene	8.369	228	336	8.63	ppb	100
20) Chrysene	8.369	228	336	~~6.33 ppb~~	ϕ	100
22) Benzo[b]fluoranthene	9.508	252	26	0.73	ppb	100
23) Benzo(j,k)fluoranthene	9.508	252	26	~~0.49 ppb~~	ϕ	100
24) Benzo[a]pyrene	9.769	252	22	0.54	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.869	276	2	0.04	ppb	100
26) Dibenz[a,h]anthracene	10.853	278	2	0.05	ppb	100
27) Benzo[g,h,i]perylene	11.075	276	3	0.07	ppb	100

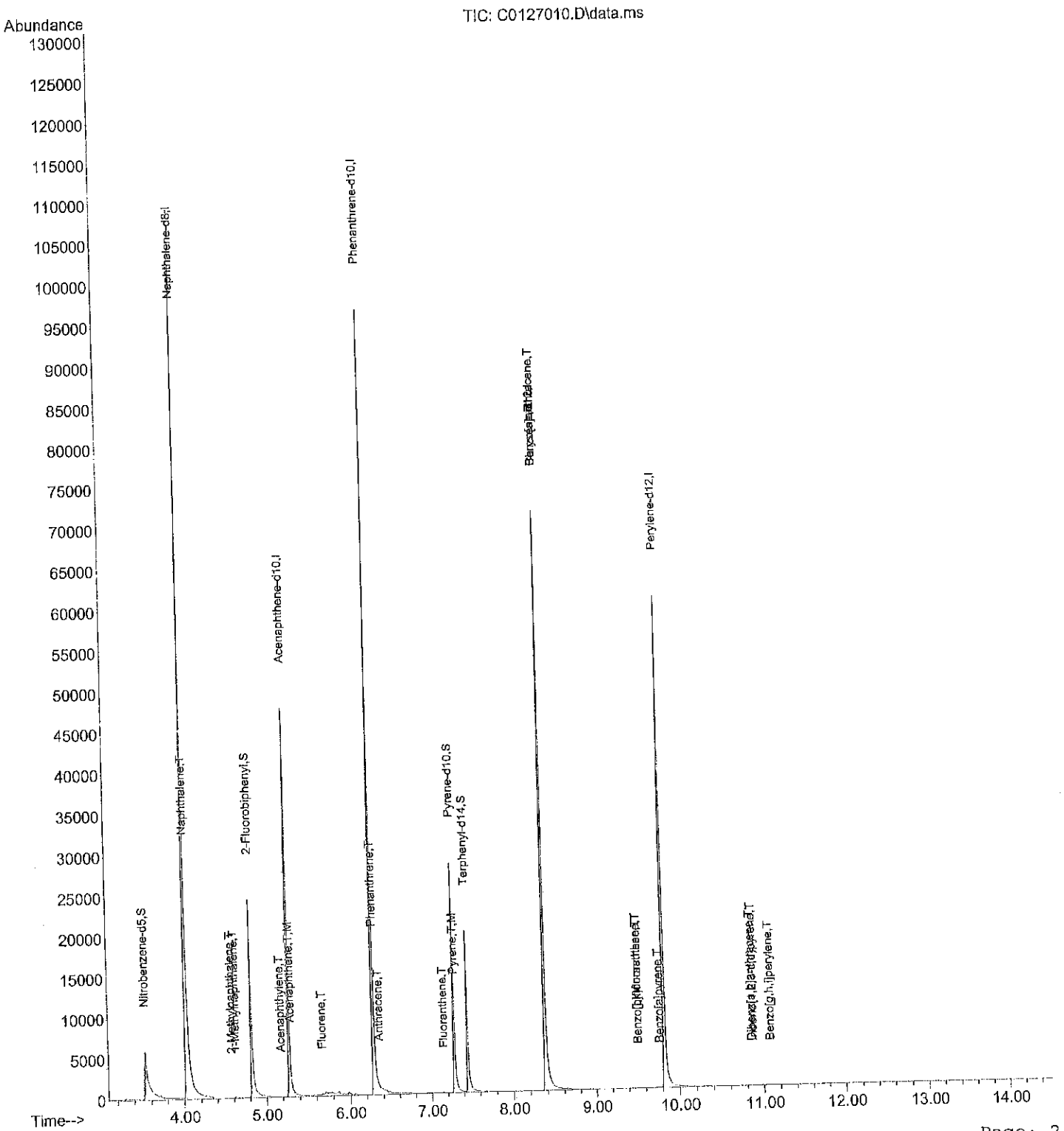
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/28/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127010.D
Acq On : 27 Jan 2015 4:49 pm
Operator :
Sample : 01-159-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 27 17:04:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127004.D
Acq On : 27 Jan 2015 2:39 pm
Operator :
Sample : MB0127S1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 27 14:54:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.025	136	112454	2000.00	ppb	-0.02
6) Acenaphthene-d10	5.278	164	52291	2000.00	ppb	-0.02
10) Phenanthrene-d10	6.281	188	89956	2000.00	ppb	0.00
17) Chrysene-d12	8.380	240	85007	2000.00	ppb	0.00
21) Perylene-d12	9.829	264	78396	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.531	82	14135	951.19	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 95.12%#			
7) 2-Fluorobiphenyl	4.819	172	33953	828.03	ppb	-0.02
Spiked Amount 1000.000	Range 25 - 89		Recovery = 82.80%			
11) Pyrene-d10	7.285	212	33716	893.84	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 89.38%			
18) Terphenyl-d14	7.454	244	24369	773.16	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 77.32%			
Target Compounds						Qvalue
3) Naphthalene	4.036	128	100	1.60	ppb	100
4) 2-Methylnaphthalene	4.519	142	2	0.06	ppb	100
5) 1-Methylnaphthalene	4.601	142	16	0.39	ppb	100
8) Acenaphthylene	5.177	152	43	0.79	ppb	100
9) Acenaphthene	5.339	153	29	0.79	ppb	100
12) Fluorene	5.678	166	25	0.63	ppb	100
13) Phenanthrene	6.292	178	139	2.63	ppb	100
14) Anthracene	6.292	178	139	2.69	ppb	100
15) Fluoranthene	7.152	202	28	0.53	ppb	100
16) Pyrene	7.280	202	87	1.55	ppb	100
19) Benzo[a]anthracene	8.380	228	272	6.84	ppb	100
20) Chrysene	8.380	228	272	~~5.02 ppb~~		100
22) Benzo[b]fluoranthene	9.505	252	10	0.28	ppb	100
23) Benzo(j,k)fluoranthene	9.505	252	10	0.19	ppb	100
24) Benzo[a]pyrene	9.778	252	12	0.30	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.847	276	4	0.08	ppb	100
26) Dibenz[a,h]anthracene	10.870	278	5	0.12	ppb	100
27) Benzo[g,h,i]perylene	11.136	276	2	0.05	ppb	100

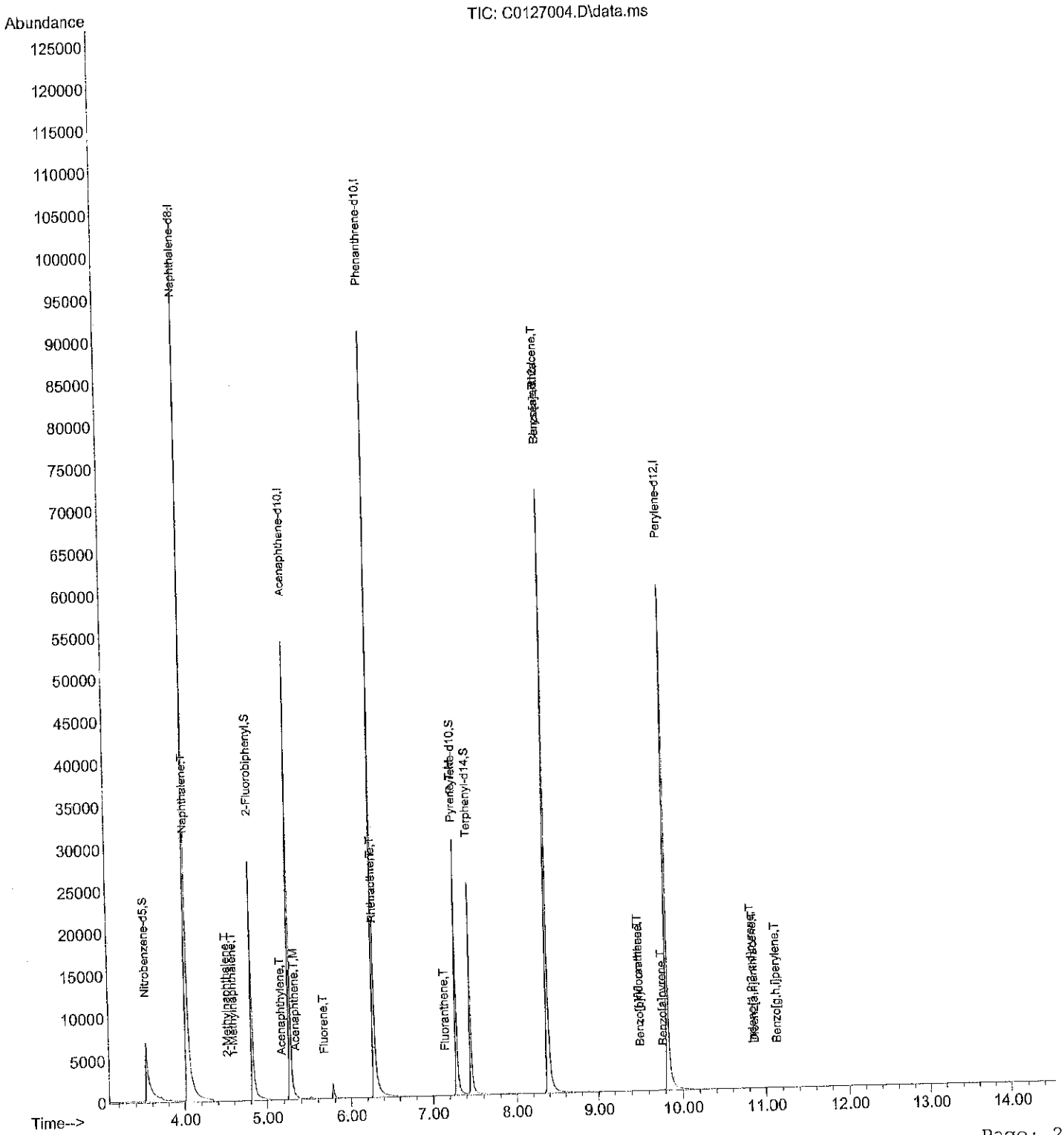
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/28/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127004.D
Acq On : 27 Jan 2015 2:39 pm
Operator :
Sample : MB0127S1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 27 14:54:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127008.D
Acq On : 27 Jan 2015 4:06 pm
Operator :
Sample : 01-159-01 MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 27 16:21:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.024	136	114292	2000.00	ppb	-0.02
6) Acenaphthene-d10	5.270	164	51648	2000.00	ppb	-0.02
10) Phenanthrene-d10	6.276	188	88329	2000.00	ppb	-0.01
17) Chrysene-d12	8.371	240	84627	2000.00	ppb	0.00
21) Perylene-d12	9.823	264	79464	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.531	82	10757	712.23	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 71.22%			
7) 2-Fluorobiphenyl	4.819	172	28707	708.80	ppb	-0.02
Spiked Amount 1000.000	Range 25 - 89		Recovery = 70.88%			
11) Pyrene-d10	7.275	212	26216	707.81	ppb	-0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 70.78%			
18) Terphenyl-d14	7.443	244	19057	607.34	ppb	-0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 60.73%			
Target Compounds						Qvalue
3) Naphthalene	4.036	128	23283	366.70	ppb	100
4) 2-Methylnaphthalene	4.538	142	18212	572.52	ppb	100
5) 1-Methylnaphthalene	4.608	142	18123	436.98	ppb	100
8) Acenaphthylene	5.170	152	20878	387.63	ppb	100
9) Acenaphthene	5.293	153	14654	401.83	ppb	100
12) Fluorene	5.648	166	15211	392.99	ppb	100
13) Phenanthrene	6.292	178	19969	385.50	ppb	100
14) Anthracene	6.327	178	15112	297.85	ppb	100
15) Fluoranthene	7.124	202	18435	354.94	ppb	100
16) Pyrene	7.286	202	19861	359.92	ppb	100
19) Benzo[a]anthracene	8.355	228	13967	353.06	ppb	100
20) Chrysene	8.395	228	16323	302.82	ppb	100
22) Benzo[b]fluoranthene	9.449	252	12169	336.46	ppb	100
23) Benzo(j,k)fluoranthene	9.472	252	13907	258.89	ppb	100
24) Benzo[a]pyrene	9.765	252	12270	298.59	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.846	276	15557	316.94	ppb	100
26) Dibenz[a,h]anthracene	10.877	278	12748	311.22	ppb	100
27) Benzo[g,h,i]perylene	11.092	276	13898	332.62	ppb	100

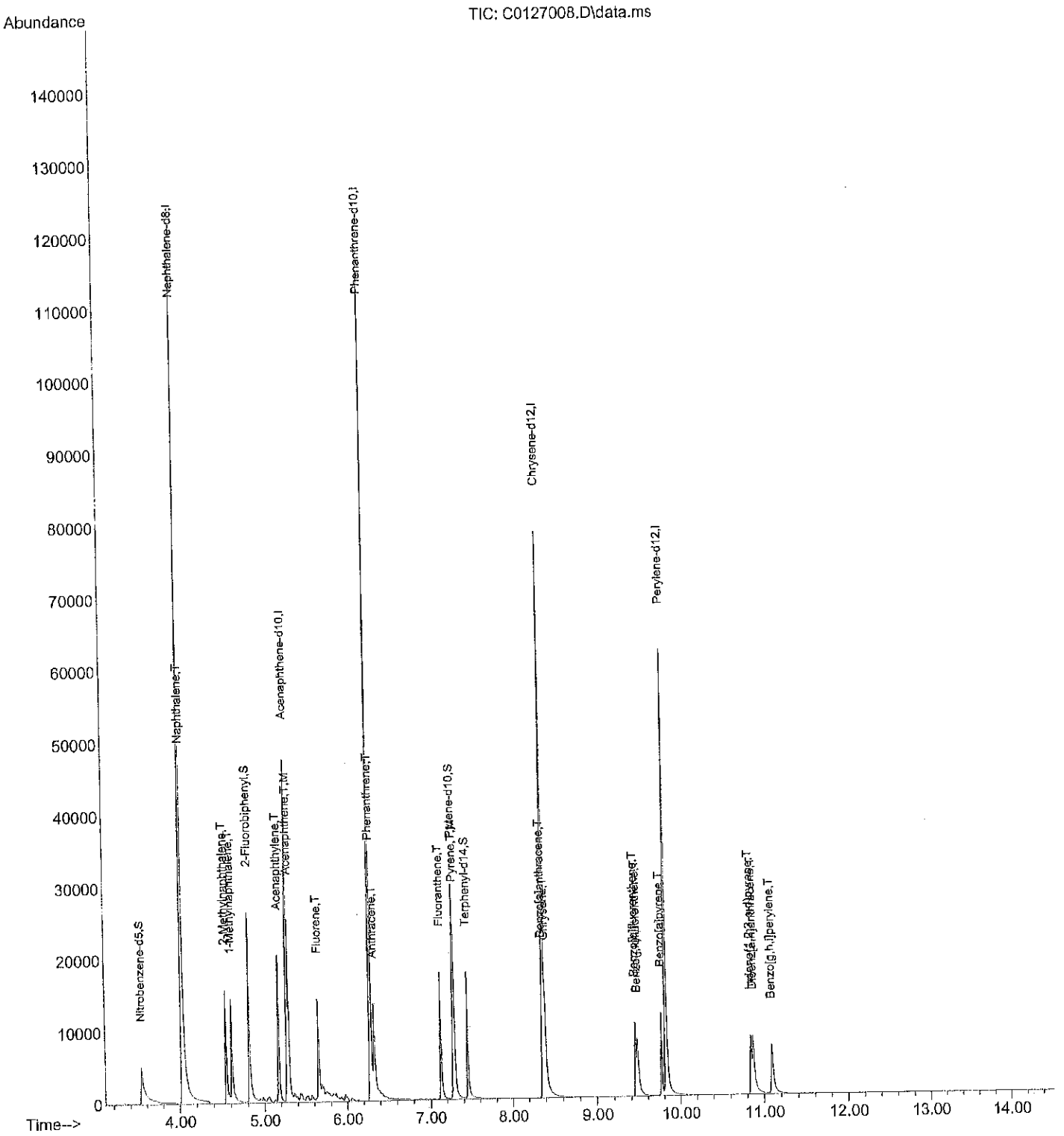
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/28/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127008.D
Acq On : 27 Jan 2015 4:06 pm
Operator :
Sample : 01-159-01 MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 27 16:21:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127009.D
Acq On : 27 Jan 2015 4:27 pm
Operator :
Sample : 01-159-01 MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 27 16:42:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.023	136	112476	2000.00	ppb	-0.02
6) Acenaphthene-d10	5.270	164	51466	2000.00	ppb	-0.02
10) Phenanthrene-d10	6.277	188	88484	2000.00	ppb	-0.01
17) Chrysene-d12	8.372	240	82670	2000.00	ppb	0.00
21) Perylene-d12	9.824	264	78967	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.530	82	11843	796.79	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 79.68%			
7) 2-Fluorobiphenyl	4.818	172	28494	706.03	ppb	-0.02
Spiked Amount 1000.000	Range 25 - 89		Recovery = 70.60%			
11) Pyrene-d10	7.273	212	27259	734.68	ppb	-0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 73.47%			
18) Terphenyl-d14	7.447	244	19977	651.73	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 65.17%			
Target Compounds						Qvalue
3) Naphthalene	4.035	128	22394	358.39	ppb	100
4) 2-Methylnaphthalene	4.537	142	12511	399.65	ppb	100
5) 1-Methylnaphthalene	4.608	142	15913	389.89	ppb	100
8) Acenaphthylene	5.170	152	21359	397.96	ppb	100
9) Acenaphthene	5.293	153	14646	403.03	ppb	100
12) Fluorene	5.647	166	15064	388.51	ppb	100
13) Phenanthrene	6.288	178	19197	369.94	ppb	100
14) Anthracene	6.327	178	16047	315.72	ppb	100
15) Fluoranthene	7.122	202	19446	373.74	ppb	100
16) Pyrene	7.285	202	20547	371.70	ppb	100
19) Benzo[a]anthracene	8.357	228	14353	371.41	ppb	100
20) Chrysene	8.392	228	17084	324.44	ppb	100
22) Benzo[b]fluoranthene	9.449	252	11967	332.96	ppb	100
23) Benzo(j,k)fluoranthene	9.472	252	16327	305.85	ppb	100
24) Benzo[a]pyrene	9.765	252	12981	317.88	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.847	276	16346	335.11	ppb	100
26) Dibenz[a,h]anthracene	10.878	278	13259	325.74	ppb	100
27) Benzo[g,h,i]perylene	11.093	276	14136	340.45	ppb	100

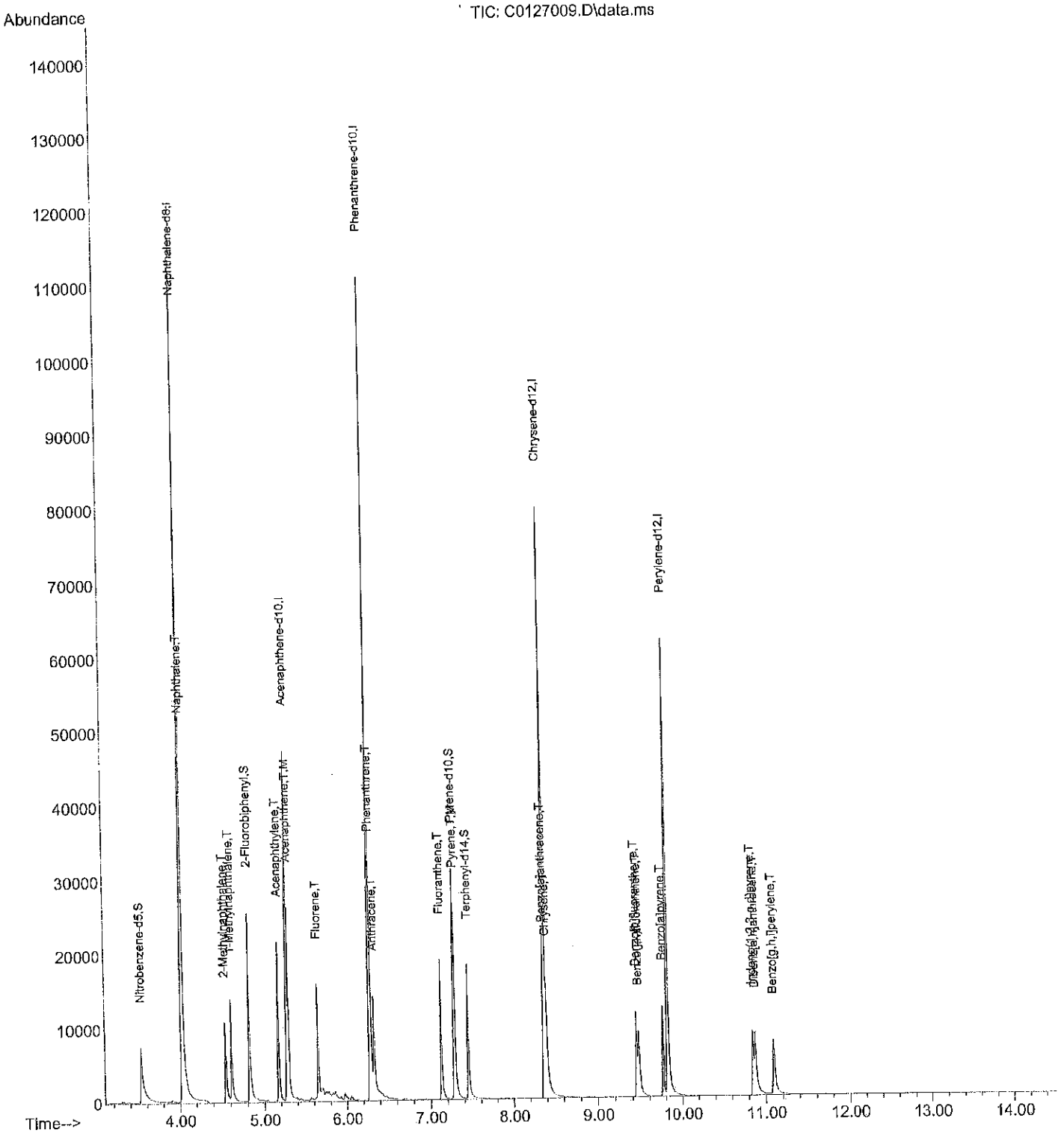
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/28/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150127\
Data File : C0127009.D
Acq On : 27 Jan 2015 4:27 pm
Operator :
Sample : 01-159-01 MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 27 16:42:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150127\
Data File : C0127003.D
Acq On : 27 Jan 2015 1:40 pm
Operator :
Sample : PAH CCV010126
Misc : SV4-51-11
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 27 14:02:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	88	-0.02
2	S	Nitrobenzene-d5	500.000	437.941	12.4	71	0.00
3	T	Naphthalene	500.000	469.105	6.2	81	-0.02
4	T	2-Methylnaphthalene	500.000	521.144	-4.2	83	-0.02
5	T	1-Methylnaphthalene	500.000	521.213	-4.2	92	-0.02
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	88	-0.02
7	S	2-Fluorobiphenyl	500.000	465.917	6.8	79	-0.02
8	T	Acenaphthylene	500.000	488.164	2.4	88	-0.02
9	T,M	Acenaphthene	500.000	492.148	1.6	89	-0.02
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	88	-0.01
11	S	Pyrene-d10	500.000	488.277	2.3	88	-0.01
12	T	Fluorene	500.000	491.416	1.7	88	-0.02
13	T	Phenanthrene	500.000	457.251	8.5	87	-0.01
14	T	Anthracene	500.000	486.621	2.7	83	-0.02
15	T	Fluoranthene	500.000	479.319	4.1	89	0.00
16	T,M	Pyrene	500.000	475.685	4.9	88	-0.01
17	I	Chrysene-d12	2000.000	2000.000	0.0	91	0.00
18	S	Terphenyl-d14	500.000	477.425	4.5	91	0.00
19	T	Benzo[a]anthracene	500.000	493.831	1.2	96	0.00
20	T	Chrysene	500.000	414.979	17.0	83	0.00
21	I	Perylene-d12	2000.000	2000.000	0.0	92	0.00
22	T	Benzo[b]fluoranthene	500.000	480.268	3.9	89	0.00
23	T	Benzo(j,k)fluoranthene	500.000	429.248	14.2	88	0.00
24	T	Benzo[a]pyrene	500.000	441.934	11.6	84	0.00
25	T	Indeno(1,2,3-c,d)pyrene	500.000	472.287	5.5	92	0.00
26	T	Dibenz[a,h]anthracene	500.000	461.455	7.7	92	0.00
27	T	Benzo[g,h,i]perylene	500.000	464.103	7.2	90	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150127\
Data File : C0127003.D
Acq On : 27 Jan 2015 1:40 pm
Operator :
Sample : PAH CCV010126
Misc : SV4-51-11
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 27 14:02:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.025	136	113232	2000.00	ppb	-0.02
6) Acenaphthene-d10	5.277	164	54555	2000.00	ppb	-0.02
10) Phenanthrene-d10	6.277	188	96183	2000.00	ppb	-0.01
17) Chrysene-d12	8.372	240	93487	2000.00	ppb	0.00
21) Perylene-d12	9.825	264	87386	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.543	82	6553	437.94	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 43.79%			
7) 2-Fluorobiphenyl	4.823	172	19932	465.92	ppb	-0.02
Spiked Amount 1000.000	Range 25 - 89		Recovery = 46.59%			
11) Pyrene-d10	7.274	212	19693	488.28	ppb	-0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 48.83%			
18) Terphenyl-d14	7.448	244	16549	477.43	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 47.74%			
Target Compounds						Qvalue
3) Naphthalene	4.036	128	29509	469.10	ppb	100
4) 2-Methylnaphthalene	4.542	142	16424	521.14	ppb	100
5) 1-Methylnaphthalene	4.612	142	21416	521.21	ppb	100
8) Acenaphthylene	5.169	152	27773	488.16	ppb	100
9) Acenaphthene	5.293	153	18958	492.15	ppb	100
12) Fluorene	5.647	166	20712	491.42	ppb	100
13) Phenanthrene	6.288	178	25792	457.25	ppb	100
14) Anthracene	6.324	178	26885	486.62	ppb	100
15) Fluoranthene	7.123	202	27109	479.32	ppb	100
16) Pyrene	7.285	202	28583	475.69	ppb	100
19) Benzo[a]anthracene	8.357	228	21581	493.83	ppb	100
20) Chrysene	8.396	228	24711	414.98	ppb	100
22) Benzo[b]fluoranthene	9.446	252	19102	480.27	ppb	100
23) Benzo(j,k)fluoranthene	9.473	252	25357m	429.25	ppb	
24) Benzo[a]pyrene	9.766	252	19971	441.93	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.843	276	25493	472.29	ppb	100
26) Dibenz[a,h]anthracene	10.875	278	20786	461.46	ppb	100
27) Benzo[g,h,i]perylene	11.093	276	21325	464.10	ppb	100

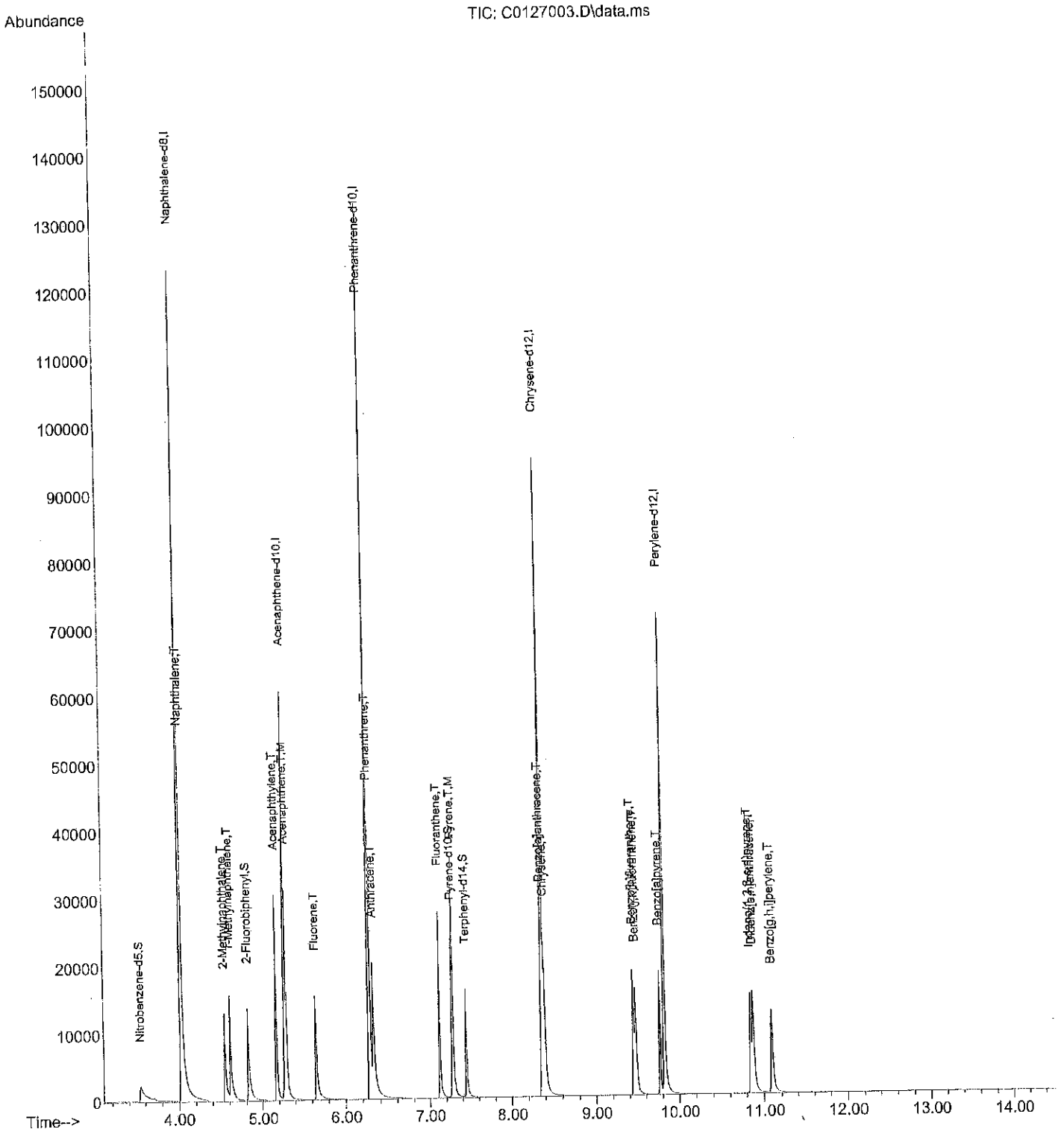
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1/27/15 gm

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150127\
Data File : C0127003.D
Acq On : 27 Jan 2015 1:40 pm
Operator :
Sample : PAH CCV010126
Misc : SV4-51-11
ALS Vial : 3 Sample Multiplier: 1

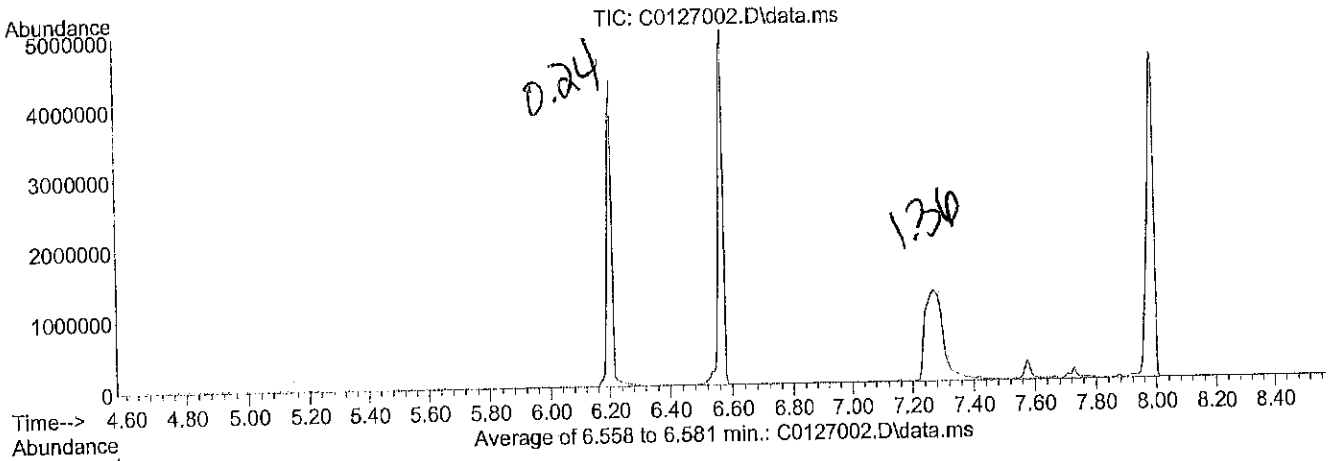
Quant Time: Jan 27 14:02:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0123.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 23 14:58:25 2015
Response via : Initial Calibration

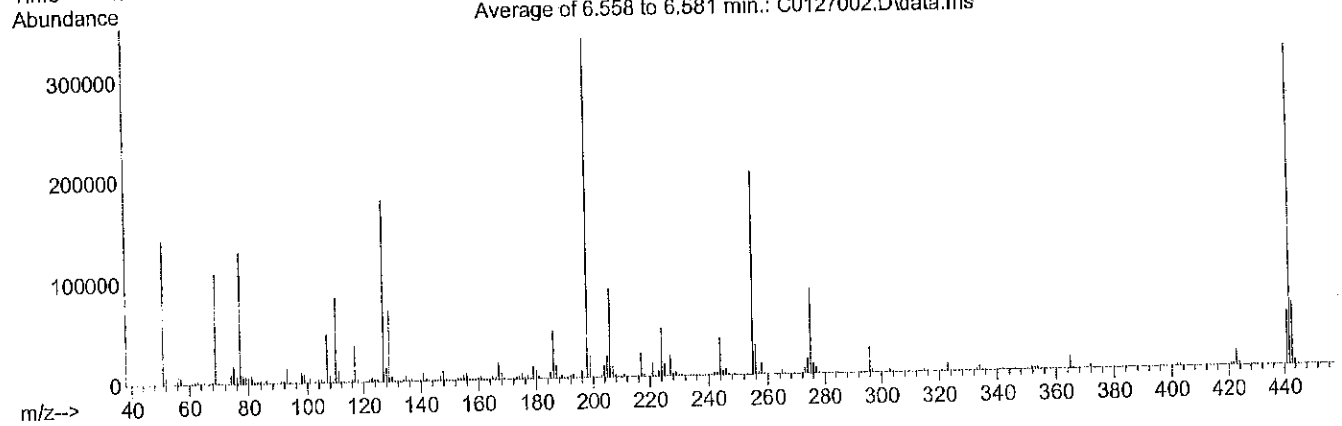


Data Path : X:\SEMIVOLS\COREY\DATA\C150127\
Data File : C0127002.D
Acq On : 27 Jan 2015 1:19 pm
Operator :
Sample : DFTPP
Misc : SV4-49-03
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0123.M
Title : PAH'S BY SIMS
Last Update : Fri Jan 23 14:58:25 2015





Spectrum Information: Average of 6.558 to 6.581 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	42.4	142973	PASS
68	69	0.00	2	1.5	1613	PASS
69	198	0.00	100	32.6	110198	PASS
70	69	0.00	2	0.7	722	PASS
127	198	25	75	53.3	179796	PASS
197	198	0.00	1	0.3	917	PASS
198	198	100	100	100.0	337585	PASS
199	198	5	9	6.7	22620	PASS
275	198	10	30	25.3	85496	PASS
365	198	0.75	100	3.9	13109	PASS
441	443	0.01	100	86.4	53910	PASS
442	198	40	110	94.6	319243	PASS
443	442	15	24	19.6	62421	PASS

Total Cadmium Data

P150127F1. Mean Only Report 1/27/2015, 5:32:52 PM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	1/27/2015, 11:11:30 AM
Standard 5	Cd 228.802	10.000	ppb	1/27/2015, 10:36:46 AM
Standard 4	Cd 228.802	100.00	ppb	1/27/2015, 9:50:37 AM
Standard 3	Cd 228.802	1000.0	ppb	1/27/2015, 9:55:40 AM
Standard 2	Cd 228.802	2500.0	ppb	1/27/2015, 10:00:46 AM
Standard 1	Cd 228.802	5000.0	ppb	1/27/2015, 10:05:51 AM
Initial Calib Verif	Cd 228.802	1014.0	ppb	1/27/2015, 11:17:31 AM
LLICV	Cd 228.802	11.563	ppb	1/27/2015, 11:32:11 AM
Initial Calib Blank	Cd 228.802	1.031	ppb	1/27/2015, 11:38:58 AM
Cont Calib Verif	Cd 228.802	1058.4	ppb	1/27/2015, 11:44:02 AM
Cont Calib Blank	Cd 228.802	1.004	ppb	1/27/2015, 11:49:06 AM
ICSA	Cd 228.802	0.001uv	ppb	1/27/2015, 11:54:11 AM
ICSAB	Cd 228.802	912.53	ppb	1/27/2015, 11:59:15 AM
BLK	Cd 228.802	-0.246uv	ppb	1/27/2015, 12:21:33 PM
MB0127SM1	Cd 228.802	1.708uv	ppb	1/27/2015, 12:26:39 PM
SB0127SM1	Cd 228.802	885.75	ppb	1/27/2015, 12:33:27 PM
01-156-04	Cd 228.802	17.976	ppb	1/27/2015, 12:38:32 PM
01-156-04 D	Cd 228.802	16.218	ppb	1/27/2015, 12:43:38 PM
01-156-04 L	Cd 228.802	2.529	ppb	1/27/2015, 12:48:42 PM
01-156-04 MS	Cd 228.802	928.69	ppb	1/27/2015, 12:53:50 PM
01-156-04 MSD	Cd 228.802	897.68	ppb	1/27/2015, 12:58:54 PM
Cont Calib Verif	Cd 228.802	1041.7	ppb	1/27/2015, 1:03:58 PM
Cont Calib Blank	Cd 228.802	0.522	ppb	1/27/2015, 1:13:51 PM
LLCCV	Cd 228.802	11.034	ppb	1/27/2015, 1:29:20 PM
12-061-02	Cd 228.802	95.744	ppb	1/27/2015, 1:38:39 PM
12-061-06	Cd 228.802	6.605	ppb	1/27/2015, 1:43:42 PM
01-156-01	Cd 228.802	8.593	ppb	1/27/2015, 1:48:48 PM
01-159-01a	Cd 228.802	3.524	ppb	1/27/2015, 1:53:54 PM
01-159-02a	Cd 228.802	2.963	ppb	1/27/2015, 1:58:57 PM
01-172-03a	Cd 228.802	2.268	ppb	1/27/2015, 2:04:01 PM
01-172-04a	Cd 228.802	3.254	ppb	1/27/2015, 2:09:05 PM
Cont Calib Verif	Cd 228.802	1054.4	ppb	1/27/2015, 2:14:10 PM
Cont Calib Blank	Cd 228.802	1.337	ppb	1/27/2015, 2:21:23 PM
LLCCV	Cd 228.802	11.155	ppb	1/27/2015, 2:26:28 PM

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 3, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-217

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 29, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

Case Narrative

Samples were collected on January 29, 2015 and received by the laboratory on January 29, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/Benzene EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-42-13.0	01-217-01	Soil	1-29-15	1-29-15	
EX-44-6.5	01-217-03	Soil	1-29-15	1-29-15	
EX-45-6.5	01-217-04	Soil	1-29-15	1-29-15	
Trip Blank-012915	01-217-05	Water	1-29-15	1-29-15	

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-42-13.0**					
Laboratory ID:	01-217-01					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*68-123*				
Client ID:	**EX-44-6.5**					
Laboratory ID:	01-217-03					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*68-123*				
Client ID:	**EX-45-6.5**					
Laboratory ID:	01-217-04					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*117*	*68-123*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank-012915**					
Laboratory ID:	01-217-05					
Benzene	**ND**	1.0	EPA 8021B	1-30-15	1-30-15	
Gasoline	**ND**	100	NWTPH-Gx	1-30-15	1-30-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*71-113*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-42-13.0**					
Laboratory ID:	01-217-01					
Diesel Range Organics	**ND**	30	NWTPH-Dx	1-30-15	2-2-15	X1
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	1-30-15	2-2-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				
Client ID:	**EX-44-6.5**					
Laboratory ID:	01-217-03					
Diesel Range Organics	**ND**	27	NWTPH-Dx	1-30-15	2-2-15	X1
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	1-30-15	2-2-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**EX-45-6.5**					
Laboratory ID:	01-217-04					
Diesel Range Organics	**ND**	30	NWTPH-Dx	1-30-15	2-2-15	X1
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	1-30-15	2-2-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-42-13.0**					
Laboratory ID:	01-217-01					
Benzo[a]anthracene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Chrysene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[b]fluoranthene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo(j,k)fluoranthene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[a]pyrene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270D/SIM	1-30-15	1-30-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*78*	*32 - 114*				
Pyrene-d10	*73*	*33 - 121*				
Terphenyl-d14	*60*	*31 - 116*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-44-6.5**					
Laboratory ID:	01-217-03					
Benzo[a]anthracene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Chrysene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[b]fluoranthene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo(j,k)fluoranthene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[a]pyrene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270D/SIM	1-30-15	1-30-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*32 - 114*				
Pyrene-d10	*86*	*33 - 121*				
Terphenyl-d14	*82*	*31 - 116*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-45-6.5**					
Laboratory ID:	01-217-04					
Benzo[a]anthracene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Chrysene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[b]fluoranthene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[a]pyrene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270D/SIM	1-30-15	1-30-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*82*	*32 - 114*				
Pyrene-d10	*87*	*33 - 121*				
Terphenyl-d14	*77*	*31 - 116*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-217-01					
Client ID:	**EX-42-13.0**					
Cadmium	**ND**	0.60	6010C	1-29-15	1-29-15	
Lab ID:	01-217-03					
Client ID:	**EX-44-6.5**					
Cadmium	**ND**	0.55	6010C	1-29-15	1-29-15	
Lab ID:	01-217-04					
Client ID:	**EX-45-6.5**					
Cadmium	**ND**	0.61	6010C	1-29-15	1-29-15	

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0131S1					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*68-123*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-217-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*101*	*106*	*68-123*			
SPIKE BLANKS											
Laboratory ID:	SB0131S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.955**	**1.01**	1.00	1.00		**96**	**101**	75-117	6	13	
Surrogate:											
Fluorobenzene						*91*	*96*	*68-123*			

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0131G-1	5.00	4.44	11	+/- 20%
CCVD0131G-2	5.00	4.42	12	+/- 20%

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0131B-1	50.0	51.6	-3	+/- 15%
Benzene	CCVD0131B-2	50.0	49.4	1	+/- 15%

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0130W1					
Benzene	**ND**	1.0	EPA 8021B	1-30-15	1-30-15	
Gasoline	**ND**	100	NWTPH-Gx	1-30-15	1-30-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*71-113*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-228-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*88*	*90*	*71-113*			
SPIKE BLANKS											
Laboratory ID:	SB0130W1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**46.8**	**47.2**	50.0	50.0		**94**	**94**	80-118	1	11	
Surrogate:											
Fluorobenzene						*87*	*89*	*71-113*			

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0130G-1	5.00	4.82	4	+/- 20%
CCVH0130G-2	5.00	4.52	10	+/- 20%

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

BENZENE EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0130B-1	50.0	48.1	4	+/- 15%
Benzene	CCVH0130B-2	50.0	46.7	7	+/- 15%
Benzene	CCVH0130B-3	50.0	45.0	10	+/- 15%

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0130S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	1-30-15	2-2-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	1-30-15	2-2-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-232-04										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*91*	*91*	*50-150*			

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0130R-T2	100	99.2	0.8	+/-15%
CCV0130R-T3	100	99.3	0.7	+/-15%
CCV0202F-V3	100	103	-3.0	+/-15%
CCV0202F-V4	100	103	-3.0	+/-15%
CCV0202R-V1	100	95.7	4.3	+/-15%
CCV0202R-V2	100	100	0.0	+/-15%
CCV0202R-V3	100	102	-2.0	+/-15%
CCV0202R-V4	100	107	-7.0	+/-15%

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0130S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	1-30-15	1-30-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*32 - 114*				
Pyrene-d10	*87*	*33 - 121*				
Terphenyl-d14	*85*	*31 - 116*				

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

cPAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0130S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0723**	**0.0683**	0.0833	0.0833	87	82	60 - 128	6	15	
Chrysene	**0.0826**	**0.0895**	0.0833	0.0833	99	107	60 - 117	8	13	
Benzo[b]fluoranthene	**0.0590**	**0.0573**	0.0833	0.0833	71	69	60 - 131	3	16	
Benzo(j,k)fluoranthene	**0.0814**	**0.0861**	0.0833	0.0833	98	103	57 - 126	6	20	
Benzo[a]pyrene	**0.0664**	**0.0760**	0.0833	0.0833	80	91	62 - 136	13	16	
Indeno(1,2,3-c,d)pyrene	**0.0800**	**0.0727**	0.0833	0.0833	96	87	60 - 127	10	19	
Dibenz[a,h]anthracene	**0.0768**	**0.0714**	0.0833	0.0833	92	86	62 - 133	7	22	
Surrogate:										
2-Fluorobiphenyl					*93*	*92*	*32 - 114*			
Pyrene-d10					*80*	*94*	*33 - 121*			
Terphenyl-d14					*98*	*86*	*31 - 116*			

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	1-29-15
Date Analyzed:	1-29-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0129SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 1-29-15
Date Analyzed: 1-29-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-201-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 1-29-15
Date Analyzed: 1-29-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-201-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**47.6**	95	**48.2**	96	1	

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV012915P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLICV1012915P	0.0100	0.0102	-2.0	+/- 30%
Cadmium	CCV1012915P	1.00	1.02	-2.0	+/- 10%
Cadmium	CCV2012915P	1.00	1.05	-5.0	+/- 10%
Cadmium	LLCCV2012915P	0.0100	0.00948	5.2	+/- 30%
Cadmium	CCV3012915P	1.00	1.05	-5.0	+/- 10%
Cadmium	LLCCV3012915P	0.0100	0.00931	6.9	+/- 30%
Cadmium	CCV4012915P	1.00	1.02	-2.0	+/- 10%
Cadmium	LLCCV4012915P	0.0100	0.00997	0.30	+/- 30%
Cadmium	CCV5012915P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV5012915P	0.0100	0.00775	23	+/- 30%
Cadmium	CCV6012915P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV6012915P	0.0100	0.00897	10	+/- 30%

Date of Report: February 3, 2015
Samples Submitted: January 29, 2015
Laboratory Reference: 1501-217
Project: 5147-012-06

% MOISTURE

Date Analyzed: 1-30-15

Client ID	Lab ID	% Moisture
EX-42-13.0	01-217-01	17
EX-44-6.5	01-217-03	8
EX-45-6.5	01-217-04	18

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

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Company: GEOENGINEERS INC
Project Number: 5147-012-00
Project Name: FORMER SHELL TANK FARM SITE
Project Manager: ABHIJIT JOSHI
Sampled by: NATHAN SOLOMON

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☑ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 01-217

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BENZENE 8021B	cPAHs 8270D/SIM	CADMIUM 6010C	HOLD		% Moisture
1	EX-42-13.0	1/29/15	0830	SOIL	2			X	X													X	X	X			X
2	EX-43-14.0	1/29/15	0835	SOIL	2			X	X													X	X	X	X		
3	EX-44-6.5	1/29/15	0840	SOIL	2			X	X													X	X	X			X
4	EX-45-6.5	1/29/15	0845	SOIL	2			X	X													X	X	X			X
5	TRIPBLANK_012915	1/29/15	—	LIQUID	1			X														X					

	Signature	Company	Date	Time
Relinquished		GEI	1/29/15	1020
Received		alpha	1/29/15	1020
Relinquished		alpha	1/29/15	1213
Received		ONE	1/29/15	1213
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
HOLD EX-43-14.0

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: QES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 01-217

Initiated by: MV

Date Initiated: 1/29/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	(	N/A	1 2 3 4	

Explain any discrepancies:

2.4) Sample 4) EX-45-6.5 1/29/15 0845 on COC
EX-45- " " on vial

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

//SERVER\OSE\Administration\forms\cooler_checklist.xls

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150131\0131011.D\FID2B.CH
Acq On : 31 Jan 2015 20:21 Operator:
Sample : 01-217-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 20:49 2015 Quant Results File: 141012MB.RES

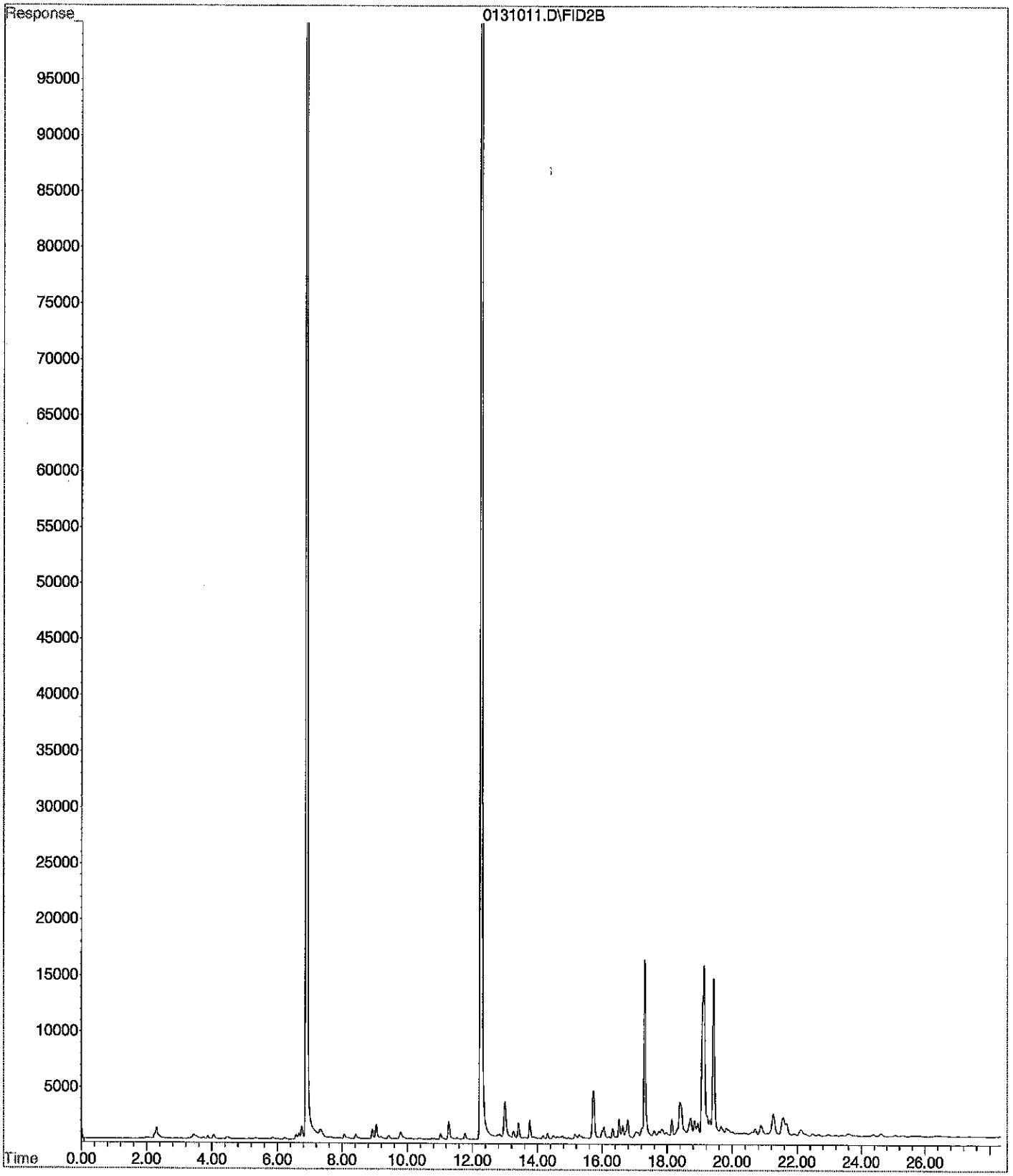
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.90	2520628	36.289	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1453704	35.743	PPB
12)	S	FLUOROBENZENE #2	6.90	6358539	28.580	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	8580582	28.524	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	686342	0.007	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3693029	0.045	PPM
3)	H	GASOLINE (9-24-14)	13.51	982473	0.003	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6348334	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3360888	0.006	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2558029	N.D.	PPM
10)		MTBE #2	4.66	231	N.D.	PPB
11)		BENZENE #2	6.67	19034	0.020	PPB
13)		TOLUENE #2	9.06	53072	0.014	PPB
14)		ETHYLBENZENE #2	11.03	22285	N.D.	PPB
15)		m,p-XYLENE #2	11.28	64106	N.D.	PPB
16)		o-XYLENE #2	11.77	21900	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131011.D
Operator :
Acquired : 31 Jan 2015 20:21 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-01s
Misc Info : V2-36-17
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131013.D\FID1A.CH Vial: 13
Signal #2 : d:\btex\DATA\D150131\0131013.D\FID2B.CH
Acq On : 31 Jan 2015 21:27 Operator:
Sample : 01-217-03s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 21:55 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

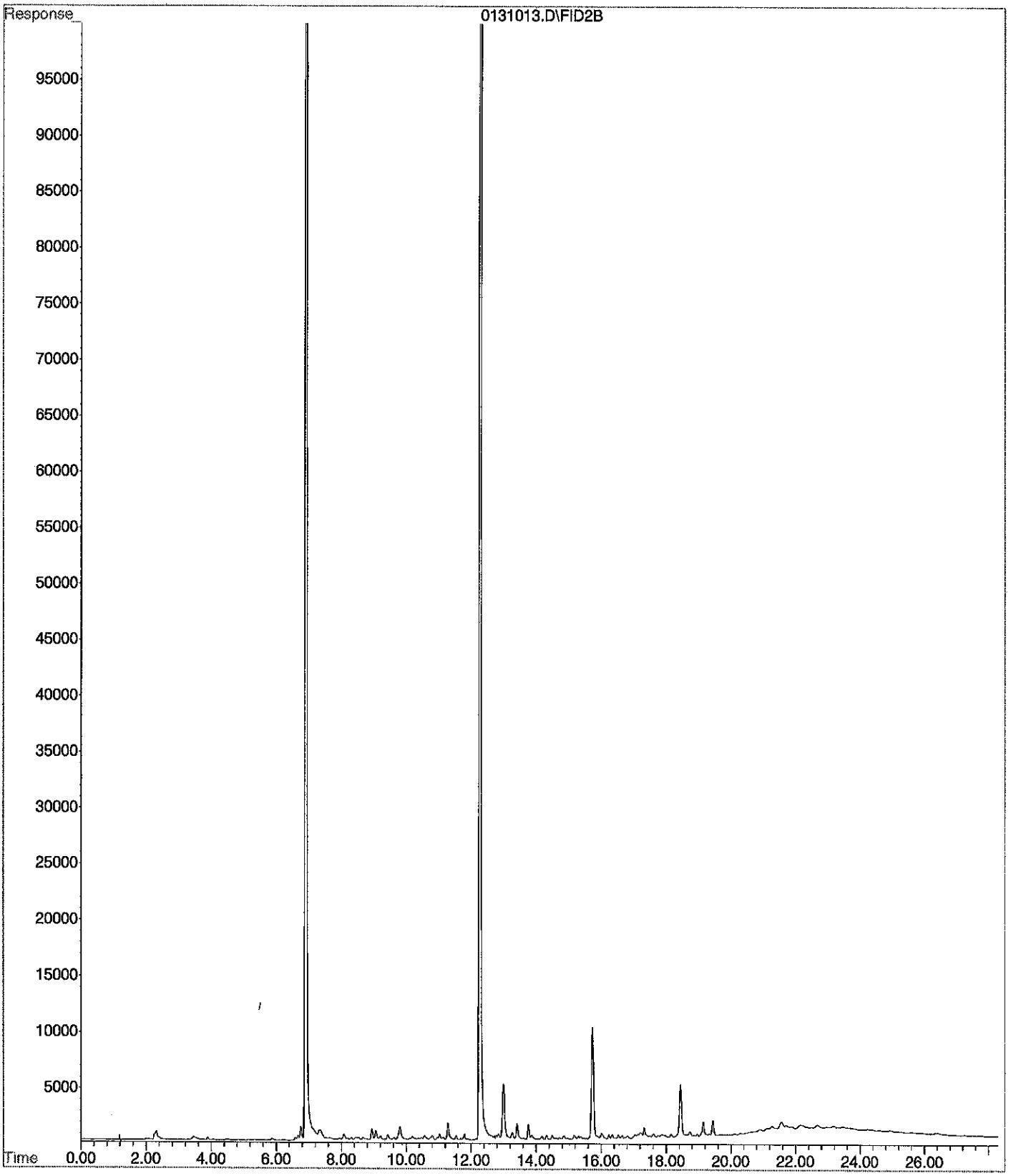
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2890972	41.669	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1705779	42.041	PPB
12)	S	FLUOROBENZENE #2	6.91	7391322	33.275	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	10084856	33.605	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	930062	0.012	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3041417	0.035	PPM
3)	H	GASOLINE (9-24-14)	13.51	1002946	0.004	PPM
7)	H	entire GAS envelope #2 (9-	12.26	4790061	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3202610	0.004	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2611370	N.D.	PPM
10)		MTBE #2	4.71	1413	N.D.	PPB
11)		BENZENE #2	6.68	15579	0.009	PPB
13)		TOLUENE #2	9.06	36930	N.D.	PPB
14)		ETHYLBENZENE #2	11.03	20905	N.D.	PPB
15)		m,p-XYLENE #2	11.29	71713	N.D.	PPB
16)		o-XYLENE #2	11.78	21341	N.D.	PPB

2/2

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131013.D
Operator :
Acquired : 31 Jan 2015 21:27 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-03s
Misc Info : V2-36-17
Vial Number: 13



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D150131\0131014.D\FID2B.CH
Acq On : 31 Jan 2015 22:00 Operator:
Sample : 01-217-04s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 22:29 2015 Quant Results File: 141012MB.RES

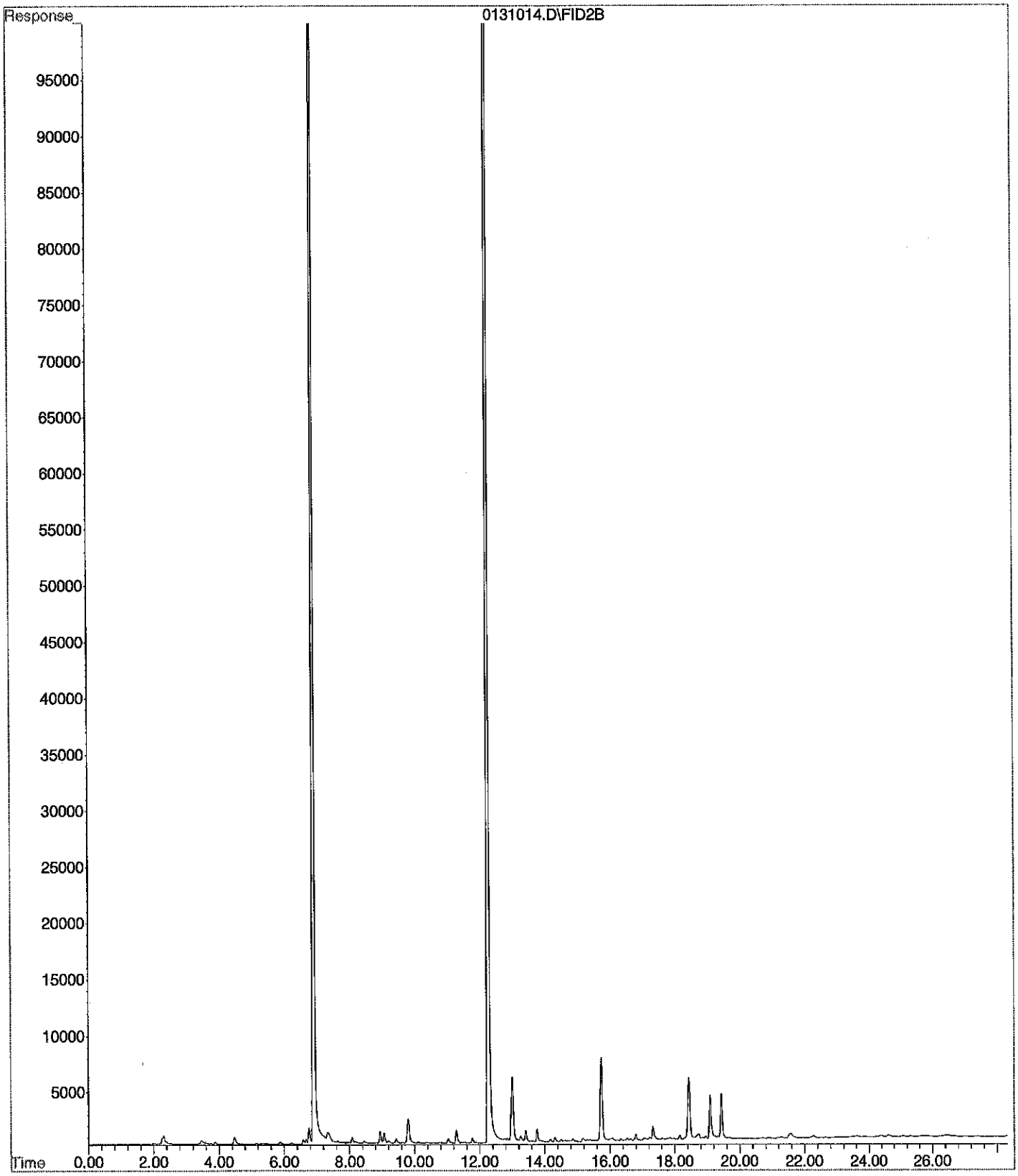
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2958753	42.654	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1713978	42.246	PPB
12)	S	FLUOROBENZENE #2	6.91	7512283	33.825	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	10191558	33.966	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	690332	0.007	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2676242	0.030	PPM
3)	H	GASOLINE (9-24-14)	13.51	709875	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	4354295	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	2878484	N.D.	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2287527	N.D.	PPM
10)		MTBE #2	4.67	1262	N.D.	PPB
11)		BENZENE #2	6.68	14707	0.006	PPB
13)		TOLUENE #2	9.06	44616	N.D.	PPB
14)		ETHYLBENZENE #2	11.04	23641	N.D.	PPB
15)		m,p-XYLENE #2	11.29	55611	N.D.	PPB
16)		o-XYLENE #2	11.78	25918	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131014.D
Operator :
Acquired : 31 Jan 2015 22:00 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-04s
Misc Info : V2-36-17
Vial Number: 14



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150131\0131008.D\FID2B.CH
Acq On : 31 Jan 2015 18:42 Operator:
Sample : MB0131S1 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 19:11 2015 Quant Results File: 141012MB.RES

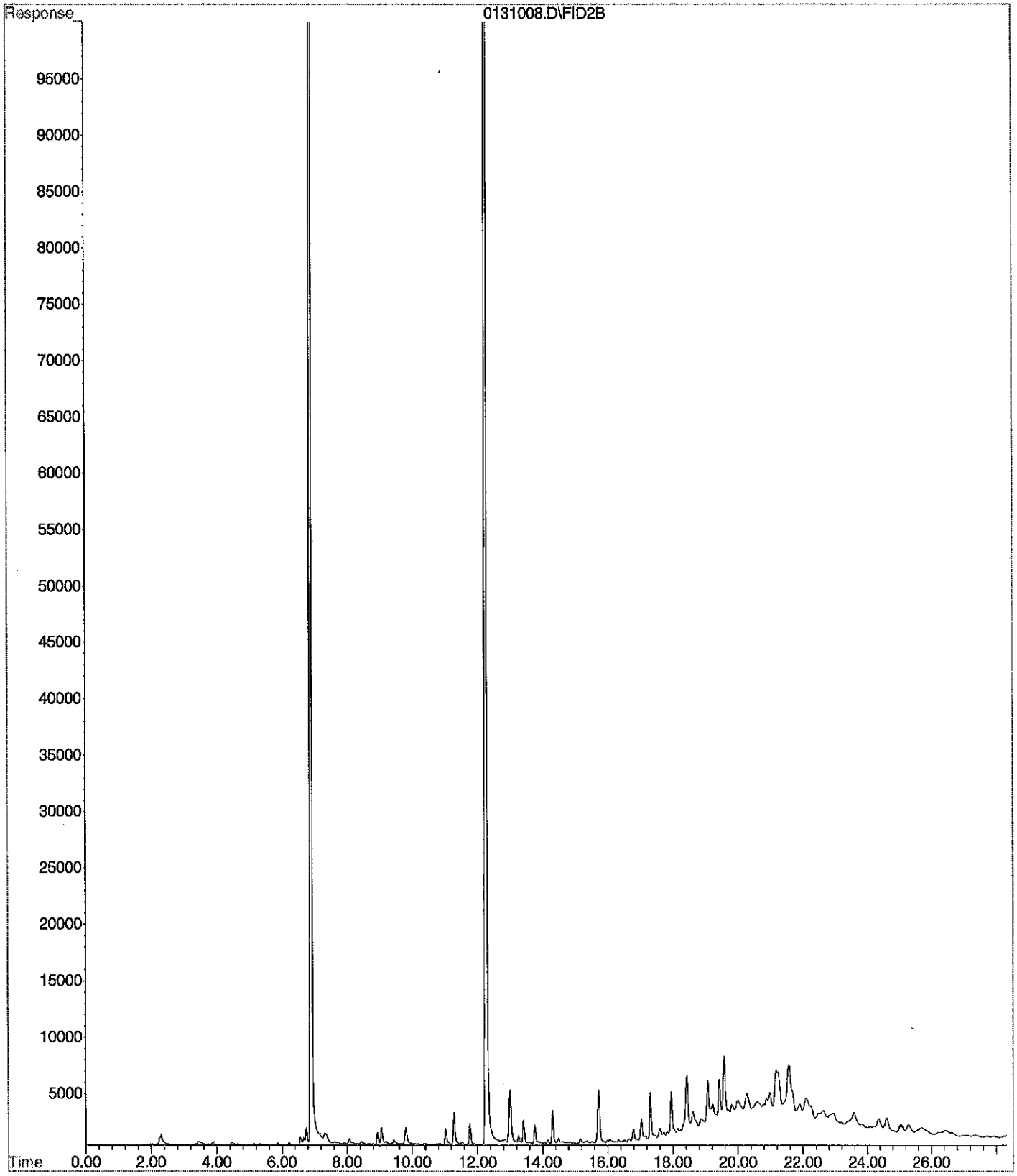
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.90	3134388	45.206 PPB
5)	S	BROMOFLUOROBENZENE	12.26	1804949	44.518 PPB
12)	S	FLUOROBENZENE #2	6.90	8010180	36.089 PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	10673771	35.595 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	864967	0.011 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	5958312	0.080 PPM
3)	H	GASOLINE (9-24-14)	13.51	1183361	0.008 PPM
7)	H	entire GAS envelope #2 (9-	12.26	9921580	0.020 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	4151995	0.015 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2644938	N.D. PPM
10)		MTBE #2	4.64	6495	0.041 PPB
11)		BENZENE #2	6.67	23171	0.035 PPB
13)		TOLUENE #2	9.06	63297	0.050 PPB
14)		ETHYLBENZENE #2	11.02	56896	0.114 PPB
15)		m,p-XYLENE #2	11.28	112903	N.D. PPB
16)		o-XYLENE #2	11.77	68805	0.008 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131008.D
Operator :
Acquired : 31 Jan 2015 18:42 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: MB0131S1
Misc Info : V2-36-17
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150131\0131011.D\FID2B.CH
Acq On : 31 Jan 2015 20:21 Operator:
Sample : 01-217-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 20:49 2015 Quant Results File: 141012MB.RES

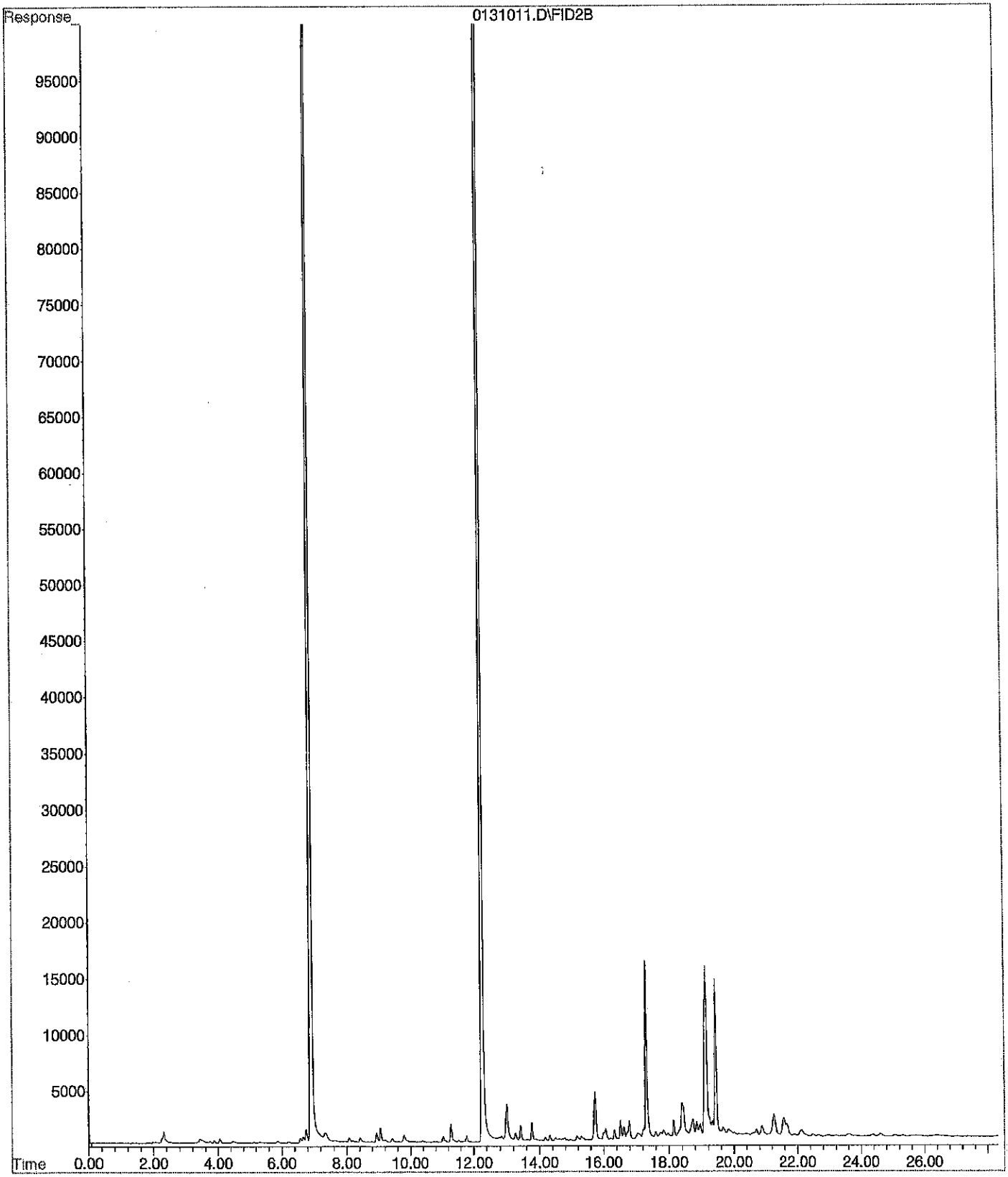
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.90	2520628	36.289	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1453704	35.743	PPB
12)	S	FLUOROBENZENE #2	6.90	6358539	28.580	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	8580582	28.524	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	686342	0.007	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3693029	0.045	PPM
3)	H	GASOLINE (9-24-14)	13.51	982473	0.003	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6348334	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3360888	0.006	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2558029	N.D.	PPM
10)		MTBE #2	4.66	231	N.D.	PPB
11)		BENZENE #2	6.67	19034	0.020	PPB
13)		TOLUENE #2	9.06	53072	0.014	PPB
14)		ETHYLBENZENE #2	11.03	22285	N.D.	PPB
15)		m,p-XYLENE #2	11.28	64106	N.D.	PPB
16)		o-XYLENE #2	11.77	21900	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131011.D
Operator :
Acquired : 31 Jan 2015 20:21 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-01s
Misc Info : V2-36-17
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D150131\0131012.D\FID2B.CH
Acq On : 31 Jan 2015 20:54 Operator:
Sample : 01-217-01s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 21:22 2015 Quant Results File: 141012MB.RES

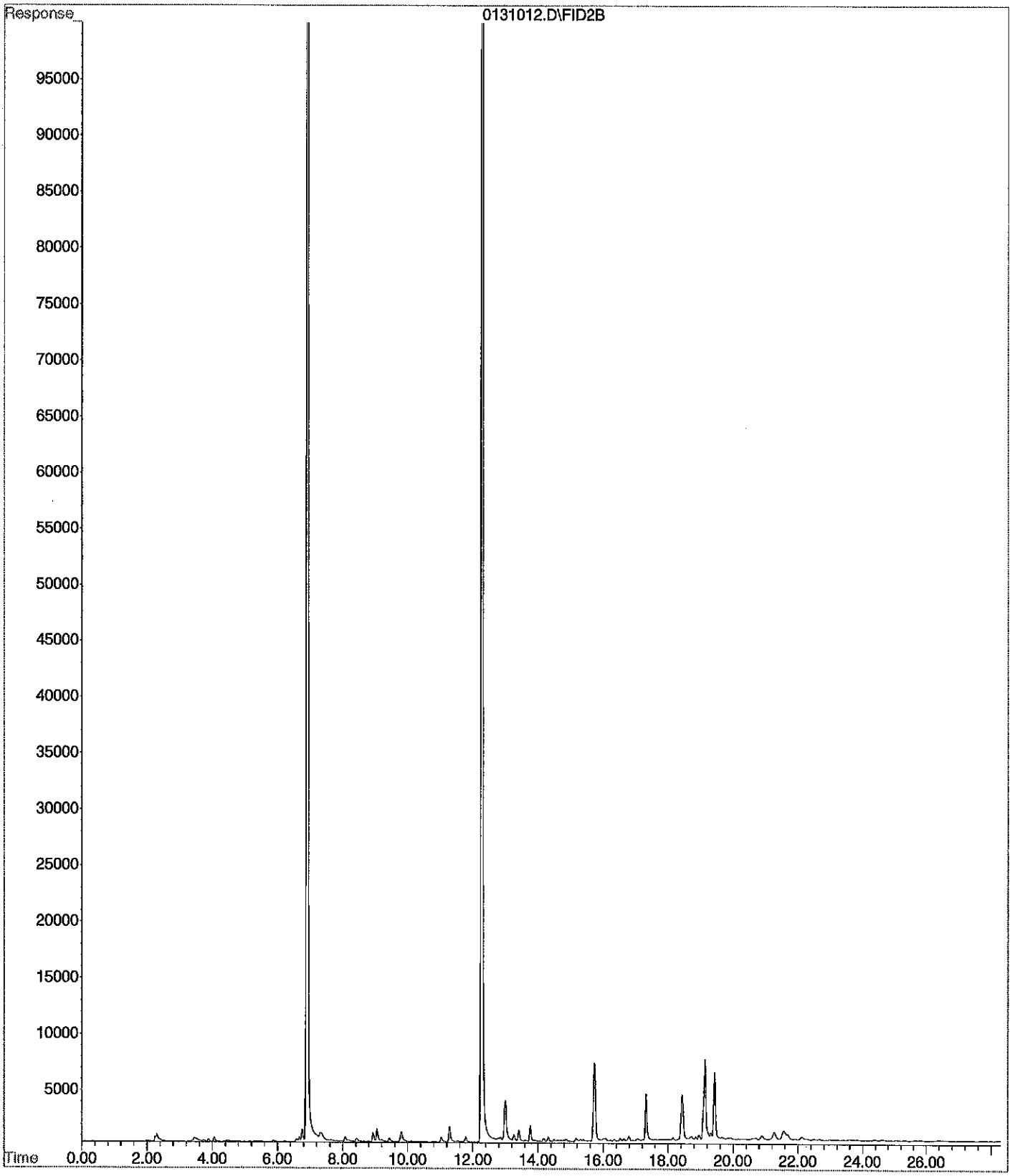
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.90	2624599	37.799	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1539694	37.892	PPB
12)	S	FLUOROBENZENE #2	6.90	6656023	29.932	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	9158702	30.477	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	667760	0.007	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2574080	0.028	PPM
3)	H	GASOLINE (9-24-14)	13.51	702975	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	3953304	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	2347960	N.D.	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	1889842	N.D.	PPM
10)		MTBE #2	4.69	568	N.D.	PPB
11)		BENZENE #2	6.67	14122	0.004	PPB
13)		TOLUENE #2	9.06	46330	N.D.	PPB
14)		ETHYLBENZENE #2	11.03	18779	N.D.	PPB
15)		m,p-XYLENE #2	11.28	57158	N.D.	PPB
16)		o-XYLENE #2	11.78	20153	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131012.D
Operator :
Acquired : 31 Jan 2015 20:54 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-01s DUP
Misc Info : V2-36-17
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D150131\0131006.D\FID2B.CH
Acq On : 31 Jan 2015 17:37 Operator:
Sample : SB0131S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 18:05 2015 Quant Results File: 141012MB.RES

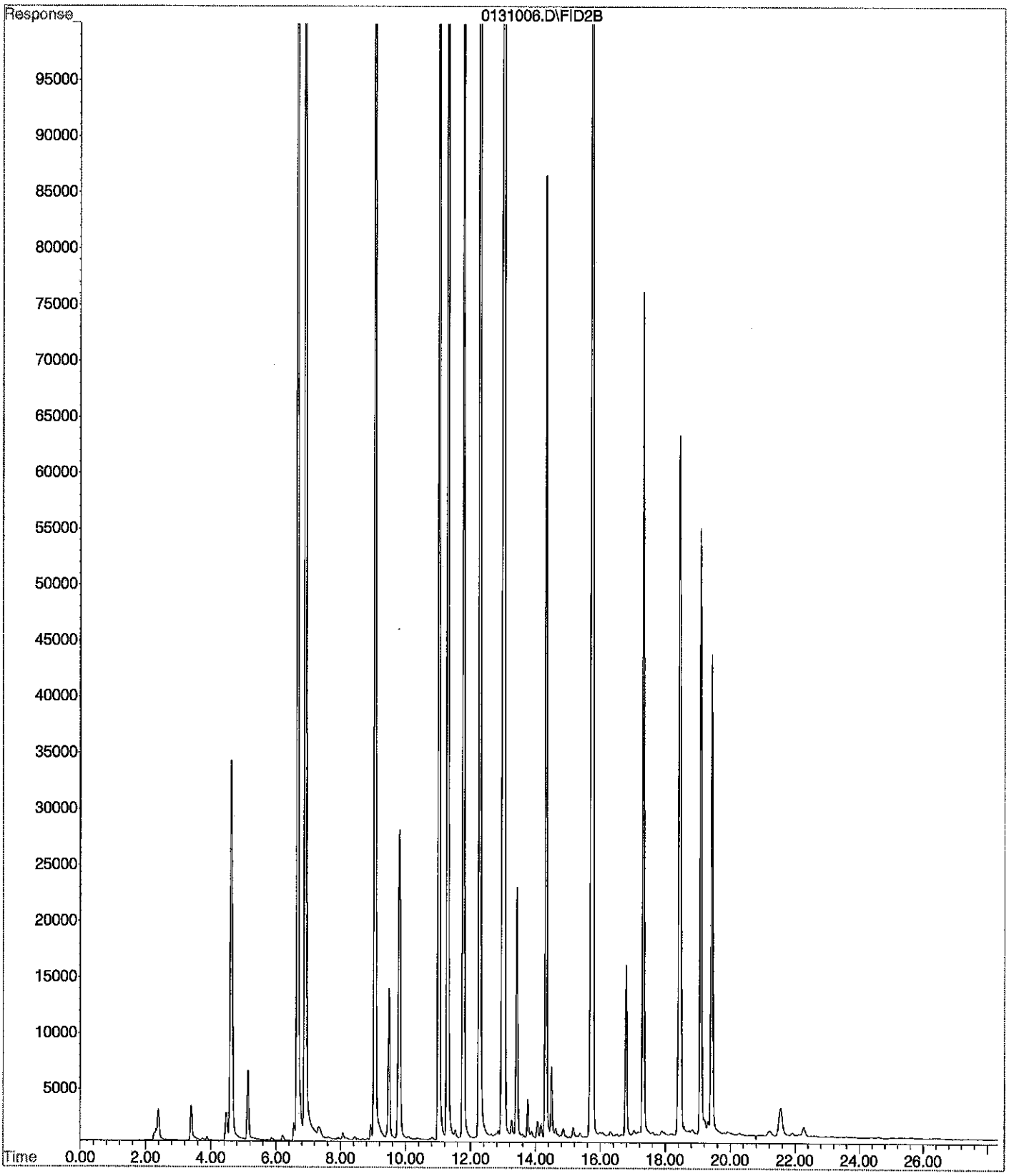
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3178051	45.840	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1508384	37.109	PPB
12)	S	FLUOROBENZENE #2	6.91	8054580	36.291	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8982939	29.883	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	13283790	0.263	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23334686	0.346	PPM
3)	H	GASOLINE (9-24-14)	13.51	14979243	0.357	PPM
7)	H	entire GAS envelope #2 (9-	12.26	62149570	0.384	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	49161353	0.563	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	45713709	0.357	PPM
10)		MTBE #2	4.62	1633749	22.326	PPB
11)		BENZENE #2	6.67	5616421	19.094	PPB
13)		TOLUENE #2	9.05	5265335	18.769	PPB
14)		ETHYLBENZENE #2	11.02	4373359	17.691	PPB
15)		m,p-XYLENE #2	11.29	5255938	17.573	PPB
16)		o-XYLENE #2	11.77	4269905	16.799	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131006.D
Operator :
Acquired : 31 Jan 2015 17:37 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: SB0131S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D150131\0131007.D\FID2B.CH
Acq On : 31 Jan 2015 18:09 Operator:
Sample : SBD0131S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 18:38 2015 Quant Results File: 141012MB.RES

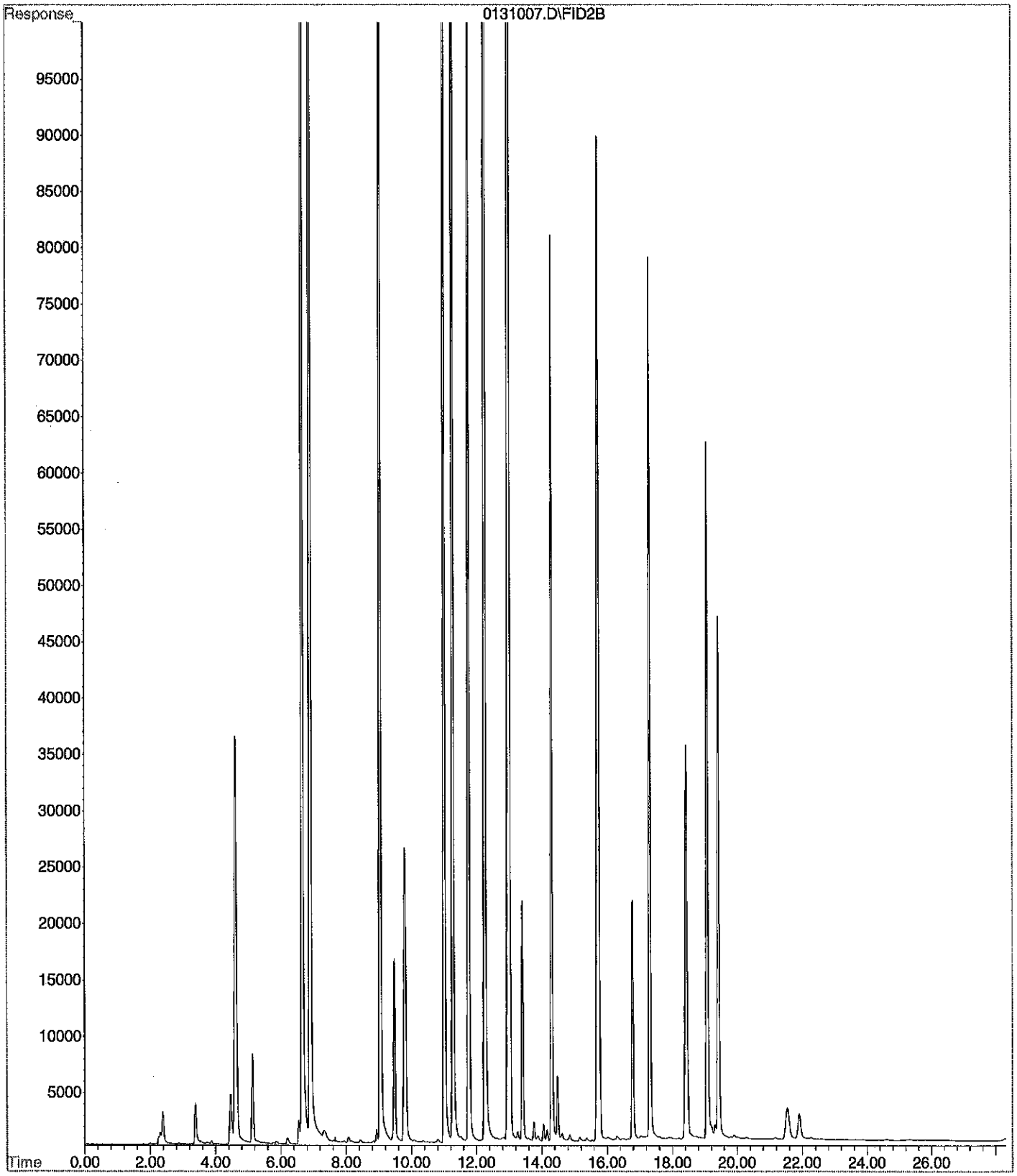
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.90	3301801	47.638 PPB
5)	S	BROMOFLUOROBENZENE	12.26	1453799	35.746 PPB
12)	S	FLUOROBENZENE #2	6.90	8484338	38.245 PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	8701576	28.932 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	13527193	0.268 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	22779660	0.338 PPM
3)	H	GASOLINE (9-24-14)	13.51	14460725	0.344 PPM
7)	H	entire GAS envelope #2 (9-	12.26	57437540	0.351 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	43689518	0.496 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	41715836	0.321 PPM
10)		MTBE #2	4.62	1729562	23.638 PPB
11)		BENZENE #2	6.66	5938280	20.191 PPB
13)		TOLUENE #2	9.05	5533806	19.735 PPB
14)		ETHYLBENZENE #2	11.01	4579390	18.530 PPB
15)		m,p-XYLENE #2	11.28	5445150	18.225 PPB
16)		o-XYLENE #2	11.76	4374232	17.216 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131007.D
Operator :
Acquired : 31 Jan 2015 18:09 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: SBD0131S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 7



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150131\0131002.D\FID2B.CH
Acq On : 31 Jan 2015 15:23 Operator:
Sample : CCVD0131G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 15:52 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

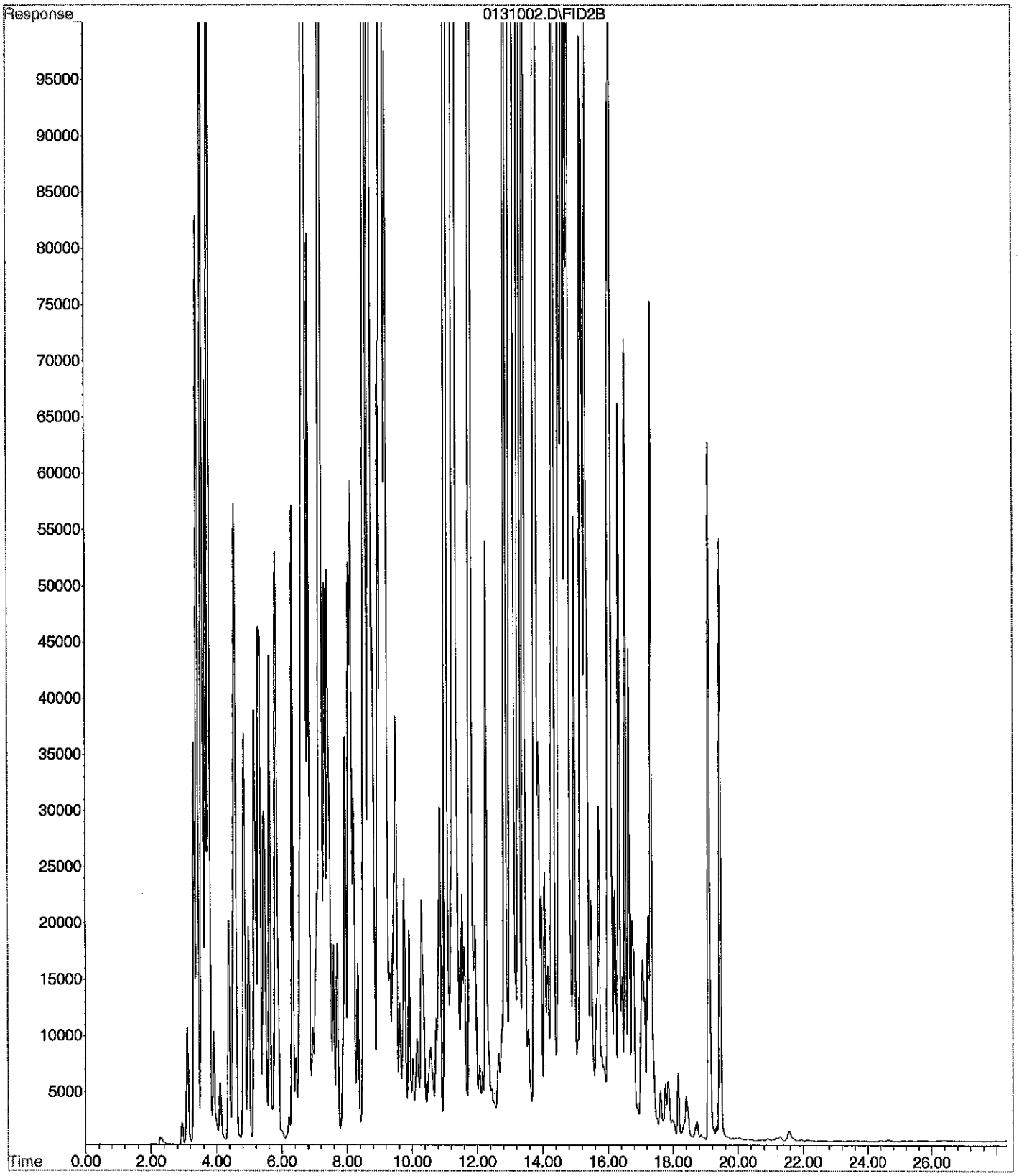
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1531426	37.685	PPB
12)	S	FLUOROBENZENE #2	6.96	450508	1.718	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	2405519	7.664	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	276445751	5.609	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	364250155	5.568	PPM
3)	H	GASOLINE (9-24-14)	13.51	215207042	5.423	PPM
7)	H	entire GAS envelope #2 (9-	12.26	641424687	4.419	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	492320489	5.956	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	493788955	4.442	PPM
10)		MTBE #2	4.57	3110213	42.545	PPB
11)		BENZENE #2	6.69	43910229	149.582	PPB
13)		TOLUENE #2	9.08	112877938	405.998	PPB
14)		ETHYLBENZENE #2	11.04	28059060	114.143	PPB
15)		m,p-XYLENE #2	11.29	101389131	348.994	PPB
16)		o-XYLENE #2	11.79	38956845	155.432	PPB

1/31

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131002.D
Operator :
Acquired : 31 Jan 2015 15:23 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131G-1
Misc Info : V2-36-08
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131034.D\FID1A.CH Vial: 34
Signal #2 : d:\btex\DATA\D150131\0131034.D\FID2B.CH
Acq On : 1 Feb 2015 9:05 Operator:
Sample : CCVD0131G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

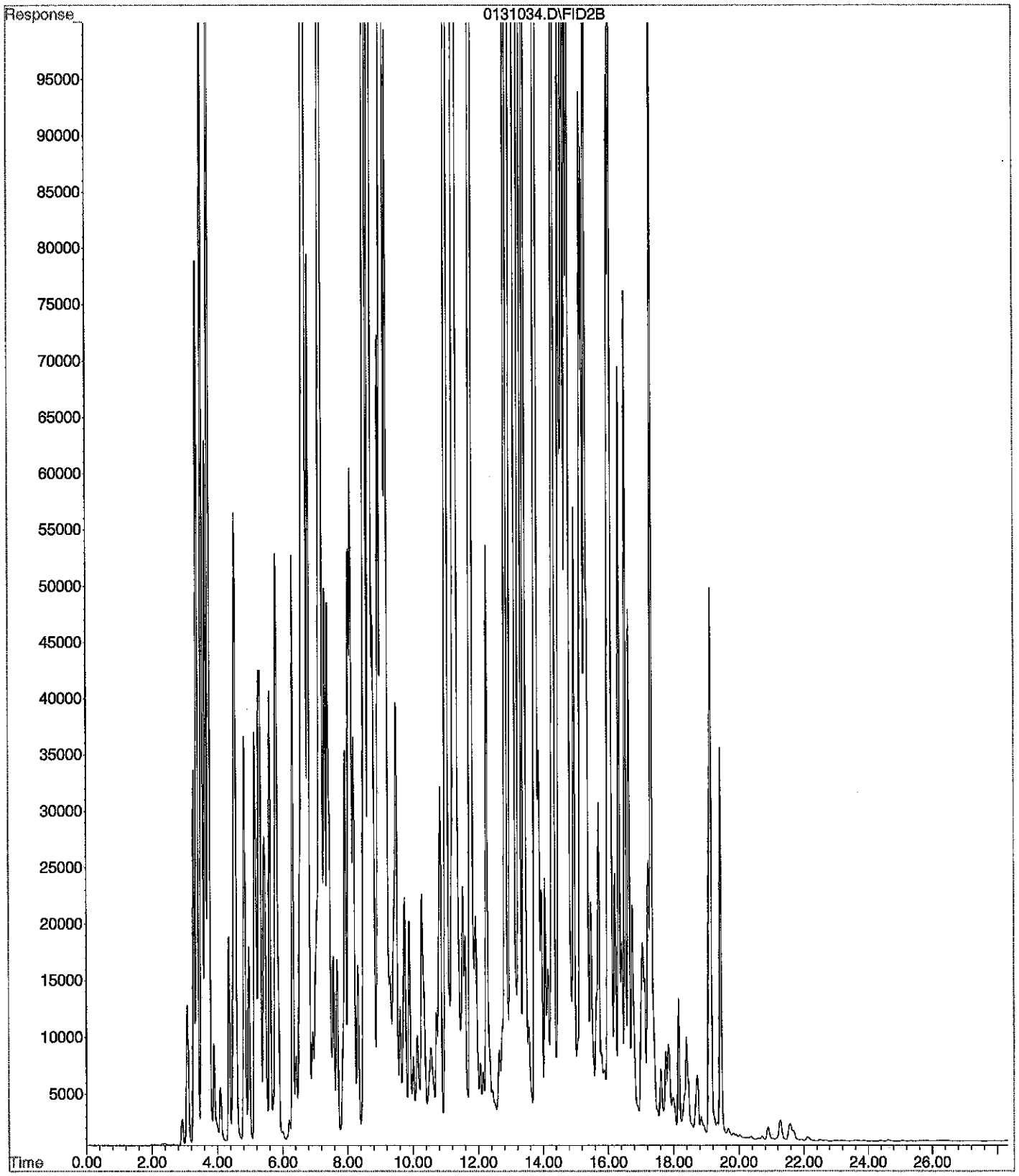
Quant Time: Feb 1 9:34 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1330602	32.668	PPB
12)	S	FLUOROBENZENE #2	6.94	431378	1.631	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	2413204	7.690	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	278224914	5.645	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	364921536	5.578	PPM
3)	H	GASOLINE (9-24-14)	13.51	213460100	5.378	PPM
7)	H	entire GAS envelope #2 (9-	12.26	641076408	4.416	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	491594805	5.947	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	491831374	4.424	PPM
10)		MTBE #2	4.55	3056143	41.805	PPB
11)		BENZENE #2	6.68	42655368	145.306	PPB
13)		TOLUENE #2	9.07	112108367	403.229	PPB
14)		ETHYLBENZENE #2	11.03	27388922	111.414	PPB
15)		m,p-XYLENE #2	11.29	100814660	347.014	PPB
16)		o-XYLENE #2	11.78	38435058	153.347	PPB

File : X:\BTEX\DARYL\DATA\D150131\0131034.D
Operator :
Acquired : 1 Feb 2015 9:05 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131G-2
Misc Info : V2-36-08
Vial Number: 34



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D150131\0131003.D\FID2B.CH
Acq On : 31 Jan 2015 15:57 Operator:
Sample : CCVD0131B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 16:25 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

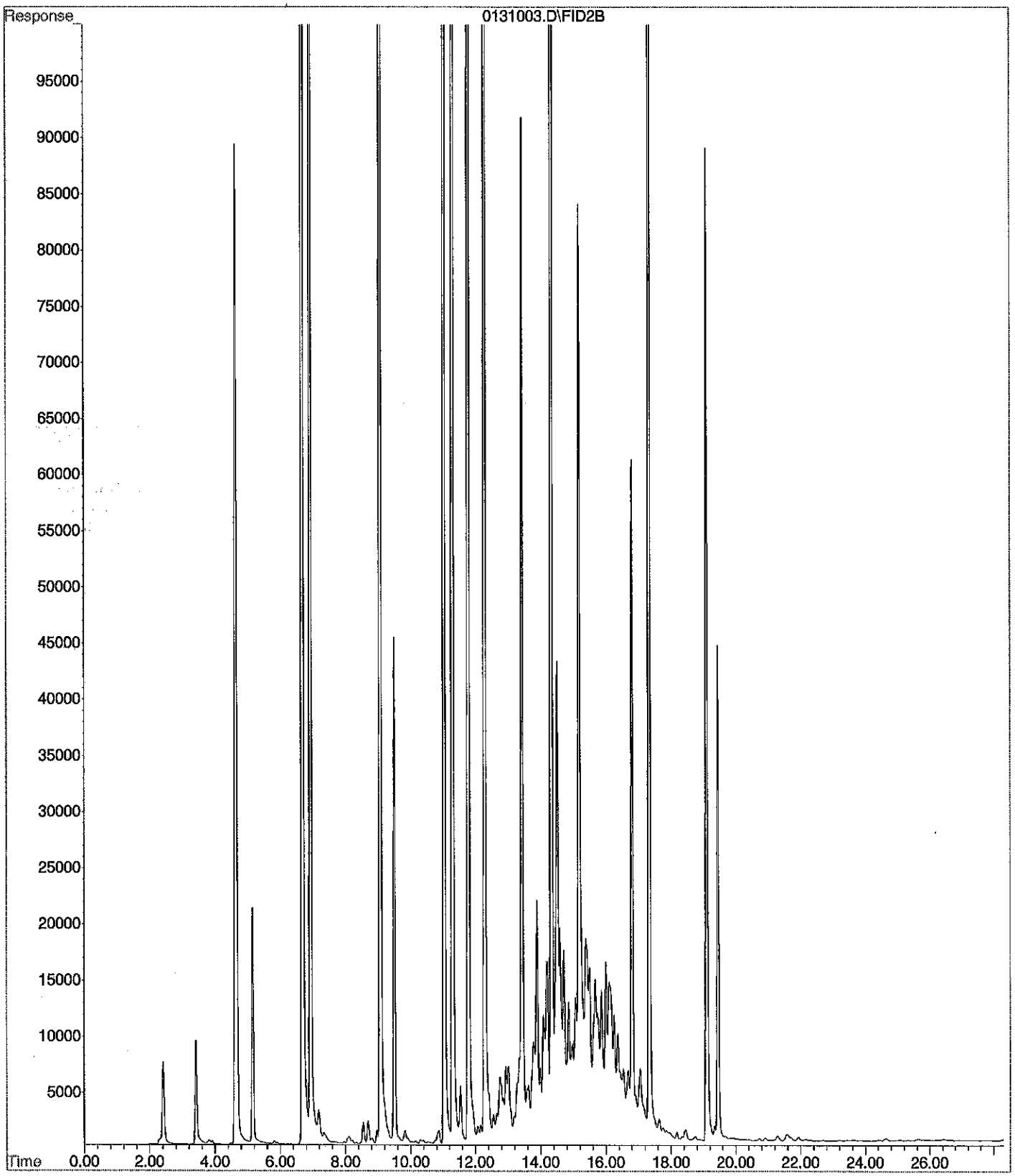
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3237926	46.710	PPB
5)	S	BROMOFLUOROBENZENE	12.29	2117306	52.322	PPB
12)	S	FLUOROBENZENE #2	6.93	8324333	37.517	PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11910761	39.773	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	34740167	0.699	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	73163865	1.109	PPM
3)	H	GASOLINE (9-24-14)	13.51	56327136	1.403	PPM
7)	H	entire GAS envelope #2 (9-	12.26	135174830	0.893	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	108263504	1.282	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	107795665	0.923	PPM
10)		MTBE #2	4.65	4156412	56.873	PPB
11)		BENZENE #2	6.69	15150573	51.582	PPB
13)		TOLUENE #2	9.07	14307663	51.307	PPB
14)		ETHYLBENZENE #2	11.04	12505951	50.808	PPB
15)		m,p-XYLENE #2	11.30	15204998	51.872	PPB
16)		o-XYLENE #2	11.79	12671168	50.376	PPB

1/31

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131003.D
Operator :
Acquired : 31 Jan 2015 15:57 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 3



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131020.D\FID1A.CH Vial: 20
Signal #2 : d:\btex\DATA\D150131\0131020.D\FID2B.CH
Acq On : 1 Feb 2015 1:20 Operator:
Sample : CCVD0131B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 1 1:48 2015 Quant Results File: 141012MB.RES

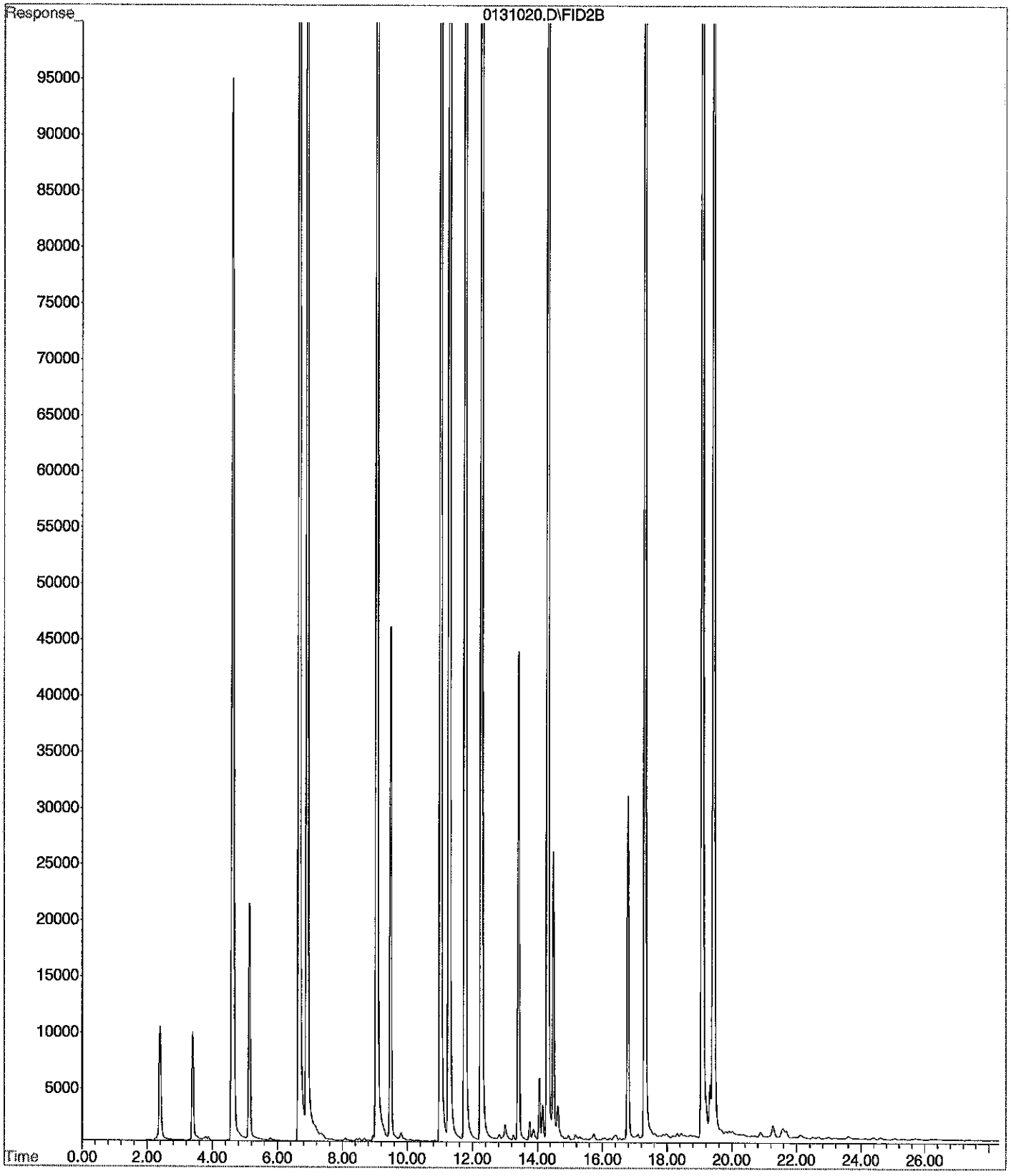
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3091271	44.579 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1867833	46.089 PPB
12)	S	FLUOROBENZENE #2	6.91	8230449	37.090 PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	11298072	37.703 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30399083	0.611 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50902413	0.768 PPM
3)	H	GASOLINE (9-24-14)	13.51	32966881	0.812 PPM
7)	H	entire GAS envelope #2 (9-	12.26	116328065	0.761 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	79202114	0.928 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	78860809	0.660 PPM
10)		MTBE #2	4.62	4379383	59.926 PPB
11)		BENZENE #2	6.67	14497653	49.357 PPB
13)		TOLUENE #2	9.05	13507549	48.428 PPB
14)		ETHYLBENZENE #2	11.02	11797077	47.922 PPB
15)		m,p-XYLENE #2	11.29	14085068	48.011 PPB
16)		o-XYLENE #2	11.77	11895741	47.277 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131020.D
Operator :
Acquired : 1 Feb 2015 1:20 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 20



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130006.D Vial: 6
Acq On : 30 Jan 2015 13:23 Operator:
Sample : 01-217-05 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 12:16 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Mon Feb 02 12:15:35 2015
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.12	2698556	35.504 PPB
11)	S	BROMOFLUOROBENZENE #2	14.72	2916893	36.355 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.38	1270410	N.D. PPM
3)	H	GASOLINE #2	15.03	268592	N.D. PPM
4)		MTBE #2	6.70	246	0.011 PPB
5)		BENZENE #2	8.90	7106	0.058 PPB
7)		TOLUENE #2	11.39	30595	0.320 PPB
8)		ETHYLBENZENE #2	13.45	10684	0.140 PPB
9)		m,p-XYLENE #2	13.68	37651	0.369 PPB
10)		o-XYLENE #2	14.21	13458	0.149 PPB

Quantitation Report (Not Reviewed)

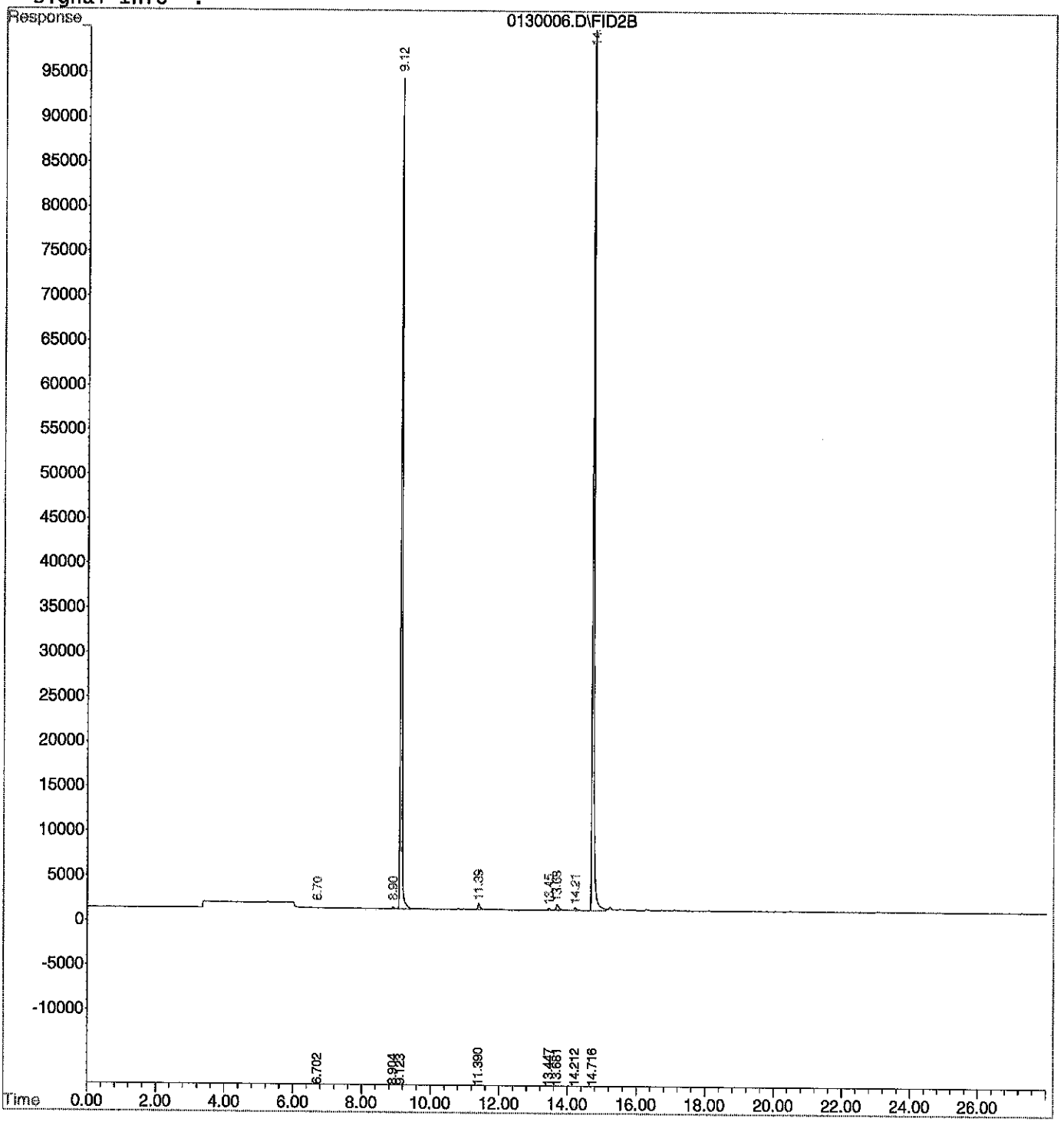
Data File : X:\BTEX\HOPE\DATA\H150130\0130006.D Vial: 6
Acq On : 30 Jan 2015 13:23 Operator:
Sample : 01-217-05 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 12:16 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Mon Feb 02 12:15:35 2015
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130005.D Vial: 5
Acq On : 30 Jan 2015 12:49 Operator:
Sample : MB0130W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 12:15 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.12	2697434	35.489 PPB
11)	S	BROMOFLUOROBENZENE #2	14.71	2903189	36.182 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.38	1312087	N.D. PPM
3)	H	GASOLINE #2	15.03	302150	N.D. PPM
4)		MTBE #2	6.70	81	0.007 PPB
5)		BENZENE #2	8.90	7863	0.065 PPB
7)		TOLUENE #2	11.39	38846	0.414 PPB
8)		ETHYLBENZENE #2	13.44	13558	0.181 PPB
9)		m,p-XYLENE #2	13.68	43327	0.440 PPB
10)		o-XYLENE #2	14.21	16662	0.197 PPB

Quantitation Report (Not Reviewed)

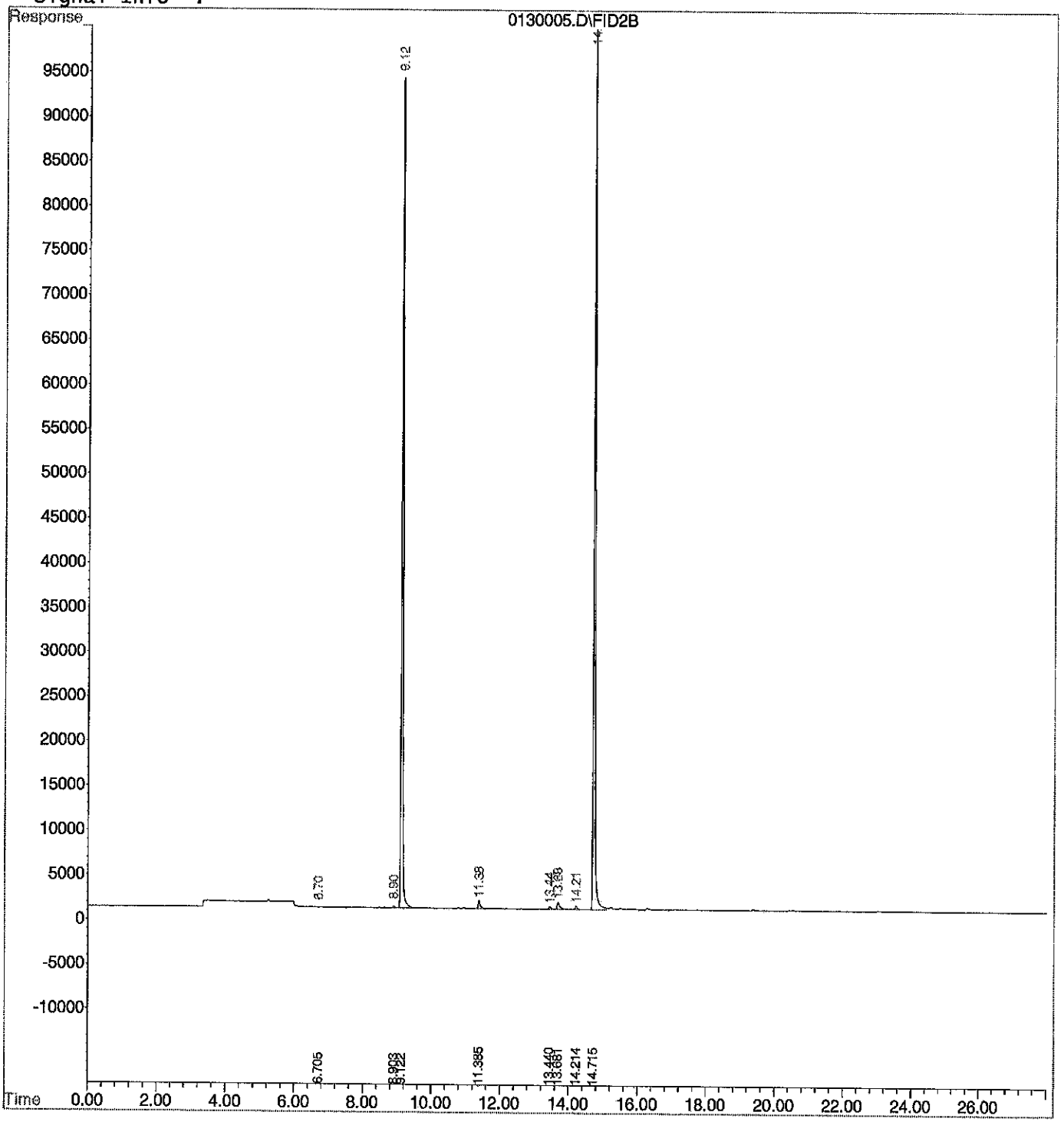
Data File : X:\BTEX\HOPE\DATA\H150130\0130005.D Vial: 5
Acq On : 30 Jan 2015 12:49 Operator:
Sample : MB0130W1 Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 12:15 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130011.D Vial: 11
Acq On : 30 Jan 2015 16:29 Operator:
Sample : 01-228-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 30 16:57 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.10	2677292	35.223 PPB
11)	S	BROMOFLUOROBENZENE #2	14.68	2949912	36.771 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	2515588	0.022 PPM
3)	H	GASOLINE #2	14.96	1169301	0.015 PPM
4)		MTBE #2	6.66	2275	0.057 PPB
5)		BENZENE #2	8.88	5922	0.047 PPB
7)		TOLUENE #2	11.36	53513	0.581 PPB
8)		ETHYLBENZENE #2	13.42	11635	0.154 PPB
9)		m,p-XYLENE #2	13.65	46974	0.485 PPB
10)		o-XYLENE #2	14.18	15261	0.176 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

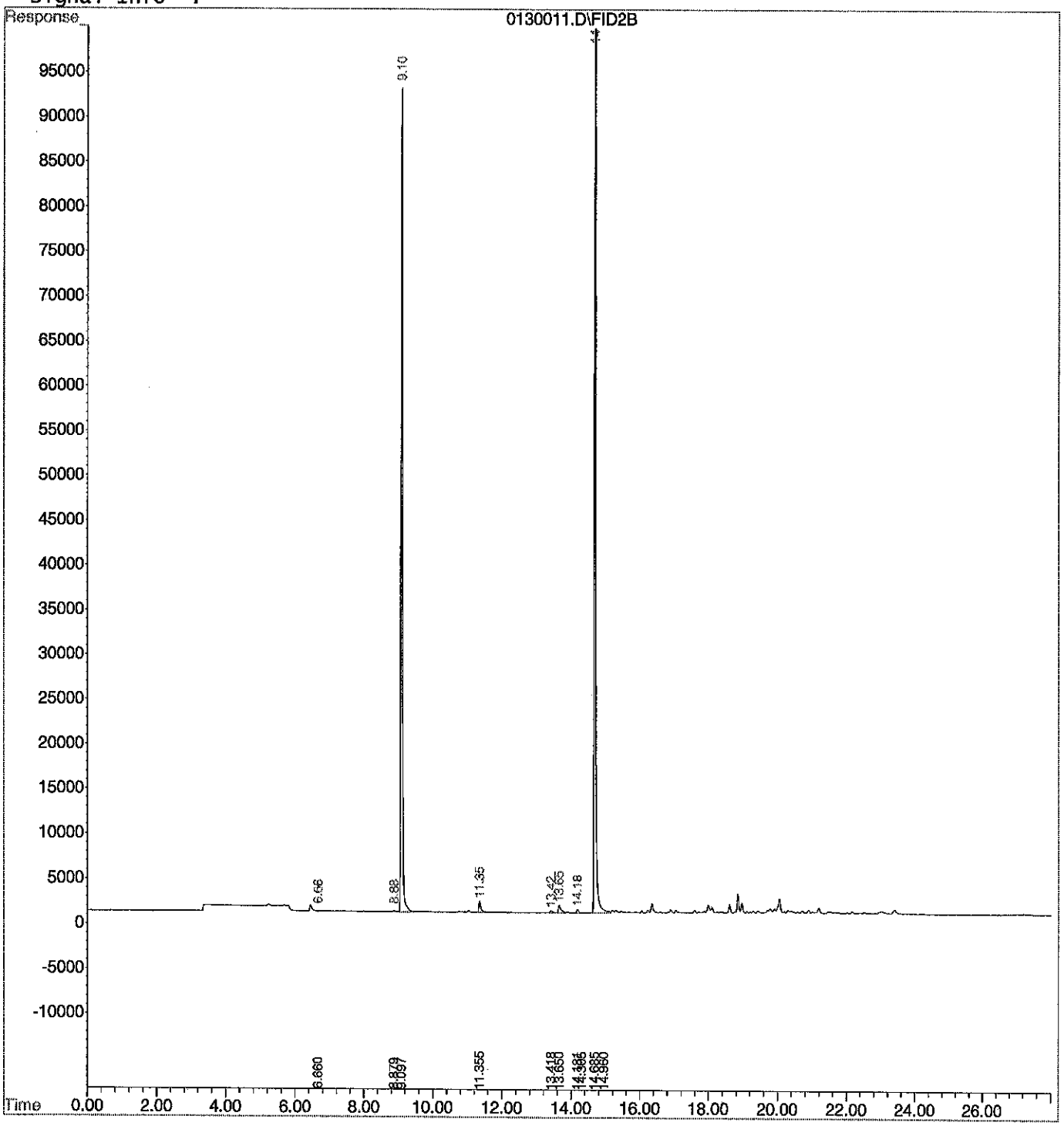
Data File : X:\BTEX\HOPE\DATA\H150130\0130011.D Vial: 11
Acq On : 30 Jan 2015 16:29 Operator:
Sample : 01-228-01c Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 30 16:57 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130014.D Vial: 14
Acq On : 30 Jan 2015 18:09 Operator:
Sample : 01-228-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 30 18:37 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.10	2747258	36.149	PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	2936867	36.607	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	2411412	0.019	PPM
3)	H	GASOLINE #2	14.96	1065090	0.011	PPM
4)		MTBE #2	6.65	1207	0.033	PPB
5)		BENZENE #2	8.89	5177	0.040	PPB
7)		TOLUENE #2	11.37	29049	0.302	PPB
8)		ETHYLBENZENE #2	13.37	349	N.D.	PPB
9)		m,p-XYLENE #2	13.67	30849	0.285	PPB
10)		o-XYLENE #2	14.19	11332	0.118	PPB

Quantitation Report (Not Reviewed)

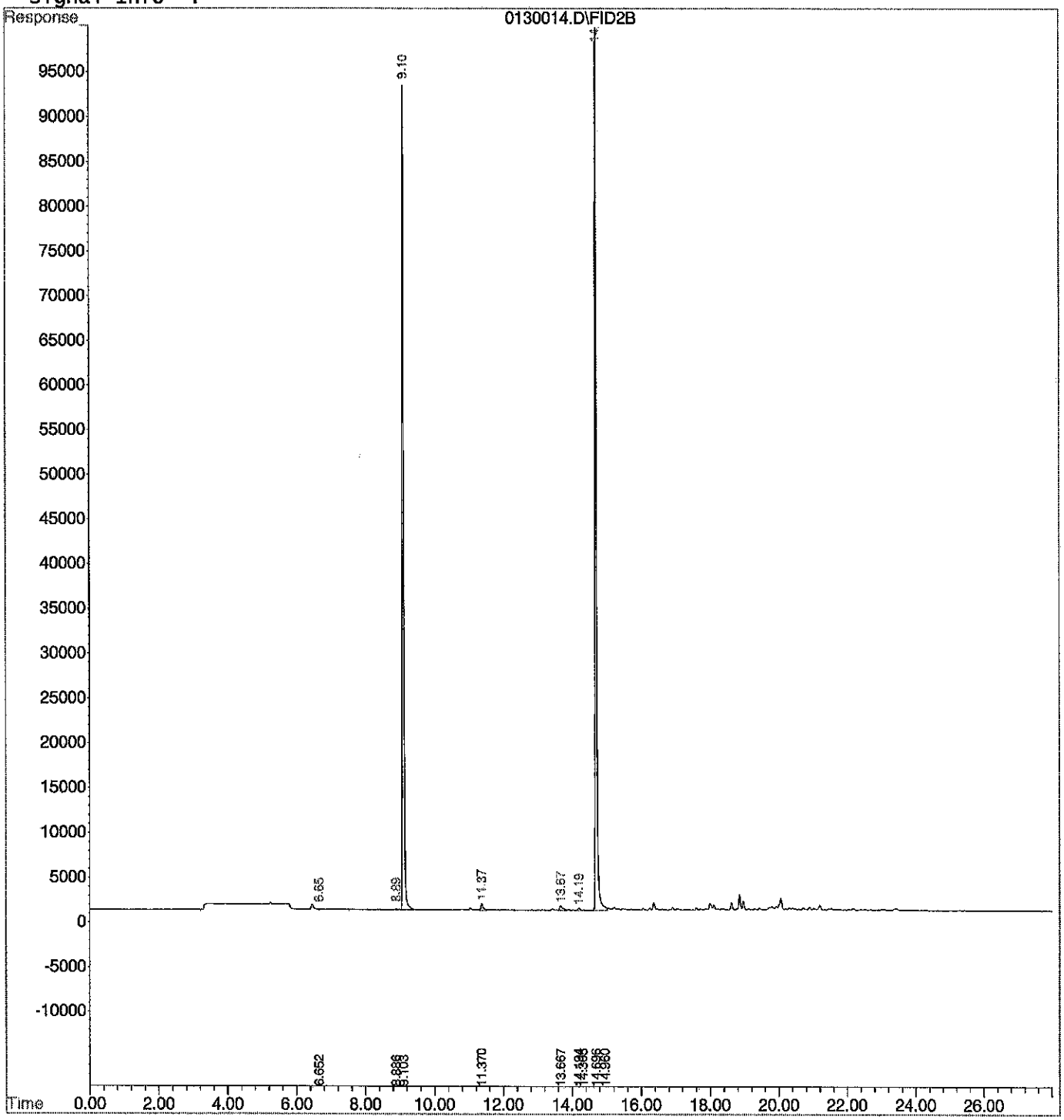
Data File : X:\BTEX\HOPE\DATA\H150130\0130014.D Vial: 14
Acq On : 30 Jan 2015 18:09 Operator:
Sample : 01-228-01c DUP Inst : HOPE
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 30 18:37 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130020.D Vial: 20
Acq On : 30 Jan 2015 21:27 Operator:
Sample : SB0130W1 Inst : HOPE
Misc : V2-36-17,V2-27-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 30 21:55 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.06	2654253	34.918 PPB
11)	S	BROMOFLUOROBENZENE #2	14.66	2891409	36.034 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	32144739	0.890 PPM
3)	H	GASOLINE #2	14.96	20662480	0.745 PPM
4)		MTBE #2	6.61	1672993	37.966 PPB
5)		BENZENE #2	8.83	4953543	46.779 PPB
7)		TOLUENE #2	11.30	4043007	46.088 PPB
8)		ETHYLBENZENE #2	13.33	3267048	46.507 PPB
9)		m,p-XYLENE #2	13.60	3749883	46.588 PPB
10)		o-XYLENE #2	14.12	3147335	46.758 PPB

Quantitation Report (Not Reviewed)

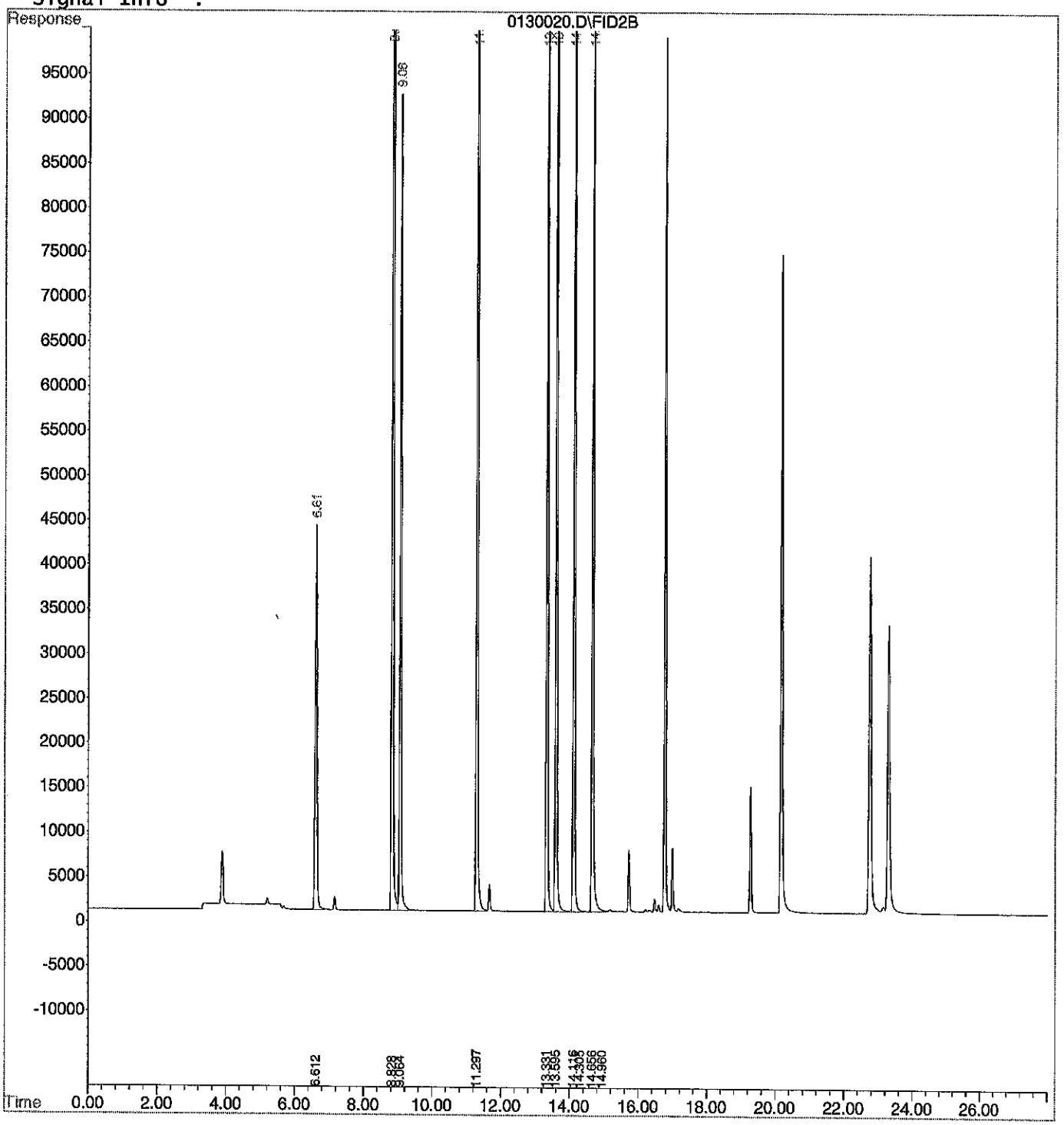
Data File : X:\BTEX\HOPE\DATA\H150130\0130020.D Vial: 20
Acq On : 30 Jan 2015 21:27 Operator:
Sample : SB0130W1 Inst : HOPE
Misc : V2-36-17,V2-27-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 30 21:55 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130038.D Vial: 38
Acq On : 31 Jan 2015 7:19 Operator:
Sample : SBD0130W1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 31 7:47 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.07	2704333	35.581	PPB
11)	S	BROMOFLUOROBENZENE #2	14.65	2951125	36.786	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	32444709	0.899	PPM
3)	H	GASOLINE #2	14.96	20761541	0.749	PPM
4)		MTBE #2	6.62	1922715	43.633	PPB
5)		BENZENE #2	8.84	4997103	47.190	PPB
7)		TOLUENE #2	11.30	4123881	47.011	PPB
8)		ETHYLBENZENE #2	13.33	3311947	47.146	PPB
9)		m,p-XYLENE #2	13.59	3804115	47.263	PPB
10)		o-XYLENE #2	14.11	3184368	47.308	PPB

Quantitation Report (Not Reviewed)

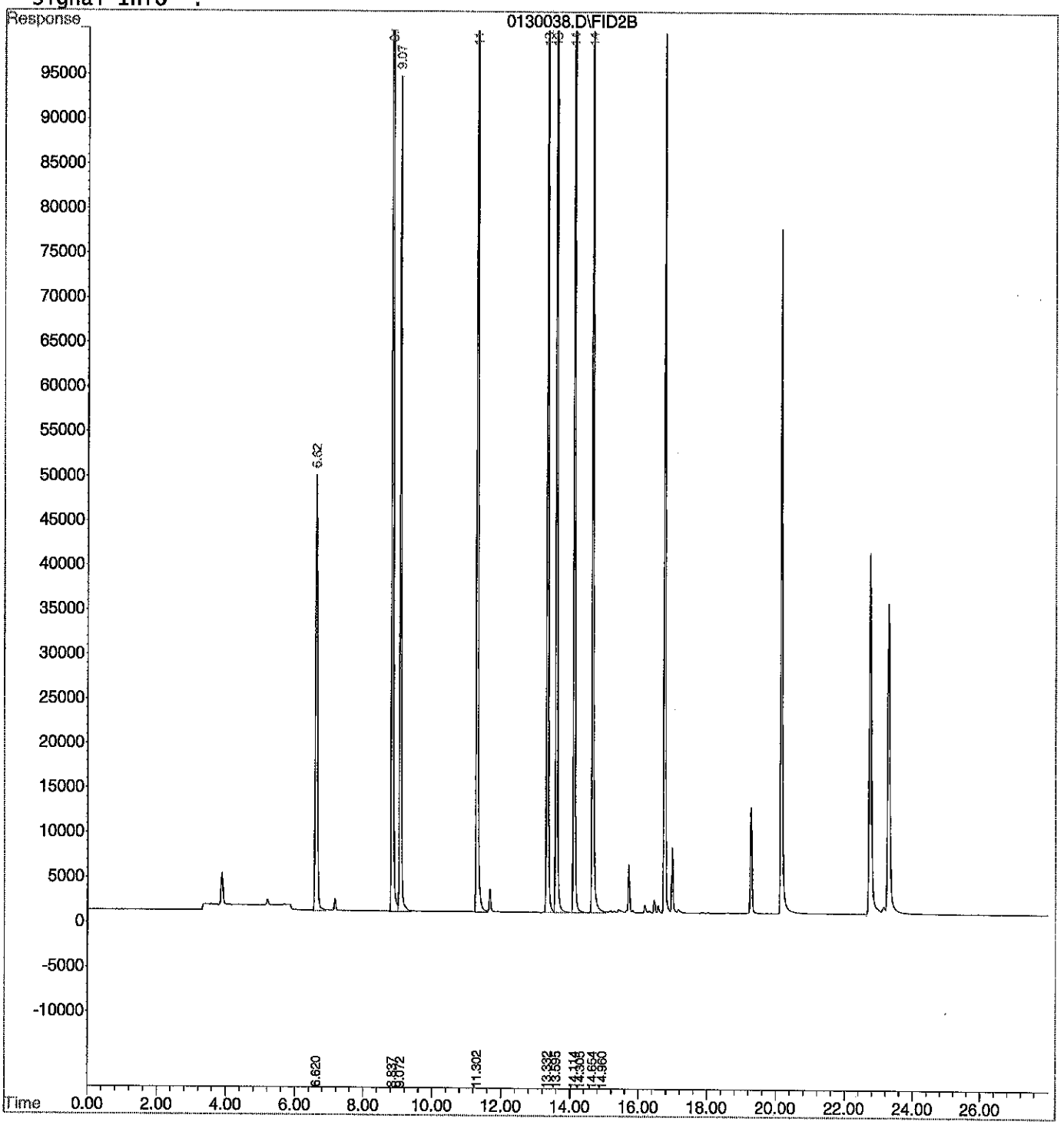
Data File : X:\BTEX\HOPE\DATA\H150130\0130038.D Vial: 38
Acq On : 31 Jan 2015 7:19 Operator:
Sample : SBD0130W1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 31 7:47 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130001.D Vial: 1
Acq On : 30 Jan 2015 10:34 Operator:
Sample : CCVH0130G-1 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 30 11:02 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.12	3844902	50.676	PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	4608287	57.660	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	168695041	4.891	PPM
3)	H	GASOLINE #2	14.96	129401395	4.815	PPM
4)		MTBE #2	6.59	469914	10.668	PPB
5)		BENZENE #2	8.89	12363786	116.771	PPB
7)		TOLUENE #2	11.36	35810028	408.447	PPB
8)		ETHYLBENZENE #2	13.38	7157317	101.899	PPB
9)		m,p-XYLENE #2	13.63	27036862	336.521	PPB
10)		o-XYLENE #2	14.16	9985119	148.453	PPB

Quantitation Report (Not Reviewed)

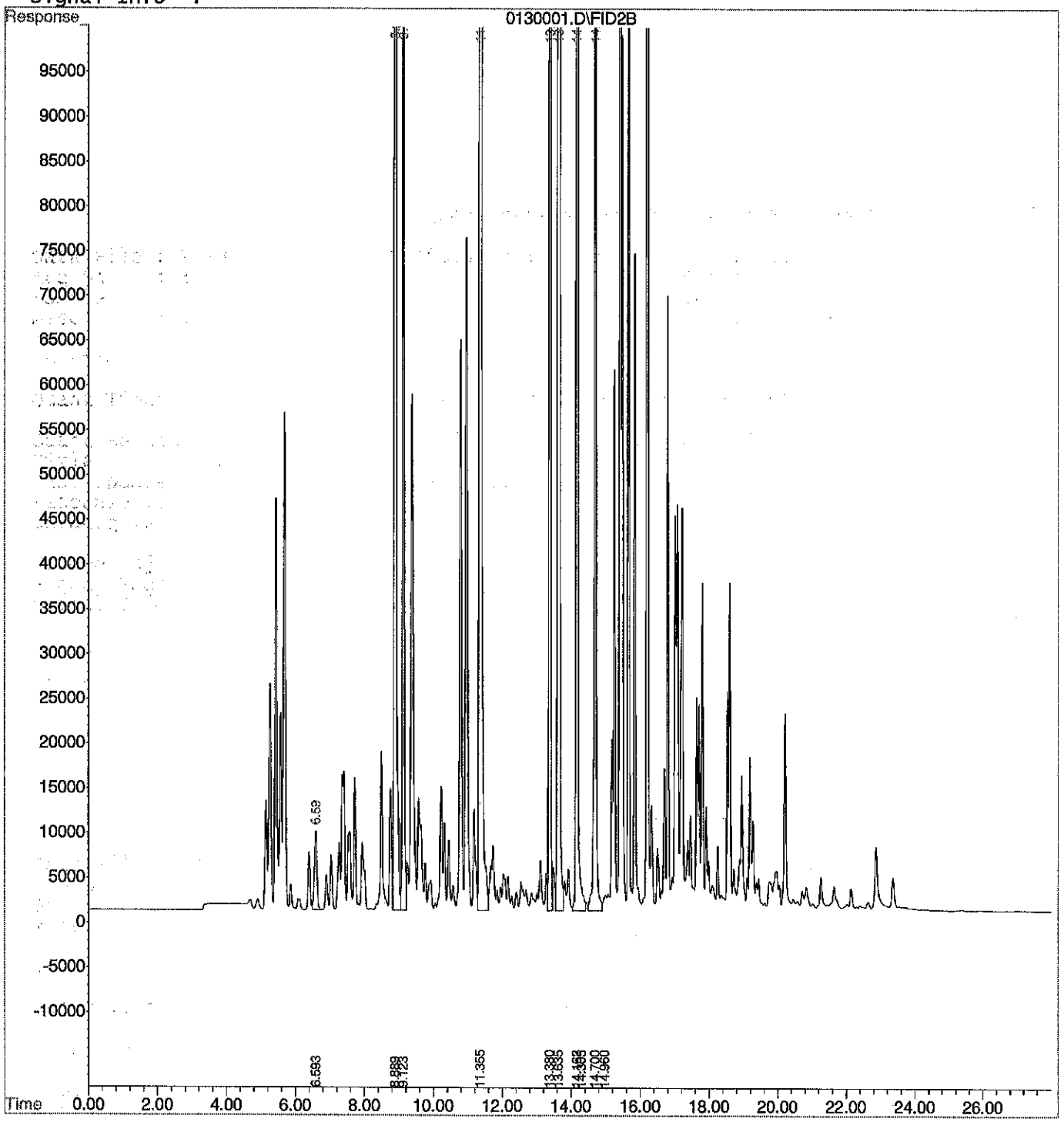
Data File : X:\BTEX\HOPE\DATA\H150130\0130001.D Vial: 1
Acq On : 30 Jan 2015 10:34 Operator:
Sample : CCVH0130G-1 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 30 11:02 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130040.D Vial: 40
Acq On : 31 Jan 2015 8:24 Operator:
Sample : CCVH0130G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 13:11 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Mon Feb 02 12:15:35 2015
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
6)	S	FLUOROBENZENE #2	9.07	2752367	36.216	PPB
11)	S	BROMOFLUOROBENZENE #2	14.66	3461330	43.213	PPB
		Target Compounds				
2)	H	Entire GAS Envelope #2	14.31	153813435	4.455	PPM
3)	H	GASOLINE #2	14.96	121482406	4.519	PPM
4)		MTBE #2	0.00	0	N.D.	PPB
5)		BENZENE #2	8.83	11994444	113.282	PPB
7)		TOLUENE #2	11.31	34040694	388.265	PPB
8)		ETHYLBENZENE #2	13.34	6763355	96.290	PPB
9)		m,p-XYLENE #2	13.59	25618304	318.859	PPB
10)		o-XYLENE #2	14.12	9494315	141.153	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

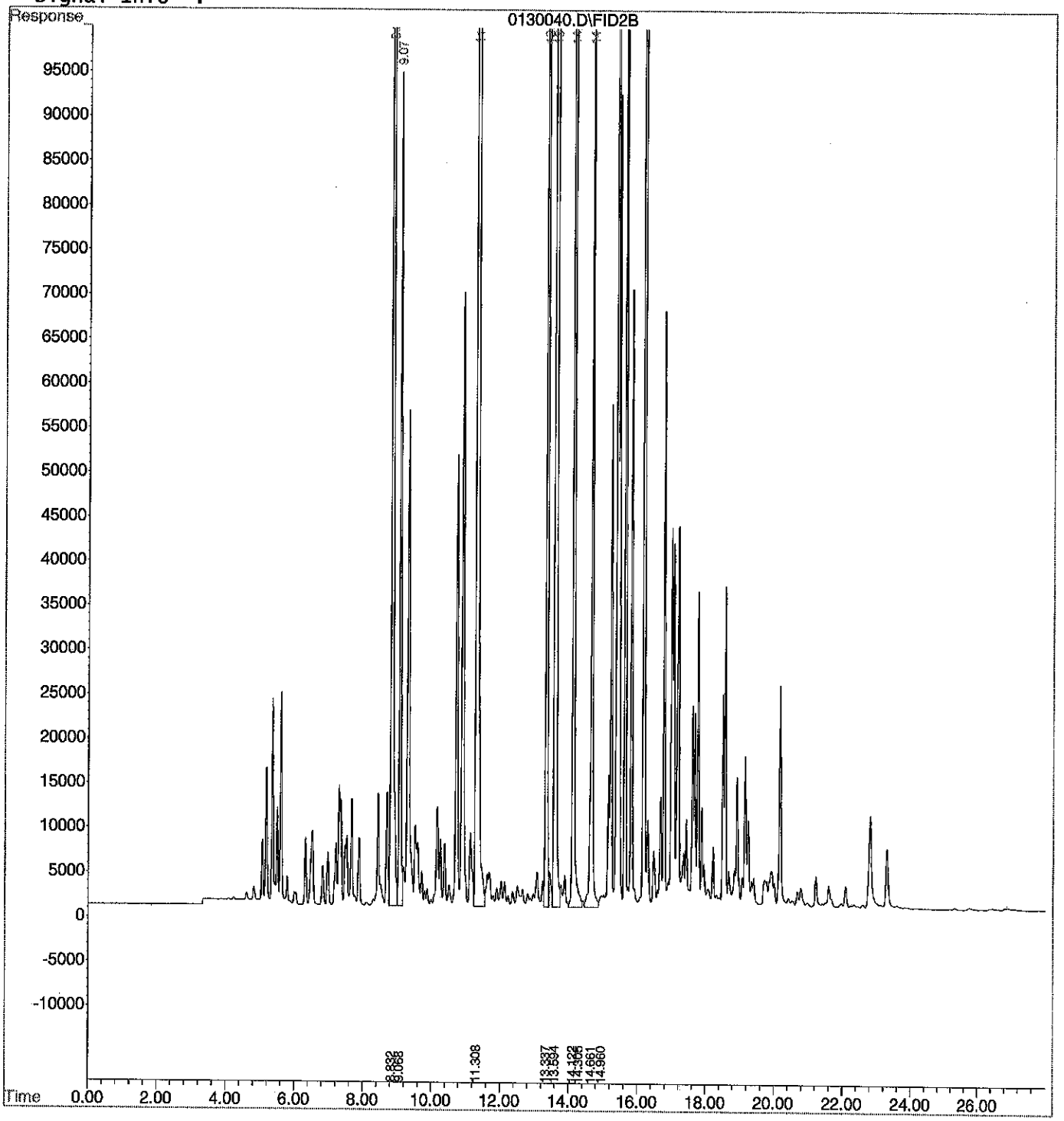
Data File : X:\BTEX\HOPE\DATA\H150130\0130040.D Vial: 40
Acq On : 31 Jan 2015 8:24 Operator:
Sample : CCVH0130G-2 Inst : HOPE
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 13:11 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Mon Feb 02 12:15:35 2015
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130002.D Vial: 2
Acq On : 30 Jan 2015 11:08 Operator:
Sample : CCVH0130B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 30 11:36 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.11	2836259	37.327 PPB
11)	S	BROMOFLUOROBENZENE #2	14.70	3052540	38.064 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	34362434	0.955 PPM
3)	H	GASOLINE #2	14.96	22455618	0.812 PPM
4)		MTBE #2	6.67	1480457	33.598 PPB
5)		BENZENE #2	8.88	5093858	48.104 PPB
7)		TOLUENE #2	11.34	4460370	50.849 PPB
8)		ETHYLBENZENE #2	13.37	3416603	48.636 PPB
9)		m,p-XYLENE #2	13.64	3992874	49.614 PPB
10)		o-XYLENE #2	14.16	3247179	48.243 PPB

Quantitation Report (Not Reviewed)

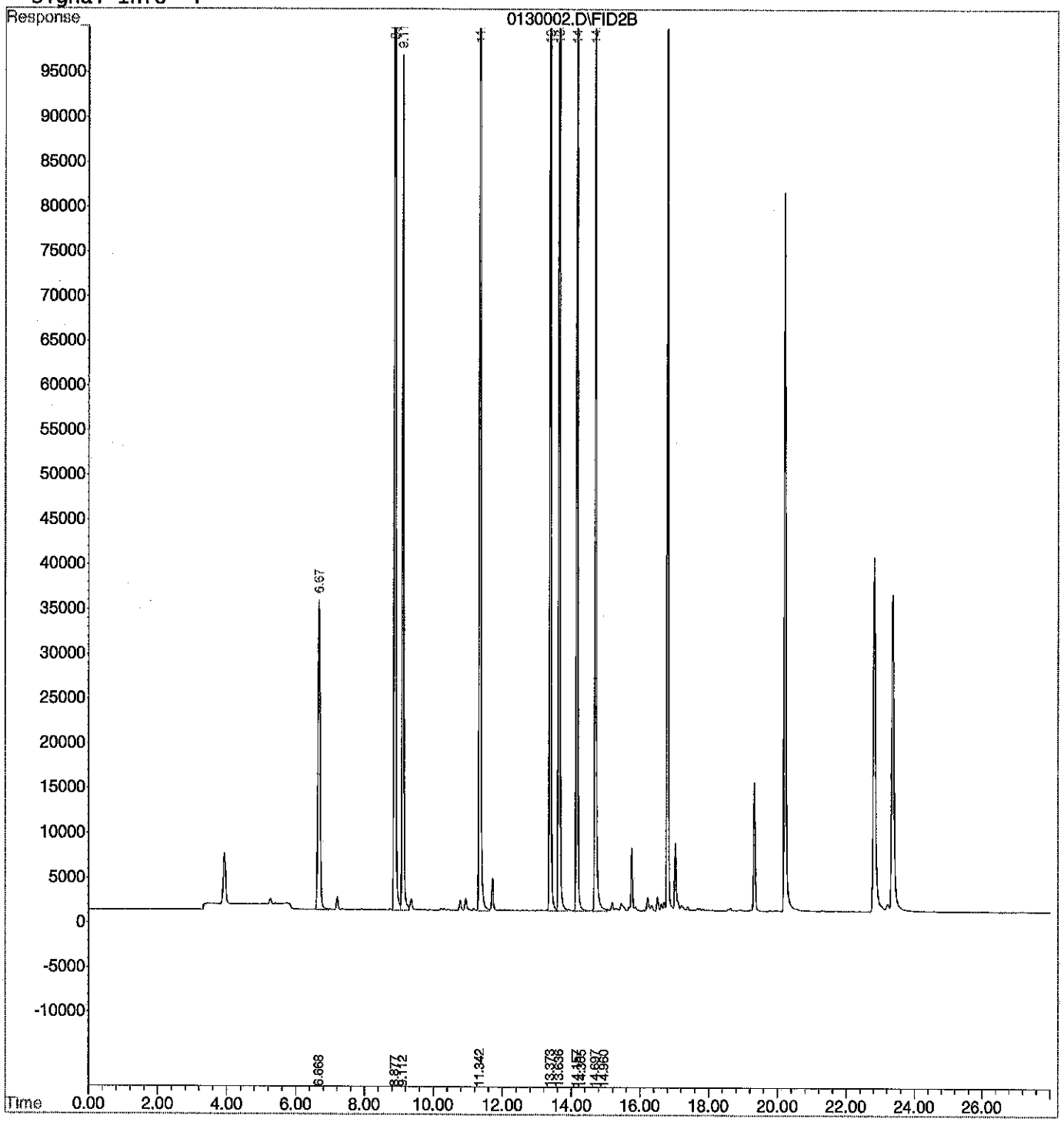
Data File : X:\BTEX\HOPE\DATA\H150130\0130002.D Vial: 2
Acq On : 30 Jan 2015 11:08 Operator:
Sample : CCVH0130B-1 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Jan 30 11:36 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130021.D Vial: 21
Acq On : 30 Jan 2015 22:00 Operator:
Sample : CCVH0130B-2 Inst : HOPE
Misc : V2-36-17,V2-27-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 30 22:28 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.08	2693800	35.441 PPB
11)	S	BROMOFLUOROBENZENE #2	14.67	2933834	36.568 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	32572707	0.903 PPM
3)	H	GASOLINE #2	14.96	20875132	0.753 PPM
4)		MTBE #2	6.62	1719699	39.026 PPB
5)		BENZENE #2	8.84	4942819	46.677 PPB
7)		TOLUENE #2	11.31	4087873	46.600 PPB
8)		ETHYLBENZENE #2	13.34	3280298	46.696 PPB
9)		m,p-XYLENE #2	13.61	3765377	46.781 PPB
10)		o-XYLENE #2	14.13	3155494	46.879 PPB

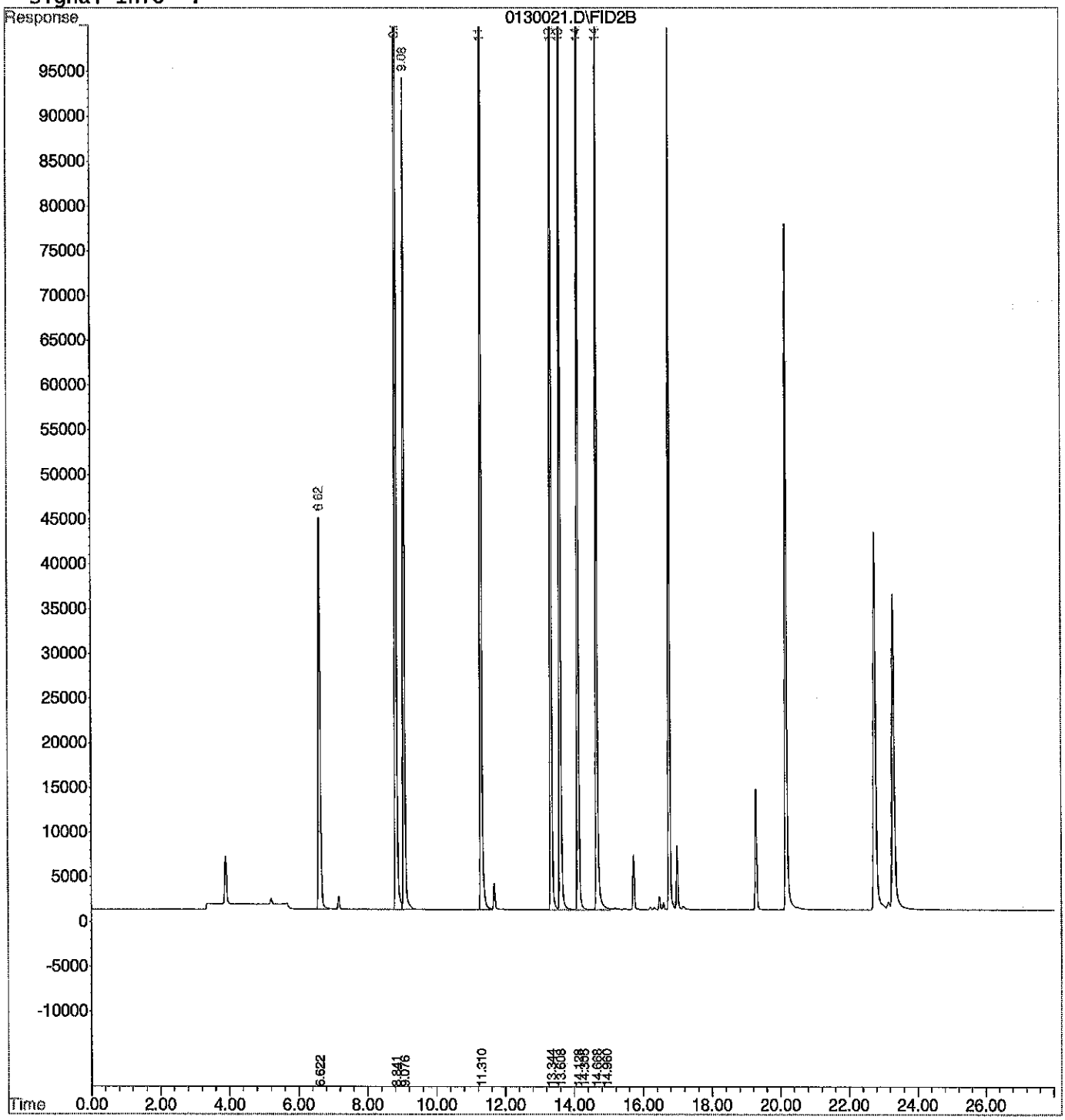
Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130021.D Vial: 21
Acq On : 30 Jan 2015 22:00 Operator:
Sample : CCVH0130B-2 Inst : HOPE
Misc : V2-36-17,V2-27-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 30 22:28 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130039.D Vial: 39
Acq On : 31 Jan 2015 7:52 Operator:
Sample : CCVH0130B-3 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 31 8:20 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Initial Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
6)	S	FLUOROBENZENE #2	9.07	2673228	35.169 PPB
11)	S	BROMOFLUOROBENZENE #2	14.67	2902963	36.180 PPB
		Target Compounds			
2)	H	Entire GAS Envelope #2	14.31	31276802	0.865 PPM
3)	H	GASOLINE #2	14.96	19938027	0.718 PPM
4)		MTBE #2	6.62	1876063	42.574 PPB
5)		BENZENE #2	8.84	4763428	44.983 PPB
7)		TOLUENE #2	11.31	3937398	44.884 PPB
8)		ETHYLBENZENE #2	13.34	3155208	44.914 PPB
9)		m,p-XYLENE #2	13.61	3626728	45.055 PPB
10)		o-XYLENE #2	14.13	3048206	45.283 PPB

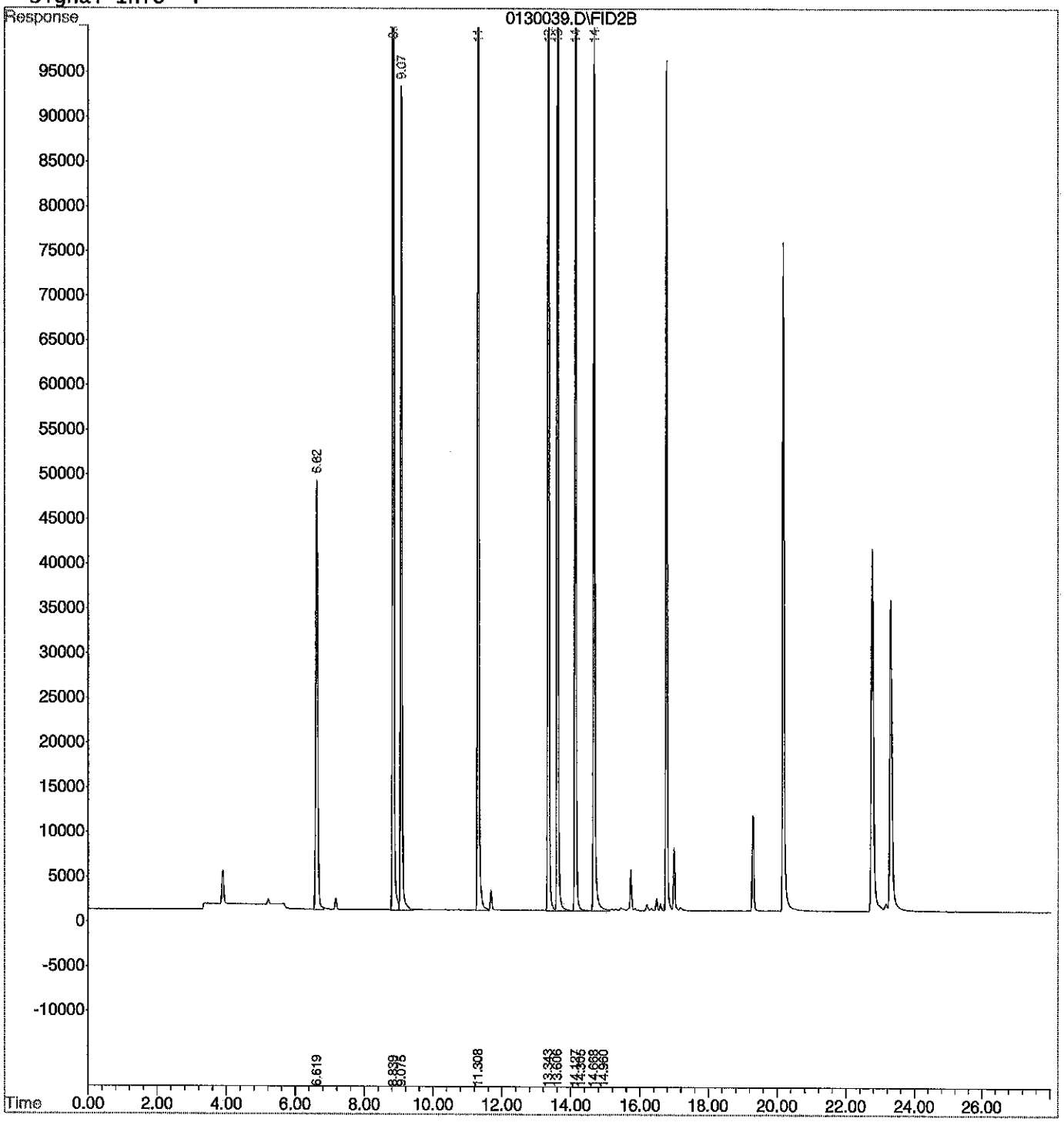
Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H150130\0130039.D Vial: 39
Acq On : 31 Jan 2015 7:52 Operator:
Sample : CCVH0130B-3 Inst : HOPE
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile : EVENTS1.E

Quant Time: Jan 31 8:20 2015 Quant Results File: 141218B.RES

Quant Method : D:\ARCHON\METHODS\141218B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Fri Dec 19 10:19:17 2014
Response via : Multiple Level Calibration
DataAcq Meth : 141218B.M

Volume Inj. :
Signal Phase :
Signal Info :



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0202-V20.D
Sample : 01-217-01 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 23:41
Operator :
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 00:17:53 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.742	127574921	41.380	PPM
Spiked Amount	50.000		Recovery =	82.76%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	2490186	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	8574868	2.231	PPM
5) H	Diesel Fuel #2 (01-...	14.000	8439796	4.250	PPM
6) H	Oil (12-18-14)	22.000	64063563	19.967	PPM
7) H	Oil Acid Clean (12-...	22.000	64063563	21.070	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	7778926	3.970	PPM
9) H	Oil Combo (12-18-14)	22.000	63349021	20.453	PPM
10) H	Oil Acid Clean Combo ...	22.000	63349021	21.095	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	8507842	0.773	PPM
12) H	Alaska 103 Oil (06-2...	22.000	22556130	13.361	PPM
13) H	Mineral Oil (12-18-14)	16.000	8214397	0.532	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	67311918	32.075	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	67311918	38.843	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	68099587	845.096	PPM
17) H	Mineral Oil Combo (1...	16.000	5986751	1.581	PPM
18) H	Oil Acid Clean MO Com...	22.000	62770431	21.414	PPM
19) H	Oil MO Combo (12-18-14)	22.000	62770431	21.019	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

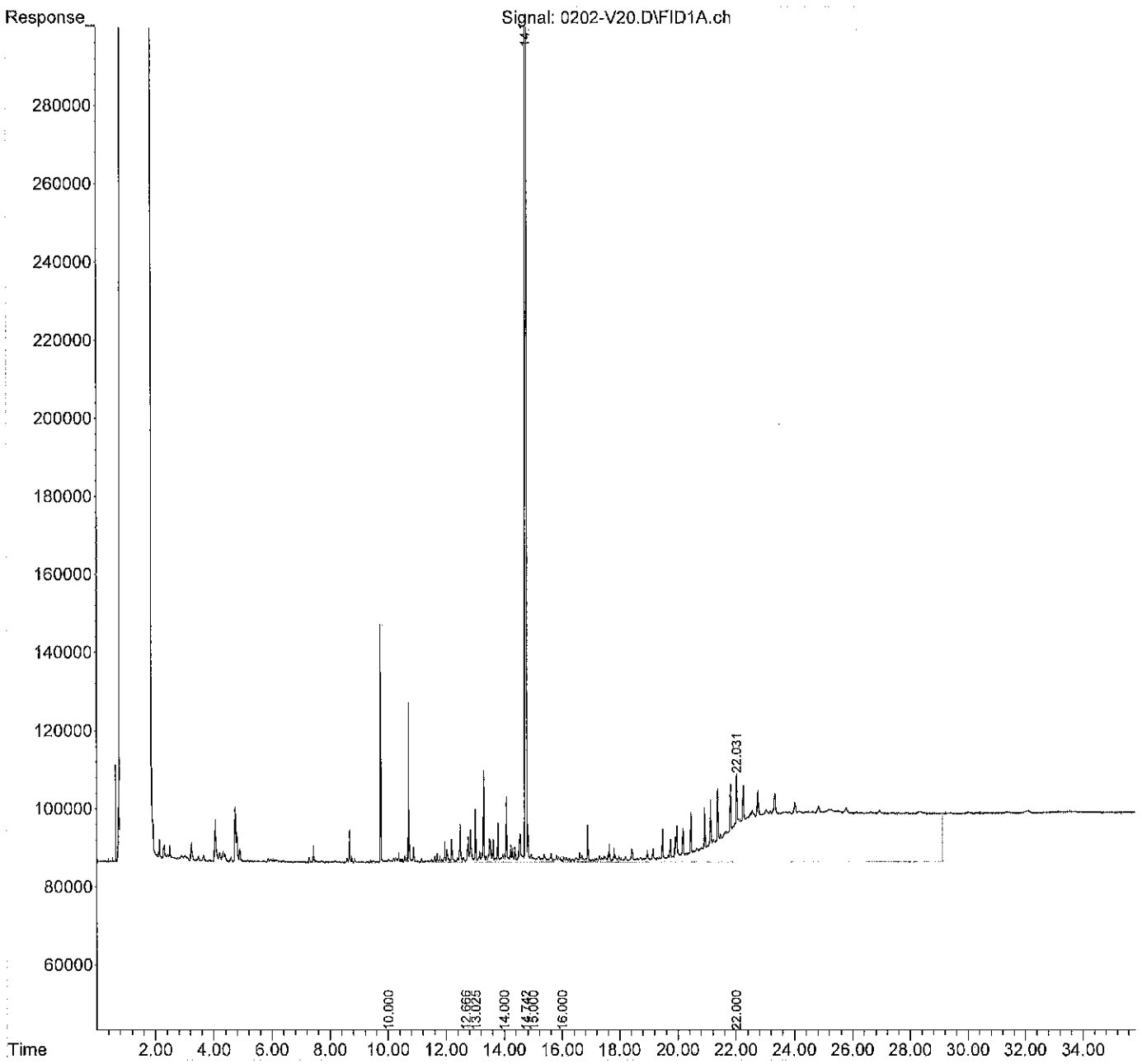
Quantitation Report (Not Reviewed)

Data File : 0202-V20.D
Sample : 01-217-01 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 23:41
Operator :
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 00:17:53 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V21.D
Sample : 01-217-03 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 3 Feb 2015 00:22
Operator :
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 00:58:29 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.745	154249362	50.048	PPM
Spiked Amount	50.000		Recovery =	100.10%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	3491313	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	33485844	12.559	PPM
5) H	Diesel Fuel #2 (01-...	14.000	51444161	22.409	PPM
6) H	Oil (12-18-14)	22.000	104839809	39.919	PPM
7) H	Oil Acid Clean (12-...	22.000	104839809	43.506	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	42705279	19.029	PPM
9) H	Oil Combo (12-18-14)	22.000	93665232	35.555	PPM
10) H	Oil Acid Clean Combo ...	22.000	93665232	38.039	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	51600344	17.837	PPM
12) H	Alaska 103 Oil (06-2...	22.000	42065564	31.368	PPM
13) H	Mineral Oil (12-18-14)	16.000	61391229	20.815	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	132358360	79.119	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	132358360	84.352	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	133520839	1678.079	PPM
17) H	Mineral Oil Combo (1...	16.000	47701965	17.887	PPM
18) H	Oil Acid Clean MO Com...	22.000	86098211	34.829	PPM
19) H	Oil MO Combo (12-18-14)	22.000	86098211	33.020	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

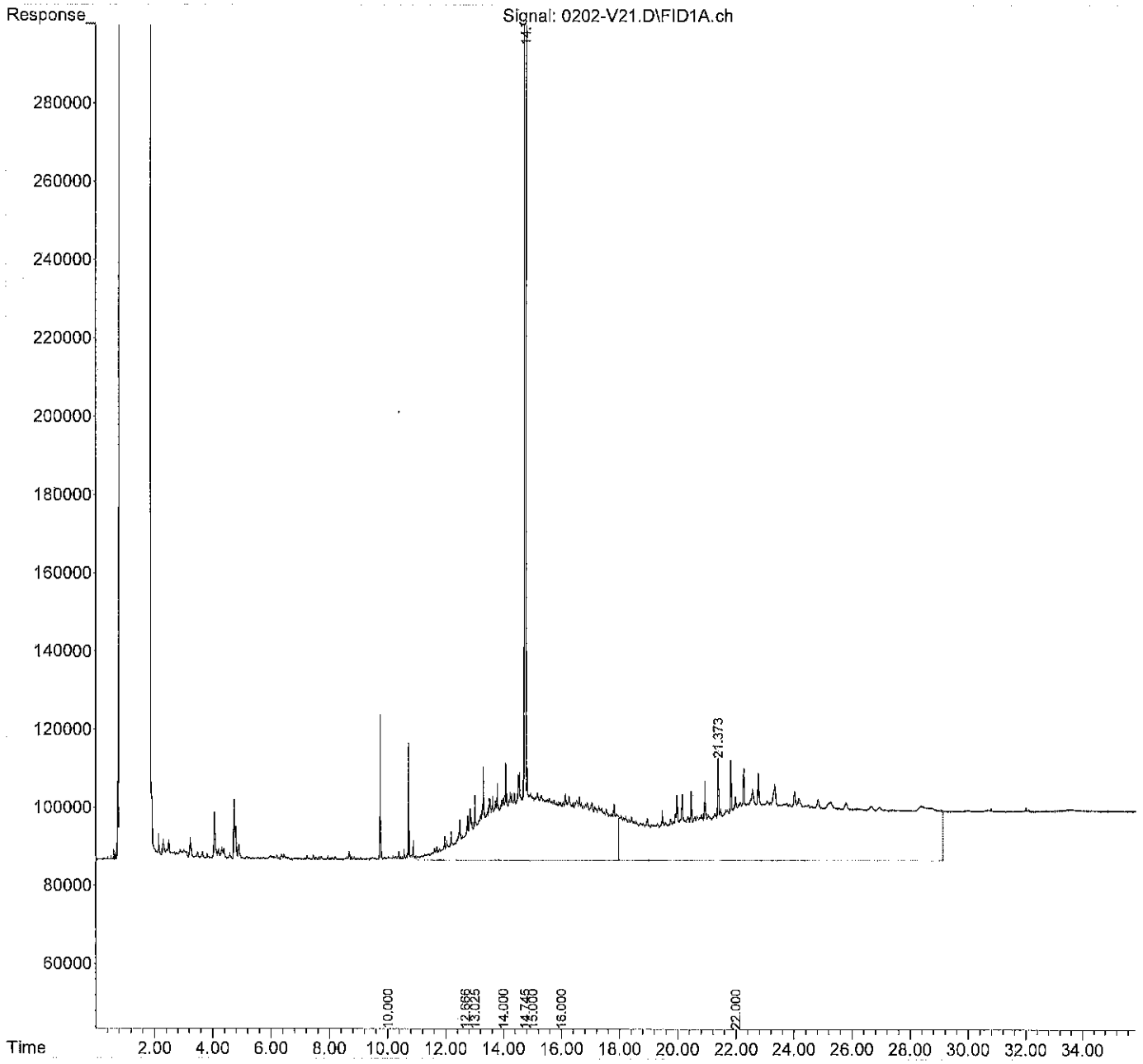
Quantitation Report (Not Reviewed)

Data File : 0202-V21.D
Sample : 01-217-03 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 3 Feb 2015 00:22
Operator :
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 00:58:29 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V70.D
Sample : 01-217-04 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 23:41
Operator :
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 00:18:07 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.602	118303123	41.876	PPM
Spiked Amount	50.000		Recovery =	83.75%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	10395906	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	13336645	4.104	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	11296957	2.774	PPM
6) H	Oil (01-08-15)	22.000	80839085	27.810	PPM
7) H	Oil Acid Clean (01-0...	22.000	80839085	25.526	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	10396780	2.444	PPM
9) H	Oil Combo (01-08-15)	22.000	80016728	28.147	PPM
10) H	Oil Acid Clean Combo ...	22.000	80016728	25.695	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	11909223	N.D.	PPM
12) H	Alaska 103 Oil (06-2...	22.000	30698618	16.500	PPM
13) H	Mineral Oil (10-06-14)	16.000	10463920	3.089	PPM
14) H	Bunker C ACU (Fuel O...	15.000	83652274	18.007	PPM
15) H	Bunker C (Fuel Oil #...	15.000	83652274	48.993	PPM
16) H	ALKANE C9-C40	12.666	87891678	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	6594225	2.219	PPM
18) H	Oil Acid Clean MO Com...	22.000	79272513	26.218	PPM
19) H	Oil MO Combo (01-08-15)	22.000	79272513	28.913	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

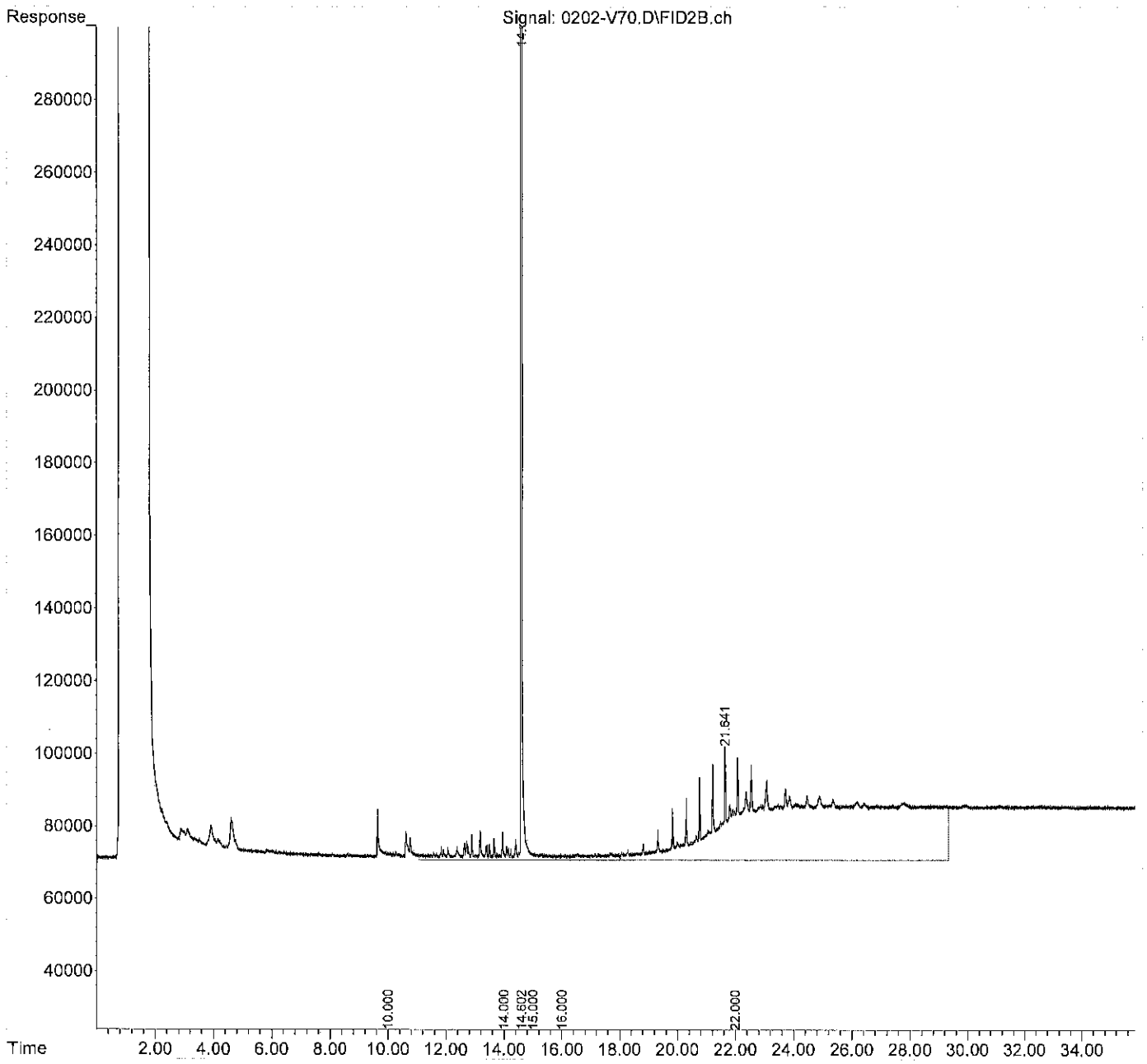
Quantitation Report (Not Reviewed)

Data File : 0202-V70.D
Sample : 01-217-04 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 23:41
Operator :
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 00:18:07 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V55.D
Sample : MB0130S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 13:30
Operator :
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 14:06:58 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.607	137785644	48.794	PPM
Spiked Amount	50.000		Recovery =	97.59%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	11515459	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	17268539	5.879	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	16117816	5.109	PPM
6) H	Oil (01-08-15)	22.000	73476371	23.781	PPM
7) H	Oil Acid Clean (01-0...	22.000	73476371	21.146	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	14625471	4.531	PPM
9) H	Oil Combo (01-08-15)	22.000	71904910	23.605	PPM
10) H	Oil Acid Clean Combo ...	22.000	71904910	20.770	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	17092988	1.418	PPM
12) H	Alaska 103 Oil (06-2...	22.000	25993514	12.372	PPM
13) H	Mineral Oil (10-06-14)	16.000	13898991	4.532	PPM
14) H	Bunker C ACU (Fuel O...	15.000	80402323	15.540	PPM
15) H	Bunker C (Fuel Oil #...	15.000	80402323	46.506	PPM
16) H	ALKANE C9-C40	12.666	84848793	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	9821419	3.631	PPM
18) H	Oil Acid Clean MO Com...	22.000	70658028	20.811	PPM
19) H	Oil MO Combo (01-08-15)	22.000	70658028	23.902	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

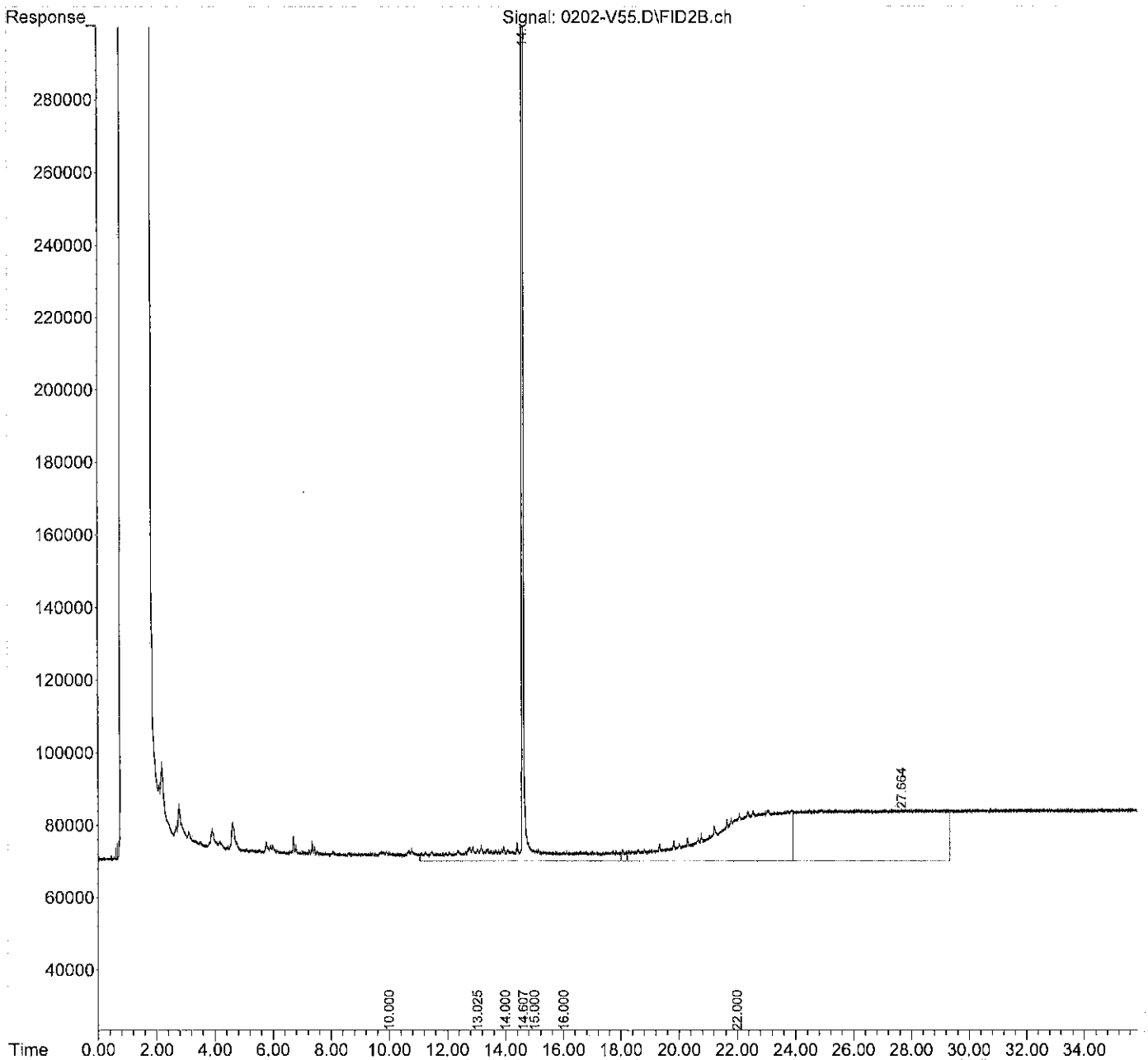
Quantitation Report (Not Reviewed)

Data File : 0202-V55.D
Sample : MB0130S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 13:30
Operator :
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 14:06:58 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0130-T61.D
Sample : 01-232-04

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 30 Jan 2015 20:47
Operator : ZT
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 30 21:22:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (01-08-14)	14.625	140129757	45.288	PPM
Spiked Amount	50.000		Recovery =	90.58%	
	Target Compounds				
2) H	Gasoline	4.000	10189829	NoCal	PPM
3) H	Diesel Fuel #1 (01-1...	10.000	15905591	0.543	PPM
4) H	Diesel Fuel #2 (01-1...	14.000	14144692	2.712	PPM
5) H	Oil (12-22-14)	22.000	46830602	14.950	PPM
6) H	Oil Acid Clean (12-...	22.000	46830602	9.048	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	13255875	2.550	PPM
8) H	Oil Combo (12-22-14)	22.000	45782699	14.529	PPM
9) H	Oil Acid Clean Combo ...	22.000	45782699	8.571	PPM
10) H	Oil MO Combo (12-22-14)	22.000	45021721	14.438	PPM
11) H	Oil Acid Clean MO Com...	22.000	45021721	8.378	PPM
12) H	Alaska 102 DF2 (05-29...	13.025	15136272	NoCal	PPM
13) H	Alaska 103 Oil (05-29...	20.000	14412984	NoCal	PPM
14) H	Mineral Oil (01-09-14)	16.000	10902487	1.154	PPM
15) H	Mineral Oil Combo (0...	16.000	8468545	1.497	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

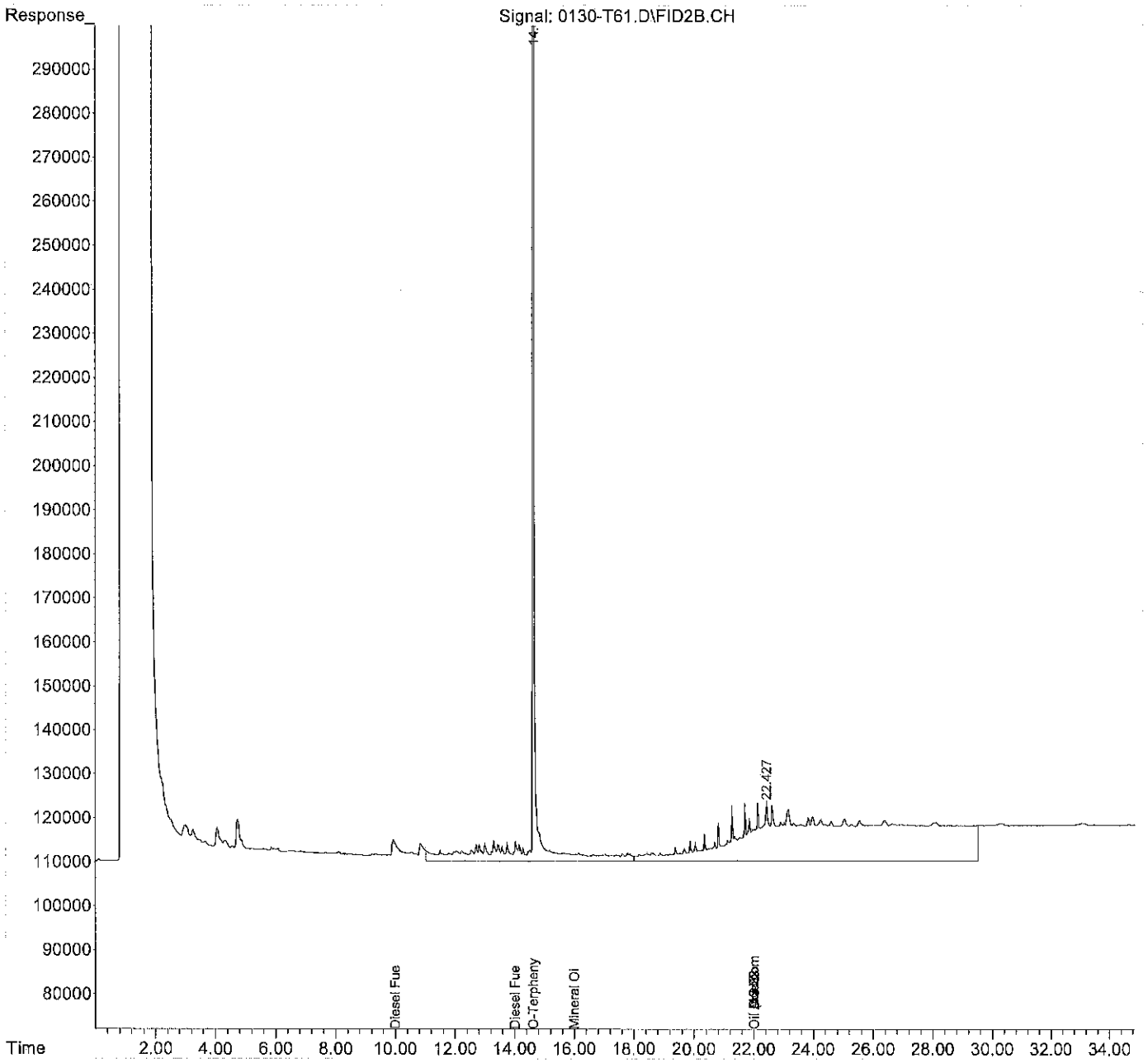
Quantitation Report (Not Reviewed)

Data File : 0130-T61.D
Sample : 01-232-04

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 30 Jan 2015 20:47
Operator : ZT
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 30 21:22:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0130-T62.D
Sample : 01-232-04 DUP

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 30 Jan 2015 21:29
Operator : ZT
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 30 22:04:20 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (01-08-14)	14.621	140611989	45.444	PPM
Spiked Amount	50.000		Recovery =	90.89%	
	Target Compounds				
2) H	Gasoline	4.000	10430652	NoCal	PPM
3) H	Diesel Fuel #1 (01-1...	10.000	15874068	0.529	PPM
4) H	Diesel Fuel #2 (01-1...	14.000	14279553	2.770	PPM
5) H	Oil (12-22-14)	22.000	46424829	14.759	PPM
6) H	Oil Acid Clean (12-...	22.000	46424829	8.836	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	13278191	2.560	PPM
8) H	Oil Combo (12-22-14)	22.000	45245554	14.270	PPM
9) H	Oil Acid Clean Combo ...	22.000	45245554	8.284	PPM
10) H	Oil MO Combo (12-22-14)	22.000	44383891	14.119	PPM
11) H	Oil Acid Clean MO Com...	22.000	44383891	8.027	PPM
12) H	Alaska 102 DF2 (05-29...	13.025	15277679	NoCal	PPM
13) H	Alaska 103 Oil (05-29...	20.000	14148447	NoCal	PPM
14) H	Mineral Oil (01-09-14)	16.000	11107305	1.232	PPM
15) H	Mineral Oil Combo (0...	16.000	8664985	1.575	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

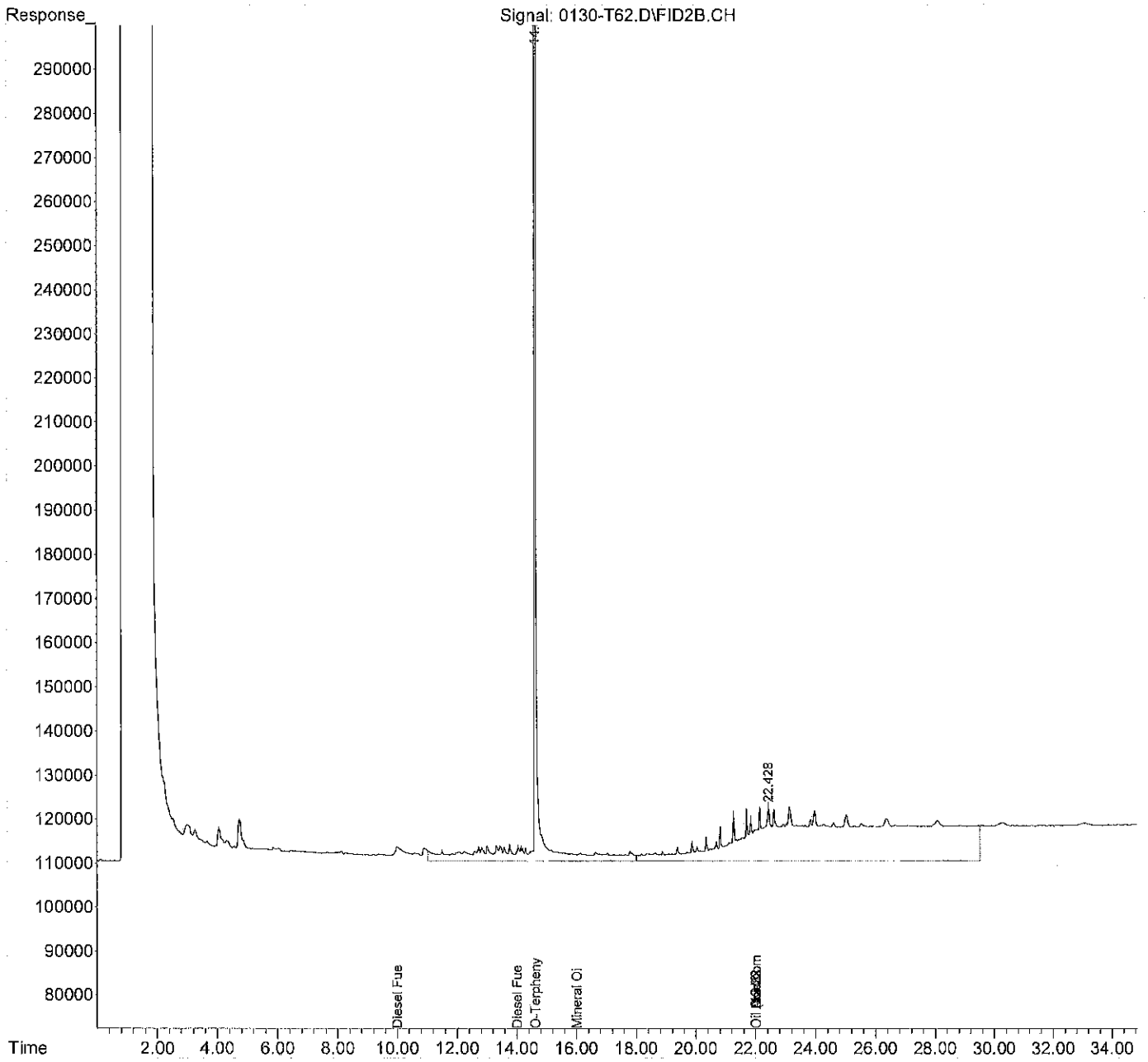
Quantitation Report (Not Reviewed)

Data File : 0130-T62.D
Sample : 01-232-04 DUP

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 30 Jan 2015 21:29
Operator : ZT
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 30 22:04:20 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0130-T58.D
Sample : CCV0130R-T2

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 30 Jan 2015 18:40
Operator : ZT
Misc : SV3-12-03
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 30 19:16:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (01-08-14)	14.613	2167984	0.541	PPM
Spiked Amount	50.000		Recovery =	1.08%	
	Target Compounds				
2) H	Gasoline	4.000	32834178	NoCal	PPM
3) H	Diesel Fuel #1 (01-1...	10.000	237594456	96.103	PPM
4) H	Diesel Fuel #2 (01-1...	14.000	238116663	99.181	PPM
5) H	Oil (12-22-14)	22.000	59180100	20.759	PPM
6) H	Oil Acid Clean (12-...	22.000	59180100	15.498	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	233843978	99.986	PPM
8) H	Oil Combo (12-22-14)	22.000	47146193	15.186	PPM
9) H	Oil Acid Clean Combo ...	22.000	47146193	9.298	PPM
10) H	Oil MO Combo (12-22-14)	22.000	43226986	13.540	PPM
11) H	Oil Acid Clean MO Com...	22.000	43226986	7.390	PPM
12) H	Alaska 102 DF2 (05-29...	13.025	243980951	NoCal	PPM
13) H	Alaska 103 Oil (05-29...	20.000	14756497	NoCal	PPM
14) H	Mineral Oil (01-09-14)	16.000	152950822	55.214	PPM
15) H	Mineral Oil Combo (0...	16.000	149847860	57.635	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

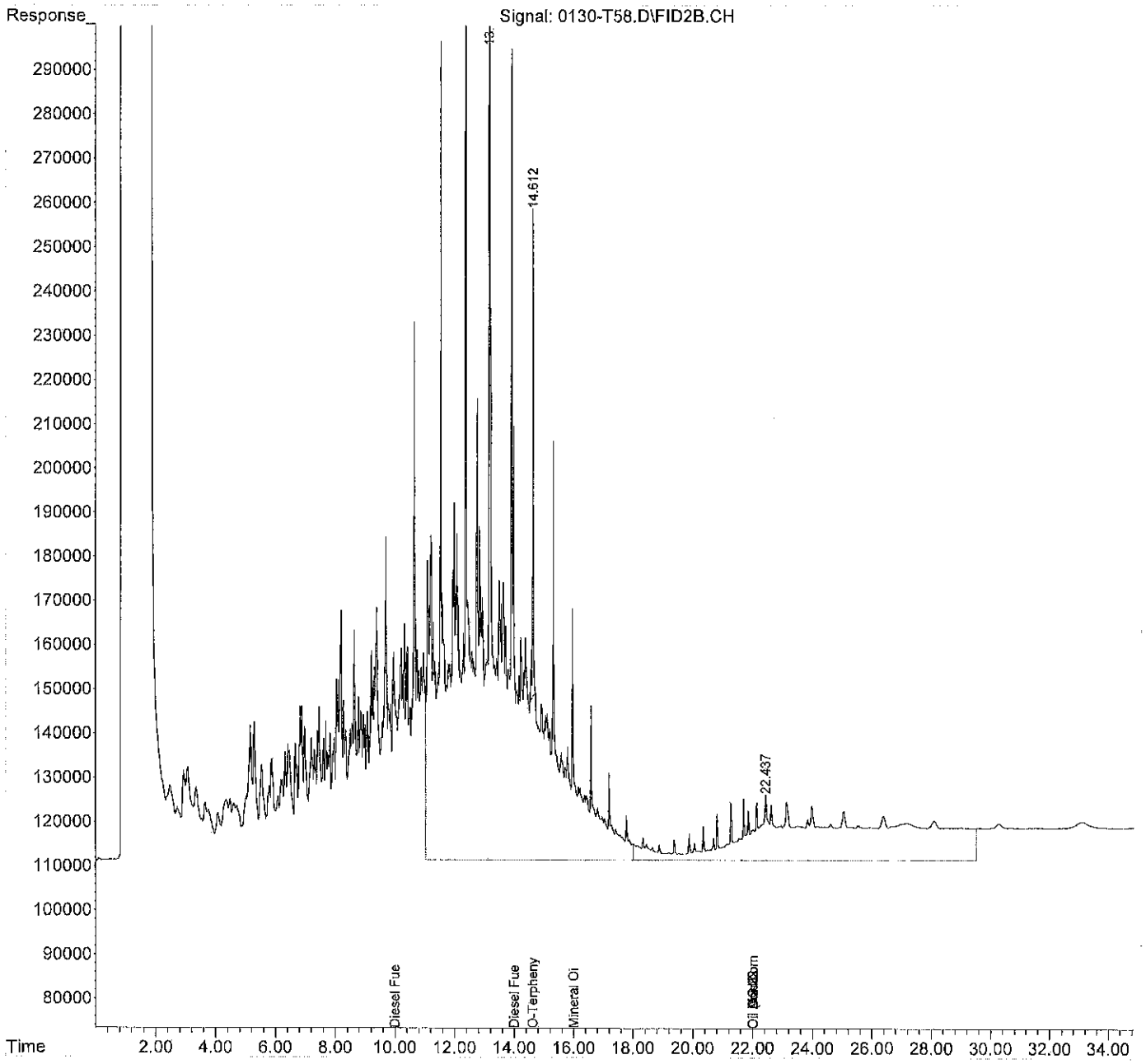
Quantitation Report (Not Reviewed)

Data File : 0130-T58.D
Sample : CCV0130R-T2

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 30 Jan 2015 18:40
Operator : ZT
Misc : SV3-12-03
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 30 19:16:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0130-T67.D
Sample : CCV0130R-T3

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 31 Jan 2015 0:59
Operator : ZT
Misc : SV3-12-03
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 31 01:34:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (01-08-14)	14.606	1867380	0.444	PPM
Spiked Amount	50.000		Recovery =	0.89%	
	Target Compounds				
2) H	Gasoline	4.000	32738128	NoCal	PPM
3) H	Diesel Fuel #1 (01-1...	10.000	237772746	96.180	PPM
4) H	Diesel Fuel #2 (01-1...	14.000	238457426	99.327	PPM
5) H	Oil (12-22-14)	22.000	54764539	18.682	PPM
6) H	Oil Acid Clean (12-...	22.000	54764539	13.192	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	234110341	100.103	PPM
8) H	Oil Combo (12-22-14)	22.000	42703647	13.046	PPM
9) H	Oil Acid Clean Combo ...	22.000	42703647	6.929	PPM
10) H	Oil MO Combo (12-22-14)	22.000	38717751	11.284	PPM
11) H	Oil Acid Clean MO Com...	22.000	38717751	4.907	PPM
12) H	Alaska 102 DF2 (05-29...	13.025	244262623	NoCal	PPM
13) H	Alaska 103 Oil (05-29...	20.000	12474852	NoCal	PPM
14) H	Mineral Oil (01-09-14)	16.000	153328672	55.358	PPM
15) H	Mineral Oil Combo (0...	16.000	150333913	57.828	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

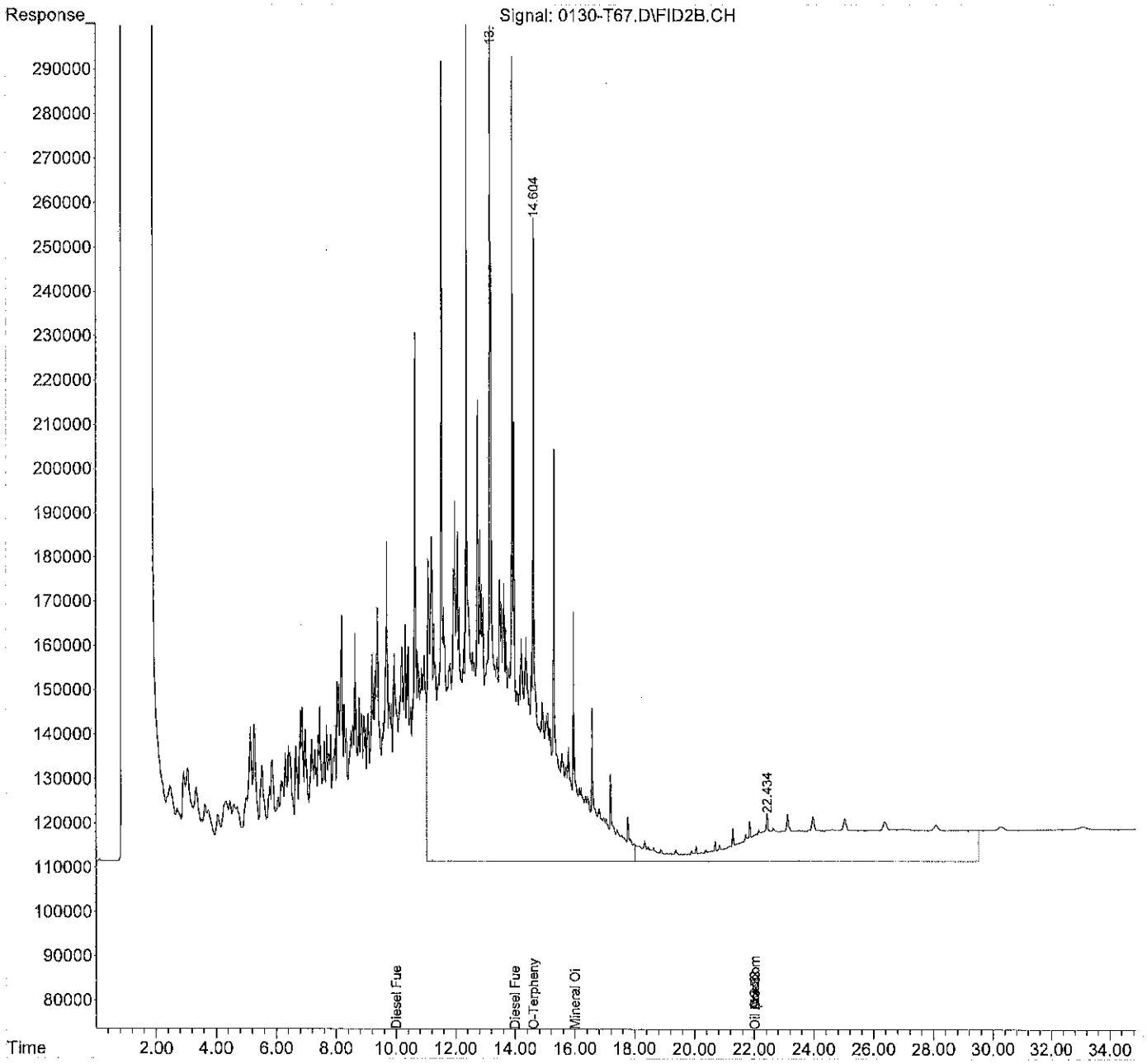
Quantitation Report (Not Reviewed)

Data File : 0130-T67.D
Sample : CCV0130R-T3

Data Path : X:\DIESELS\TERI\DATA\T150130.SEC\
Signal(s) : FID2B.CH
Acq On : 31 Jan 2015 0:59
Operator : ZT
Misc : SV3-12-03
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 31 01:34:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141222R.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:58:02 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V19.D
Sample : CCV0202F-V3

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 23:01
Operator :
Misc : SV3-12-03
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 23:37:21 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	27637557	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	239838929	98.115	PPM
5) H	Diesel Fuel #2 (01-...	14.000	242069788	102.905	PPM
6) H	Oil (12-18-14)	22.000	79962704	27.746	PPM
7) H	Oil Acid Clean (12-...	22.000	79962704	29.818	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	237324571	102.943	PPM
9) H	Oil Combo (12-18-14)	22.000	67191962	22.367	PPM
10) H	Oil Acid Clean Combo ...	22.000	67191962	23.243	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	245324358	94.550	PPM
12) H	Alaska 103 Oil (06-2...	22.000	22084798	12.926	PPM
13) H	Mineral Oil (12-18-14)	16.000	157346642	57.414	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	301906386	201.743	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	301906386	202.977	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	315356212	3993.317	PPM
17) H	Mineral Oil Combo (1...	16.000	153460644	59.227	PPM
18) H	Oil Acid Clean MO Com...	22.000	62853128	21.462	PPM
19) H	Oil MO Combo (12-18-14)	22.000	62853128	21.062	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

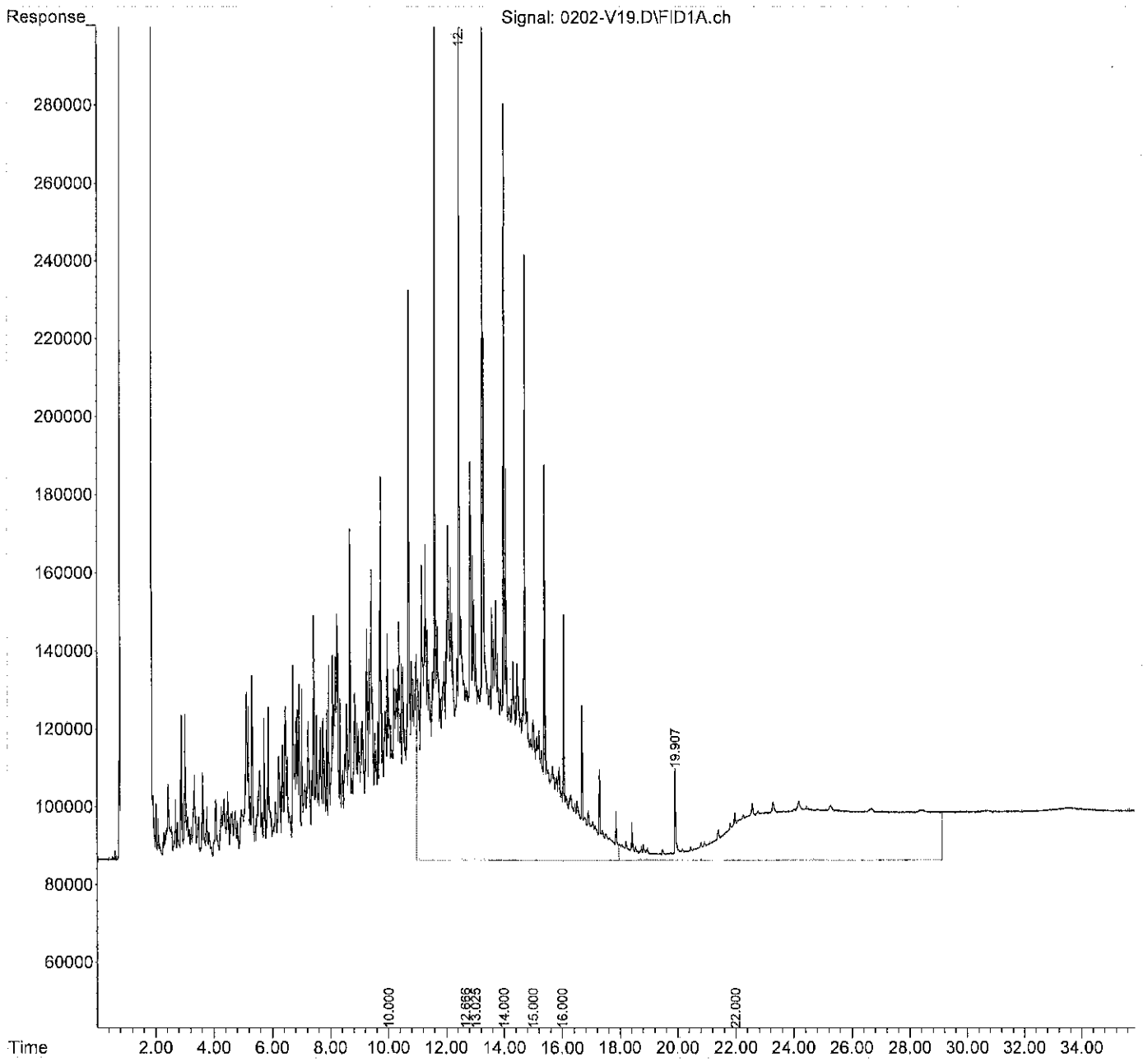
Quantitation Report (Not Reviewed)

Data File : 0202-V19.D
Sample : CCV0202F-V3

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 23:01
Operator :
Misc : SV3-12-03
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 23:37:21 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V22.D
Sample : CCV0202F-V4

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 3 Feb 2015 1:02
Operator :
Misc : SV3-12-03
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 01:39:04 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	27850215	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	240111976	98.229	PPM
5) H	Diesel Fuel #2 (01-...	14.000	242312856	103.007	PPM
6) H	Oil (12-18-14)	22.000	78048275	26.810	PPM
7) H	Oil Acid Clean (12-...	22.000	78048275	28.765	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	237498373	103.018	PPM
9) H	Oil Combo (12-18-14)	22.000	65251563	21.401	PPM
10) H	Oil Acid Clean Combo ...	22.000	65251563	22.158	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	245589826	94.655	PPM
12) H	Alaska 103 Oil (06-2...	22.000	21754572	12.621	PPM
13) H	Mineral Oil (12-18-14)	16.000	156956870	57.266	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	300261041	200.553	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	300261041	201.825	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	313856160	3974.217	PPM
17) H	Mineral Oil Combo (1...	16.000	153575256	59.272	PPM
18) H	Oil Acid Clean MO Com...	22.000	60861340	20.317	PPM
19) H	Oil MO Combo (12-18-14)	22.000	60861340	20.037	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

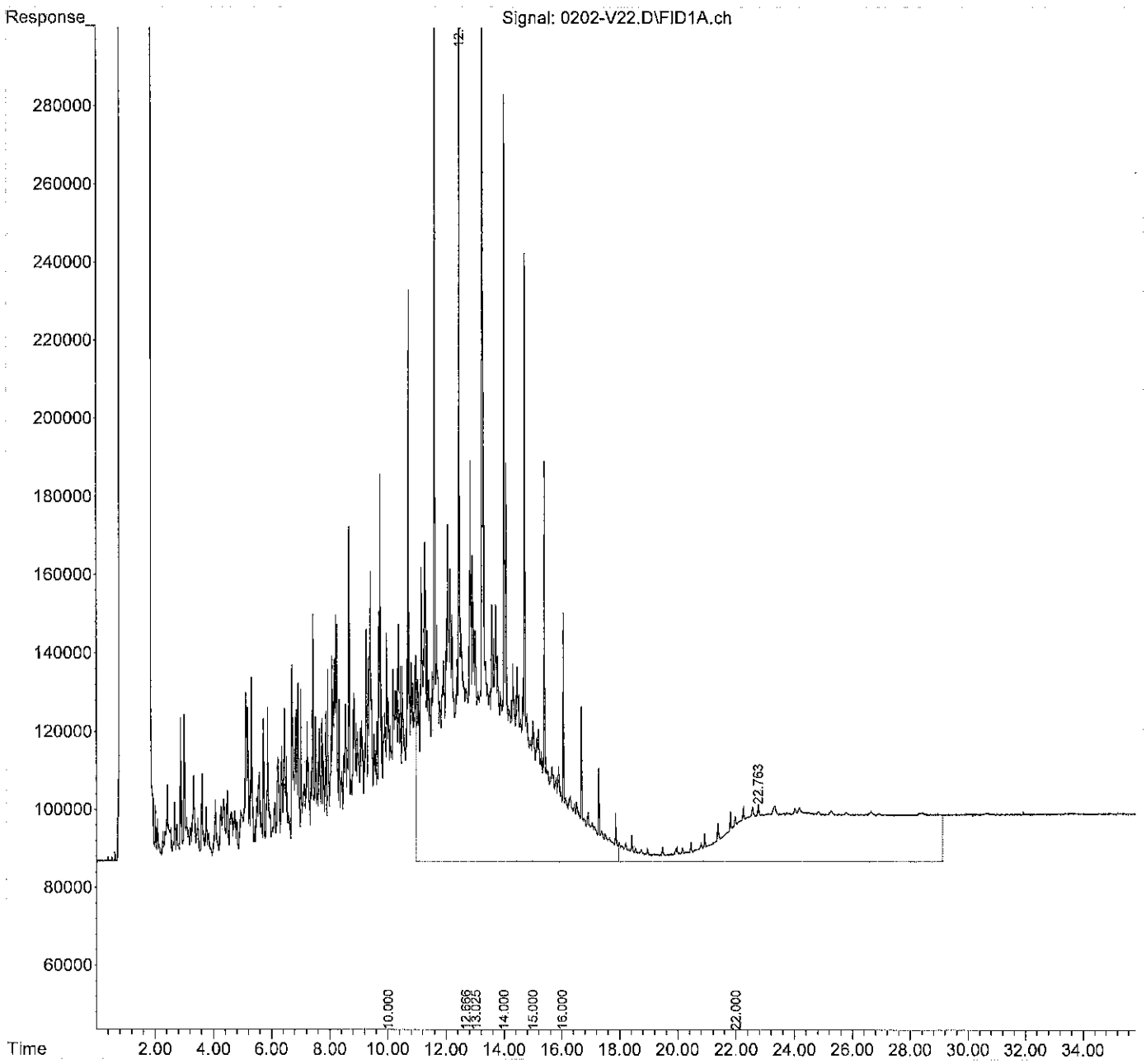
Quantitation Report (Not Reviewed)

Data File : 0202-V22.D
Sample : CCV0202F-V4

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 3 Feb 2015 1:02
Operator :
Misc : SV3-12-03
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 01:39:04 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V51.D
Sample : CCV0202R-V1

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 10:29
Operator :
Misc : SV3-12-03
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 11:05:58 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1) S	O-Terphenyl (09-28-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
Target Compounds					
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	33675347	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	211682146	93.632	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	203167343	95.705	PPM
6) H	Oil (01-08-15)	22.000	79608254	27.137	PPM
7) H	Oil Acid Clean (01-0...	22.000	79608254	24.793	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	201171327	96.577	PPM
9) H	Oil Combo (01-08-15)	22.000	73603884	24.556	PPM
10) H	Oil Acid Clean Combo ...	22.000	73603884	21.802	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	207061590	74.625	PPM
12) H	Alaska 103 Oil (06-2...	22.000	24100963	10.712	PPM
13) H	Mineral Oil (10-06-14)	16.000	121710827	49.823	PPM
14) H	Bunker C ACU (Fuel O...	15.000	269563816	159.162	PPM
15) H	Bunker C (Fuel Oil #...	15.000	269563816	191.273	PPM
16) H	ALKANE C9-C40	12.666	285683666	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	118633329	51.238	PPM
18) H	Oil Acid Clean MO Com...	22.000	71821886	21.542	PPM
19) H	Oil MO Combo (01-08-15)	22.000	71821886	24.579	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

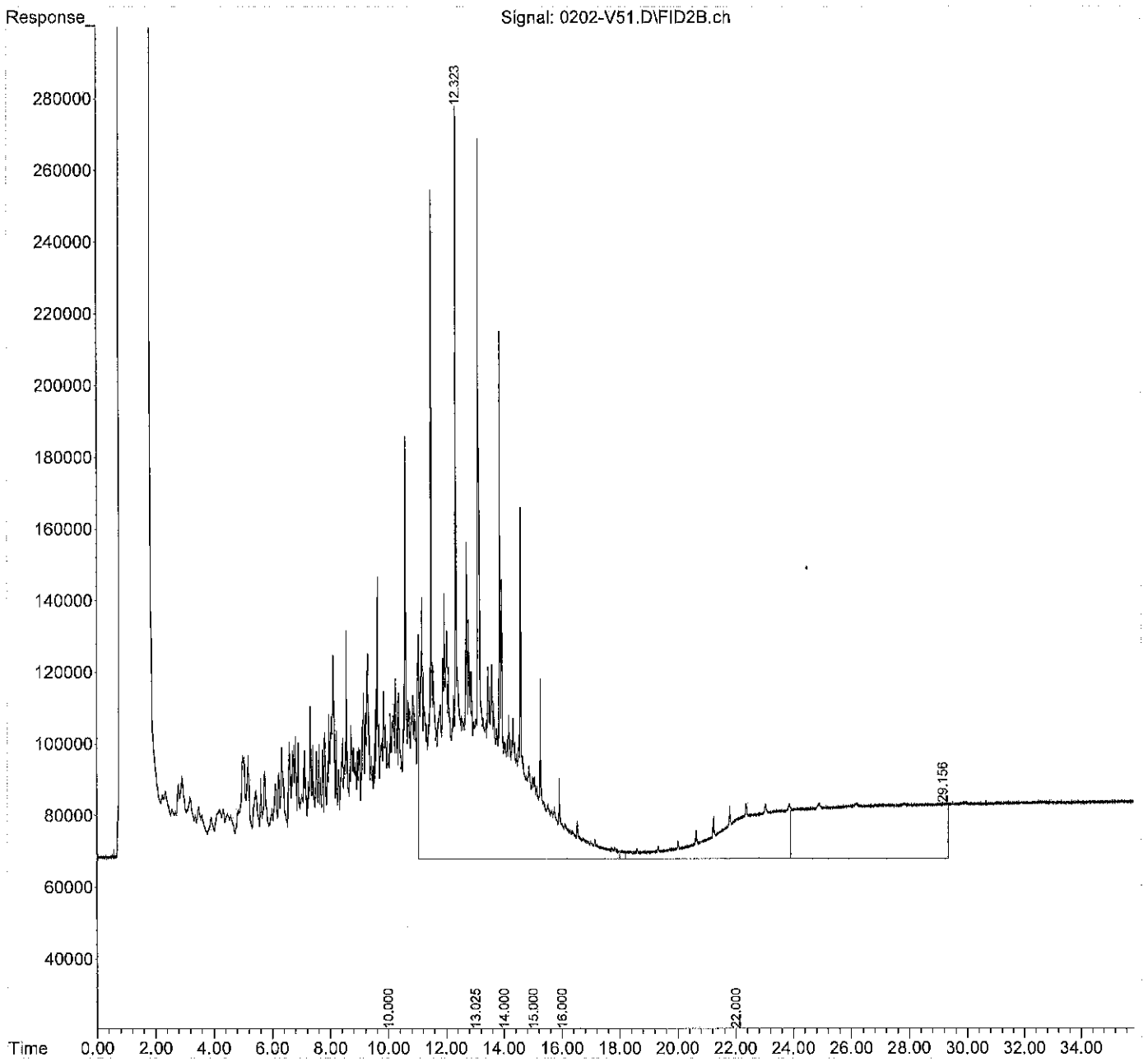
Quantitation Report (Not Reviewed)

Data File : 0202-V51.D
Sample : CCV0202R-V1

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 10:29
Operator :
Misc : SV3-12-03
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 11:05:58 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V60.D
Sample : CCV0202R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 16:54
Operator :
Misc : SV3-12-03
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 17:31:08 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.579	1730326	0.478	PPM
Spiked Amount	50.000		Recovery =	0.96%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	30364984	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	213921424	94.643	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	212457319	100.204	PPM
6) H	Oil (01-08-15)	22.000	82598658	28.773	PPM
7) H	Oil Acid Clean (01-0...	22.000	82598658	26.572	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	208845630	100.364	PPM
9) H	Oil Combo (01-08-15)	22.000	72554985	23.969	PPM
10) H	Oil Acid Clean Combo ...	22.000	72554985	21.165	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	216016746	78.076	PPM
12) H	Alaska 103 Oil (06-2...	22.000	24917556	11.429	PPM
13) H	Mineral Oil (10-06-14)	16.000	134316172	55.118	PPM
14) H	Bunker C ACU (Fuel O...	15.000	276687317	164.570	PPM
15) H	Bunker C (Fuel Oil #...	15.000	276687317	196.725	PPM
16) H	ALKANE C9-C40	12.666	291443844	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	130854820	56.585	PPM
18) H	Oil Acid Clean MO Com...	22.000	69268438	19.939	PPM
19) H	Oil MO Combo (01-08-15)	22.000	69268438	23.094	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

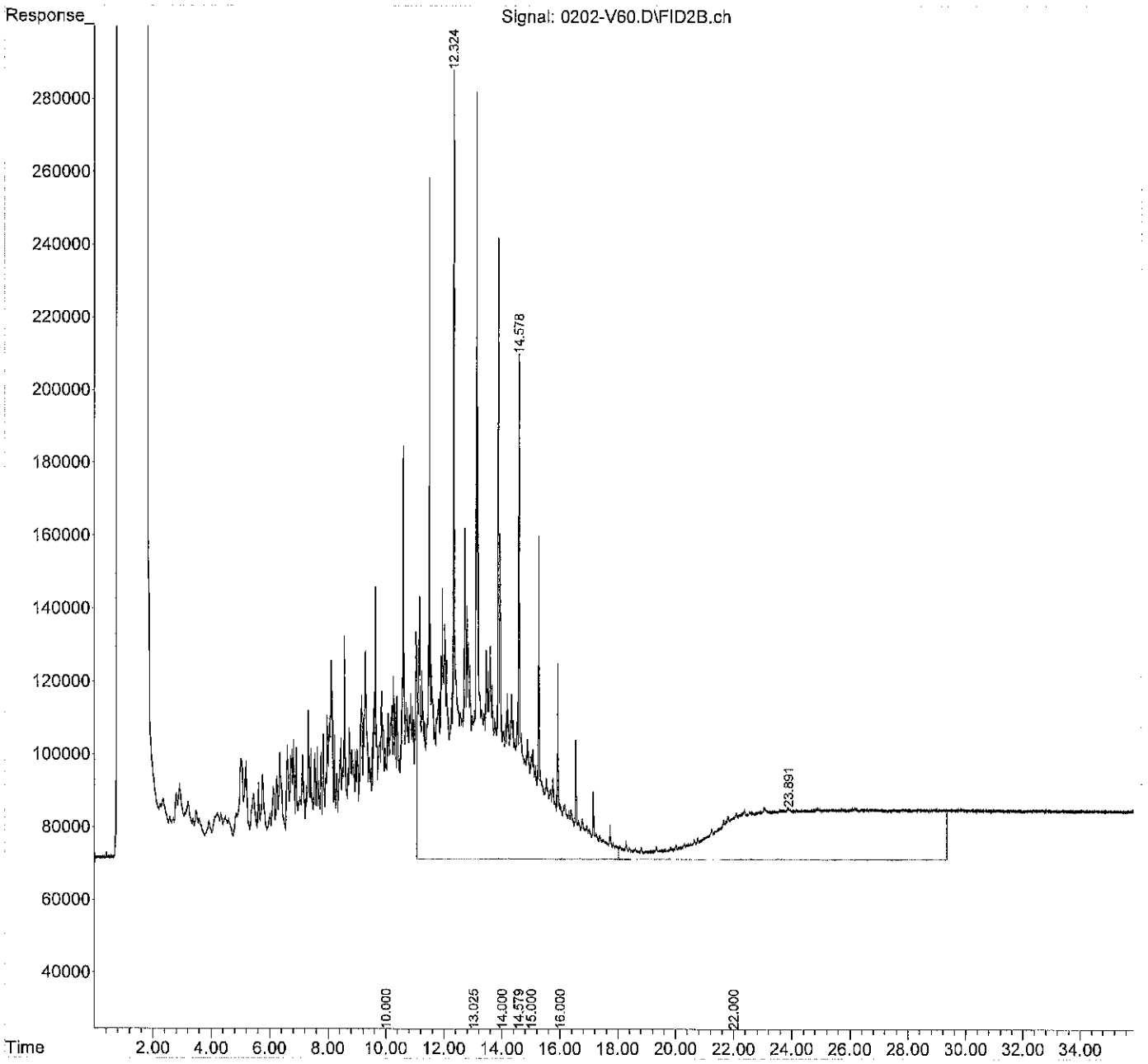
Quantitation Report (Not Reviewed)

Data File : 0202-V60.D
Sample : CCV0202R-V2

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 16:54
Operator :
Misc : SV3-12-03
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 17:31:08 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V69.D
Sample : CCV0202R-V3

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 23:01
Operator :
Misc : SV3-12-03
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 23:37:35 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.577	1758035	0.488	PPM
Spiked Amount	50.000		Recovery =	0.98%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	31813756	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	217989341	96.479	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	217041656	102.425	PPM
6) H	Oil (01-08-15)	22.000	102278483	39.542	PPM
7) H	Oil Acid Clean (01-0...	22.000	102278483	38.280	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	212867778	102.348	PPM
9) H	Oil Combo (01-08-15)	22.000	91645821	34.659	PPM
10) H	Oil Acid Clean Combo ...	22.000	91645821	32.756	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	220764942	79.906	PPM
12) H	Alaska 103 Oil (06-2...	22.000	33425556	18.892	PPM
13) H	Mineral Oil (10-06-14)	16.000	138827693	57.014	PPM
14) H	Bunker C ACU (Fuel O...	15.000	298542914	181.164	PPM
15) H	Bunker C (Fuel Oil #...	15.000	298542914	213.451	PPM
16) H	ALKANE C9-C40	12.666	313904640	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	133715652	57.837	PPM
18) H	Oil Acid Clean MO Com...	22.000	87885581	31.624	PPM
19) H	Oil MO Combo (01-08-15)	22.000	87885581	33.923	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

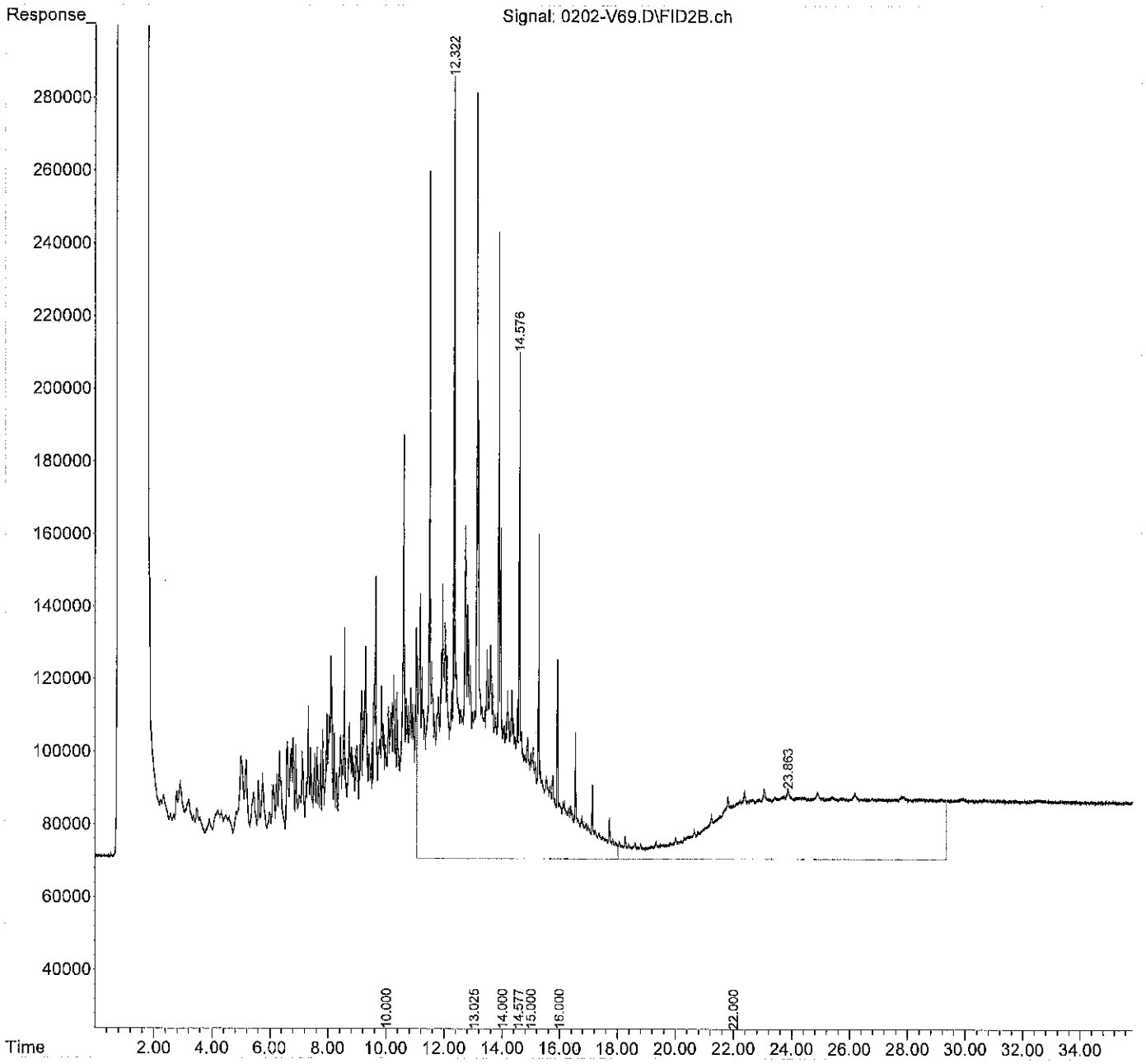
Quantitation Report (Not Reviewed)

Data File : 0202-V69.D
Sample : CCV0202R-V3

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 2 Feb 2015 23:01
Operator :
Misc : SV3-12-03
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 23:37:35 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V72.D
Sample : CCV0202R-V4

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 3 Feb 2015 1:02
Operator :
Misc : SV3-12-03
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 01:39:19 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (09-28-14)	14.577	1862549	0.525	PPM
Spiked Amount	50.000		Recovery =	1.05%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	32235701	NoCal	PPM
4) H	Diesel Fuel #1 (10-0...	10.000	226938344	100.518	PPM
5) H	Diesel Fuel #2 (10-0...	14.000	225975997	106.752	PPM
6) H	Oil (01-08-15)	22.000	85615187	30.424	PPM
7) H	Oil Acid Clean (01-0...	22.000	85615187	28.367	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	221815647	106.764	PPM
9) H	Oil Combo (01-08-15)	22.000	74658875	25.147	PPM
10) H	Oil Acid Clean Combo ...	22.000	74658875	22.442	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	229790650	83.384	PPM
12) H	Alaska 103 Oil (06-2...	22.000	25991840	12.371	PPM
13) H	Mineral Oil (10-06-14)	16.000	143512780	58.982	PPM
14) H	Bunker C ACU (Fuel O...	15.000	291842020	176.077	PPM
15) H	Bunker C (Fuel Oil #...	15.000	291842020	208.323	PPM
16) H	ALKANE C9-C40	12.666	307527525	NoCal	PPM
17) H	Mineral Oil Combo (10...	16.000	139331070	60.293	PPM
18) H	Oil Acid Clean MO Com...	22.000	70892750	20.959	PPM
19) H	Oil MO Combo (01-08-15)	22.000	70892750	24.039	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

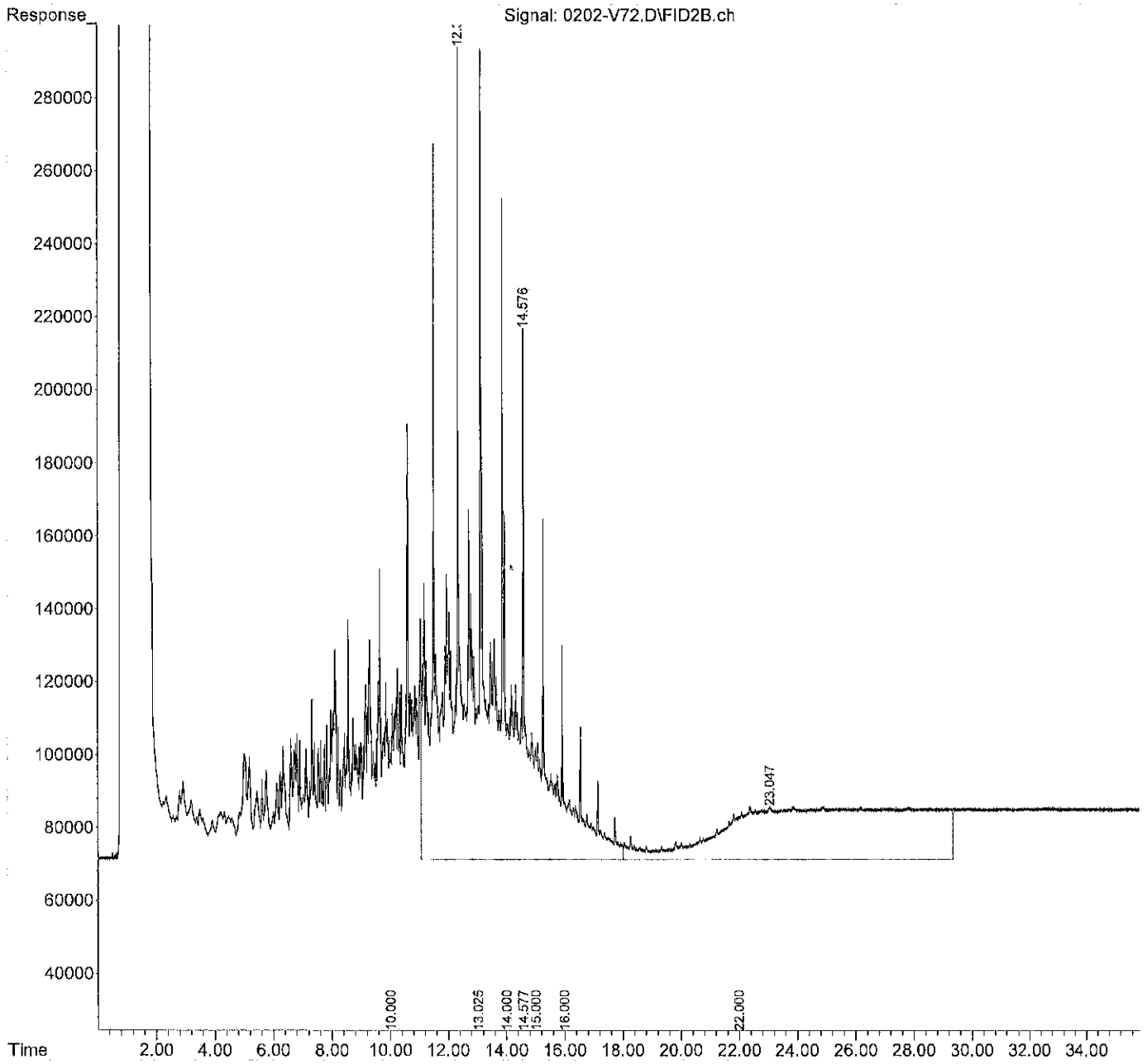
Quantitation Report (Not Reviewed)

Data File : 0202-V72.D
Sample : CCV0202R-V4

Data Path : X:\DIESELS\VIGO\DATA\V150202.SEC\
Signal(s) : FID2B.ch
Acq On : 3 Feb 2015 1:02
Operator :
Misc : SV3-12-03
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 01:39:19 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150108R.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130017.D
Acq On : 30 Jan 2015 3:21 pm
Operator :
Sample : 01-217-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jan 30 15:36:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.979	136	23715	2000.00	ppb	0.00
6) Acenaphthene-d10	5.224	164	12432	2000.00	ppb	0.00
10) Phenanthrene-d10	6.228	188	20862	2000.00	ppb	0.00
17) Chrysene-d12	8.299	240	21140	2000.00	ppb	0.00
21) Perylene-d12	9.738	264	19628	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.549	82	868	231.32	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 23.13%#			
7) 2-Fluorobiphenyl	4.774	172	6202	780.53	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 78.05%			
11) Pyrene-d10	7.215	212	6016	729.78	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 72.98%			
18) Terphenyl-d14	7.377	244	4188	595.50	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 59.55%			
Target Compounds						Qvalue
3) Naphthalene	4.072	128	7	0.63	ppb	100
4) 2-Methylnaphthalene	4.497	142	2	0.28	ppb	100
5) 1-Methylnaphthalene	4.575	142	4	0.50	ppb	100
8) Acenaphthylene	5.147	152	16	Below Cal		100
9) Acenaphthene	5.247	153	5	0.63	ppb	100
12) Fluorene	5.617	166	8	0.97	ppb	100
13) Phenanthrene	6.243	178	42	4.42	ppb	100
14) Anthracene	6.279	178	10	0.84	ppb	100
15) Fluoranthene	7.075	202	7	0.67	ppb	100
16) Pyrene	7.226	202	29	2.64	ppb	100
19) Benzo[a]anthracene	8.295	228	77	7.83	ppb	100
20) Chrysene	8.295	228	77	~~7.60 ppb~~		100
22) Benzo[b]fluoranthene	9.321	252	3	0.29	ppb	100
23) Benzo(j,k)fluoranthene	9.321	252	3	0.29	ppb	100
24) Benzo[a]pyrene	9.684	252	11	1.12	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.763	276	1	0.10	ppb	100
26) Dibenz[a,h]anthracene	10.787	278	2	0.24	ppb	100
27) Benzo[g,h,i]perylene	10.986	276	4	0.49	ppb	100

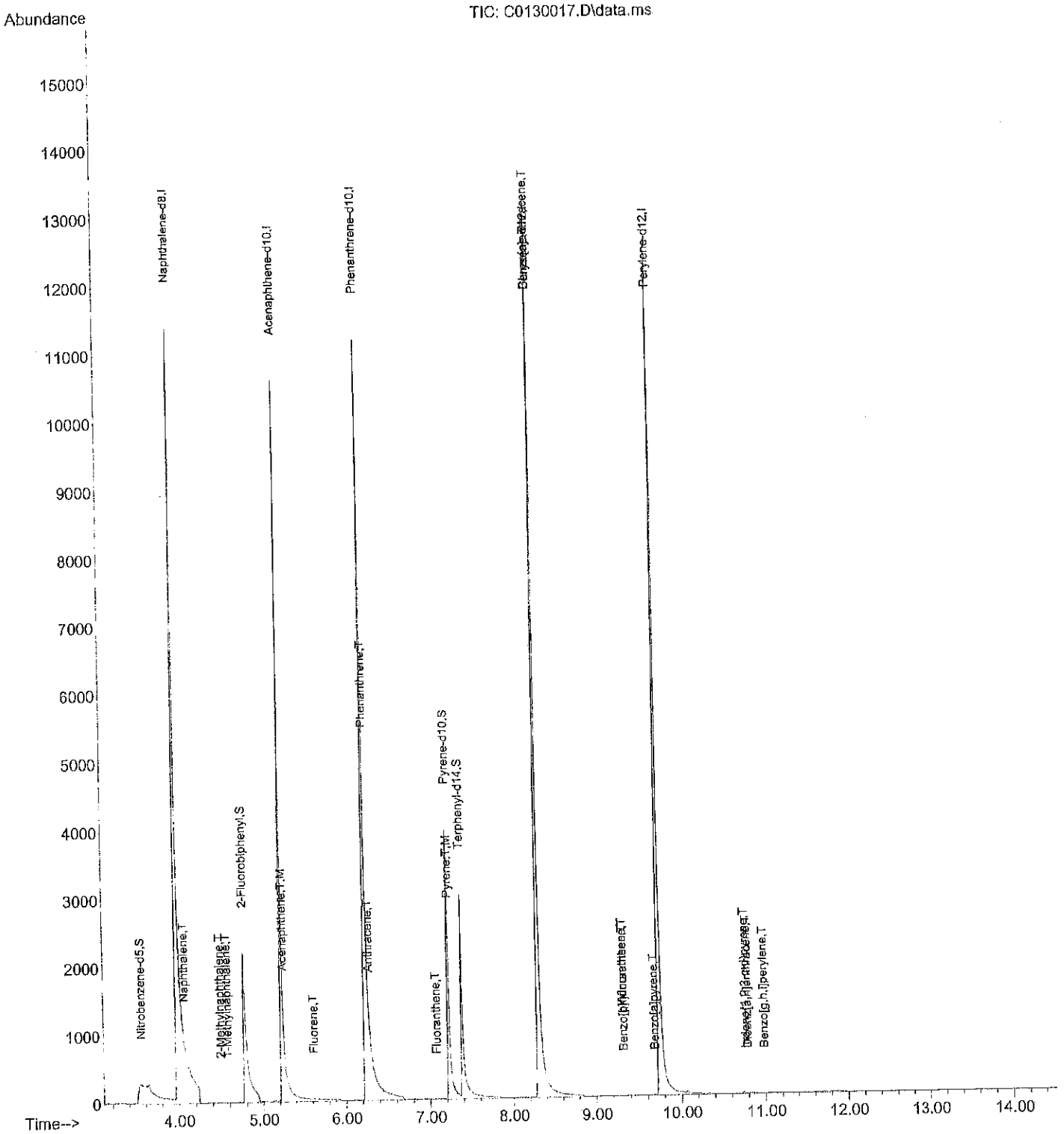
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/2/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130017.D
Acq On : 30 Jan 2015 3:21 pm
Operator :
Sample : 01-217-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jan 30 15:36:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130018.D
Acq On : 30 Jan 2015 3:43 pm
Operator :
Sample : 01-217-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jan 30 15:59:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

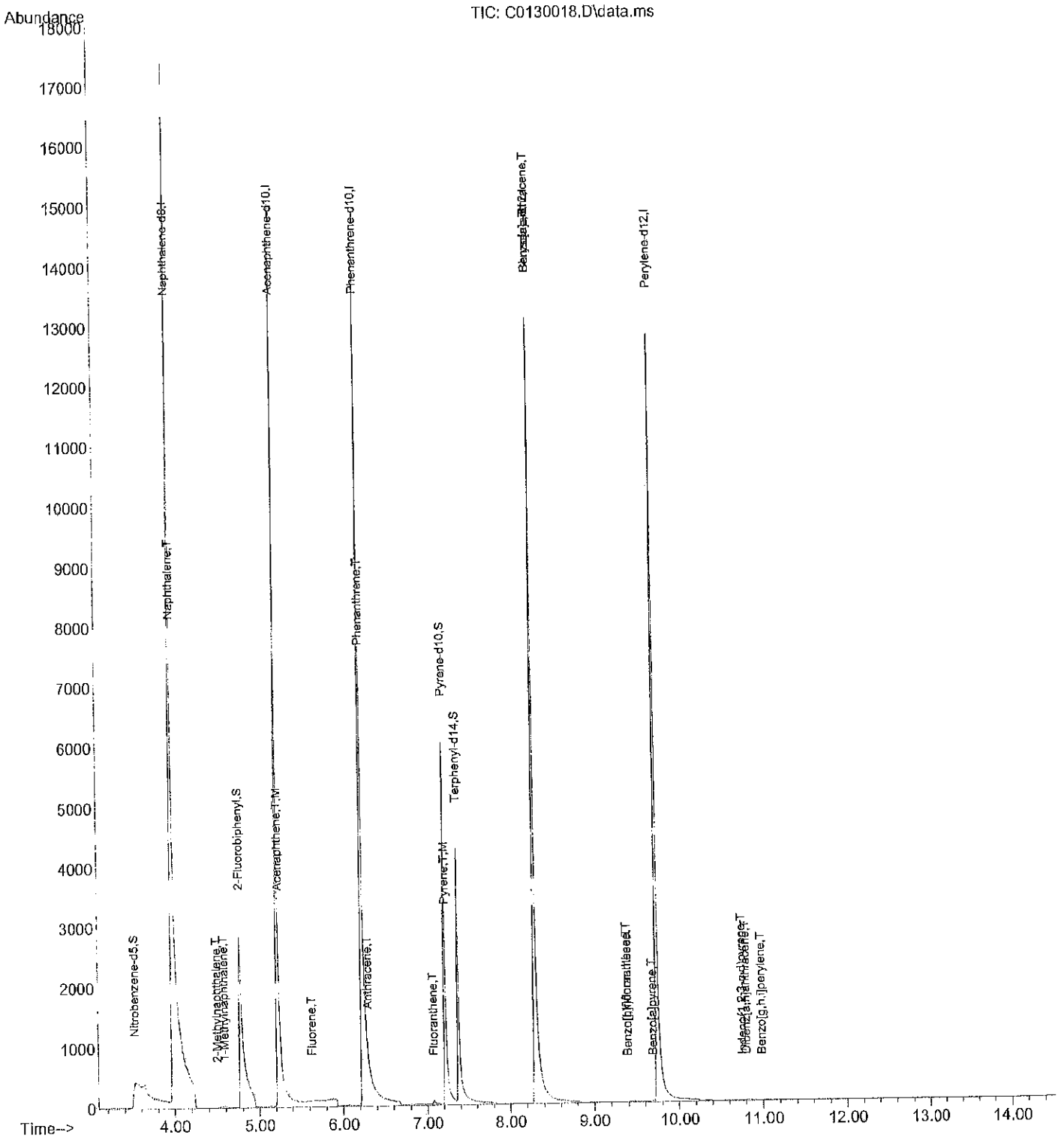
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.976	136	33457	2000.00	ppb	0.00
6) Acenaphthene-d10	5.223	164	17580	2000.00	ppb	0.00
10) Phenanthrene-d10	6.224	188	23437	2000.00	ppb	0.00
17) Chrysene-d12	8.294	240	20876	2000.00	ppb	0.00
21) Perylene-d12	9.738	264	20362	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.523	82	605	114.28	ppb	-0.04
Spiked Amount 1000.000	Range 24 - 92		Recovery = 11.43%#			
7) 2-Fluorobiphenyl	4.773	172	9726	865.59	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 86.56%			
11) Pyrene-d10	7.214	212	7971	860.70	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 86.07%			
18) Terphenyl-d14	7.376	244	5662	815.27	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 81.53%			
Target Compounds						Qvalue
3) Naphthalene	3.988	128	106	6.75	ppb	100
4) 2-Methylnaphthalene	4.500	142	1	0.10	ppb	100
5) 1-Methylnaphthalene	4.586	142	30	2.65	ppb	100
8) Acenaphthylene	5.122	152	30	Below Cal		100
9) Acenaphthene	5.238	153	39	3.50	ppb	100
12) Fluorene	5.631	166	15	1.62	ppb	100
13) Phenanthrene	6.235	178	105	9.84	ppb	100
14) Anthracene	6.298	178	51	3.83	ppb	100
15) Fluoranthene	7.074	202	112	9.47	ppb	100
16) Pyrene	7.225	202	251	20.37	ppb	100
19) Benzo[a]anthracene	8.294	228	77	7.93	ppb	100
20) Chrysene	8.294	228	77	~~7.69 ppb~~	q	100
22) Benzo[b]fluoranthene	9.391	252	12	1.10	ppb	100
23) Benzo(j,k)fluoranthene	9.391	252	12	~~1.10 ppb~~	q	100
24) Benzo[a]pyrene	9.687	252	17	1.67	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.759	276	3	0.29	ppb	100
26) Dibenz[a,h]anthracene	10.806	278	4	0.47	ppb	100
27) Benzo[g,h,i]perylene	10.989	276	2	0.24	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/2/15 ZM

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130018.D
Acq On : 30 Jan 2015 3:43 pm
Operator :
Sample : 01-217-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jan 30 15:59:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130019.D
Acq On : 30 Jan 2015 4:04 pm
Operator :
Sample : 01-217-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jan 30 16:19:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

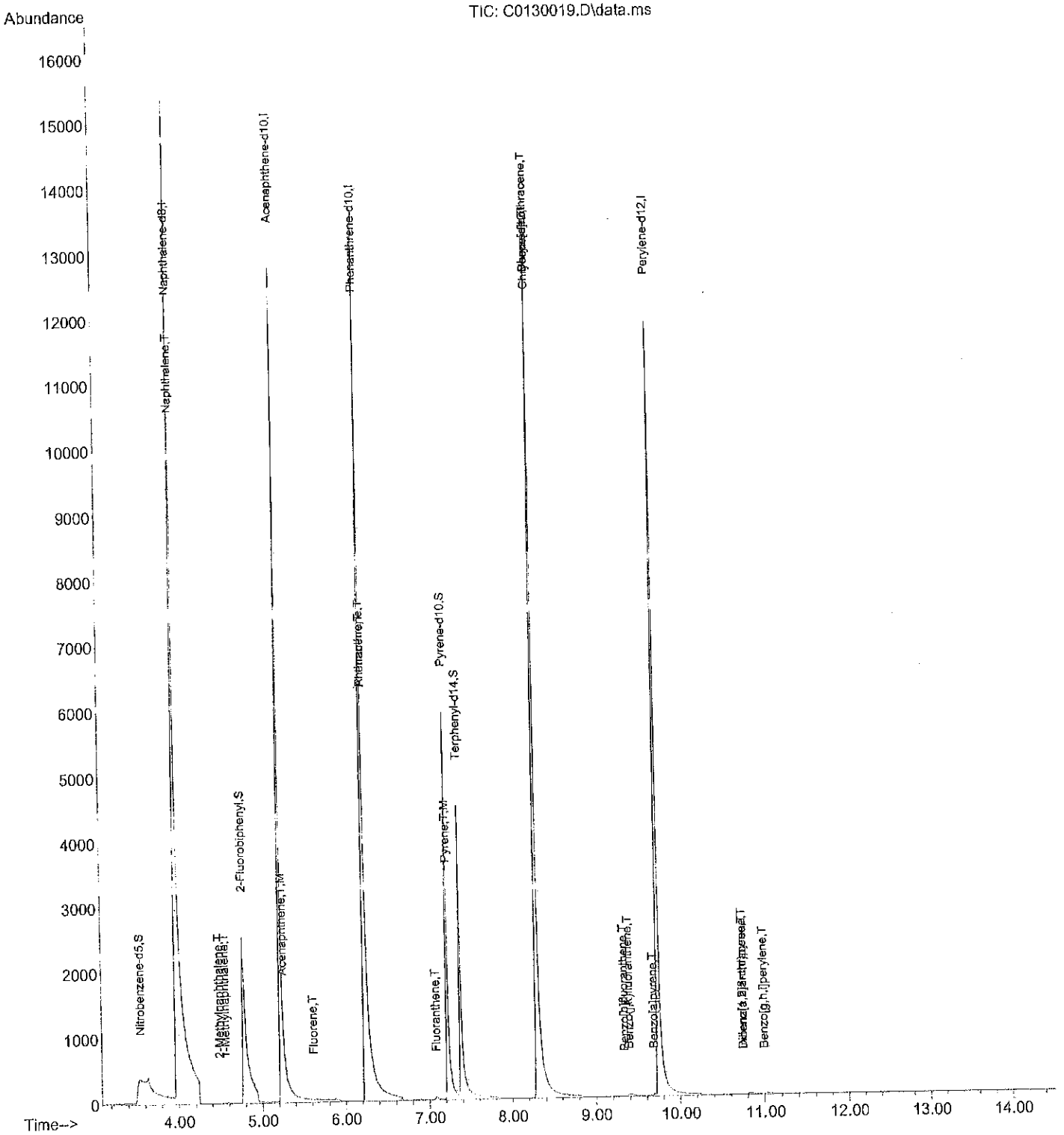
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.978	136	33199	2000.00	ppb	0.00
6) Acenaphthene-d10	5.224	164	16986	2000.00	ppb	0.00
10) Phenanthrene-d10	6.225	188	24377	2000.00	ppb	0.00
17) Chrysene-d12	8.296	240	22940	2000.00	ppb	0.00
21) Perylene-d12	9.735	264	20637	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.548	82	865	164.67	ppb	-0.02
Spiked Amount 1000.000	Range 24 - 92		Recovery = 16.47%#			
7) 2-Fluorobiphenyl	4.774	172	8914	821.07	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 82.11%			
11) Pyrene-d10	7.213	212	8392	871.21	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 87.12%			
18) Terphenyl-d14	7.376	244	5868	768.91	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 76.89%			
Target Compounds						Qvalue
3) Naphthalene	3.984	128	24	1.54	ppb	100
4) 2-Methylnaphthalene	4.489	142	2	0.20	ppb	100
5) 1-Methylnaphthalene	4.559	142	2	0.18	ppb	100
8) Acenaphthylene	5.123	152	18	Below Cal		100
9) Acenaphthene	5.254	153	18	1.67	ppb	100
12) Fluorene	5.617	166	6	0.62	ppb	100
13) Phenanthrene	6.240	178	70	6.31	ppb	100
14) Anthracene	6.240	178	70	5.05	ppb	100
15) Fluoranthene	7.080	202	100	8.13	ppb	100
16) Pyrene	7.225	202	150	11.71	ppb	100
19) Benzo[a]anthracene	8.292	228	104	9.75	ppb	100
20) Chrysene	8.292	228	104	~~9.45~~	~~ppb~~ ϕ	100
22) Benzo[b]fluoranthene	9.337	252	4	0.36	ppb	100
23) Benzo(j,k)fluoranthene	9.392	252	40	3.63	ppb	100
24) Benzo[a]pyrene	9.684	252	47	4.57	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.748	276	2	0.19	ppb	100
26) Dibenz[a,h]anthracene	10.748	278	1	0.12	ppb	100
27) Benzo[g,h,i]perylene	10.998	276	2	0.23	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/2/15 ZM

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130019.D
Acq On : 30 Jan 2015 4:04 pm
Operator :
Sample : 01-217-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jan 30 16:19:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130014.D
Acq On : 30 Jan 2015 2:17 pm
Operator :
Sample : MB0130S1
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 30 14:32:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.977	136	38213	2000.00	ppb	0.00
6) Acenaphthene-d10	5.224	164	20876	2000.00	ppb	0.00
10) Phenanthrene-d10	6.227	188	34239	2000.00	ppb	0.00
17) Chrysene-d12	8.298	240	29984	2000.00	ppb	0.00
21) Perylene-d12	9.738	264	27249	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.536	82	2013	332.92	ppb	-0.03
Spiked Amount 1000.000	Range 24 - 92		Recovery = 33.29%			
7) 2-Fluorobiphenyl	4.773	172	11485	860.76	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 86.08%			
11) Pyrene-d10	7.214	212	11731	867.07	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 86.71%			
18) Terphenyl-d14	7.377	244	8492	851.34	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 85.13%			
Target Compounds						Qvalue
3) Naphthalene	3.983	128	23	1.28	ppb	100
4) 2-Methylnaphthalene	4.508	142	2	0.17	ppb	100
5) 1-Methylnaphthalene	4.555	142	3	0.23	ppb	100
8) Acenaphthylene	5.131	152	37	Below Cal		100
9) Acenaphthene	5.278	153	12	0.91	ppb	100
12) Fluorene	5.617	166	5	0.37	ppb	100
13) Phenanthrene	6.235	178	57	3.66	ppb	100
14) Anthracene	6.305	178	7	0.36	ppb	100
15) Fluoranthene	7.075	202	19	1.10	ppb	100
16) Pyrene	7.226	202	45	2.50	ppb	100
19) Benzo[a]anthracene	8.295	228	131	9.40	ppb	100
20) Chrysene	8.295	228	131	~~9.11 ppb~~		100
22) Benzo[b]fluoranthene	9.398	252	20	1.37	ppb	100
23) Benzo(j,k)fluoranthene	9.398	252	20	1.37	ppb	100
24) Benzo[a]pyrene	9.687	252	14	1.03	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.751	276	3	0.21	ppb	100
26) Dibenz[a,h]anthracene	10.771	278	2	0.18	ppb	100
27) Benzo[g,h,i]perylene	10.997	276	3	0.27	ppb	100

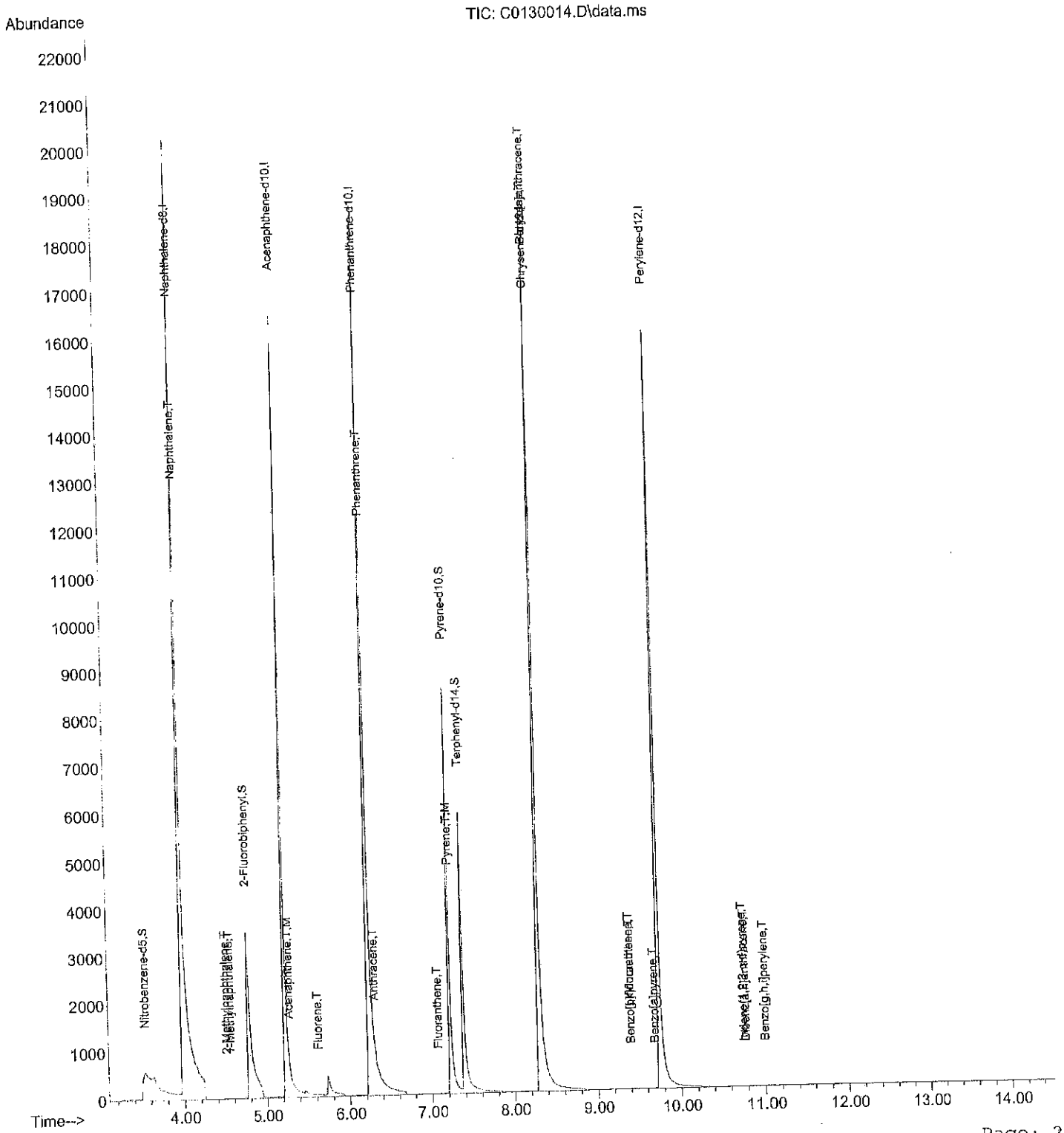
(#) = qualifier out of range (m) = manual integration (+) = signals summed

x 2/2/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130014.D
Acq On : 30 Jan 2015 2:17 pm
Operator :
Sample : MB0130S1
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 30 14:32:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150130\
Data File : C0130015.D
Acq On : 30 Jan 2015 2:38 pm
Operator :
Sample : SB0130S1
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jan 30 14:53:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.973	136	39608	2000.00	ppb	0.00
6) Acenaphthene-d10	5.224	164	20492	2000.00	ppb	0.00
10) Phenanthrene-d10	6.222	188	33270	2000.00	ppb	0.00
17) Chrysene-d12	8.293	240	26024	2000.00	ppb	0.00
21) Perylene-d12	9.738	264	23451	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.520	82	1841	293.75	ppb	-0.04
Spiked Amount 1000.000	Range 24 - 92		Recovery = 29.38%			
7) 2-Fluorobiphenyl	4.770	172	12206	931.94	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 93.19%#			
11) Pyrene-d10	7.214	212	10563	803.48	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 80.35%			
18) Terphenyl-d14	7.371	244	8487	980.30	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 98.03%#			
Target Compounds						Qvalue
3) Naphthalene	3.985	128	9002	484.46	ppb	100
4) 2-Methylnaphthalene	4.500	142	3574	300.82	ppb	100
5) 1-Methylnaphthalene	4.563	142	7336	548.35	ppb	100
8) Acenaphthylene	5.116	152	9073	2196.40	ppb	100
9) Acenaphthene	5.239	153	5863	451.18	ppb	100
12) Fluorene	5.601	166	6202	471.65	ppb	100
13) Phenanthrene	6.237	178	6370	420.53	ppb	100
14) Anthracene	6.276	178	8511	449.89	ppb	100
15) Fluoranthene	7.063	202	7573	451.25	ppb	100
16) Pyrene	7.226	202	7934	453.65	ppb	100
19) Benzo[a]anthracene	8.277	228	5245	433.53	ppb	100
20) Chrysene	8.316	228	6181	495.32	ppb	100
22) Benzo[b]fluoranthene	9.363	252	4443	354.01	ppb	100
23) Benzo(j,k)fluoranthene	9.387	252	6127	488.68	ppb	100
24) Benzo[a]pyrene	9.679	252	4656	398.26	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.757	276	5768	480.12	ppb	100
26) Dibenz[a,h]anthracene	10.780	278	4525	460.68	ppb	100
27) Benzo[g,h,i]perylene	10.995	276	4804	495.16	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

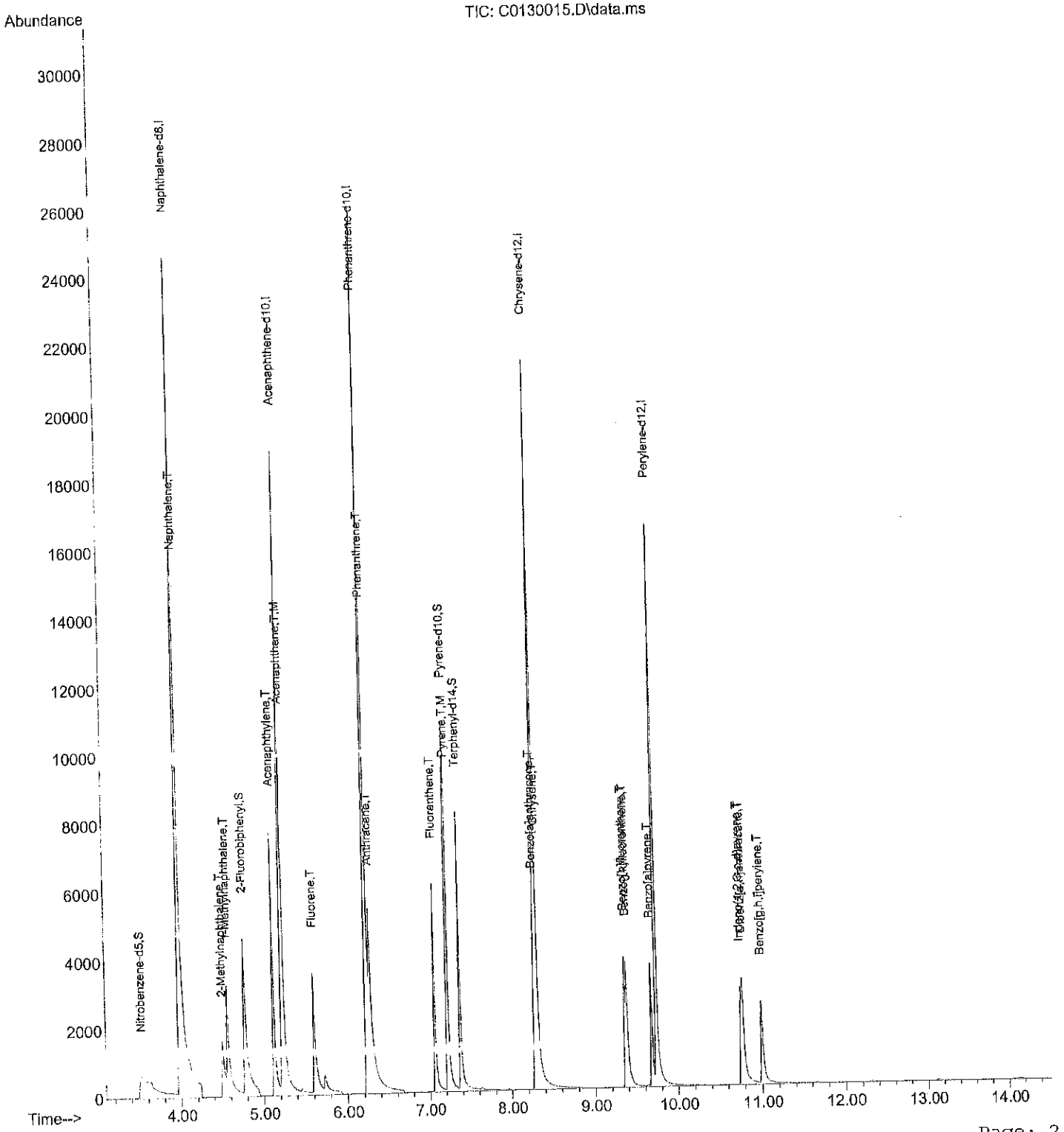
2/2/15 SM

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150130\
Data File : C0130015.D
Acq On : 30 Jan 2015 2:38 pm
Operator :
Sample : SB0130S1
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jan 30 14:53:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

TIC: C0130015.D\data.ms



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130016.D
Acq On : 30 Jan 2015 3:00 pm
Operator :
Sample : SB0130S1 DUP
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 30 15:15:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.973	136	27075	2000.00	ppb	0.00
6) Acenaphthene-d10	5.223	164	14546	2000.00	ppb	0.00
10) Phenanthrene-d10	6.225	188	23065	2000.00	ppb	0.00
17) Chrysene-d12	8.296	240	23080	2000.00	ppb	0.00
21) Perylene-d12	9.735	264	21885	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.526	82	1681	392.39	ppb	-0.04
Spiked Amount 1000.000	Range 24 - 92		Recovery = 39.24%			
7) 2-Fluorobiphenyl	4.769	172	8549	919.54	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 91.95%#			
11) Pyrene-d10	7.213	212	8606	944.25	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.42%			
18) Terphenyl-d14	7.376	244	6578	856.72	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 85.67%			
Target Compounds						Qvalue
3) Naphthalene	3.984	128	6219	489.62	ppb	100
4) 2-Methylnaphthalene	4.500	142	2384	293.55	ppb	100
5) 1-Methylnaphthalene	4.562	142	4678	511.53	ppb	100
8) Acenaphthylene	5.115	152	6363	2155.71	ppb	100
9) Acenaphthene	5.239	153	4183	453.48	ppb	100
12) Fluorene	5.601	166	4413	484.09	ppb	100
13) Phenanthrene	6.240	178	4388	417.85	ppb	100
14) Anthracene	6.275	178	6621	504.83	ppb	100
15) Fluoranthene	7.062	202	5809	499.29	ppb	100
16) Pyrene	7.225	202	6098	502.94	ppb	100
19) Benzo[a]anthracene	8.280	228	4395	409.61	ppb	100
20) Chrysene	8.319	228	5945	537.18	ppb	100
22) Benzo[b]fluoranthene	9.364	252	4025	343.65	ppb	100
23) Benzo(j,k)fluoranthene	9.388	252	6042	516.38	ppb	100
24) Benzo[a]pyrene	9.681	252	4973	455.81	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.757	276	4890	436.16	ppb	100
26) Dibenz[a,h]anthracene	10.784	278	3927	428.41	ppb	100
27) Benzo[g,h,i]perylene	10.999	276	4132	456.37	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

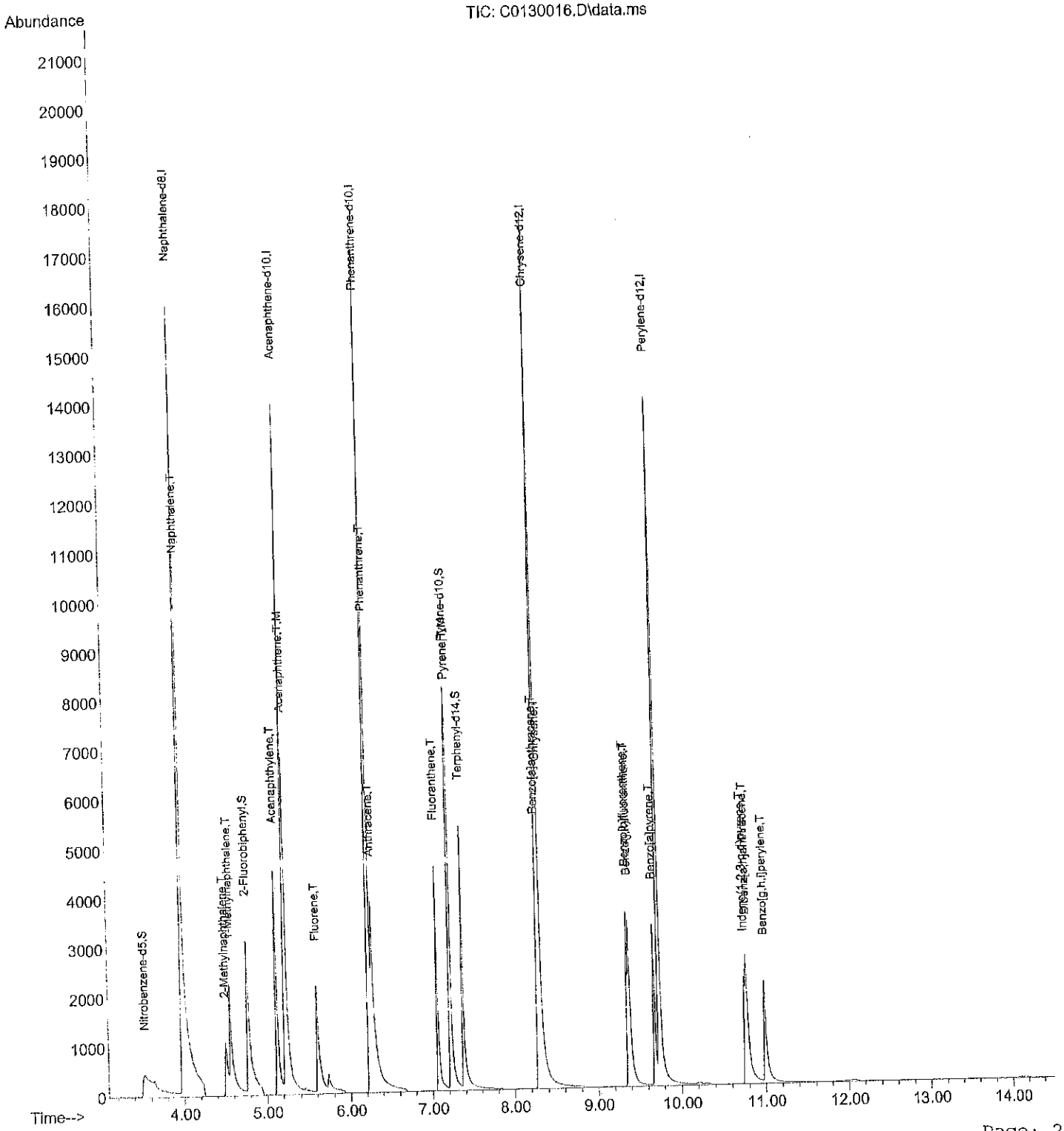
2/2/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150130\
Data File : C0130016.D
Acq On : 30 Jan 2015 3:00 pm
Operator :
Sample : SB0130S1 DUP
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 30 15:15:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

TIC: C0130016.D\data.ms



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150130\
Data File : C0130012.D
Acq On : 30 Jan 2015 1:34 pm
Operator :
Sample : ICVPAH0130
Misc : SV4-51-26
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 30 13:53:23 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	87	0.00
2	S	Nitrobenzene-d5	500.000	157.606	68.5#	115	-0.03
3	T	Naphthalene	500.000	515.406	-3.1	91	0.00
4	T	2-Methylnaphthalene	500.000	459.153	8.2	121	0.00
5	T	1-Methylnaphthalene	500.000	555.485	-11.1	91	0.00
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	86	0.00
7	S	2-Fluorobiphenyl	500.000	476.531	4.7	95	0.00
8	T	Acenaphthylene	500.000	495.025	1.0	77	0.00
9	T,M	Acenaphthene	500.000	510.177	-2.0	90	0.00
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	84	0.00
11	S	Pyrene-d10	500.000	488.465	2.3	90	0.00
12	T	Fluorene	500.000	522.814	-4.6	90	0.00
13	T	Phenanthrene	500.000	467.882	6.4	88	0.00
14	T	Anthracene	500.000	488.256	2.3	86	0.00
15	T	Fluoranthene	500.000	519.735	-3.9	90	0.00
16	T,M	Pyrene	500.000	516.852	-3.4	90	0.00
17	I	Chrysene-d12	2000.000	2000.000	0.0	83	0.00
18	S	Terphenyl-d14	500.000	537.085	-7.4	93	0.00
19	T	Benzo[a]anthracene	500.000	471.881	5.6	88	0.00
20	T	Chrysene	500.000	564.764	-13.0	87	0.00
21	I	Perylene-d12	2000.000	2000.000	0.0	84	0.00
22	T	Benzo[b]fluoranthene	500.000	431.080	13.8	87	0.00
23	T	Benzo(j,k)fluoranthene	500.000	577.955	-15.6	90	0.00
24	T	Benzo[a]pyrene	500.000	526.100	-5.2	91	0.00
25	T	Indeno(1,2,3-c,d)pyrene	500.000	513.836	-2.8	93	0.00
26	T	Dibenz[a,h]anthracene	500.000	490.001	2.0	90	0.00
27	T	Benzo[g,h,i]perylene	500.000	512.970	-2.6	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150130\
Data File : C0130012.D
Acq On : 30 Jan 2015 1:34 pm
Operator :
Sample : ICVPAH0130
Misc : SV4-51-26
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 30 13:53:23 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.973	136	43107	2000.00	ppb	0.00
6) Acenaphthene-d10	5.222	164	22740	2000.00	ppb	0.00
10) Phenanthrene-d10	6.223	188	37888	2000.00	ppb	0.00
17) Chrysene-d12	8.300	240	32702	2000.00	ppb	0.00
21) Perylene-d12	9.739	264	27052	2000.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.538	82	1075	157.61	ppb	-0.03
Spiked Amount 1000.000	Range 24 - 92		Recovery = 15.76%#			
7) 2-Fluorobiphenyl	4.770	172	6926	476.53	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 47.65%			
11) Pyrene-d10	7.218	212	7313	488.46	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 48.85%			
18) Terphenyl-d14	7.381	244	5843	537.08	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 53.71%			
Target Compounds						Qvalue
3) Naphthalene	3.985	128	10423	515.41	ppb	100
4) 2-Methylnaphthalene	4.493	142	5937m	459.15	ppb	
5) 1-Methylnaphthalene	4.559	142	8088	555.48	ppb	100
8) Acenaphthylene	5.137	152	3046	495.02	ppb	100
9) Acenaphthene	5.237	153	7357	510.18	ppb	100
12) Fluorene	5.600	166	7829	522.81	ppb	100
13) Phenanthrene	6.238	178	8071	467.88	ppb	100
14) Anthracene	6.274	178	10519	488.26	ppb	100
15) Fluoranthene	7.067	202	9933	519.73	ppb	100
16) Pyrene	7.230	202	10294	516.85	ppb	100
19) Benzo[a]anthracene	8.285	228	7174	471.88	ppb	100
20) Chrysene	8.324	228	8856	564.76	ppb	100
22) Benzo[b]fluoranthene	9.369	252	6241	431.08	ppb	100
23) Benzo(j,k)fluoranthene	9.392	252	8359	577.95	ppb	100
24) Benzo[a]pyrene	9.685	252	7095	526.10	ppb	100
25) Indeno(1,2,3-c,d)pyrene	10.759	276	7121	513.84	ppb	100
26) Dibenz[a,h]anthracene	10.782	278	5552	490.00	ppb	100
27) Benzo[g,h,i]perylene	11.001	276	5741	512.97	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

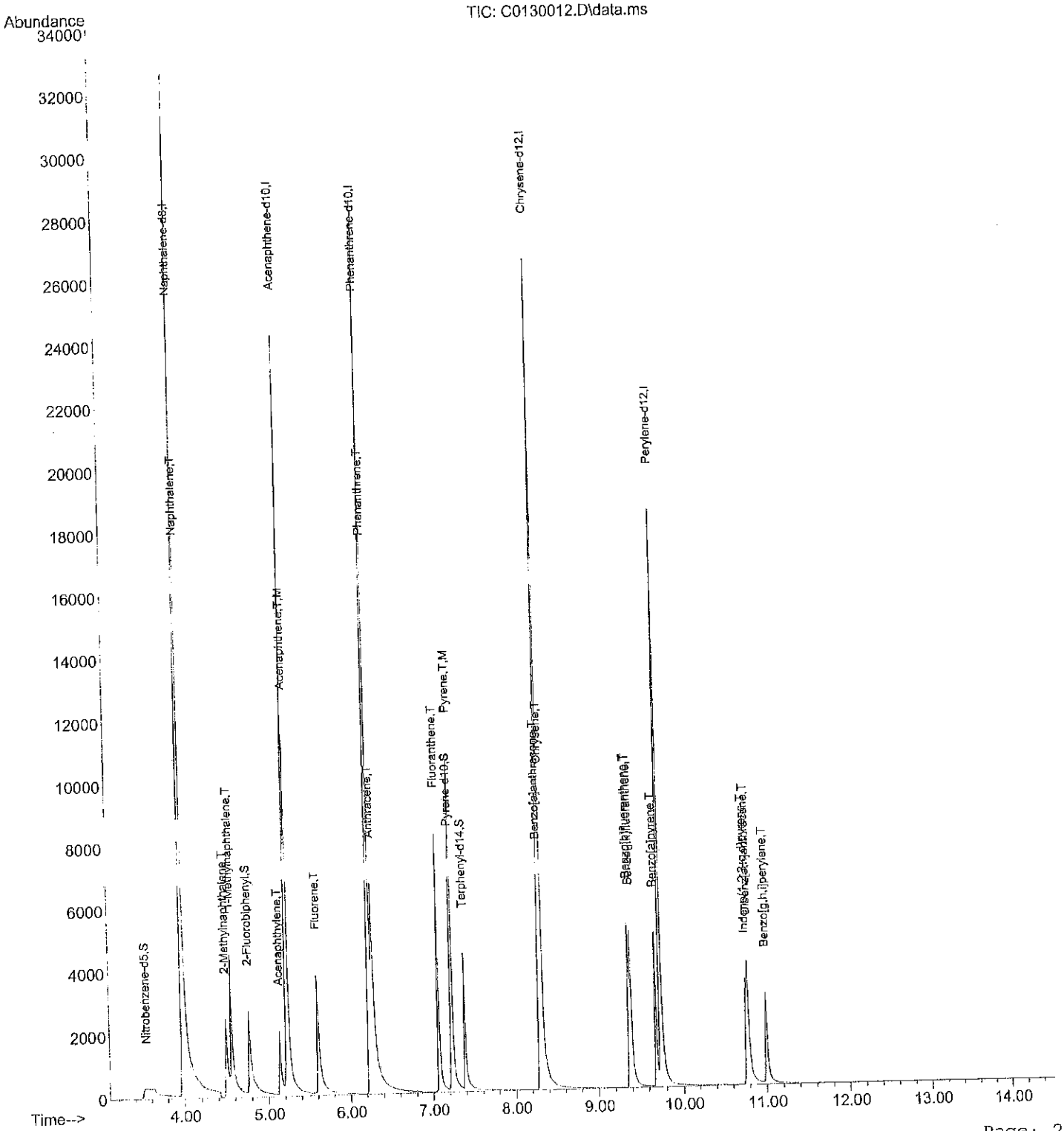
1/30/15

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150130\
Data File : C0130012.D
Acq On : 30 Jan 2015 1:34 pm
Operator :
Sample : ICVPAH0130
Misc : SV4-51-26
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 30 13:53:23 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0130.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Jan 30 13:02:36 2015
Response via : Initial Calibration

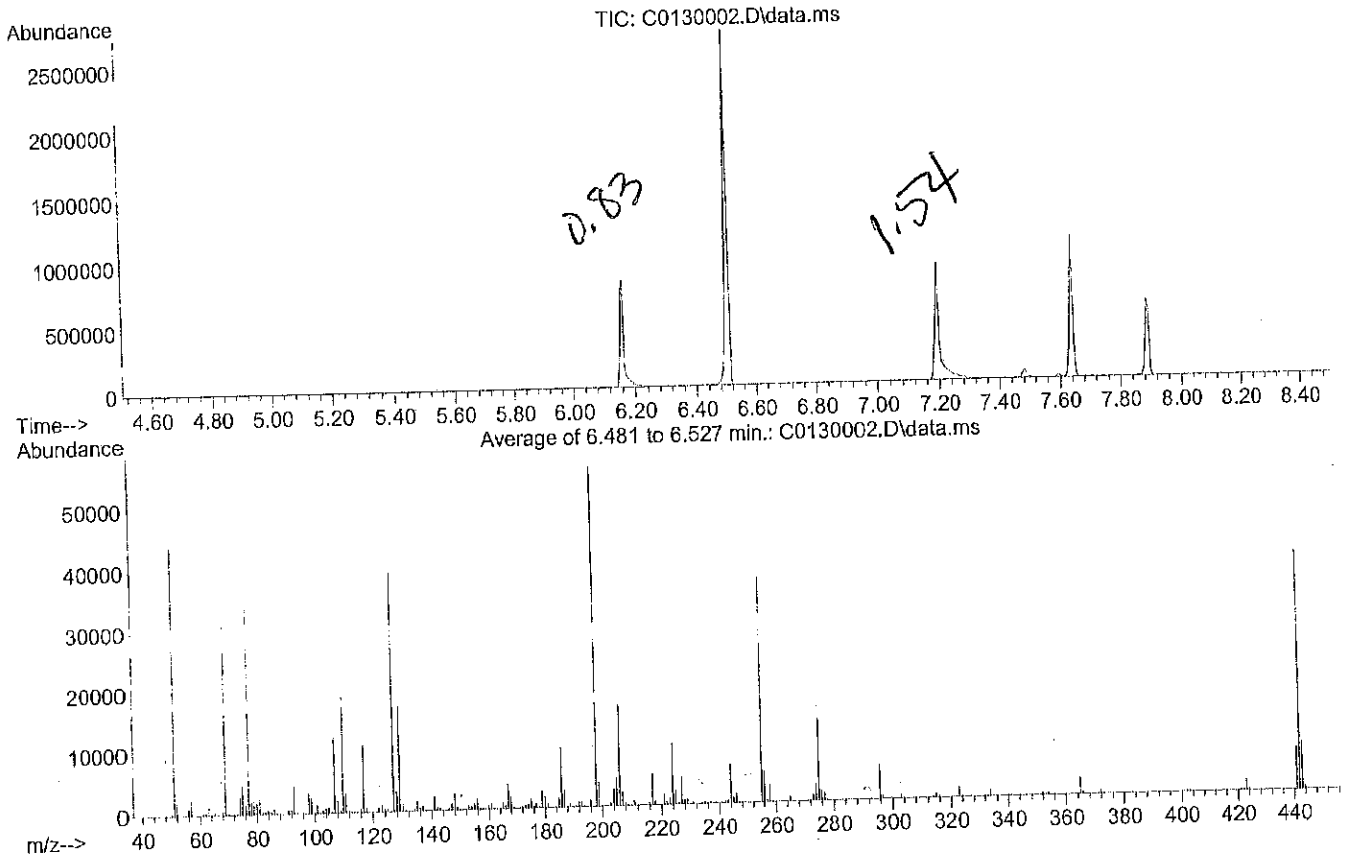
TIC: C0130012.D\data.ms



Data Path : X:\SEMIVOLS\COREY\DATA\C150130\
Data File : C0130002.D
Acq On : 30 Jan 2015 9:15 am
Operator :
Sample : DFTPP
Misc : SV4-51-15
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0129.M
Title : PAH'S BY SIMS
Last Update : Thu Jan 29 15:26:56 2015



Spectrum Information: Average of 6.481 to 6.527 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	78.7	44012	PASS
68	69	0.00	2	1.7	538	PASS
69	198	0.00	100	55.8	31198	PASS
70	69	0.00	2	0.4	121	PASS
127	198	25	75	70.5	39424	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	55915	PASS
199	198	5	9	7.3	4095	PASS
275	198	10	30	24.5	13714	PASS
365	198	0.75	100	5.3	2939	PASS
441	443	0.01	100	88.3	6899	PASS
442	198	40	110	70.4	39377	PASS
443	442	15	24	19.8	7816	PASS

Total Cadmium Data

P150129F1B. Mean Only Report 1/30/2015, 8:46:09 AM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	1/29/2015, 9:31:53 AM
Standard 5	Cd 228.802	10.000	ppb	1/29/2015, 9:47:32 AM
Standard 4	Cd 228.802	100.00	ppb	1/29/2015, 9:52:35 AM
Standard 3	Cd 228.802	1000.0	ppb	1/29/2015, 9:57:38 AM
Standard 2	Cd 228.802	2500.0	ppb	1/29/2015, 10:02:44 AM
Standard 1	Cd 228.802	5000.0	ppb	1/29/2015, 10:07:49 AM
Initial Calib Verif	Cd 228.802	1014.3	ppb	1/29/2015, 10:26:07 AM
LLICV	Cd 228.802	10.166	ppb	1/29/2015, 10:33:08 AM
Initial Calib Blank	Cd 228.802	-2.131uv	ppb	1/29/2015, 10:58:44 AM
Cont Calib Verif	Cd 228.802	1020.1	ppb	1/29/2015, 11:03:49 AM
Cont Calib Blank	Cd 228.802	-0.916uv	ppb	1/29/2015, 11:13:07 AM
ICSA	Cd 228.802	-1.783uv	ppb	1/29/2015, 11:18:10 AM
ICSAB	Cd 228.802	921.06	ppb	1/29/2015, 11:23:14 AM
MB0129SM1	Cd 228.802	-2.488uv	ppb	1/29/2015, 11:35:27 AM
SB0129SM1	Cd 228.802	933.01	ppb	1/29/2015, 11:40:35 AM
01-201-01a	Cd 228.802	3.010	ppb	1/29/2015, 11:45:41 AM
01-201-01a D	Cd 228.802	0.068uv	ppb	1/29/2015, 11:50:48 AM
01-201-01a L	Cd 228.802	-2.305uv	ppb	1/29/2015, 11:55:54 AM
01-201-01a MS	Cd 228.802	952.28	ppb	1/29/2015, 12:00:57 PM
01-201-01a MSD	Cd 228.802	962.88	ppb	1/29/2015, 12:06:02 PM
01-187-02a	Cd 228.802	23.359	ppb	1/29/2015, 12:11:07 PM
Cont Calib Verif	Cd 228.802	1049.9	ppb	1/29/2015, 1:08:46 PM
Cont Calib Blank	Cd 228.802	-0.561uv	ppb	1/29/2015, 1:21:40 PM
LLCCV	Cd 228.802	9.475	ppb	1/29/2015, 1:26:46 PM
01-175-01	Cd 228.802	37.110	ppb	1/29/2015, 1:35:26 PM
01-175-02	Cd 228.802	27.231	ppb	1/29/2015, 1:40:34 PM
01-183-20a	Cd 228.802	1.120uv	ppb	1/29/2015, 1:45:41 PM
blk	Cd 228.802	-0.858uv	ppb	1/29/2015, 2:33:33 PM
MB0129TM1	Cd 228.802	-0.836uv	ppb	1/29/2015, 2:38:37 PM
SB0129TM1	Cd 228.802	1012.1	ppb	1/29/2015, 2:43:40 PM
01-135-01a	Cd 228.802	0.511	ppb	1/29/2015, 2:48:44 PM
01-135-01a D	Cd 228.802	-1.414uv	ppb	1/29/2015, 2:53:49 PM
01-135-01a L	Cd 228.802	-2.223uv	ppb	1/29/2015, 2:58:52 PM
BLK	Cd 228.802	-3.333uv	ppb	1/29/2015, 3:03:55 PM
Cont Calib Verif	Cd 228.802	1046.2	ppb	1/29/2015, 3:08:59 PM
Cont Calib Blank	Cd 228.802	-0.772uv	ppb	1/29/2015, 3:43:36 PM
LLCCV	Cd 228.802	9.312	ppb	1/29/2015, 3:56:23 PM
01-135-01a MS	Cd 228.802	1016.8	ppb	1/29/2015, 4:08:01 PM
01-135-01a MSD	Cd 228.802	1007.7	ppb	1/29/2015, 4:13:07 PM
01-135-02a	Cd 228.802	-0.817uv	ppb	1/29/2015, 4:37:11 PM
01-135-03a	Cd 228.802	-1.691uv	ppb	1/29/2015, 4:42:14 PM
01-135-04a	Cd 228.802	1.130	ppb	1/29/2015, 4:47:19 PM
01-135-05a	Cd 228.802	50.266	ppb	1/29/2015, 4:52:23 PM
01-135-06a	Cd 228.802	0.981	ppb	1/29/2015, 4:57:28 PM
01-135-07a	Cd 228.802	0.373	ppb	1/29/2015, 5:02:30 PM
01-135-08a	Cd 228.802	1.545	ppb	1/29/2015, 5:07:35 PM
01-135-09a	Cd 228.802	5.973	ppb	1/29/2015, 5:12:38 PM
Cont Calib Verif	Cd 228.802	1018.3	ppb	1/29/2015, 5:17:42 PM
Cont Calib Blank	Cd 228.802	-2.096uv	ppb	1/29/2015, 5:34:19 PM
LLCCV	Cd 228.802	9.974	ppb	1/29/2015, 5:52:35 PM
01-135-10a	Cd 228.802	13.585	ppb	1/29/2015, 6:02:33 PM
MB0129TM2	Cd 228.802	-1.723uv	ppb	1/29/2015, 6:07:39 PM

P150129F1B. Mean Only Report 1/30/2015, 8:46:09 AM

Sample	Label	Calc Conc.	Units	Date/Time
SB0129TM2	Cd 228.802	986.15	ppb	1/29/2015, 6:12:46 PM
01-135-11a	Cd 228.802	965.51	ppb	1/29/2015, 6:17:51 PM
01-135-12a	Cd 228.802	43.303	ppb	1/29/2015, 6:22:55 PM
01-135-13a	Cd 228.802	47.344	ppb	1/29/2015, 6:28:00 PM
01-135-14a	Cd 228.802	382.52	ppb	1/29/2015, 6:33:05 PM
01-141-01	Cd 228.802	2.447	ppb	1/29/2015, 6:38:11 PM
Cont Calib Verif	Cd 228.802	1034.3	ppb	1/29/2015, 6:43:17 PM
Cont Calib Blank	Cd 228.802	-0.678uv	ppb	1/29/2015, 6:48:46 PM
LLCCV	Cd 228.802	7.754	ppb	1/29/2015, 7:06:32 PM
01-217-01(0129SM1)	Cd 228.802	7.569	ppb	1/29/2015, 7:13:19 PM
01-217-02	Cd 228.802	1.420	ppb	1/29/2015, 7:18:23 PM
01-217-03	Cd 228.802	-0.264uv	ppb	1/29/2015, 7:23:26 PM
BLK	Cd 228.802	0.245uv	ppb	1/29/2015, 7:28:30 PM
Cont Calib Verif	Cd 228.802	1026.7	ppb	1/29/2015, 7:33:34 PM
Cont Calib Blank	Cd 228.802	1.115uv	ppb	1/29/2015, 7:38:39 PM
LLCCV	Cd 228.802	8.965	ppb	1/29/2015, 7:43:44 PM

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 4, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1501-238

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on January 30, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

Case Narrative

Samples were collected on January 30, 2015 and received by the laboratory on January 30, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/Benzene EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

PAHs EPA 8270D/SIM Analysis

Sample EX-49-8.5 and the method blank had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-46-8.0	01-238-01	Soil	1-30-15	1-30-15	
EX-47-8.0	01-238-02	Soil	1-30-15	1-30-15	
EX-48-8.5	01-238-03	Soil	1-30-15	1-30-15	
EX-49-8.5	01-238-04	Soil	1-30-15	1-30-15	
Trip Blank-013015	01-238-05	Water	1-30-15	1-30-15	

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-46-8.0**					
Laboratory ID:	01-238-01					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*68-123*				
Client ID:	**EX-47-8.0**					
Laboratory ID:	01-238-02					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*68-123*				
Client ID:	**EX-48-8.5**					
Laboratory ID:	01-238-03					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*68-123*				
Client ID:	**EX-49-8.5**					
Laboratory ID:	01-238-04					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*68-123*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank-013015**					
Laboratory ID:	01-238-05					
Benzene	**ND**	1.0	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	100	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*71-113*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-46-8.0**					
Laboratory ID:	01-238-01					
Diesel Range Organics	**ND**	33	NWTPH-Dx	2-2-15	2-3-15	X1
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	2-2-15	2-3-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**EX-47-8.0**					
Laboratory ID:	01-238-02					
Diesel Range Organics	**ND**	29	NWTPH-Dx	2-2-15	2-3-15	X1
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	2-2-15	2-3-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**EX-48-8.5**					
Laboratory ID:	01-238-03					
Diesel Range Organics	**ND**	27	NWTPH-Dx	2-2-15	2-3-15	X1
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	2-2-15	2-3-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**EX-49-8.5**					
Laboratory ID:	01-238-04					
Diesel Range Organics	**ND**	28	NWTPH-Dx	2-2-15	2-3-15	X1
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	2-2-15	2-3-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-46-8.0**					
Laboratory ID:	01-238-01					
Benzo[a]anthracene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Chrysene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[b]fluoranthene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo(j,k)fluoranthene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[a]pyrene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270D/SIM	2-2-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*104*	*32 - 114*				
Pyrene-d10	*93*	*33 - 121*				
Terphenyl-d14	*81*	*31 - 116*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-47-8.0**					
Laboratory ID:	01-238-02					
Benzo[a]anthracene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Chrysene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[b]fluoranthene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo(j,k)fluoranthene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[a]pyrene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Dibenz[a,h]anthracene	**ND**	0.0078	EPA 8270D/SIM	2-2-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*100*	*32 - 114*				
Pyrene-d10	*91*	*33 - 121*				
Terphenyl-d14	*79*	*31 - 116*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-48-8.5**					
Laboratory ID:	01-238-03					
Benzo[a]anthracene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Chrysene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[b]fluoranthene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo(j,k)fluoranthene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[a]pyrene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270D/SIM	2-2-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*106*	*32 - 114*				
Pyrene-d10	*92*	*33 - 121*				
Terphenyl-d14	*78*	*31 - 116*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-49-8.5**					
Laboratory ID:	01-238-04					
Benzo[a]anthracene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Chrysene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo(j,k)fluoranthene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270D/SIM	2-2-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*115*	*32 - 114*				Q
Pyrene-d10	*96*	*33 - 121*				
Terphenyl-d14	*81*	*31 - 116*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-238-01					
Client ID:	**EX-46-8.0**					
Cadmium	**ND**	0.65	6010C	2-3-15	2-3-15	
Lab ID:	01-238-02					
Client ID:	**EX-47-8.0**					
Cadmium	**ND**	0.59	6010C	2-3-15	2-3-15	
Lab ID:	01-238-03					
Client ID:	**EX-48-8.5**					
Cadmium	**ND**	0.54	6010C	2-3-15	2-3-15	
Lab ID:	01-238-04					
Client ID:	**EX-49-8.5**					
Cadmium	**ND**	0.55	6010C	2-3-15	2-3-15	

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0131S1					
Benzene	**ND**	0.020	EPA 8021B	1-31-15	1-31-15	
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-15	1-31-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*68-123*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-217-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*101*	*106*	*68-123*			
SPIKE BLANKS											
Laboratory ID:	SB0131S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.955**	**1.01**	1.00	1.00		**96**	**101**	75-117	6	13	
Surrogate:											
Fluorobenzene						*91*	*96*	*68-123*			

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0131G-1	5.00	4.44	11	+/- 20%
CCVD0131G-2	5.00	4.42	12	+/- 20%

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

BENZENE
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0131B-1	50.0	51.6	-3	+/- 15%
Benzene	CCVD0131B-2	50.0	49.4	1	+/- 15%

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0203W1					
Benzene	**ND**	1.0	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	100	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*71-113*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-234-02										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**142**	**137**	NA	NA		NA		NA	4	30	
Surrogate:											
Fluorobenzene						*85*	*89*	*71-113*			
MATRIX SPIKES											
Laboratory ID:	01-234-02										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**49.1**	**51.7**	50.0	50.0	ND	**98**	**103**	82-120	5	14	
Surrogate:											
Fluorobenzene						*92*	*92*	*71-113*			

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0203G-1	5.00	4.47	11	+/- 20%
CCVD0203G-2	5.00	4.33	13	+/- 20%

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

BENZENE
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0203B-1	50.0	50.7	-1	+/- 15%
Benzene	CCVD0203B-2	50.0	47.5	5	+/- 15%

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	2-2-15	2-2-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	2-2-15	2-2-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-001-02									
	ORIG	DUP								
Mineral Oil	**45.7**	**ND**	NA	NA		NA	NA	NA	NA	X1
Surrogate:										
o-Terphenyl						*79* *64*	*50-150*			

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0202F-V2	100	99.1	0.9	+/-15%
CCV0202F-V3	100	103	-3.0	+/-15%
CCV0203F-T1	100	98.5	1.5	+/-15%
CCV0203F-T2	100	97.5	2.5	+/-15%

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0202S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-2-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*116*	*32 - 114*				Q
Pyrene-d10	*95*	*33 - 121*				
Terphenyl-d14	*85*	*31 - 116*				

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	01-238-04										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0981**	**0.0963**	0.0833	0.0833	ND	118	116	42 - 134	2	27	
Chrysene	**0.0850**	**0.0824**	0.0833	0.0833	ND	102	99	45 - 114	3	27	
Benzo[b]fluoranthene	**0.0847**	**0.0780**	0.0833	0.0833	ND	102	94	38 - 131	8	33	
Benzo(j,k)fluoranthene	**0.0772**	**0.0780**	0.0833	0.0833	ND	93	94	44 - 114	1	34	
Benzo[a]pyrene	**0.0855**	**0.0826**	0.0833	0.0833	ND	103	99	40 - 136	3	29	
Indeno(1,2,3-c,d)pyrene	**0.0877**	**0.0852**	0.0833	0.0833	ND	105	102	45 - 126	3	30	
Dibenz[a,h]anthracene	**0.0892**	**0.0873**	0.0833	0.0833	ND	107	105	46 - 121	2	28	
Surrogate:											
2-Fluorobiphenyl						*109*	*109*	*32 - 114*			
Pyrene-d10						*96*	*95*	*33 - 121*			
Terphenyl-d14						*80*	*80*	*31 - 116*			

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-3-15
Date Analyzed:	2-3-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0203SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 2-3-15
Date Analyzed: 2-3-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-203-16

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 2-3-15
Date Analyzed: 2-3-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-203-16

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**46.0**	92	**45.8**	92	0	

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV020215P	1.00	1.04	-4.0	+/- 10%
Cadmium	LLICV1020315P	0.0100	0.0108	-8.0	+/- 30%
Cadmium	CCV1020315P	1.00	1.03	-3.0	+/- 10%
Cadmium	CCV2020315P	1.00	1.03	-3.0	+/- 10%
Cadmium	CCV3020315P	1.00	1.02	-2.0	+/- 10%
Cadmium	LLCCV3020315P	0.0100	0.0111	-11	+/- 30%
Cadmium	CCV4020315P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV4020315P	0.0100	0.00930	7.0	+/- 30%
Cadmium	CCV5020315P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV5020315P	0.0100	0.00940	6.0	+/- 30%
Cadmium	CCV6020315P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV6020315P	0.0100	0.00979	2.1	+/- 30%
Cadmium	CCV7020315P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV7020315P	0.0100	0.0108	-7.9	+/- 30%
Cadmium	CCV8020315P	1.00	1.04	-4.0	+/- 10%
Cadmium	LLCCV8020315P	0.0100	0.0101	-1.0	+/- 30%

Date of Report: February 4, 2015
Samples Submitted: January 30, 2015
Laboratory Reference: 1501-238
Project: 5147-012-06

% MOISTURE

Date Analyzed: 2-2-15

Client ID	Lab ID	% Moisture
EX-46-8.0	01-238-01	23
EX-47-8.0	01-238-02	15
EX-48-8.5	01-238-03	8
EX-49-8.5	01-238-04	10

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS
Project Number: 5147-018-06
Project Name: SHELL TANIS FARM SITE
Project Manager: ABHIJIT JOSHI
Sampled by: NATHAN SOLOMON

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 01-238

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BENZENE 8021B	cPAHs D/SIM	CADMIUM 6010C			% Moisture
1	EX-46-8.0	1/30/14	1345	SOIL	2			X	X													X	X	X			10
2	EX-47-8.0		1350		2			X	X													X	X	X			
3	EX-48-8.5		1425		2			X	X													X	X	X			
4	EX-49-8.5		1440		2			X	X													X	X	X			
5	TRIPBLANK-013015		—	LIQUID	1			X														X					

	Signature	Company	Date	Time
Relinquished		GEI	1/30/15	1527
Received	Celia Forrest	SPEEDY	1/30/15	1527
Relinquished	Celia Forrest	SPEEDY	1/30/15	17:10
Received		ORE	1/30/15	1710
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-012-06

OnSite Project Number: 01-238

Initiated by: MM

Date Initiated: 1/20/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 4	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131019.D\FID1A.CH Vial: 19
Signal #2 : d:\btex\DATA\D150131\0131019.D\FID2B.CH
Acq On : 1 Feb 2015 00:46 Operator:
Sample : 01-238-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

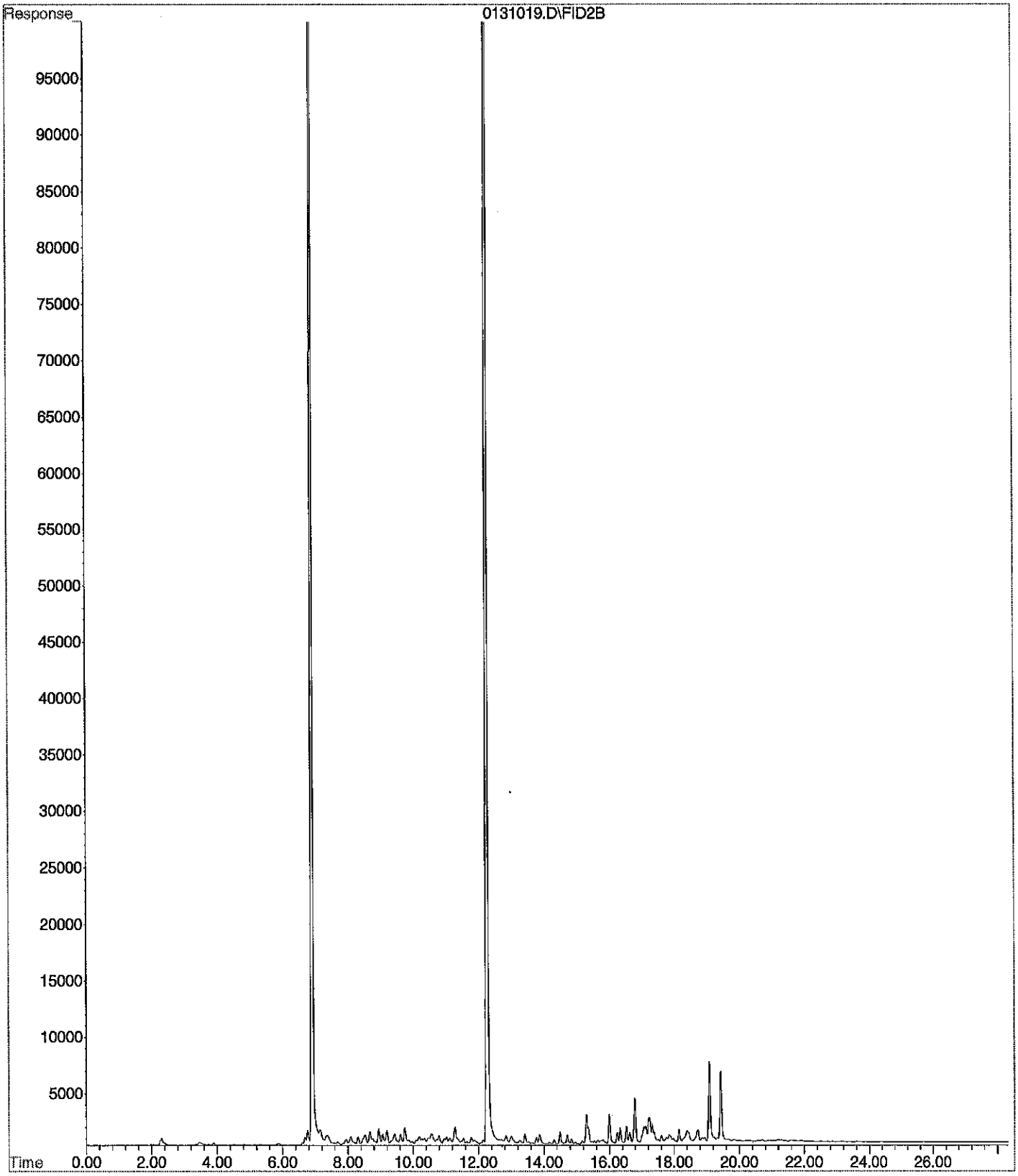
Quant Time: Feb 1 1:15 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2408466	34.659	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1408434	34.612	PPB
12)	S	FLUOROBENZENE #2	6.91	6022348	27.051	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8386078	27.867	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1582495	0.025	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4102539	0.052	PPM
3)	H	GASOLINE (9-24-14)	13.51	1683284	0.021	PPM
7)	H	entire GAS envelope #2 (9-	12.26	5105518	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3323869	0.005	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2919667	N.D.	PPM
10)		MTBE #2	4.69	2401	N.D.	PPB
11)		BENZENE #2	6.68	26790	0.047	PPB
13)		TOLUENE #2	9.06	38823	N.D.	PPB
14)		ETHYLBENZENE #2	11.03	28520	N.D.	PPB
15)		m,p-XYLENE #2	11.29	101757	N.D.	PPB
16)		o-XYLENE #2	11.79	32488	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150131\0131019.D
Operator :
Acquired : 1 Feb 2015 00:46 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-238-01s
Misc Info : V2-36-17
Vial Number: 19



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131018.D\FID1A.CH Vial: 18
Signal #2 : d:\btex\DATA\D150131\0131018.D\FID2B.CH
Acq On : 1 Feb 2015 00:13 Operator:
Sample : 01-238-02s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

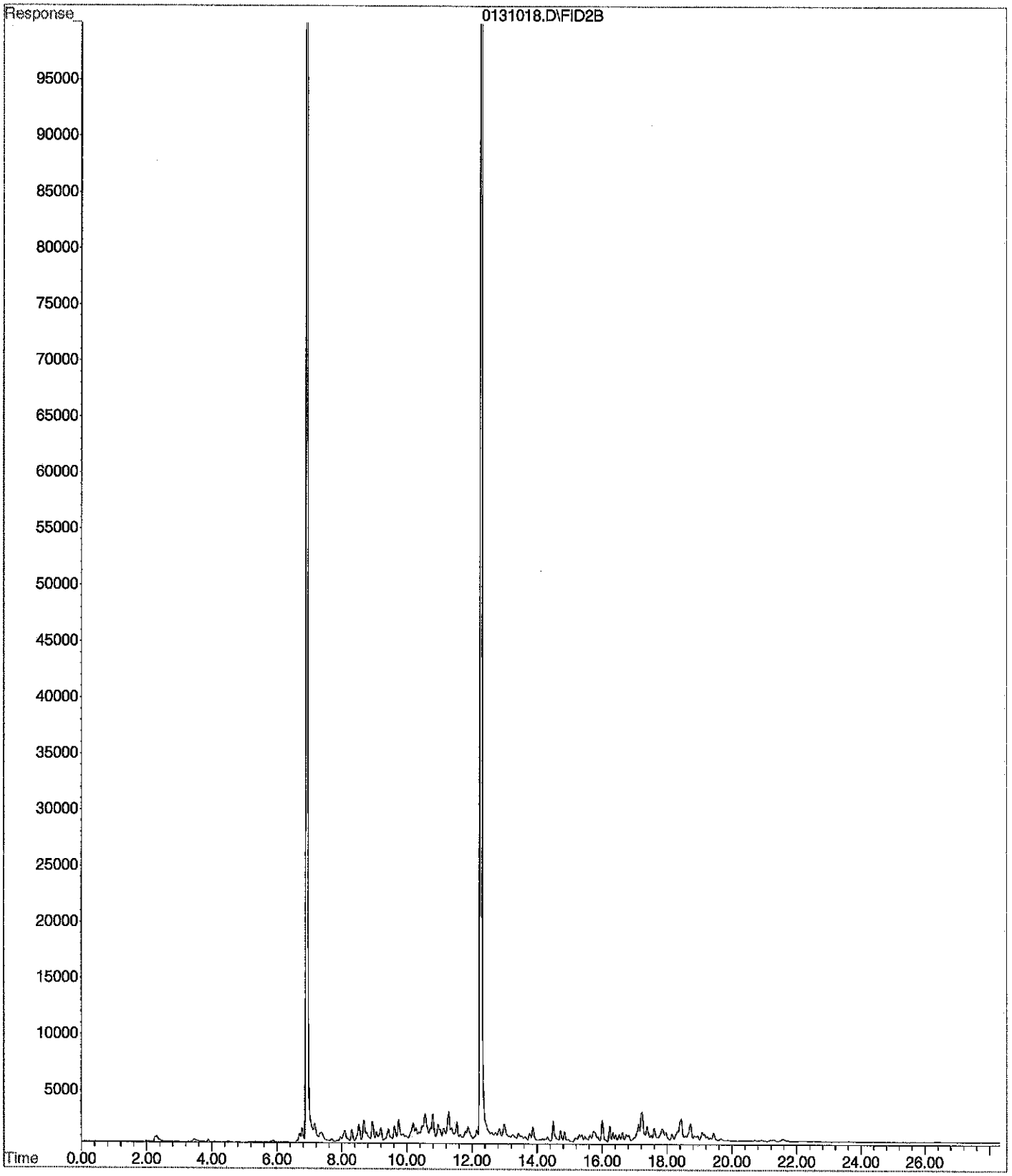
Quant Time: Feb 1 0:42 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2527151	36.384	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1510158	37.154	PPB
12)	S	FLUOROBENZENE #2	6.91	6361731	28.594	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8888533	29.564	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	2415458	0.042	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4730614	0.061	PPM
3)	H	GASOLINE (9-24-14)	13.51	2363962	0.038	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6360737	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	4938645	0.025	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	4380676	N.D.	PPM
10)		MTBE #2	4.67	567	N.D.	PPB
11)		BENZENE #2	6.69	30125	0.058	PPB
13)		TOLUENE #2	9.07	37675	N.D.	PPB
14)		ETHYLBENZENE #2	11.02	41224	0.050	PPB
15)		m,p-XYLENE #2	11.28	149759	N.D.	PPB
16)		o-XYLENE #2	11.80	54259	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150131\0131018.D
Operator :
Acquired : 1 Feb 2015 00:13 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-238-02s
Misc Info : V2-36-17
Vial Number: 18



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131017.D\FID1A.CH Vial: 17
Signal #2 : d:\btex\DATA\D150131\0131017.D\FID2B.CH
Acq On : 31 Jan 2015 23:40 Operator:
Sample : 01-238-03s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

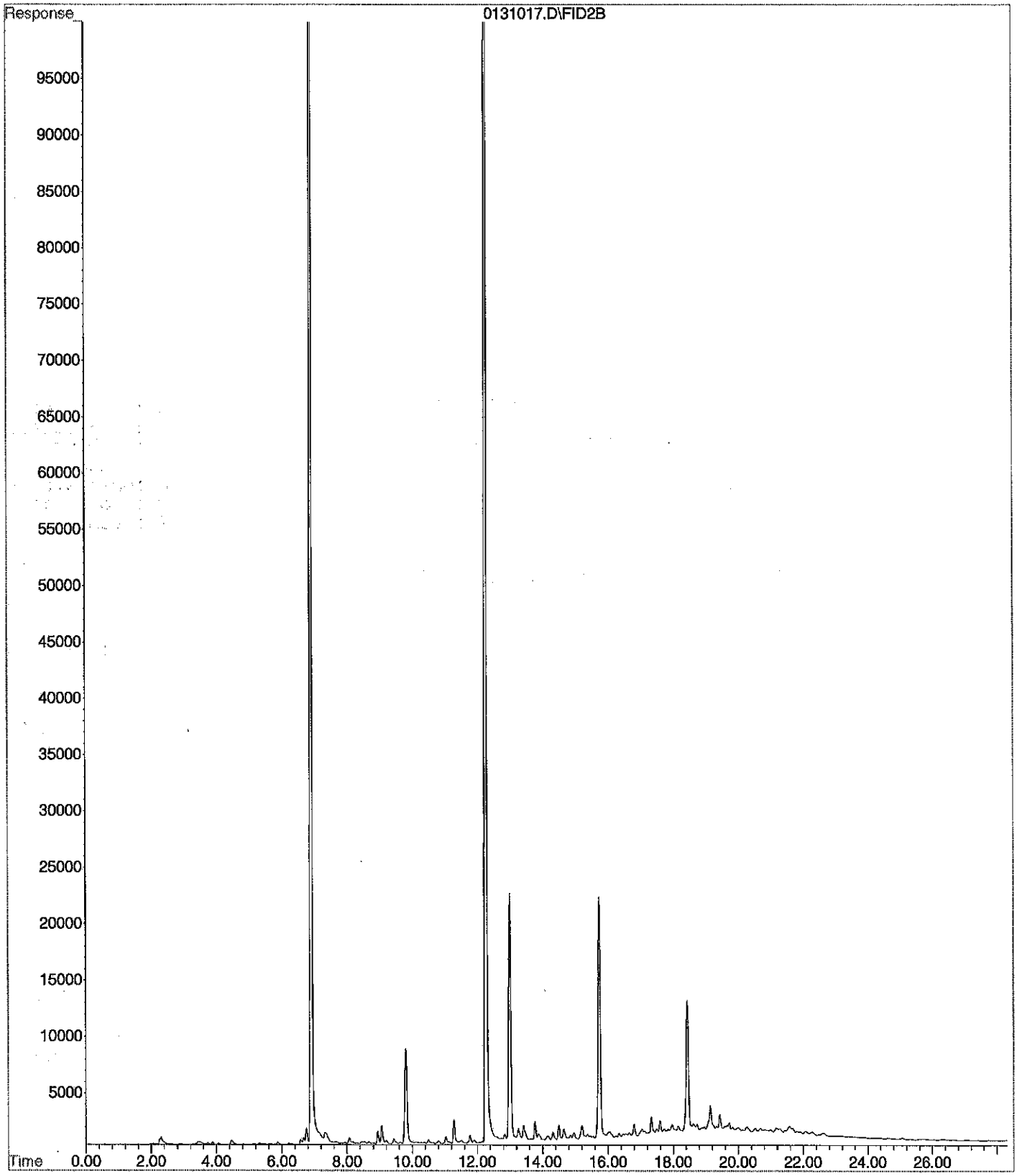
Quant Time: Feb 1 0:08 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3034708	43.758	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1775087	43.772	PPB
12)	S	FLUOROBENZENE #2	6.91	7753923	34.924	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	10546238	35.164	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1232626	0.018	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4945230	0.064	PPM
3)	H	GASOLINE (9-24-14)	13.51	1967001	0.028	PPM
7)	H	entire GAS envelope #2 (9-	12.26	9975396	0.021	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	7400036	0.055	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	5857928	N.D.	PPM
10)		MTBE #2	4.68	481	N.D.	PPB
11)		BENZENE #2	6.67	22142	0.031	PPB
13)		TOLUENE #2	9.06	65463	0.058	PPB
14)		ETHYLBENZENE #2	11.03	33693	0.019	PPB
15)		m,p-XYLENE #2	11.29	87347	N.D.	PPB
16)		o-XYLENE #2	11.78	31475	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150131\0131017.D
Operator :
Acquired : 31 Jan 2015 23:40 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-238-03s
Misc Info : V2-36-17
Vial Number: 17



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131015.D\FID1A.CH Vial: 15
Signal #2 : d:\btex\DATA\D150131\0131015.D\FID2B.CH
Acq On : 31 Jan 2015 22:33 Operator:
Sample : 01-238-04s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 23:02 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

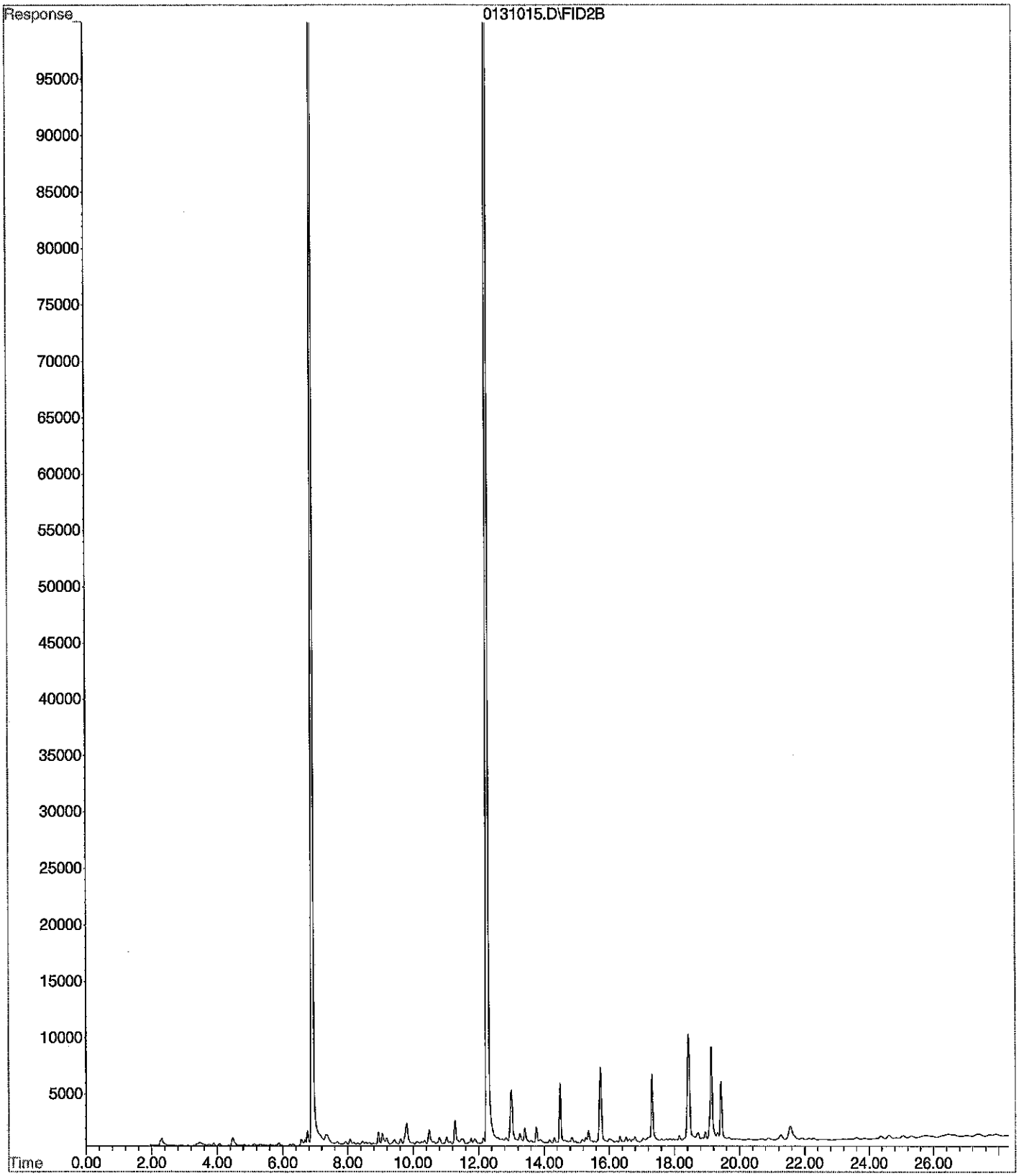
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2529674	36.420	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1521142	37.428	PPB
12)	S	FLUOROBENZENE #2	6.91	6518212	29.306	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8978679	29.868	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1298353	0.020	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3784106	0.047	PPM
3)	H	GASOLINE (9-24-14)	13.51	1463917	0.016	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6527874	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	4439371	0.019	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	3531911	N.D.	PPM
10)		MTBE #2	4.67	804	N.D.	PPB
11)		BENZENE #2	6.68	18028	0.017	PPB
13)		TOLUENE #2	9.06	46192	N.D.	PPB
14)		ETHYLBENZENE #2	11.03	26743	N.D.	PPB
15)		m,p-XYLENE #2	11.29	91299	N.D.	PPB
16)		o-XYLENE #2	11.78	23781	N.D.	PPB

JV

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131015.D
Operator :
Acquired : 31 Jan 2015 22:33 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-238-04s
Misc Info : V2-36-17
Vial Number: 15



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150131\0131008.D\FID2B.CH
Acq On : 31 Jan 2015 18:42 Operator:
Sample : MB0131S1 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 19:11 2015 Quant Results File: 141012MB.RES

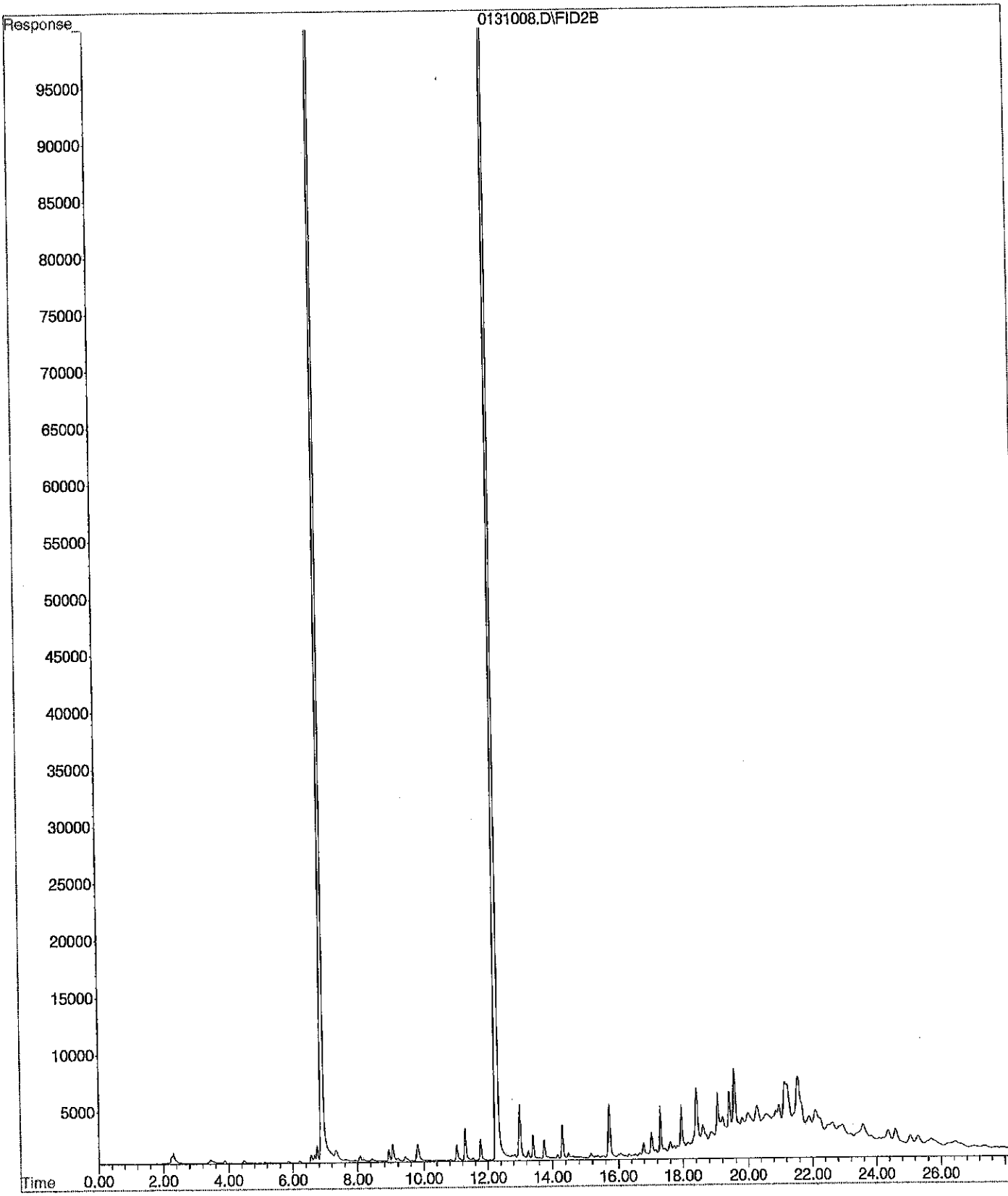
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.90	3134388	45.206 PPB
5)	S	BROMOFLUOROBENZENE	12.26	1804949	44.518 PPB
12)	S	FLUOROBENZENE #2	6.90	8010180	36.089 PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	10673771	35.595 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	864967	0.011 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	5958312	0.080 PPM
3)	H	GASOLINE (9-24-14)	13.51	1183361	0.008 PPM
7)	H	entire GAS envelope #2 (9-	12.26	9921580	0.020 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	4151995	0.015 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2644938	N.D. PPM
10)		MTBE #2	4.64	6495	0.041 PPB
11)		BENZENE #2	6.67	23171	0.035 PPB
13)		TOLUENE #2	9.06	63297	0.050 PPB
14)		ETHYLBENZENE #2	11.02	56896	0.114 PPB
15)		m,p-XYLENE #2	11.28	112903	N.D. PPB
16)		o-XYLENE #2	11.77	68805	0.008 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131008.D
Operator :
Acquired : 31 Jan 2015 18:42 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: MB0131S1
Misc Info : V2-36-17
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150131\0131011.D\FID2B.CH
Acq On : 31 Jan 2015 20:21 Operator:
Sample : 01-217-01s Inst : Daryl
Misc : V2-36-17 MultiplIr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 20:49 2015 Quant Results File: 141012MB.RES

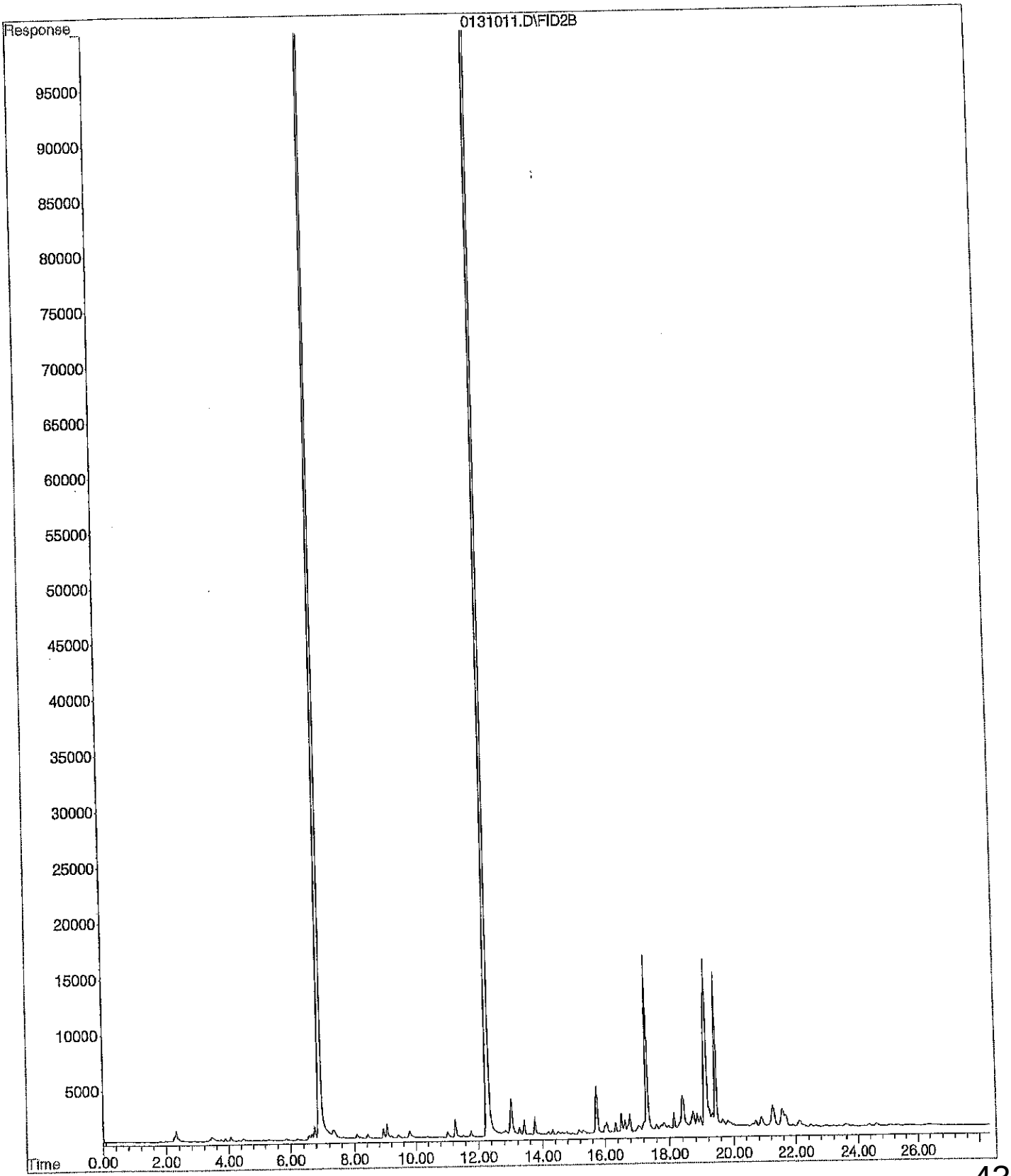
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.90	2520628	36.289 PPB
5)	S	BROMOFLUOROBENZENE	12.26	1453704	35.743 PPB
12)	S	FLUOROBENZENE #2	6.90	6358539	28.580 PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	8580582	28.524 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	686342	0.007 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3693029	0.045 PPM
3)	H	GASOLINE (9-24-14)	13.51	982473	0.003 PPM
7)	H	entire GAS envelope #2 (9-	12.26	6348334	N.D. PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3360888	0.006 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2558029	N.D. PPM
10)		MTBE #2	4.66	231	N.D. PPB
11)		BENZENE #2	6.67	19034	0.020 PPB
13)		TOLUENE #2	9.06	53072	0.014 PPB
14)		ETHYLBENZENE #2	11.03	22285	N.D. PPB
15)		m,p-XYLENE #2	11.28	64106	N.D. PPB
16)		o-XYLENE #2	11.77	21900	N.D. PPB

(m)=manual int

File : X:\BTEX\DARYL\DATA\D150131\0131011.D
Operator :
Acquired : 31 Jan 2015 20:21 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-01s
Misc Info : V2-36-17
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D150131\0131012.D\FID2B.CH
Acq On : 31 Jan 2015 20:54 Operator:
Sample : 01-217-01s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 21:22 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

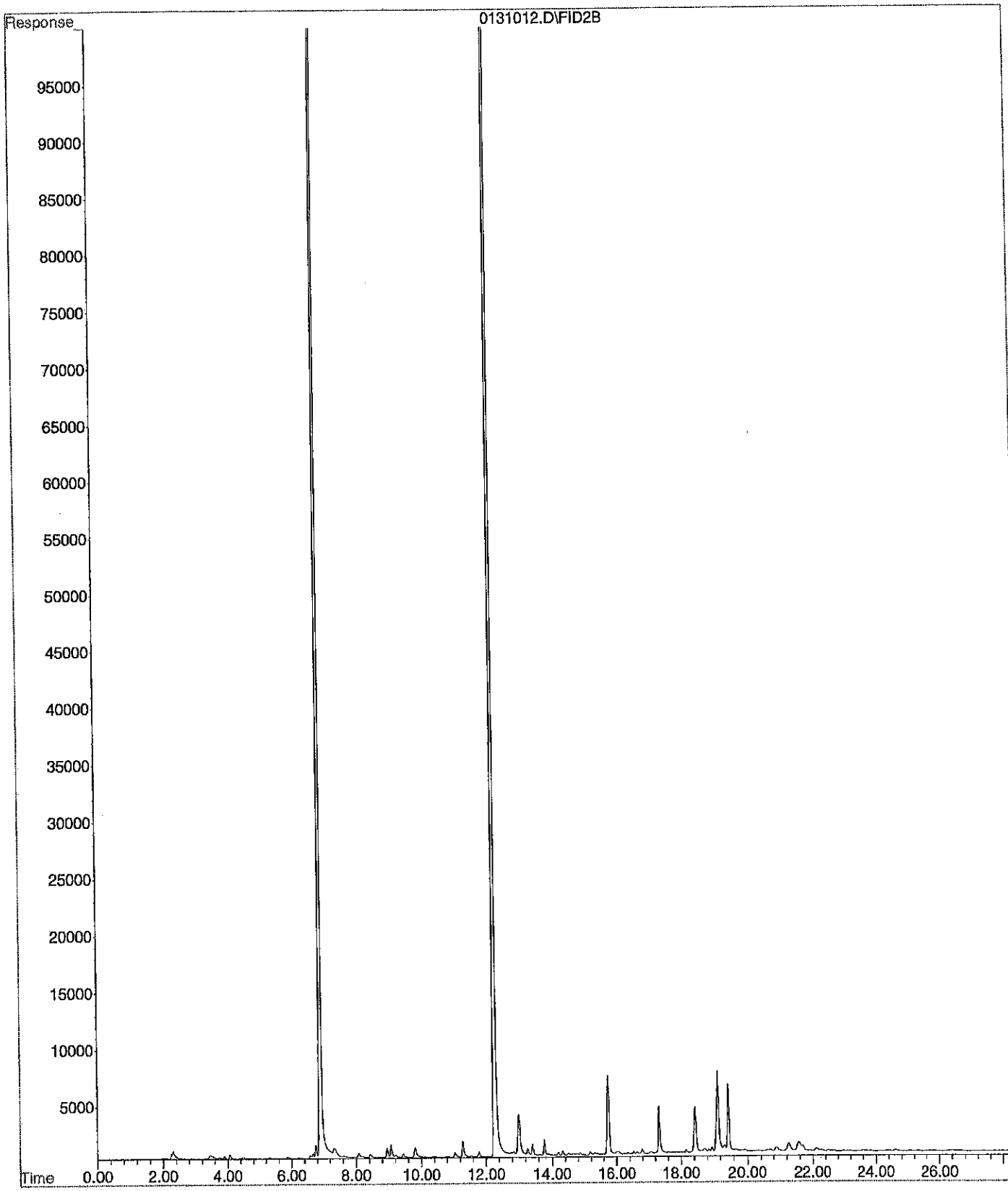
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.90	2624599	37.799 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1539694	37.892 PPB
12)	S	FLUOROBENZENE #2	6.90	6656023	29.932 PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	9158702	30.477 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	667760	0.007 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	2574080	0.028 PPM
3)	H	GASOLINE (9-24-14)	13.51	702975	N.D. PPM
7)	H	entire GAS envelope #2 (9-	12.26	3953304	N.D. PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	2347960	N.D. PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	1889842	N.D. PPM
10)		MTBE #2	4.69	568	N.D. PPB
11)		BENZENE #2	6.67	14122	0.004 PPB
13)		TOLUENE #2	9.06	46330	N.D. PPB
14)		ETHYLBENZENE #2	11.03	18779	N.D. PPB
15)		m,p-XYLENE #2	11.28	57158	N.D. PPB
16)		o-XYLENE #2	11.78	20153	N.D. PPB

2/2

(F)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131012.D
Operator :
Acquired : 31 Jan 2015 20:54 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-217-01s DUP
Misc Info : V2-36-17
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131006.D\FID1A.CH Vial: 6
Signal #2 : d:\btex\DATA\D150131\0131006.D\FID2B.CH
Acq On : 31 Jan 2015 17:37 Operator:
Sample : SB0131S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 18:05 2015 Quant Results File: 141012MB.RES

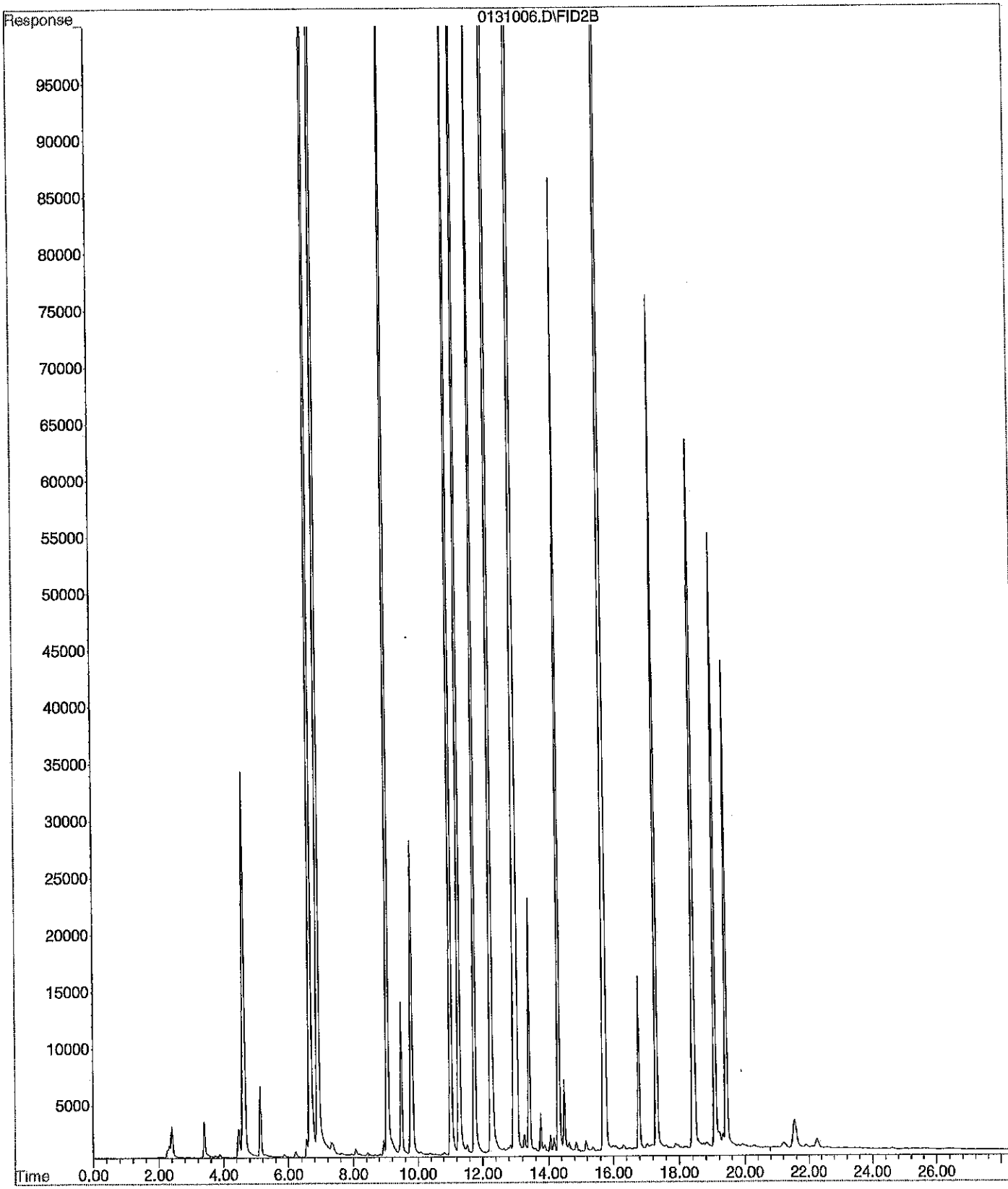
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3178051	45.840	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1508384	37.109	PPB
12)	S	FLUOROBENZENE #2	6.91	8054580	36.291	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8982939	29.883	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	13283790	0.263	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23334686	0.346	PPM
3)	H	GASOLINE (9-24-14)	13.51	14979243	0.357	PPM
7)	H	entire GAS envelope #2 (9-	12.26	62149570	0.384	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	49161353	0.563	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	45713709	0.357	PPM
10)		MTBE #2	4.62	1633749	22.326	PPB
11)		BENZENE #2	6.67	5616421	19.094	PPB
13)		TOLUENE #2	9.05	5265335	18.769	PPB
14)		ETHYLBENZENE #2	11.02	4373359	17.691	PPB
15)		m,p-XYLENE #2	11.29	5255938	17.573	PPB
16)		o-XYLENE #2	11.77	4269905	16.799	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131006.D
Operator :
Acquired : 31 Jan 2015 17:37 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: SB0131S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131007.D\FID1A.CH Vial: 7
Signal #2 : d:\btex\DATA\D150131\0131007.D\FID2B.CH
Acq On : 31 Jan 2015 18:09 Operator:
Sample : SBD0131S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 18:38 2015 Quant Results File: 141012MB.RES

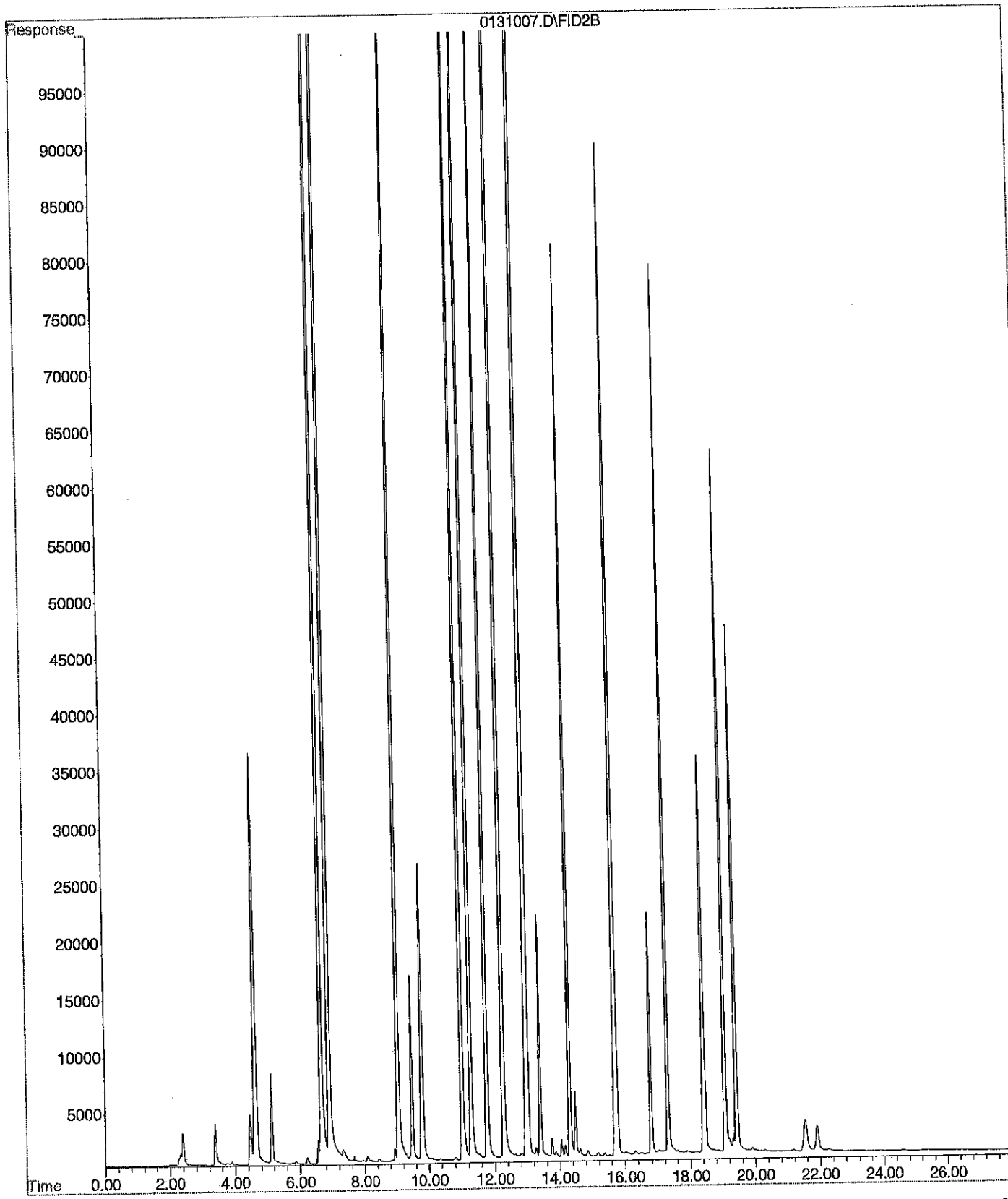
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.90	3301801	47.638 PPB
5)	S	BROMOFLUOROBENZENE	12.26	1453799	35.746 PPB
12)	S	FLUOROBENZENE #2	6.90	8484338	38.245 PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	8701576	28.932 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	13527193	0.268 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	22779660	0.338 PPM
3)	H	GASOLINE (9-24-14)	13.51	14460725	0.344 PPM
7)	H	entire GAS envelope #2 (9-	12.26	57437540	0.351 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	43689518	0.496 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	41715836	0.321 PPM
10)		MTBE #2	4.62	1729562	23.638 PPB
11)		BENZENE #2	6.66	5938280	20.191 PPB
13)		TOLUENE #2	9.05	5533806	19.735 PPB
14)		ETHYLBENZENE #2	11.01	4579390	18.530 PPB
15)		m,p-XYLENE #2	11.28	5445150	18.225 PPB
16)		o-XYLENE #2	11.76	4374232	17.216 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131007.D
Operator :
Acquired : 31 Jan 2015 18:09 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: SBD0131S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 7



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150131\0131002.D\FID2B.CH
Acq On : 31 Jan 2015 15:23 Operator:
Sample : CCVD0131G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 15:52 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

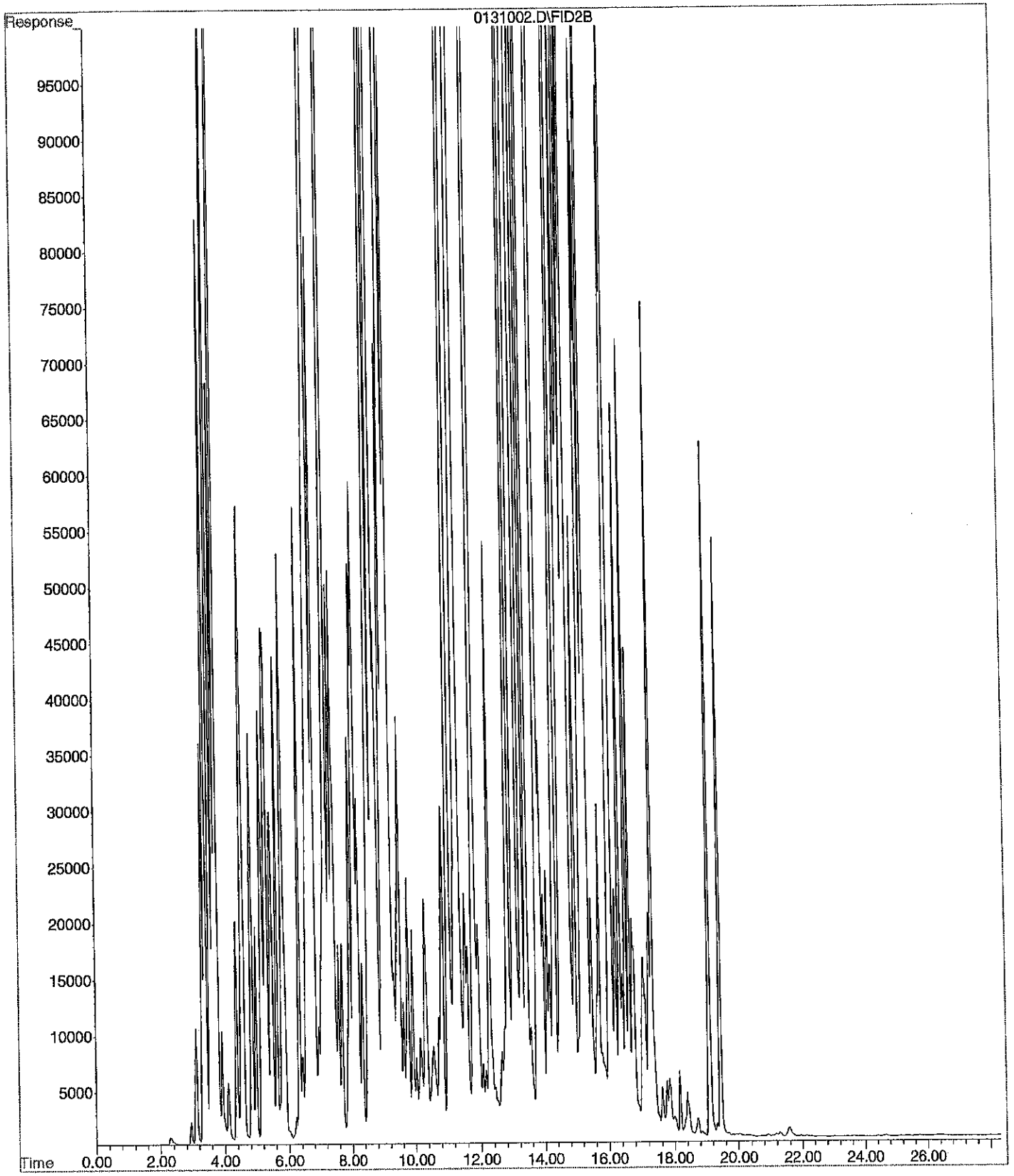
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1531426	37.685	PPB
12)	S	FLUOROBENZENE #2	6.96	450508	1.718	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	2405519	7.664	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	276445751	5.609	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	364250155	5.568	PPM
3)	H	GASOLINE (9-24-14)	13.51	215207042	5.423	PPM
7)	H	entire GAS envelope #2 (9-	12.26	641424687	4.419	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	492320489	5.956	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	493788955	4.442	PPM ✓
10)		MTBE #2	4.57	3110213	42.545	PPB
11)		BENZENE #2	6.69	43910229	149.582	PPB
13)		TOLUENE #2	9.08	112877938	405.998	PPB
14)		ETHYLBENZENE #2	11.04	28059060	114.143	PPB
15)		m,p-XYLENE #2	11.29	101389131	348.994	PPB
16)		o-XYLENE #2	11.79	38956845	155.432	PPB

1/31

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131002.D
Operator :
Acquired : 31 Jan 2015 15:23 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131G-1
Misc Info : V2-36-08
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131034.D\FID1A.CH Vial: 34
Signal #2 : d:\btex\DATA\D150131\0131034.D\FID2B.CH
Acq On : 1 Feb 2015 9:05 Operator:
Sample : CCVD0131G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 1 9:34 2015 Quant Results File: 141012MB.RES

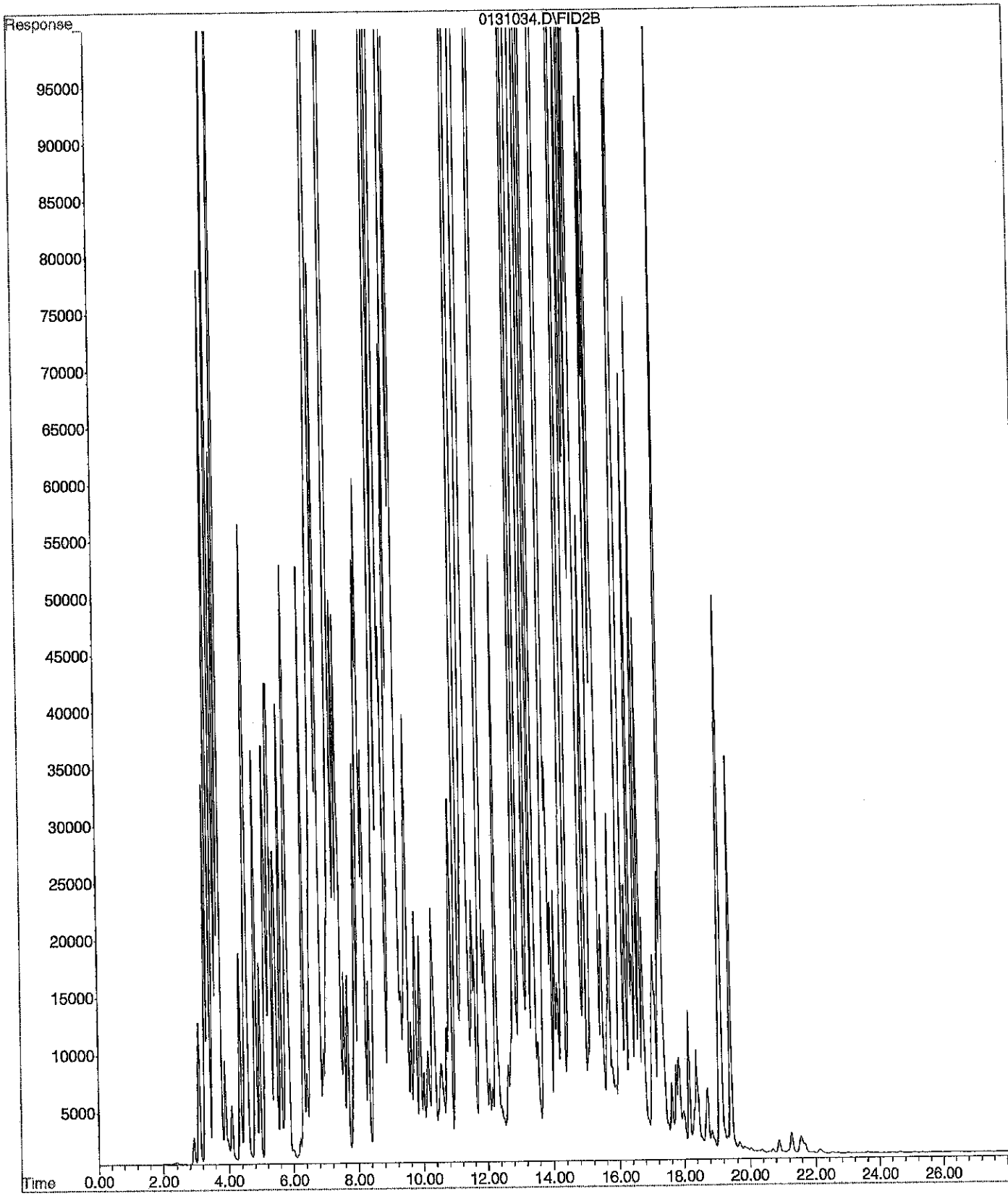
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1330602	32.668	PPB
12)	S	FLUOROBENZENE #2	6.94	431378	1.631	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	2413204	7.690	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	278224914	5.645	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	364921536	5.578	PPM
3)	H	GASOLINE (9-24-14)	13.51	213460100	5.378	PPM
7)	H	entire GAS envelope #2 (9-	12.26	641076408	4.416	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	491594805	5.947	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	491831374	4.424	PPM
10)		MTBE #2	4.55	3056143	41.805	PPB
11)		BENZENE #2	6.68	42655368	145.306	PPB
13)		TOLUENE #2	9.07	112108367	403.229	PPB
14)		ETHYLBENZENE #2	11.03	27388922	111.414	PPB
15)		m,p-XYLENE #2	11.29	100814660	347.014	PPB
16)		o-XYLENE #2	11.78	38435058	153.347	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131034.D
Operator :
Acquired : 1 Feb 2015 9:05 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131G-2
Misc Info : V2-36-08
Vial Number: 34



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131003.D\FID1A.CH Vial: 3
Signal #2 : d:\btex\DATA\D150131\0131003.D\FID2B.CH
Acq On : 31 Jan 2015 15:57 Operator:
Sample : CCVD0131B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Jan 31 16:25 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

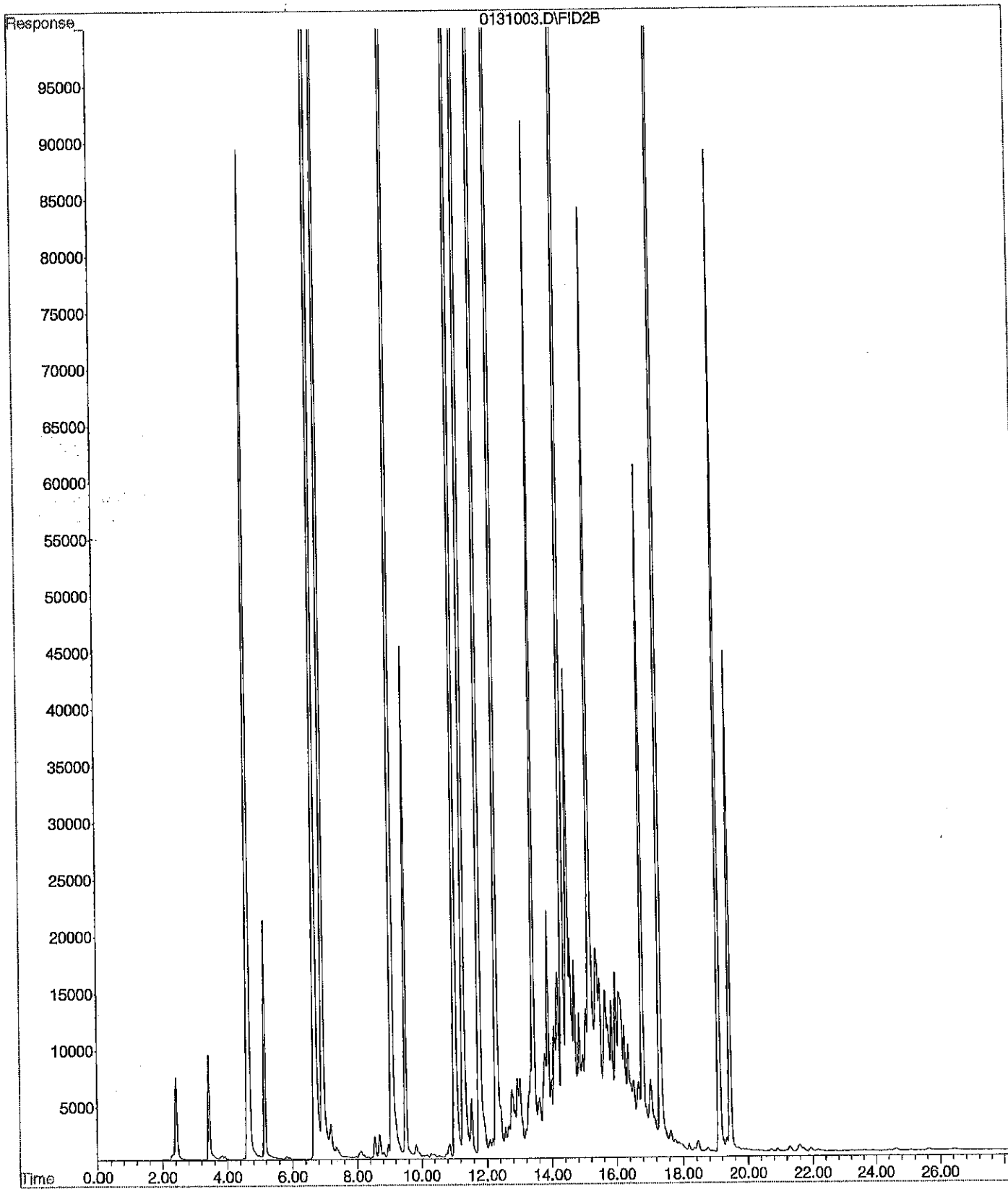
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3237926	46.710 PPB
5)	S	BROMOFLUOROBENZENE	12.29	2117306	52.322 PPB
12)	S	FLUOROBENZENE #2	6.93	8324333	37.517 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11910761	39.773 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	34740167	0.699 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	73163865	1.109 PPM
3)	H	GASOLINE (9-24-14)	13.51	56327136	1.403 PPM
7)	H	entire GAS envelope #2 (9-	12.26	135174830	0.893 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	108263504	1.282 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	107795665	0.923 PPM
10)		MTBE #2	4.65	4156412	56.873 PPB
11)		BENZENE #2	6.69	15150573	51.582 PPB
13)		TOLUENE #2	9.07	14307663	51.307 PPB
14)		ETHYLBENZENE #2	11.04	12505951	50.808 PPB
15)		m,p-XYLENE #2	11.30	15204998	51.872 PPB
16)		o-XYLENE #2	11.79	12671168	50.376 PPB

1/31

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131003.D
Operator :
Acquired : 31 Jan 2015 15:57 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 3



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150131\0131020.D\FID1A.CH Vial: 20
Signal #2 : d:\btex\DATA\D150131\0131020.D\FID2B.CH
Acq On : 1 Feb 2015 1:20 Operator:
Sample : CCVD0131B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 1 1:48 2015 Quant Results File: 141012MB.RES

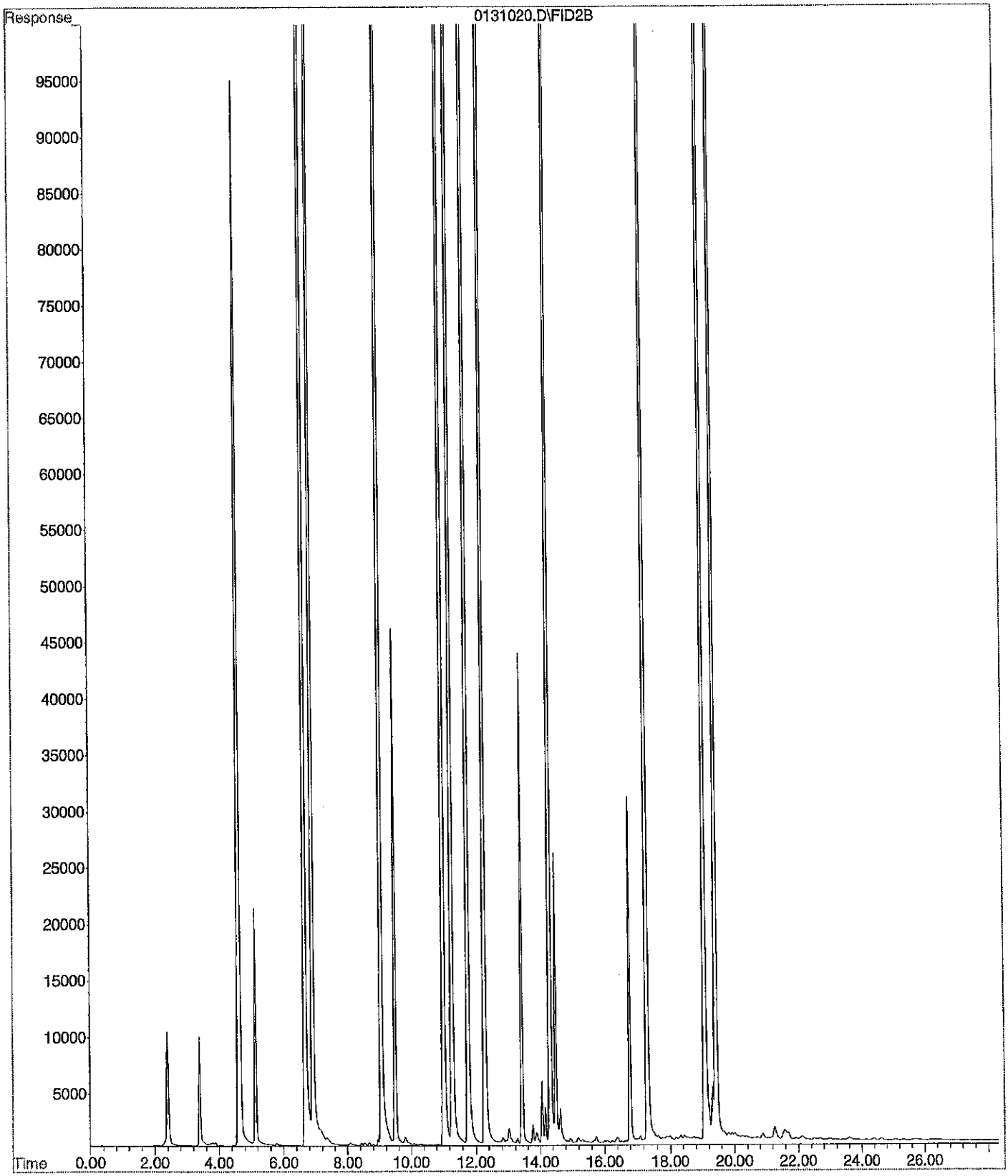
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3091271	44.579	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1867833	46.089	PPB
12)	S	FLUOROBENZENE #2	6.91	8230449	37.090	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	11298072	37.703	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	30399083	0.611	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50902413	0.768	PPM
3)	H	GASOLINE (9-24-14)	13.51	32966881	0.812	PPM
7)	H	entire GAS envelope #2 (9-	12.26	116328065	0.761	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	79202114	0.928	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	78860809	0.660	PPM
10)		MTBE #2	4.62	4379383	59.926	PPB
11)		BENZENE #2	6.67	14497653	49.357	PPB
13)		TOLUENE #2	9.05	13507549	48.428	PPB
14)		ETHYLBENZENE #2	11.02	11797077	47.922	PPB
15)		m,p-XYLENE #2	11.29	14085068	48.011	PPB
16)		o-XYLENE #2	11.77	11895741	47.277	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150131\0131020.D
Operator :
Acquired : 1 Feb 2015 1:20 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0131B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 20



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150203\0203008.D\FID2B.CH
Acq On : 3 Feb 2015 13:58 Operator:
Sample : 01-238-05 Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 14:26 2015 Quant Results File: 141012MB.RES

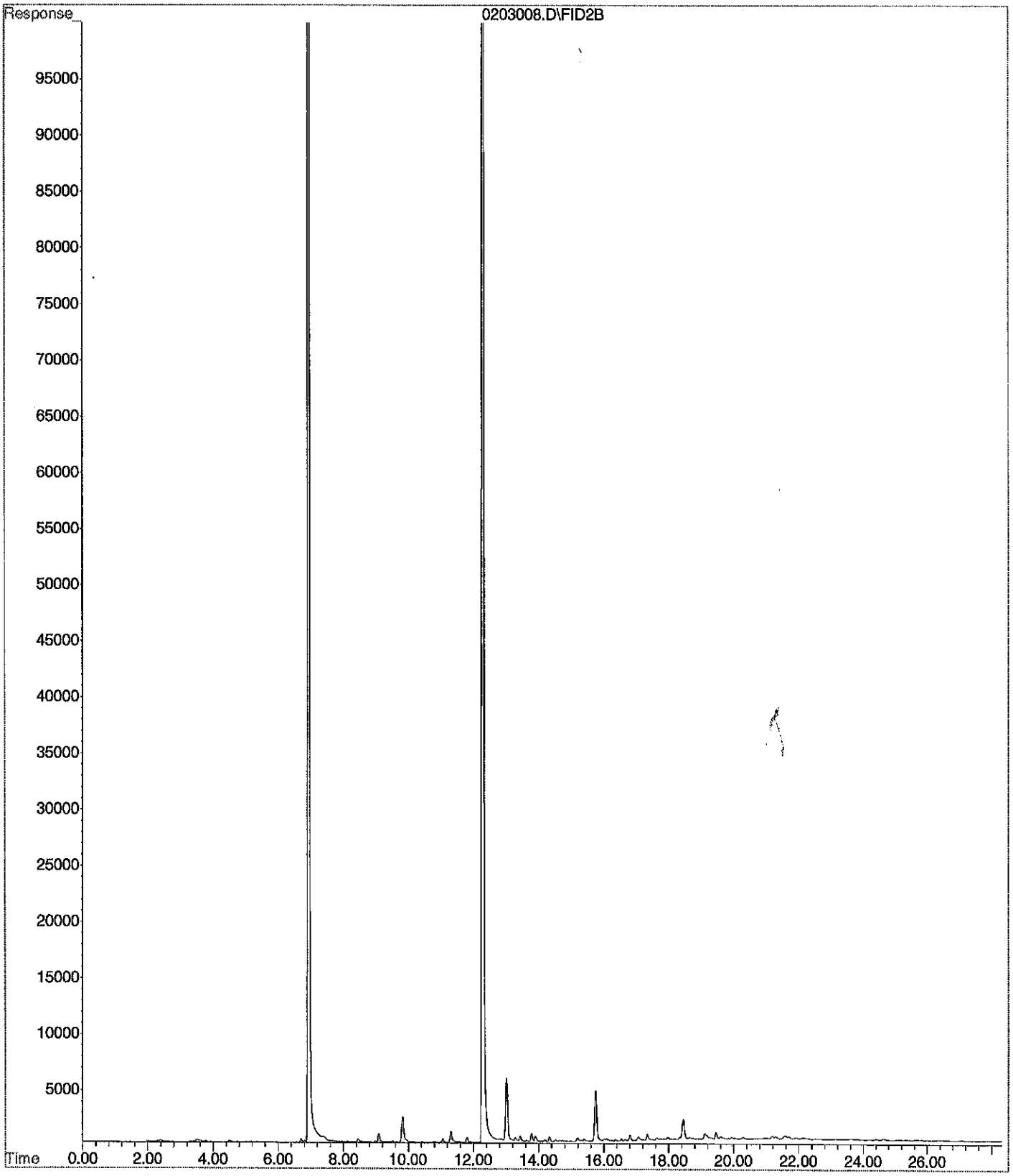
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3139786	45.284	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1956888	48.314	PPB
12)	S	FLUOROBENZENE #2	6.93	8010972	36.093	PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11541524	38.526	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	531672	0.004	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	1829954	0.017	PPM
3)	H	GASOLINE (9-24-14)	13.51	779600	N.D.	PPM
7)	H	entire GAS envelope #2 (9-	12.26	2937890	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	2055865	N.D.	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	1673367	N.D.	PPM
10)		MTBE #2	4.73	1908	N.D.	PPB
11)		BENZENE #2	6.70	10802	N.D.	PPB
13)		TOLUENE #2	9.09	34355	N.D.	PPB
14)		ETHYLBENZENE #2	11.06	11703	N.D.	PPB
15)		m,p-XYLENE #2	11.31	42982	N.D.	PPB
16)		o-XYLENE #2	11.80	20254	N.D.	PPB

2/4

File : X:\BTEX\DARYL\DATA\D150203\0203008.D
Operator :
Acquired : 3 Feb 2015 13:58 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-238-05
Misc Info : V2-36-23
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203004.D\FID1A.CH vial: 4
Signal #2 : d:\btex\DATA\D150203\0203004.D\FID2B.CH
Acq On : 3 Feb 2015 11:43 Operator:
Sample : MB0203W1 Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

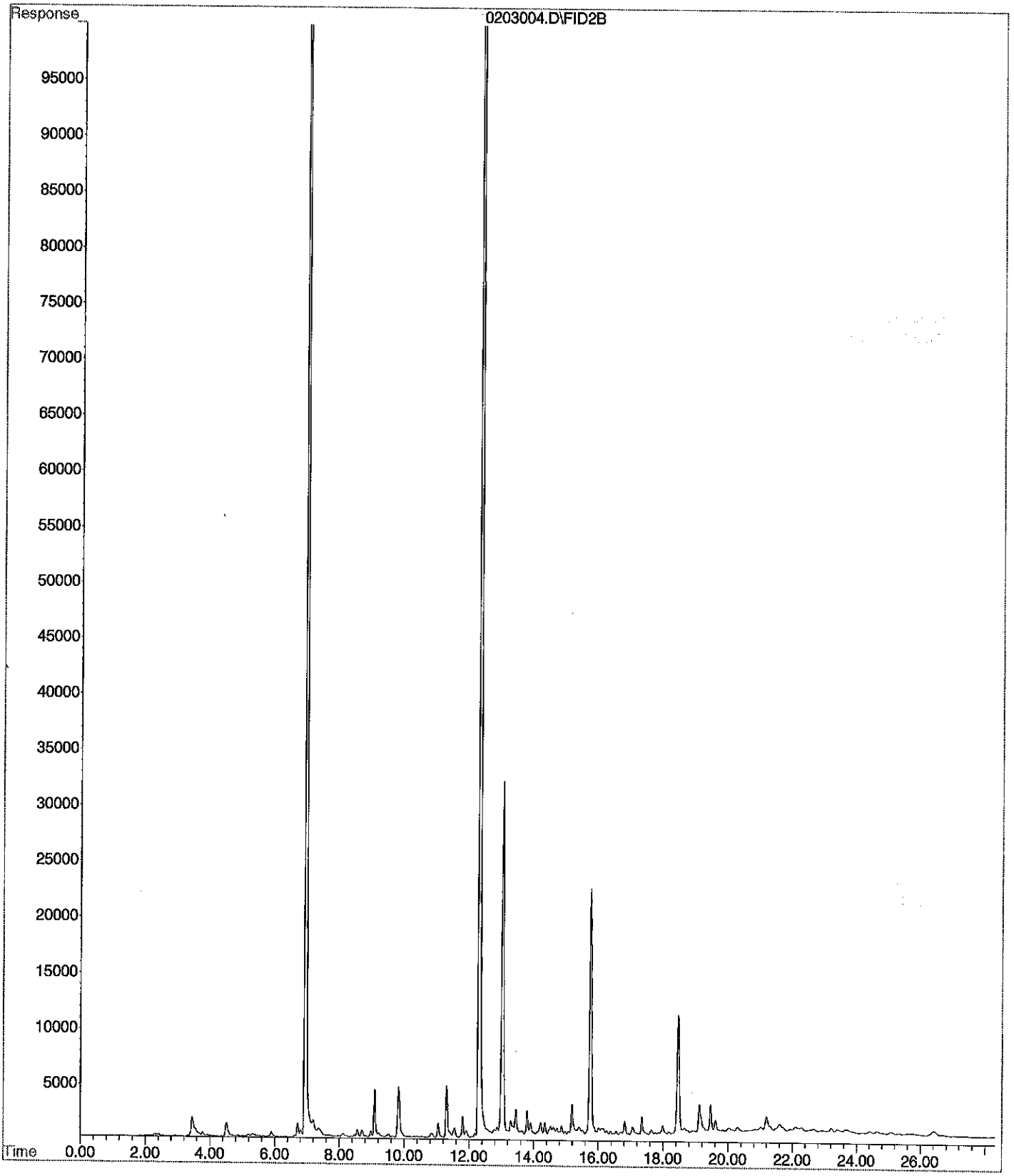
Quant Time: Feb 3 12:12 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	3075232	44.346	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1908085	47.095	PPB
12)	S	FLUOROBENZENE #2	6.95	7626549	34.345	PPB
17)	S	BROMOFLUOROBENZENE #2	12.30	11204415	37.387	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1415439	0.022	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4642893	0.060	PPM
3)	H	GASOLINE (9-24-14)	13.51	2417376	0.040	PPM
7)	H	entire GAS envelope #2 (9-	12.26	10419223	0.024	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	7664004	0.058	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	6553579	0.001	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.71	44681	0.108	PPB
13)		TOLUENE #2	9.09	146255	0.349	PPB
14)		ETHYLBENZENE #2	11.06	50554	0.088	PPB
15)		m,p-XYLENE #2	11.31	188976	0.104	PPB
16)		o-XYLENE #2	11.81	65108	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203004.D
Operator :
Acquired : 3 Feb 2015 11:43 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: MB0203W1
Misc Info : V2-36-23
Vial Number: 4



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150203\0203005.D\FID1A.CH Vial: 5
Signal #2 : X:\BTEX\DARYL\DATA\D150203\0203005.D\FID2B.CH
Acq On : 3 Feb 2015 12:17 Operator:
Sample : 01-234-02e Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

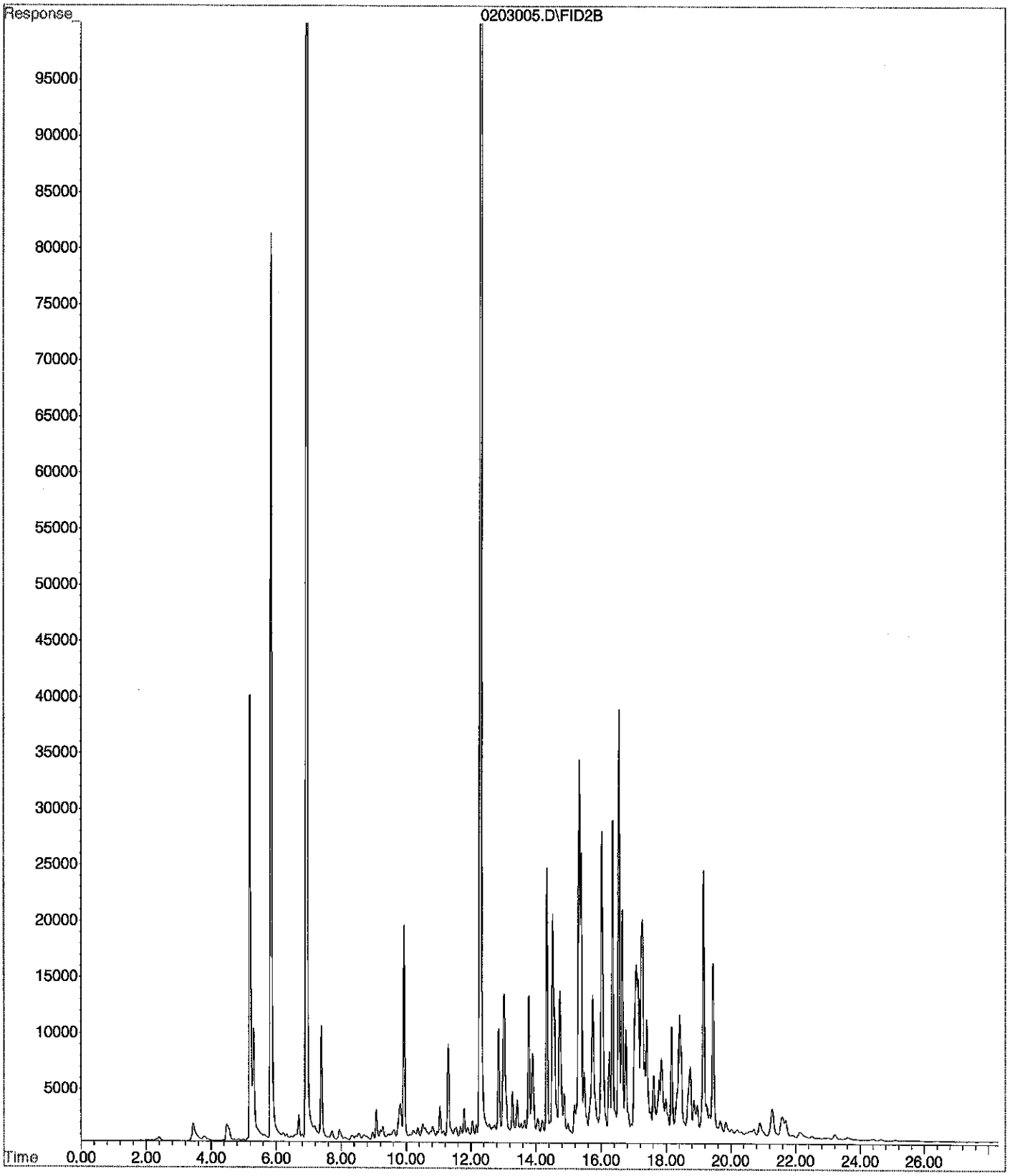
Quant Time: Feb 3 12:45 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	2969050	42.804 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1906242	47.049 PPB
12)	S	FLUOROBENZENE #2	6.93	7555726	34.023 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11089981	37.001 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	4625495	0.087 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	14512996	0.211 PPM
3)	H	GASOLINE (9-24-14)	13.51	8859304	0.203 PPM
7)	H	entire GAS envelope #2 (9-	12.26	34323903	0.190 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	24887360	0.268 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	22086847	0.142 PPM
10)		MTBE #2	4.70	7773	0.058 PPB
11)		BENZENE #2	6.69	92276	0.270 PPB
13)		TOLUENE #2	9.08	100554	0.184 PPB
14)		ETHYLBENZENE #2	11.05	117718	0.361 PPB
15)		m,p-XYLENE #2	11.30	389564	0.796 PPB
16)		o-XYLENE #2	11.80	118181	0.205 PPB

File : X:\BTEX\DARYL\DATA\D150203\0203005.D
Operator :
Acquired : 3 Feb 2015 12:17 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e
Misc Info : V2-36-23
Vial Number: 5



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150203\0203006.D\FID1A.CH Vial: 6
Signal #2 : X:\BTEX\DARYL\DATA\D150203\0203006.D\FID2B.CH
Acq On : 3 Feb 2015 12:50 Operator:
Sample : 01-234-02e DUP Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

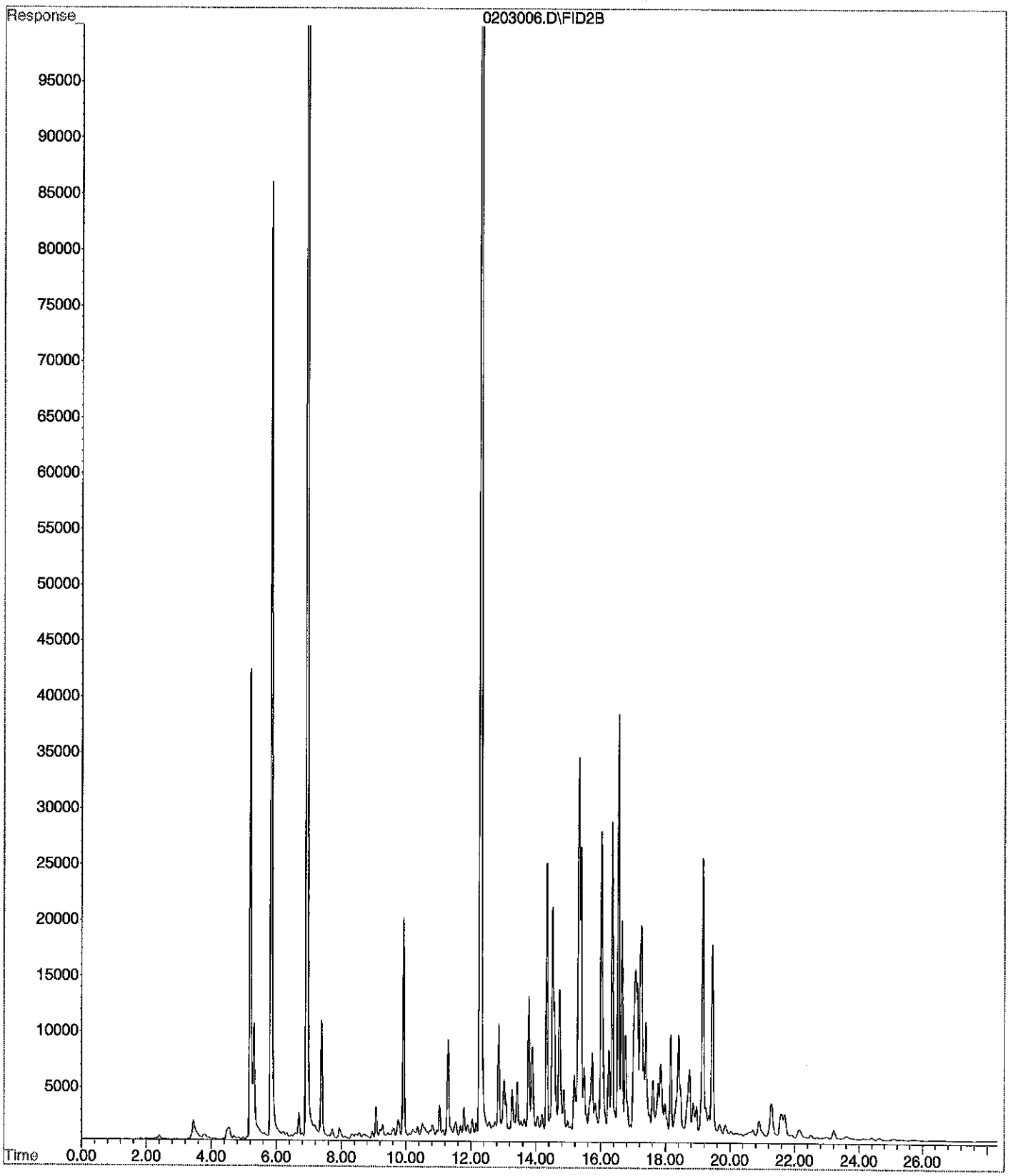
Quant Time: Feb 3 13:19 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3108011	44.823	PPB
5)	S	BROMOFLUOROBENZENE	12.28	2053881	50.737	PPB
12)	S	FLUOROBENZENE #2	6.93	7900792	35.592	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	11685771	39.013	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	4743397	0.090	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	14731239	0.214	PPM
3)	H	GASOLINE (9-24-14)	13.51	9294716	0.214	PPM
7)	H	entire GAS envelope #2 (9-	12.26	33426836	0.184	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	23940067	0.256	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	21580976	0.137	PPM
10)		MTBE #2	4.70	17731	0.195	PPB
11)		BENZENE #2	6.69	93912	0.276	PPB
13)		TOLUENE #2	9.08	104478	0.199	PPB
14)		ETHYLBENZENE #2	11.04	118684	0.365	PPB
15)		m,p-XYLENE #2	11.30	397480	0.823	PPB
16)		o-XYLENE #2	11.79	115109	0.193	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203006.D
Operator :
Acquired : 3 Feb 2015 12:50 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e DUP
Misc Info : V2-36-23
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150203\0203011.D\FID2B.CH
Acq On : 3 Feb 2015 15:38 Operator:
Sample : 01-234-02e MS Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 16:07 2015 Quant Results File: 141012MB.RES

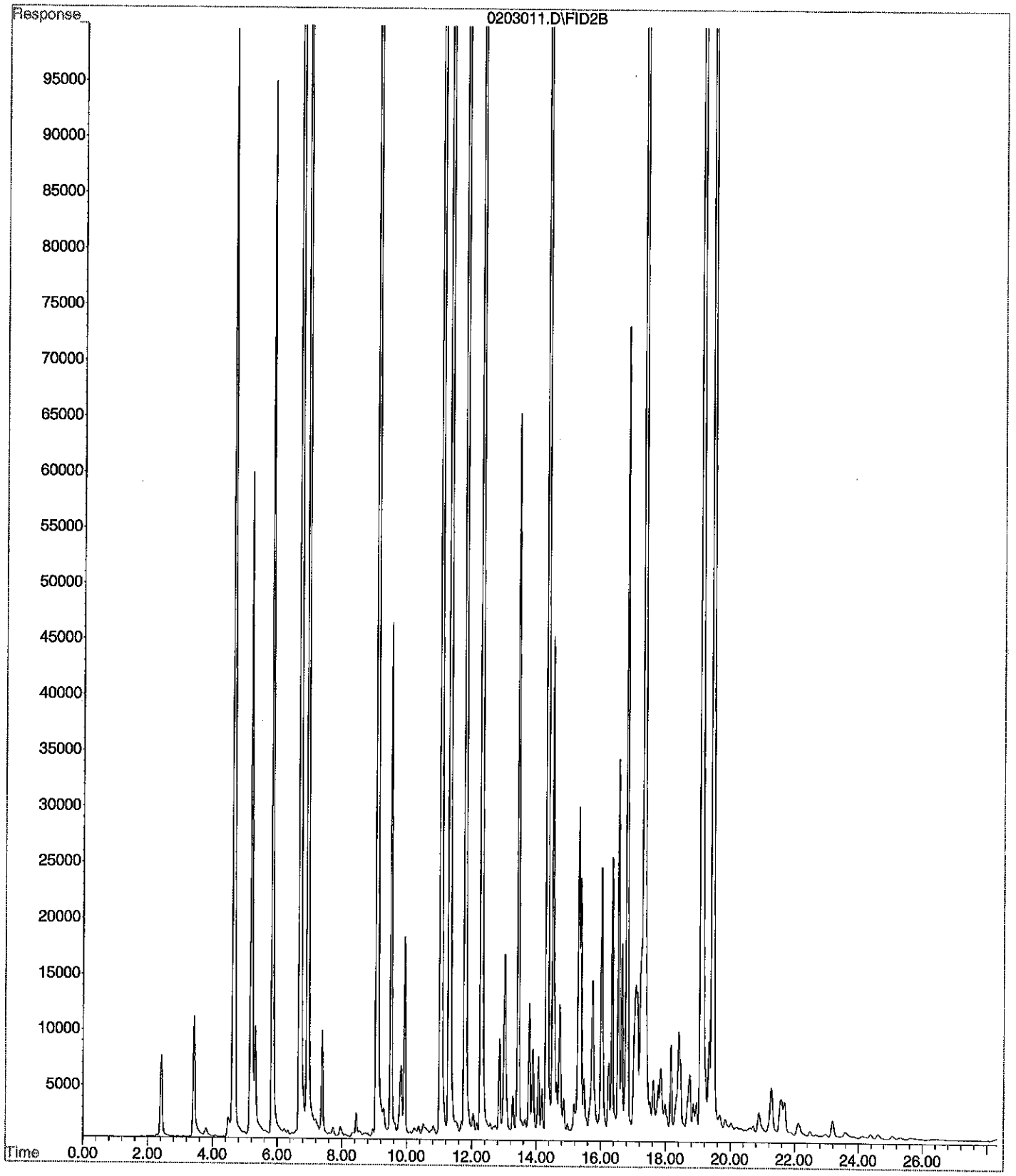
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3166141	45.667	PPB
5)	S	BROMOFLUOROBENZENE	12.29	2038366	50.350	PPB
12)	S	FLUOROBENZENE #2	6.93	8160353	36.772	PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11938558	39.867	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	34573680	0.696	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	67201317	1.018	PPM
3)	H	GASOLINE (9-24-14)	13.51	44089573	1.094	PPM
7)	H	entire GAS envelope #2 (9-	12.26	156271381	1.040	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	104513517	1.236	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	102104066	0.871	PPM
10)		MTBE #2	4.64	4548835	62.247	PPB
11)		BENZENE #2	6.69	14430083	49.127	PPB
13)		TOLUENE #2	9.07	13456065	48.242	PPB
14)		ETHYLBENZENE #2	11.04	12056158	48.977	PPB
15)		m,p-XYLENE #2	11.31	14341302	48.895	PPB
16)		o-XYLENE #2	11.79	11992609	47.664	PPB

2/4

File : X:\BTEX\DARYL\DATA\D150203\0203011.D
Operator :
Acquired : 3 Feb 2015 15:38 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e MS
Misc Info : V2-36-23,V2-37-04
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D150203\0203012.D\FID2B.CH
Acq On : 3 Feb 2015 16:15 Operator:
Sample : 01-234-02e MSD Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 16:43 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

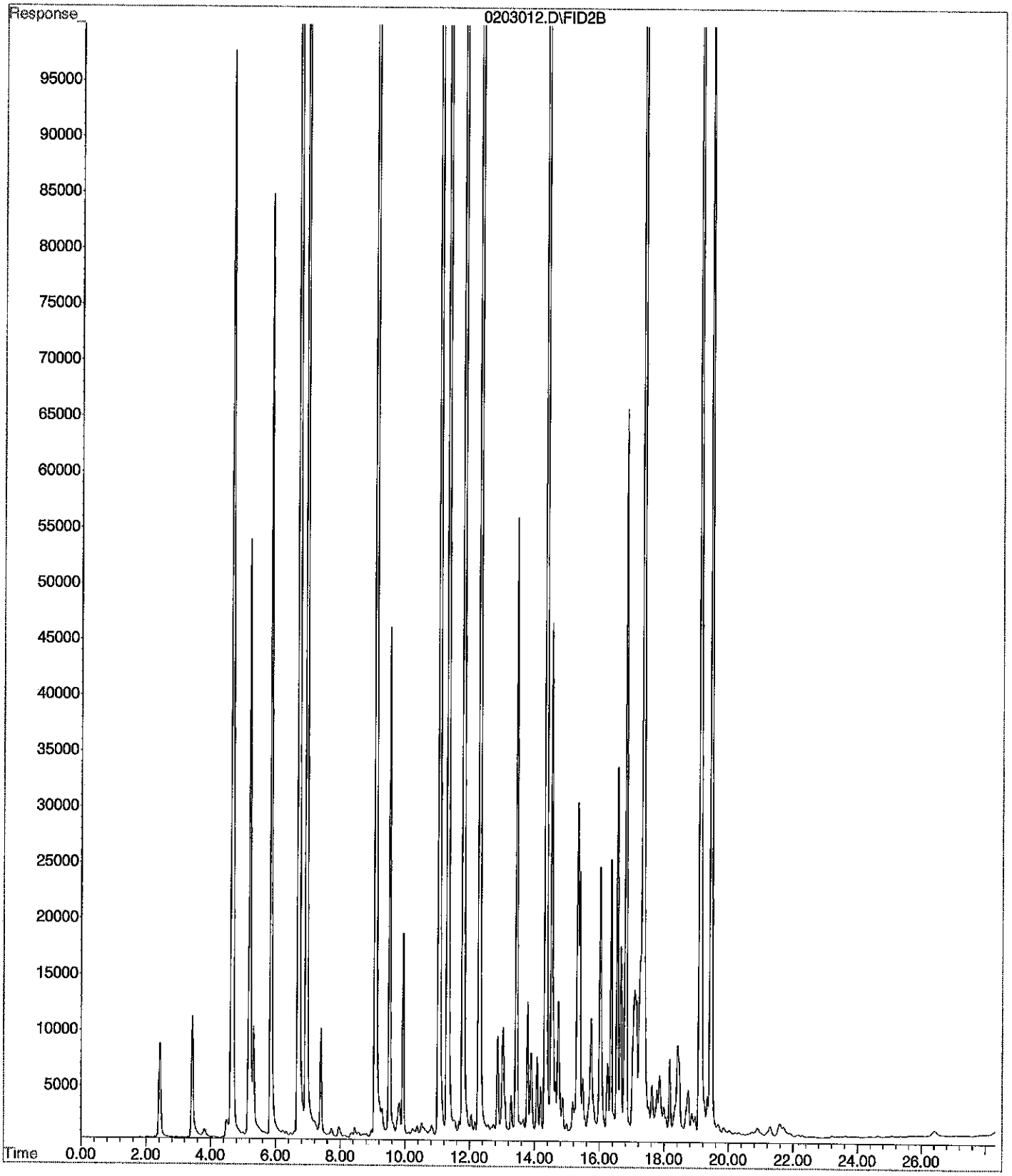
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.94	3150382	45.438	PPB
5)	S	BROMOFLUOROBENZENE	12.29	2025307	50.023	PPB
12)	S	FLUOROBENZENE #2	6.94	8179563	36.859	PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11897751	39.729	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	35238133	0.709	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	63526270	0.962	PPM
3)	H	GASOLINE (9-24-14)	13.51	43181826	1.071	PPM
7)	H	entire GAS envelope #2 (9-	12.26	143300738	0.949	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	103438557	1.223	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	101344301	0.865	PPM
10)		MTBE #2	4.65	4552094	62.292	PPB
11)		BENZENE #2	6.70	15182241	51.690	PPB
13)		TOLUENE #2	9.08	14146699	50.727	PPB
14)		ETHYLBENZENE #2	11.04	12645872	51.378	PPB
15)		m,p-XYLENE #2	11.31	15025531	51.253	PPB
16)		o-XYLENE #2	11.79	12602973	50.104	PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203012.D
Operator :
Acquired : 3 Feb 2015 16:15 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e MSD
Misc Info : V2-36-23,V2-37-04
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150203\0203001.D\FID2B.CH
Acq On : 3 Feb 2015 9:53 Operator:
Sample : CCVD0203G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 10:21 2015 Quant Results File: 141012MB.RES

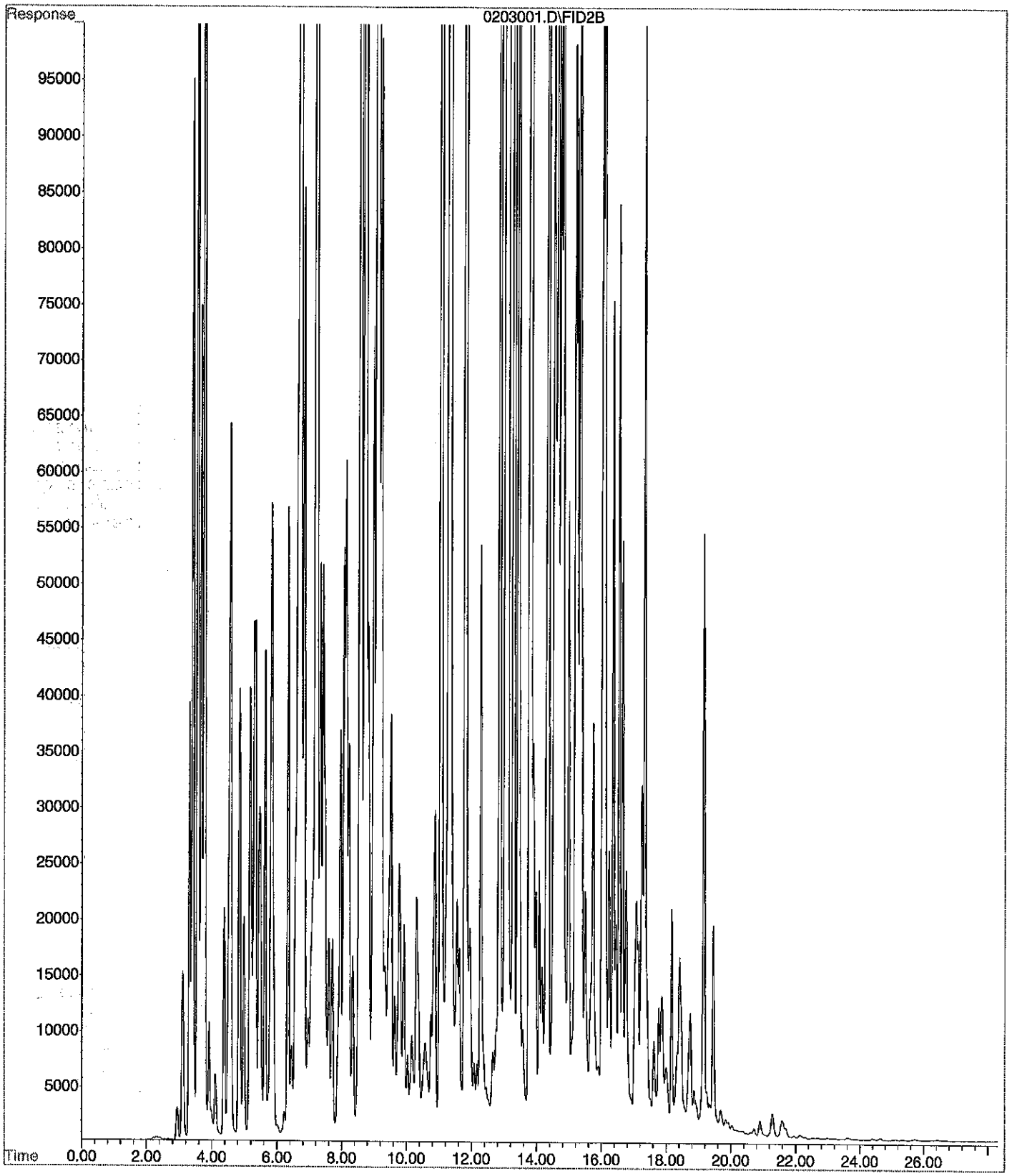
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1304445	32.014	PPB
12)	S	FLUOROBENZENE #2	6.96	473097	1.820	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	2385413	7.596	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	288910528	5.862	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	385398316	5.892	PPM
3)	H	GASOLINE (9-24-14)	13.51	217929005	5.492	PPM
7)	H	entire GAS envelope #2 (9-	12.26	655475362	4.517	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	498490838	6.031	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	496485696	4.466	PPM
10)		MTBE #2	4.57	3481189	47.626	PPB
11)		BENZENE #2	6.69	43803886	149.220	PPB
13)		TOLUENE #2	9.08	111209892	399.995	PPB
14)		ETHYLBENZENE #2	11.04	27703134	112.693	PPB
15)		m,p-XYLENE #2	11.30	100223398	344.975	PPB
16)		o-XYLENE #2	11.80	38501023	153.611	PPB

2/3 ✓

File : X:\BTEX\DARYL\DATA\D150203\0203001.D
Operator :
Acquired : 3 Feb 2015 9:53 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203037.D\FID1A.CH Vial: 37
Signal #2 : d:\btex\DATA\D150203\0203037.D\FID2B.CH
Acq On : 4 Feb 2015 6:08 Operator:
Sample : CCVD0203G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

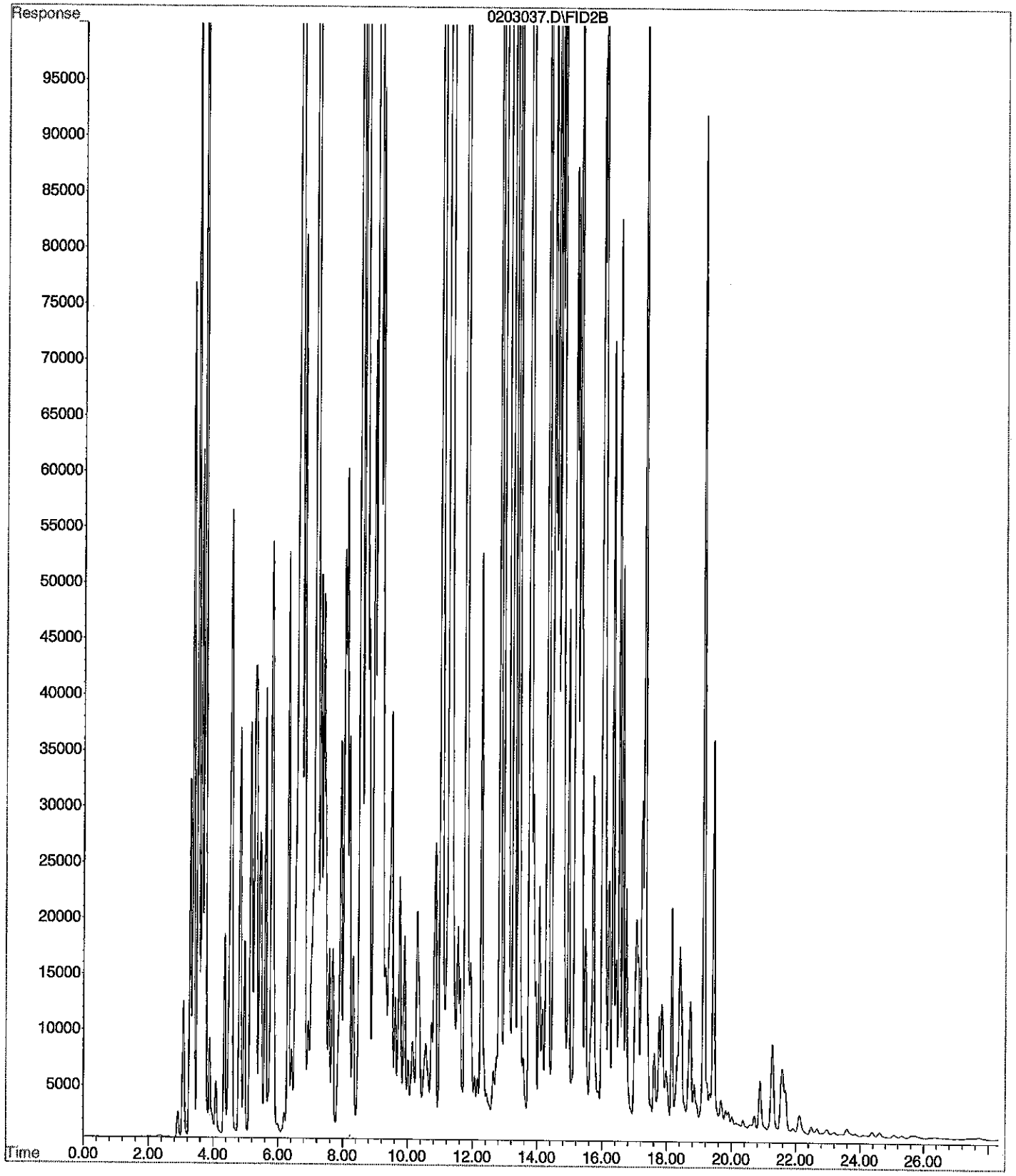
Quant Time: Feb 4 6:36 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	7.03	1498004	21.432	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1139294	27.889	PPB
12)	S	FLUOROBENZENE #2	6.93	453454	1.731	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	2284344	7.255	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	272069118	5.520	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	356331856	5.447	PPM
3)	H	GASOLINE (9-24-14)	13.51	204534504	5.153	PPM
7)	H	entire GAS envelope #2 (9-	12.26	635434783	4.377	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	483446714	5.848	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	481852939	4.333	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.67	42579431	145.047	PPB
13)		TOLUENE #2	9.06	111720494	401.833	PPB
14)		ETHYLBENZENE #2	11.03	27159971	110.482	PPB
15)		m,p-XYLENE #2	11.28	100255075	345.085	PPB
16)		o-XYLENE #2	11.78	38183180	152.340	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203037.D
Operator :
Acquired : 4 Feb 2015 6:08 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203G-2
Misc Info : V2-36-08
Vial Number: 37



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150203\0203002.D\FID2B.CH
Acq On : 3 Feb 2015 10:26 Operator:
Sample : CCVD0203B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 10:55 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

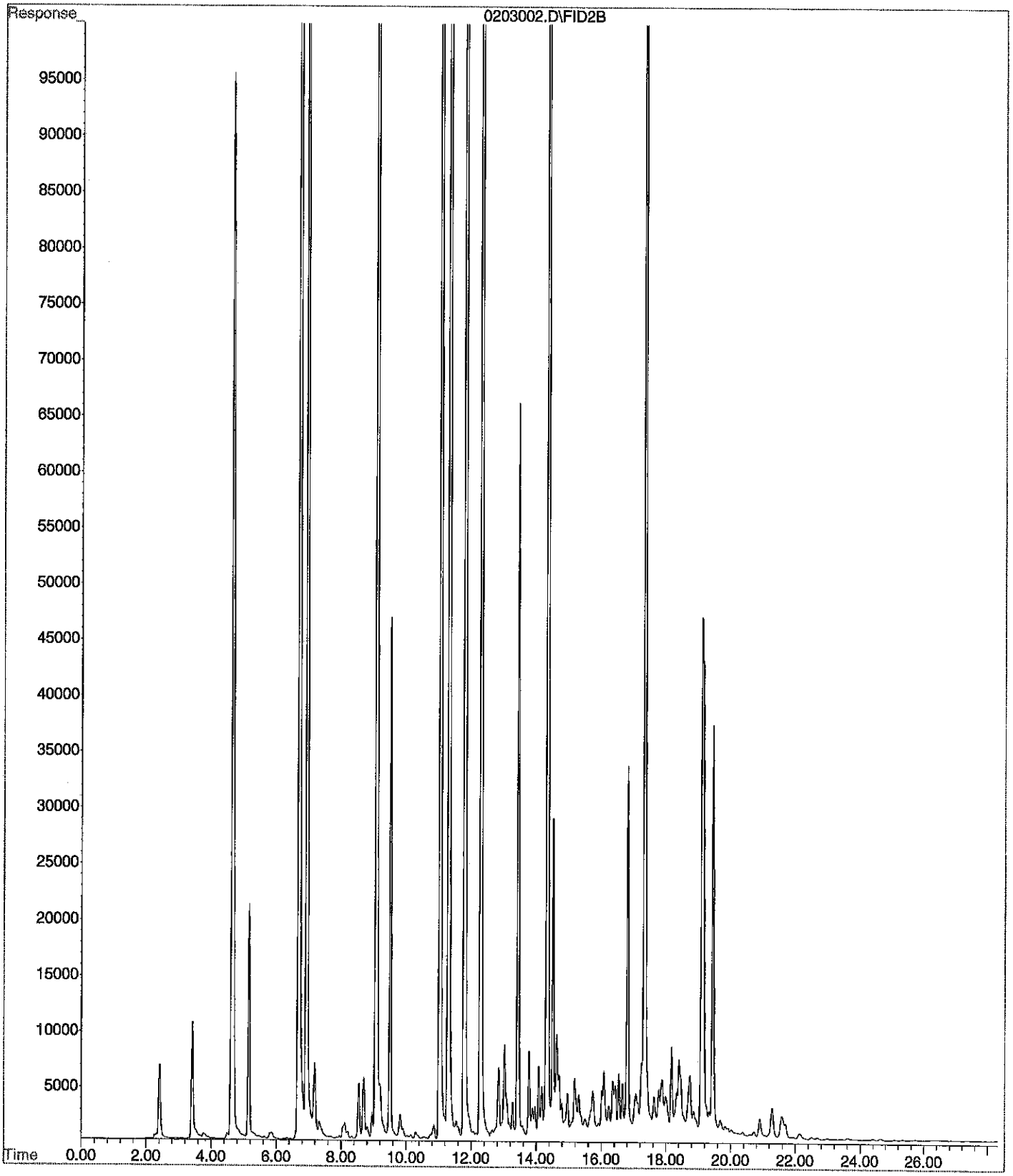
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3178944	45.853 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1961193	48.422 PPB
12)	S	FLUOROBENZENE #2	6.92	8143247	36.694 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11648600	38.888 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	34434207	0.693 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	58574608	0.886 PPM
3)	H	GASOLINE (9-24-14)	13.51	39423054	0.976 PPM
7)	H	entire GAS envelope #2 (9-	12.26	118396039	0.776 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	90342341	1.064 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	87925714	0.742 PPM
10)		MTBE #2	4.64	4466930	61.125 PPB
11)		BENZENE #2	6.68	14886345	50.682 PPB
13)		TOLUENE #2	9.07	13918910	49.908 PPB
14)		ETHYLBENZENE #2	11.04	12341342	50.138 PPB
15)		m,p-XYLENE #2	11.30	15030846	51.272 PPB
16)		o-XYLENE #2	11.79	12411728	49.339 PPB

2/3

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203002.D
Operator :
Acquired : 3 Feb 2015 10:26 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203019.D\FID1A.CH Vial: 19
Signal #2 : d:\btex\DATA\D150203\0203019.D\FID2B.CH
Acq On : 3 Feb 2015 20:10 Operator:
Sample : CCVD0203B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

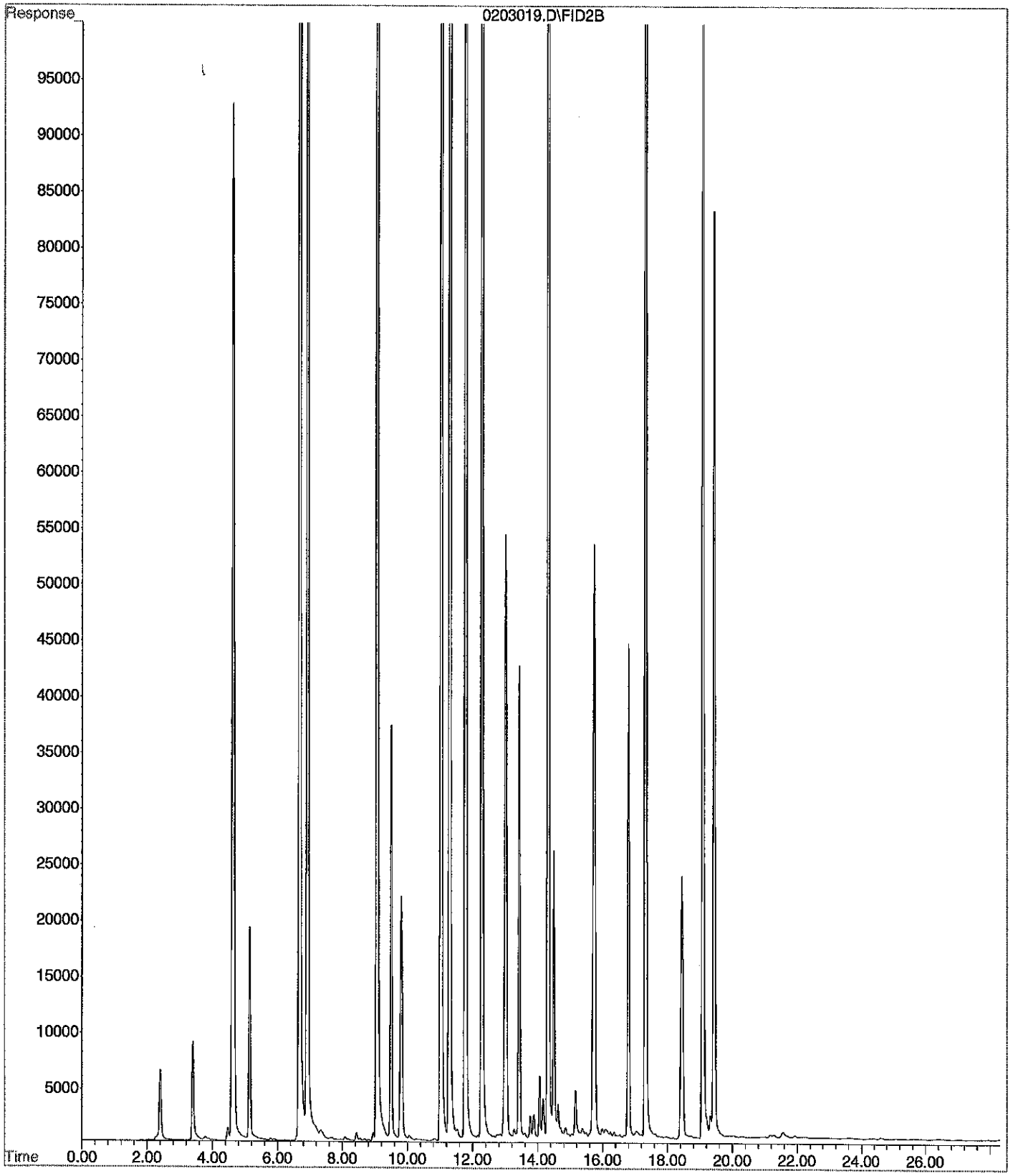
Quant Time: Feb 3 20:38 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3208687	46.285 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1954538	48.255 PPB
12)	S	FLUOROBENZENE #2	6.92	8112485	36.554 PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	11558879	38.584 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30445507	0.612 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50799511	0.767 PPM
3)	H	GASOLINE (9-24-14)	13.51	34315663	0.847 PPM
7)	H	entire GAS envelope #2 (9-	12.26	113287312	0.740 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	84163981	0.989 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	82749018	0.695 PPM
10)		MTBE #2	4.63	4363765	59.712 PPB
11)		BENZENE #2	6.68	13956173	47.512 PPB
13)		TOLUENE #2	9.06	13074687	46.870 PPB
14)		ETHYLBENZENE #2	11.03	11449883	46.508 PPB
15)		m,p-XYLENE #2	11.29	13799023	47.025 PPB
16)		o-XYLENE #2	11.78	11710519	46.537 PPB

File : X:\BTEX\DARYL\DATA\D150203\0203019.D
Operator :
Acquired : 3 Feb 2015 20:10 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 19



NWTPH-Diesel Data

Quantitation Report (Not Reviewed)

Data File : 0203-T05.D
Sample : 01-238-01 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 15:18
Operator : ZT
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 15:53:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.644	109744075	38.182	PPM
Spiked Amount	50.000		Recovery =	76.36%	
	Target Compounds				
2) H	Gasoline	3.500	13699976	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	21862713	4.893	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	19029467	5.372	PPM
5) H	Oil (11-04-14)	22.000	60381001	17.185	PPM
6) H	Oil Acid Clean (11-...	22.000	60381001	7.220	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	17957219	5.277	PPM
8) H	Oil Combo (11-04-14)	22.000	59297579	16.988	PPM
9) H	Oil Acid Clean Combo ...	22.000	59297579	6.741	PPM
10) H	Alaska 102 DF2	13.025	19360331	NoCal	PPM
11) H	Alaska 103 Oil	20.000	28463044	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	13202000	3.263	PPM
13) H	Mineral Oil Combo (1...	16.000	9506828	2.653	PPM
14) H	Oil MO Combo (11-04-14)	22.000	58394488	17.143	PPM
15) H	Oil Acid Clean MO Com...	22.000	58394488	6.501	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

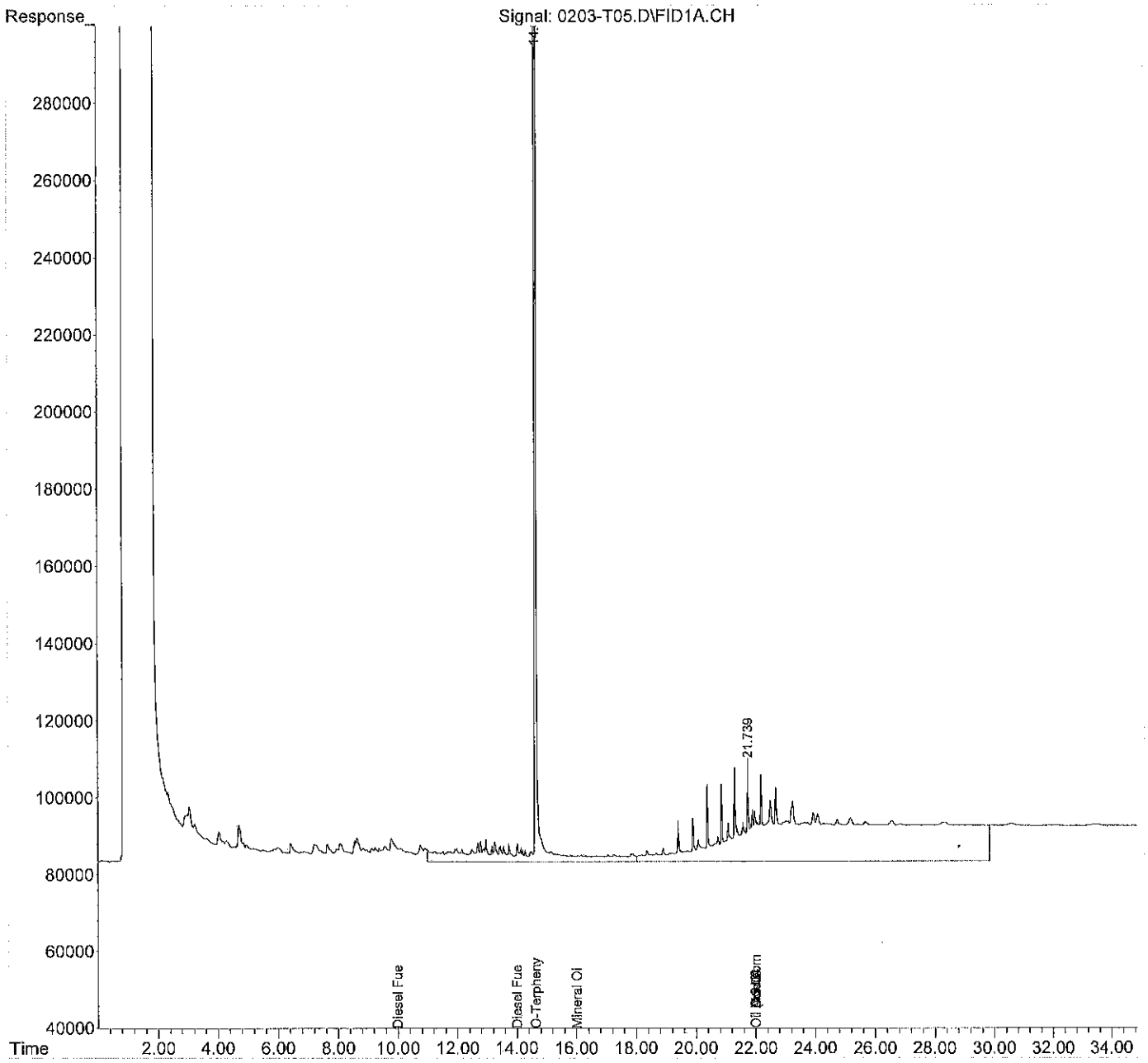
Quantitation Report (Not Reviewed)

Data File : 0203-T05.D
Sample : 01-238-01 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 15:18
Operator : ZT
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 15:53:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0203-T06.D
Sample : 01-238-02 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 16:00
Operator : ZT
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 16:35:49 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.644	120431529	41.876	PPM
Spiked Amount	50.000		Recovery =	83.75%	
	Target Compounds				
2) H	Gasoline	3.500	11877423	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	11997285	0.720	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	9113275	0.962	PPM
5) H	Oil (11-04-14)	22.000	50871908	12.512	PPM
6) H	Oil Acid Clean (11-...	22.000	50871908	1.961	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	8384697	0.950	PPM
8) H	Oil Combo (11-04-14)	22.000	50181093	12.398	PPM
9) H	Oil Acid Clean Combo ...	22.000	50181093	1.594	PPM
10) H	Alaska 102 DF2	13.025	9327838	NoCal	PPM
11) H	Alaska 103 Oil	20.000	22605839	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	8065875	1.220	PPM
13) H	Mineral Oil Combo (1...	16.000	5522261	1.018	PPM
14) H	Oil MO Combo (11-04-14)	22.000	49566623	12.524	PPM
15) H	Oil Acid Clean MO Com...	22.000	49566623	1.349	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

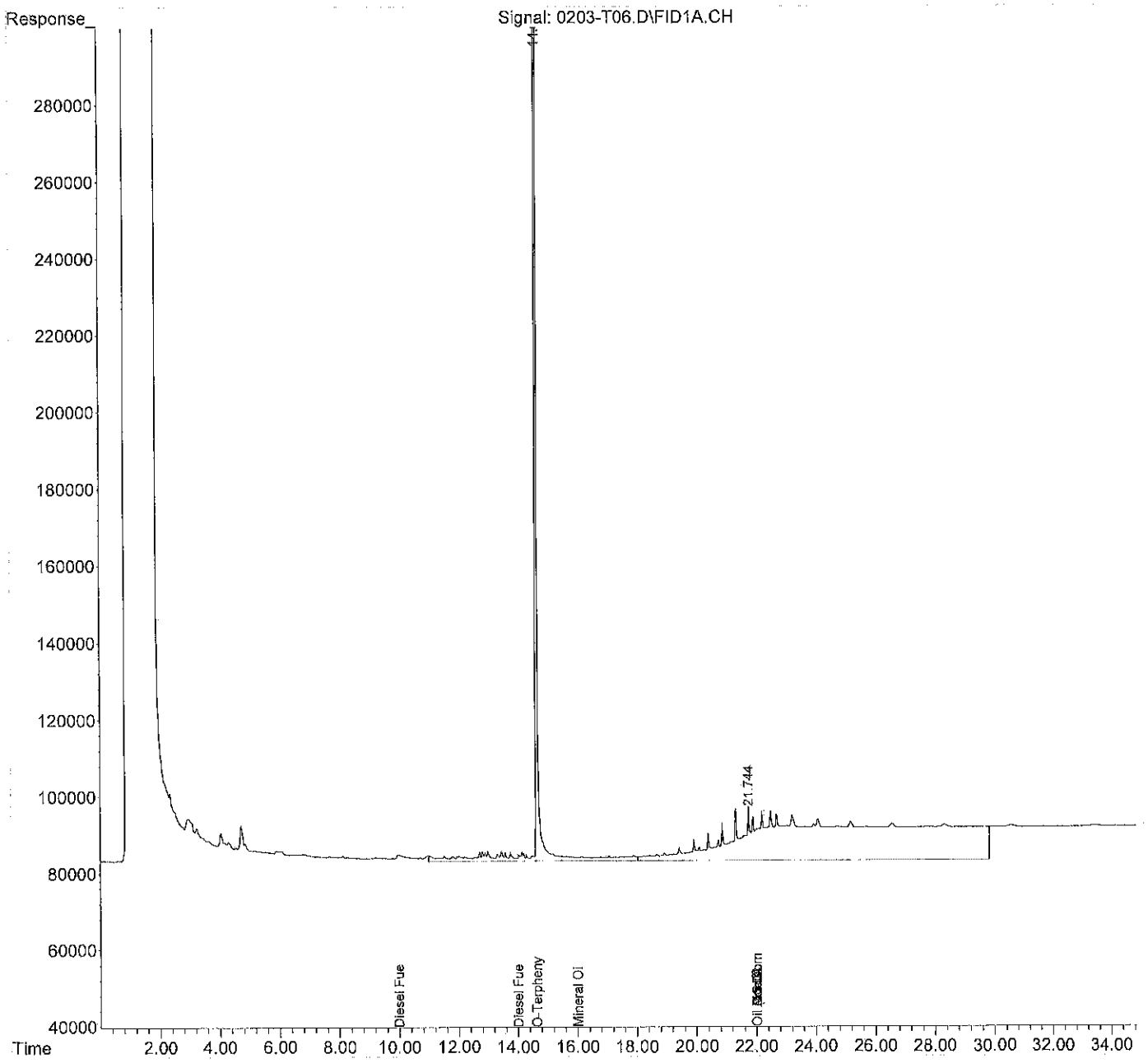
Quantitation Report (Not Reviewed)

Data File : 0203-T06.D
Sample : 01-238-02 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 16:00
Operator : ZT
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 16:35:49 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0203-T08.D
Sample : 01-238-03 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 17:42
Operator : ZT
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 18:16:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.645	121926690	42.393	PPM
Spiked Amount	50.000		Recovery =	84.79%	
	Target Compounds				
2) H	Gasoline	3.500	10043480	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	8053559	N.D.	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	5204155	N.D.	PPM
5) H	Oil (11-04-14)	22.000	44577047	9.418	PPM
6) H	Oil Acid Clean (11-...	22.000	44577047	N.D.	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	4839918	N.D.	PPM
8) H	Oil Combo (11-04-14)	22.000	44263792	9.419	PPM
9) H	Oil Acid Clean Combo ...	22.000	44263792	N.D.	PPM
10) H	Alaska 102 DF2	13.025	5326602	NoCal	PPM
11) H	Alaska 103 Oil	20.000	19892710	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	4772603	N.D.	PPM
13) H	Mineral Oil Combo (1...	16.000	3036860	N.D.	PPM
14) H	Oil MO Combo (11-04-14)	22.000	43959320	9.591	PPM
15) H	Oil Acid Clean MO Com...	22.000	43959320	N.D.	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

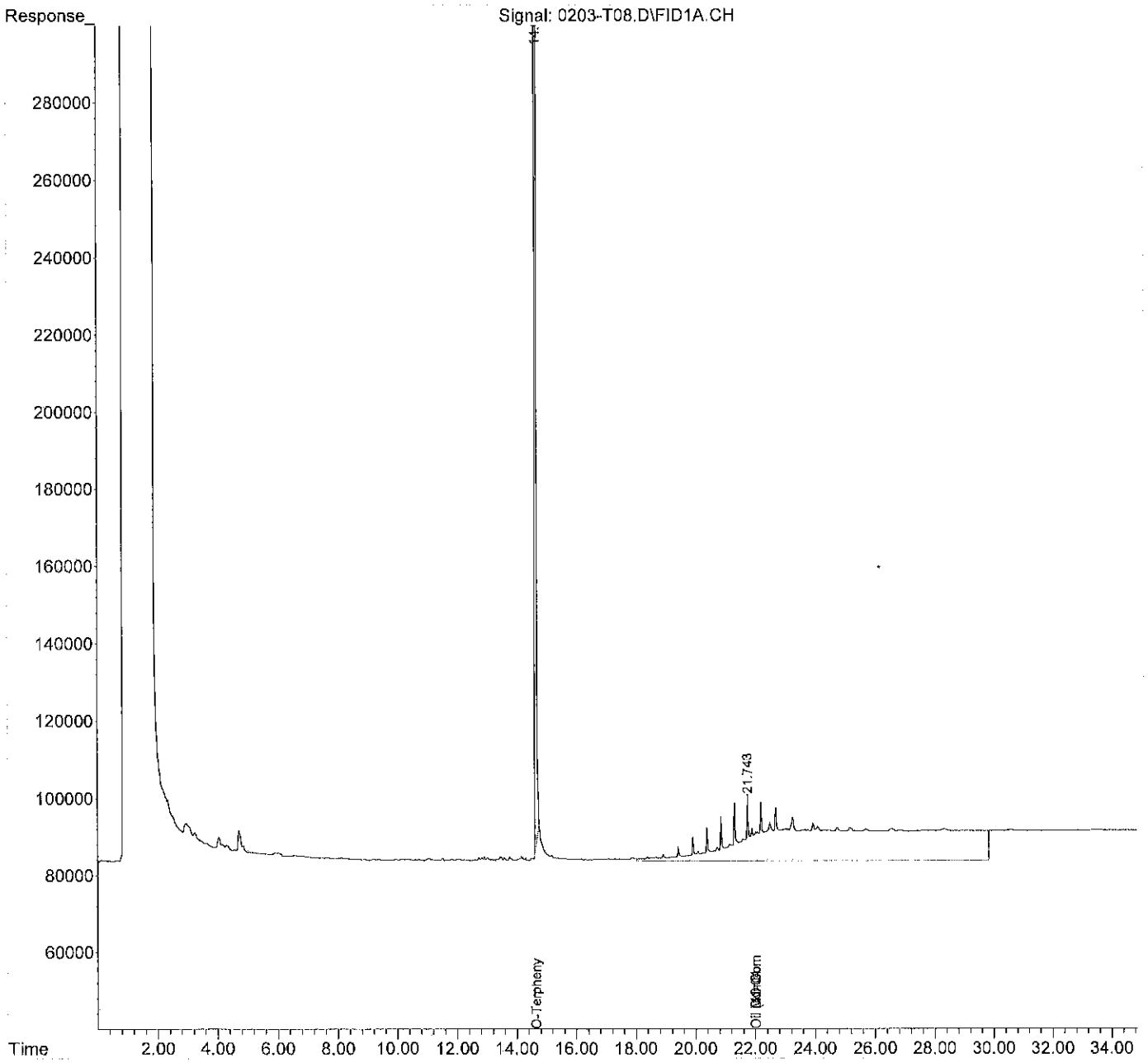
Quantitation Report (Not Reviewed)

Data File : 0203-T08.D
Sample : 01-238-03 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 17:42
Operator : ZT
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 18:16:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0203-T09.D
Sample : 01-238-04 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 18:24
Operator : ZT
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 18:59:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	14.643	108325111	37.691	PPM
Spiked Amount	50.000		Recovery =	75.38%	
	Target Compounds				
2) H	Gasoline	3.500	10071154	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	9467844	N.D.	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	6846608	N.D.	PPM
5) H	Oil (11-04-14)	22.000	45803134	10.020	PPM
6) H	Oil Acid Clean (11-...	22.000	45803134	N.D.	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	6364950	0.037	PPM
8) H	Oil Combo (11-04-14)	22.000	45378095	9.980	PPM
9) H	Oil Acid Clean Combo ...	22.000	45378095	N.D.	PPM
10) H	Alaska 102 DF2	13.025	6999818	NoCal	PPM
11) H	Alaska 103 Oil	20.000	19843377	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	6066525	0.424	PPM
13) H	Mineral Oil Combo (1...	16.000	4136799	0.450	PPM
14) H	Oil MO Combo (11-04-14)	22.000	44974864	10.122	PPM
15) H	Oil Acid Clean MO Com...	22.000	44974864	N.D.	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

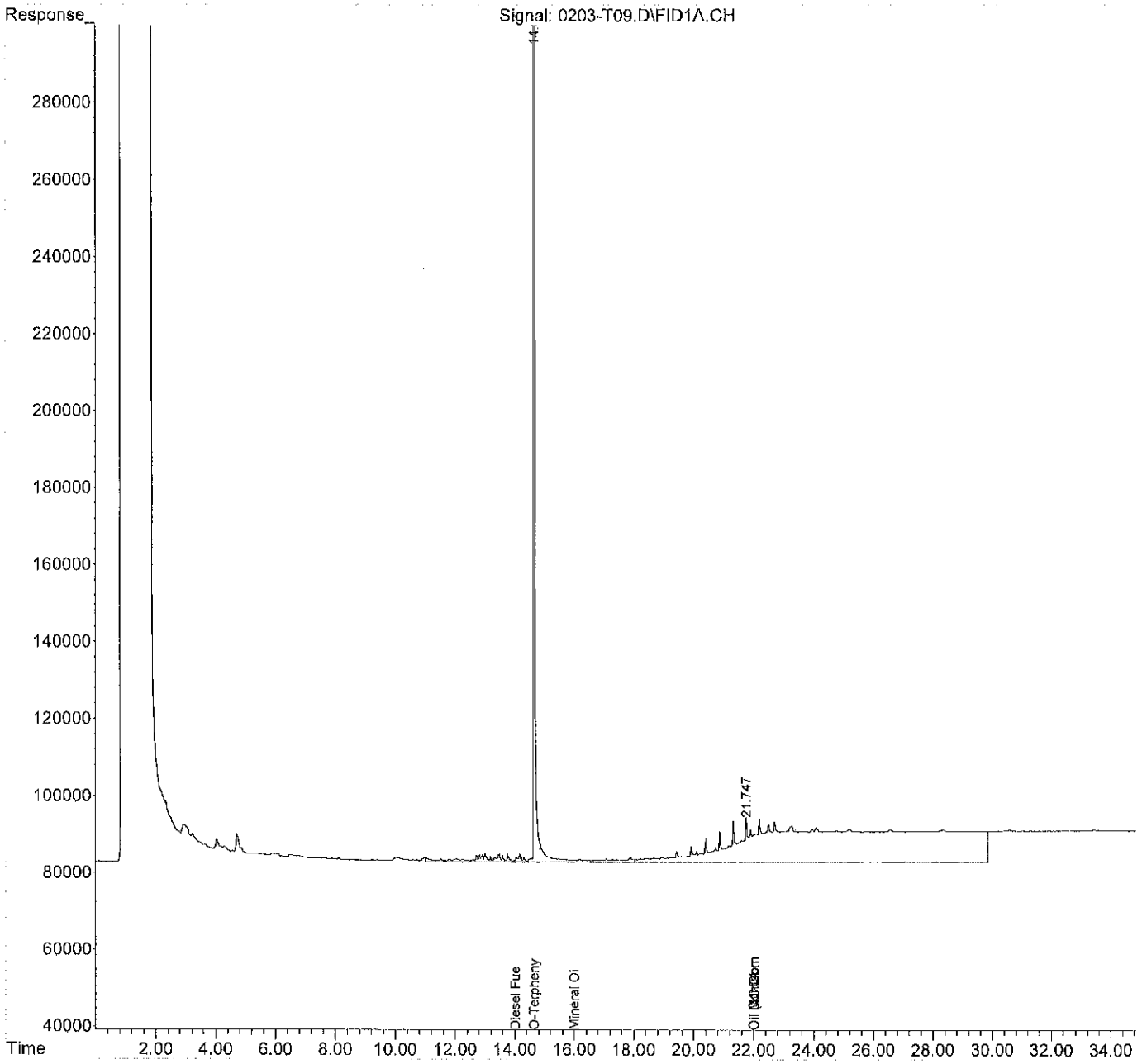
Quantitation Report (Not Reviewed)

Data File : 0203-T09.D
Sample : 01-238-04 ACU

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 18:24
Operator : ZT
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 18:59:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V11.D
Sample : MB0202S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 17:35
Operator :
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 18:11:48 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl (12-18-14)	14.747	153728759	49.879 PPM
Spiked Amount	50.000		Recovery =	99.76%
	Target Compounds			
2)	1-Chlorooctadecane (...	0.000	0	N.D. PPM
3) H	Gasoline	3.500	4208892	NoCal PPM
4) H	Diesel Fuel #1 (01-0...	10.000	4453436	0.522 PPM
5) H	Diesel Fuel #2 (01-...	14.000	3008663	1.957 PPM
6) H	Oil (12-18-14)	22.000	59666051	17.815 PPM
7) H	Oil Acid Clean (12-...	22.000	59666051	18.650 PPM
8) H	Diesel Fuel #2 Combo ...	14.000	2836459	1.839 PPM
9) H	Oil Combo (12-18-14)	22.000	59482116	18.527 PPM
10) H	Oil Acid Clean Combo ...	22.000	59482116	18.933 PPM
11) H	Alaska 102 DF2 (06-2...	13.025	3289634	N.D. PPM
12) H	Alaska 103 Oil (06-2...	22.000	19729744	10.752 PPM
13) H	Mineral Oil (12-18-14)	16.000	2666336	N.D. PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	58660950	25.818 PPM
15) H	Bunker C (Fuel Oil #6...	15.000	58660950	32.790 PPM
16) H	ALKANE C9-C40 10-26-07	12.666	59589470	736.740 PPM
17) H	Mineral Oil Combo (1...	16.000	1619584	N.D. PPM
18) H	Oil Acid Clean MO Com...	22.000	59335232	19.439 PPM
19) H	Oil MO Combo (12-18-14)	22.000	59335232	19.252 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

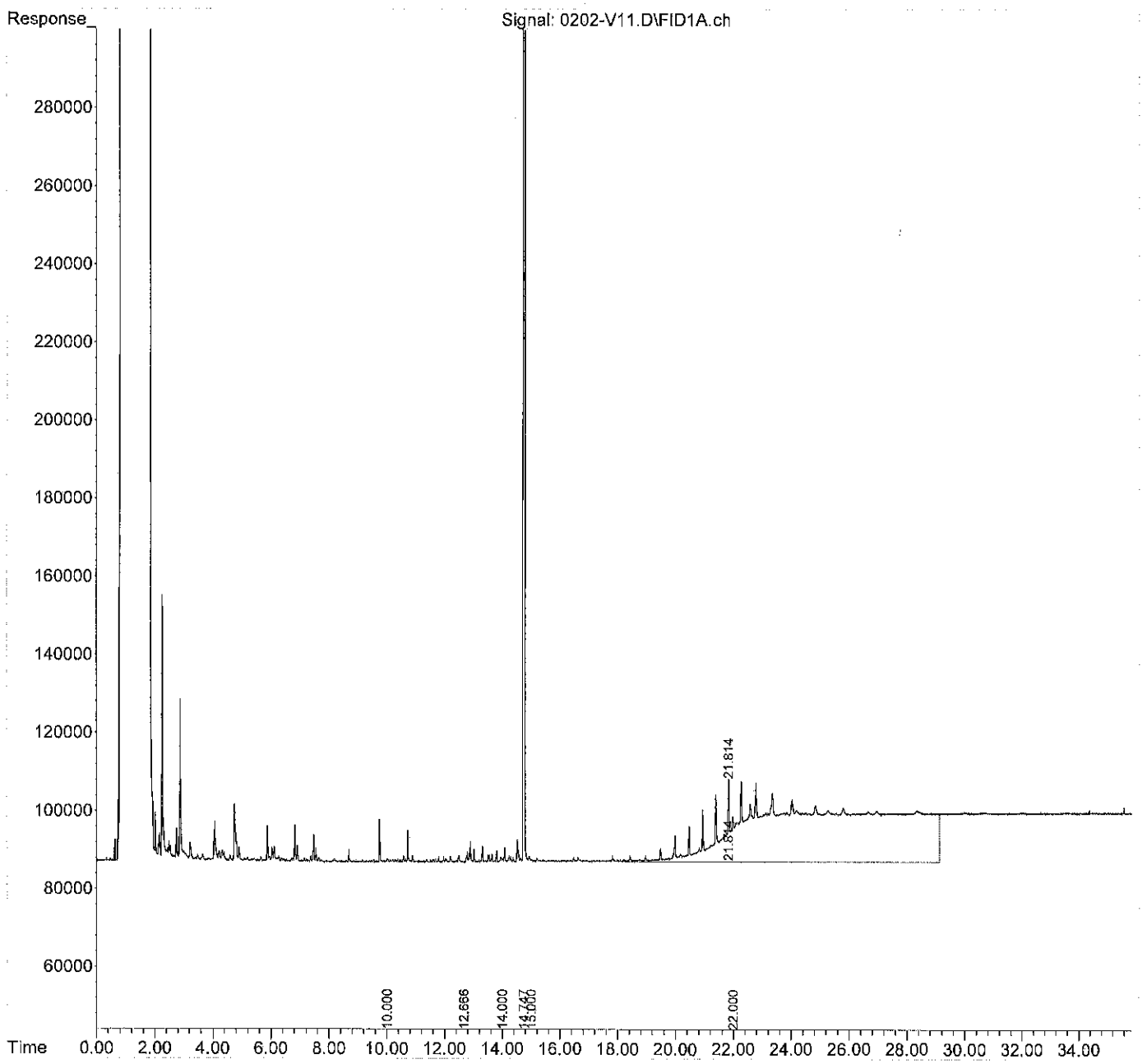
Quantitation Report (Not Reviewed)

Data File : 0202-V11.D
Sample : MB0202S1 ACU

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 17:35
Operator :
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 18:11:48 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V13.D
Sample : 02-001-02

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 18:57
Operator :
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 19:33:15 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl (12-18-14)	14.743	122063823	39.589 PPM
Spiked Amount	50.000		Recovery =	79.18%
	Target Compounds			
2)	1-Chlorooctadecane (...	0.000	0	N.D. PPM
3) H	Gasoline	3.500	4046225	NoCal PPM
4) H	Diesel Fuel #1 (01-0...	10.000	89968244	35.978 PPM
5) H	Diesel Fuel #2 (01-...	14.000	126706944	54.191 PPM
6) H	Oil (12-18-14)	22.000	100169926	37.634 PPM
7) H	Oil Acid Clean (12-...	22.000	100169926	40.937 PPM
8) H	Diesel Fuel #2 Combo ...	14.000	116900444	51.020 PPM
9) H	Oil Combo (12-18-14)	22.000	71634855	24.581 PPM
10) H	Oil Acid Clean Combo ...	22.000	71634855	25.726 PPM
11) H	Alaska 102 DF2 (06-2...	13.025	126996517	47.693 PPM
12) H	Alaska 103 Oil (06-2...	22.000	23342674	14.087 PPM
13) H	Mineral Oil (12-18-14)	16.000	126704471	45.727 PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	185024267	117.209 PPM
15) H	Bunker C (Fuel Oil #6...	15.000	185024267	121.200 PPM
16) H	ALKANE C9-C40 10-26-07	12.666	185817814	2343.956 PPM
17) H	Mineral Oil Combo (1...	16.000	121925022	46.900 PPM
18) H	Oil Acid Clean MO Com...	22.000	62597382	21.315 PPM
19) H	Oil MO Combo (12-18-14)	22.000	62597382	20.930 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

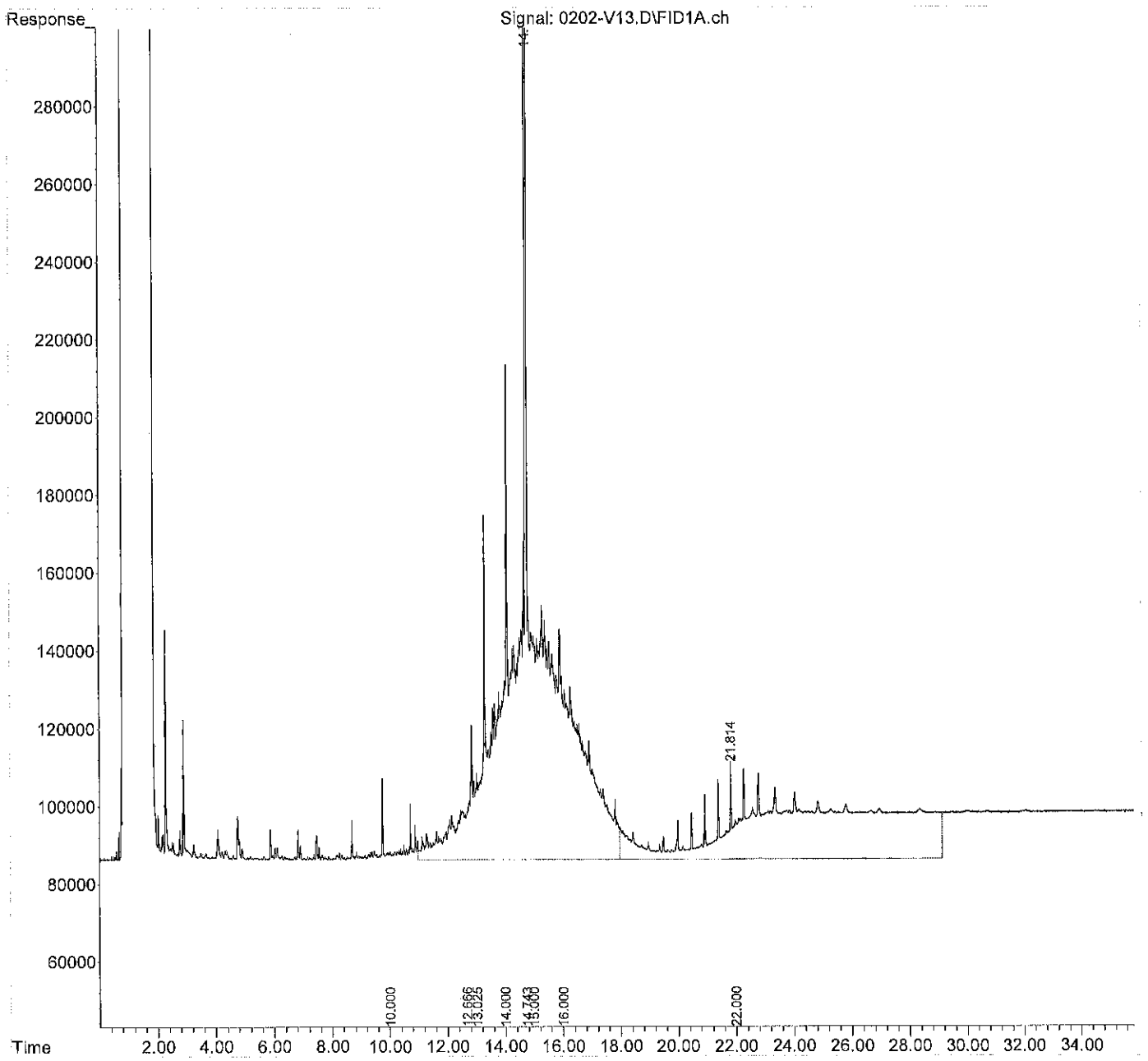
Quantitation Report (Not Reviewed)

Data File : 0202-V13.D
Sample : 02-001-02

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 18:57
Operator :
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 19:33:15 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V12.D
Sample : 02-001-02 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 18:16
Operator :
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 18:52:33 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	14.741	98722569	32.003	PPM
Spiked Amount	50.000		Recovery =	64.01%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	4250853	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	43209799	16.591	PPM
5) H	Diesel Fuel #2 (01-...	14.000	59946465	26.000	PPM
6) H	Oil (12-18-14)	22.000	82596474	29.035	PPM
7) H	Oil Acid Clean (12-...	22.000	82596474	31.267	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	55226317	24.428	PPM
9) H	Oil Combo (12-18-14)	22.000	69063302	23.300	PPM
10) H	Oil Acid Clean Combo ...	22.000	69063302	24.289	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	60294099	21.280	PPM
12) H	Alaska 103 Oil (06-2...	22.000	24591979	15.240	PPM
13) H	Mineral Oil (12-18-14)	16.000	60297040	20.398	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	120781552	70.746	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	120781552	76.253	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	121415808	1523.950	PPM
17) H	Mineral Oil Combo (1...	16.000	57229169	21.611	PPM
18) H	Oil Acid Clean MO Com...	22.000	64712018	22.531	PPM
19) H	Oil MO Combo (12-18-14)	22.000	64712018	22.018	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

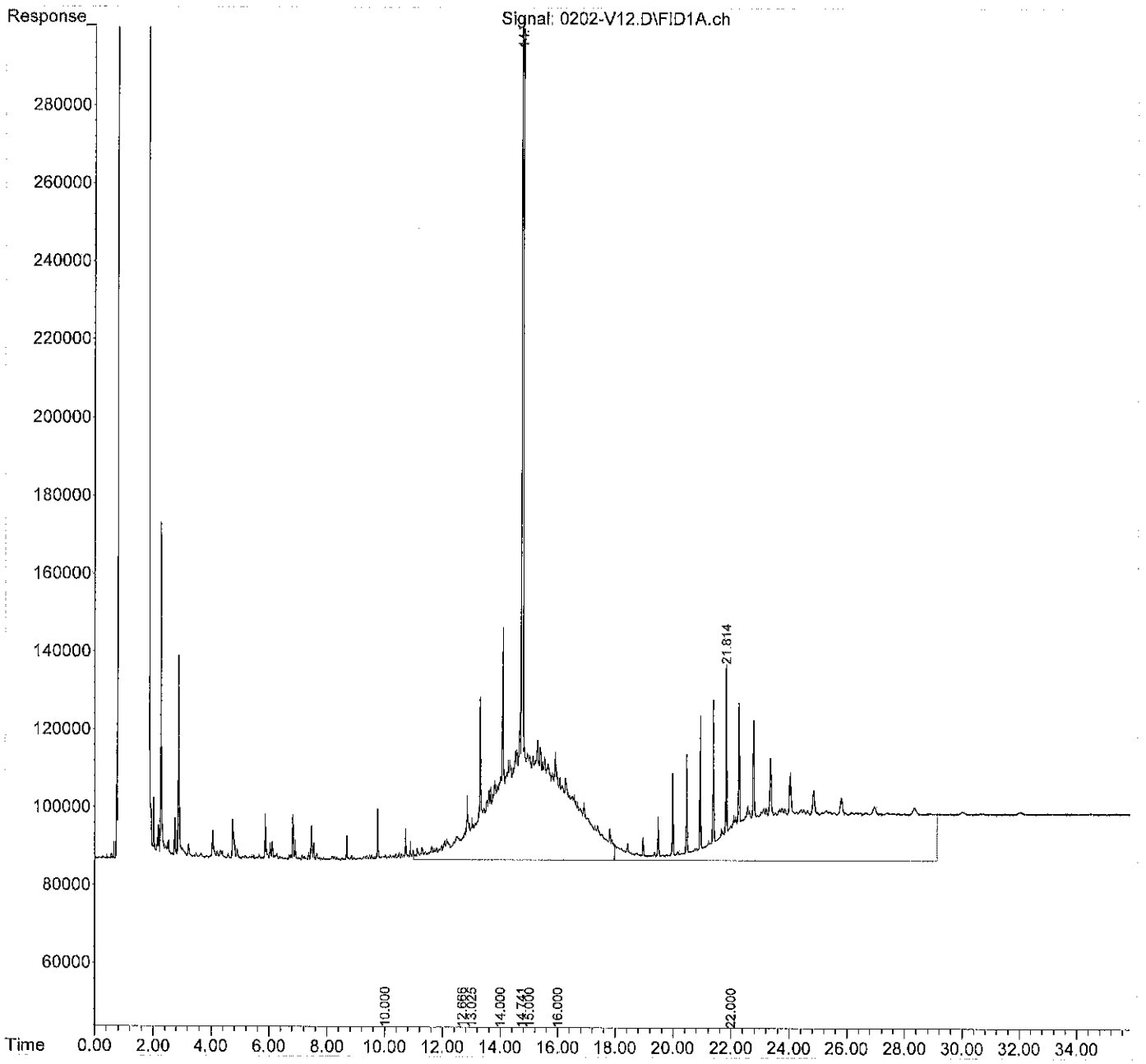
Quantitation Report (Not Reviewed)

Data File : 0202-V12.D
Sample : 02-001-02 DUP

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 18:16
Operator :
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 18:52:33 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V10.D
Sample : CCV0202F-V2

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 16:54
Operator :
Misc : SV3-12-03
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 17:30:54 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	27987368	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	231918128	94.831	PPM
5) H	Diesel Fuel #2 (01-...	14.000	233144343	99.136	PPM
6) H	Oil (12-18-14)	22.000	77068051	26.330	PPM
7) H	Oil Acid Clean (12-...	22.000	77068051	28.225	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	228673421	99.213	PPM
9) H	Oil Combo (12-18-14)	22.000	64856995	21.204	PPM
10) H	Oil Acid Clean Combo ...	22.000	64856995	21.938	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	236380165	91.008	PPM
12) H	Alaska 103 Oil (06-2...	22.000	20147606	11.138	PPM
13) H	Mineral Oil (12-18-14)	16.000	149982945	54.606	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	290849515	193.747	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	290849515	195.241	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	304468049	3854.682	PPM
17) H	Mineral Oil Combo (1...	16.000	147224227	56.790	PPM
18) H	Oil Acid Clean MO Com...	22.000	60759168	20.258	PPM
19) H	Oil MO Combo (12-18-14)	22.000	60759168	19.984	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

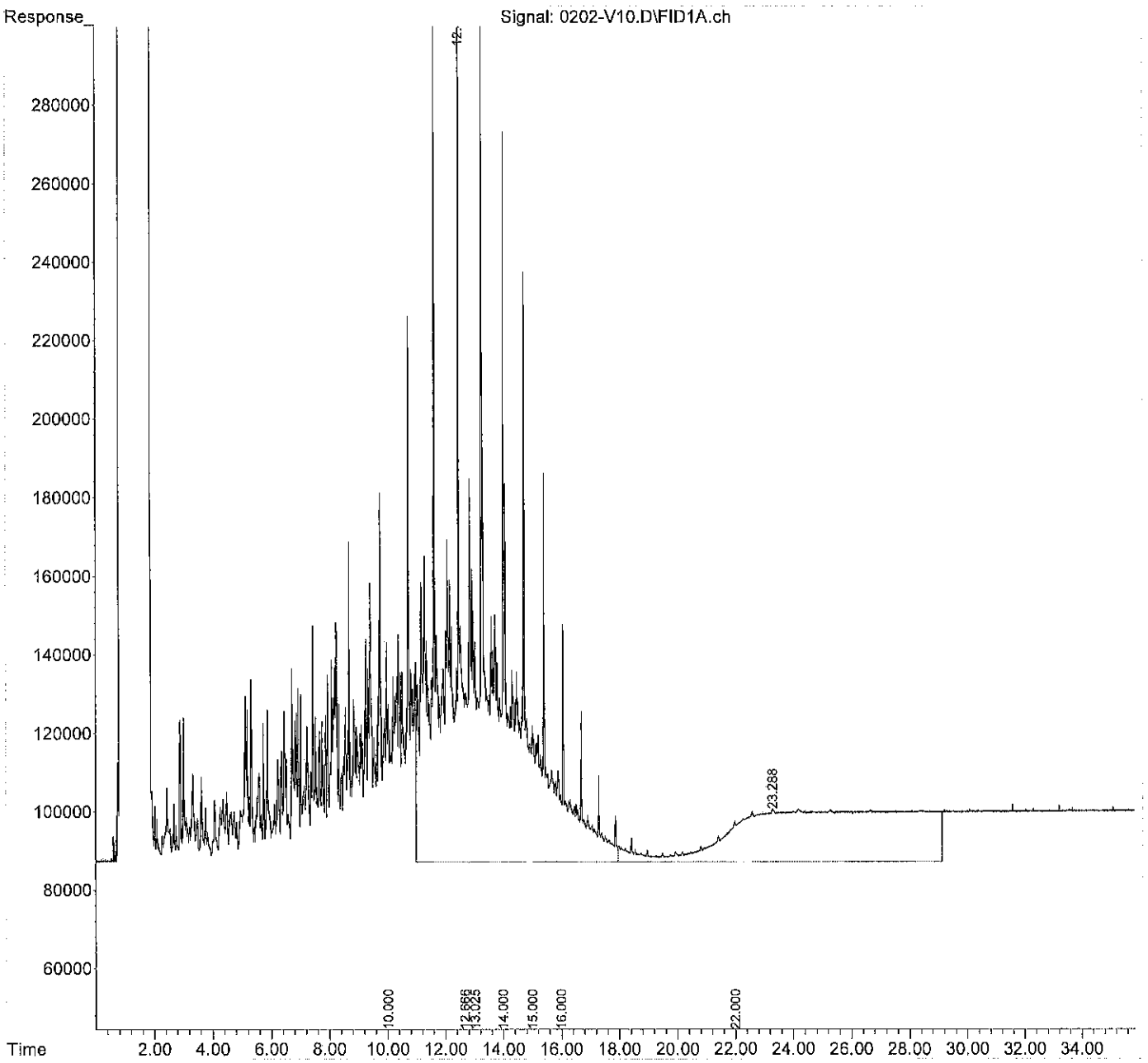
Quantitation Report (Not Reviewed)

Data File : 0202-V10.D
Sample : CCV0202F-V2

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 16:54
Operator :
Misc : SV3-12-03
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 17:30:54 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0202-V19.D
Sample : CCV0202F-V3

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 23:01
Operator :
Misc : SV3-12-03
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 23:37:21 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (12-18-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2)	1-Chlorooctadecane (...	0.000	0	N.D.	PPM
3) H	Gasoline	3.500	27637557	NoCal	PPM
4) H	Diesel Fuel #1 (01-0...	10.000	239838929	98.115	PPM
5) H	Diesel Fuel #2 (01-...	14.000	242069788	102.905	PPM
6) H	Oil (12-18-14)	22.000	79962704	27.746	PPM
7) H	Oil Acid Clean (12-...	22.000	79962704	29.818	PPM
8) H	Diesel Fuel #2 Combo ...	14.000	237324571	102.943	PPM
9) H	Oil Combo (12-18-14)	22.000	67191962	22.367	PPM
10) H	Oil Acid Clean Combo ...	22.000	67191962	23.243	PPM
11) H	Alaska 102 DF2 (06-2...	13.025	245324358	94.550	PPM
12) H	Alaska 103 Oil (06-2...	22.000	22084798	12.926	PPM
13) H	Mineral Oil (12-18-14)	16.000	157346642	57.414	PPM
14) H	Bunker C ACU (Fuel Oi...	15.000	301906386	201.743	PPM
15) H	Bunker C (Fuel Oil #6...	15.000	301906386	202.977	PPM
16) H	ALKANE C9-C40 10-26-07	12.666	315356212	3993.317	PPM
17) H	Mineral Oil Combo (1...	16.000	153460644	59.227	PPM
18) H	Oil Acid Clean MO Com...	22.000	62853128	21.462	PPM
19) H	Oil MO Combo (12-18-14)	22.000	62853128	21.062	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

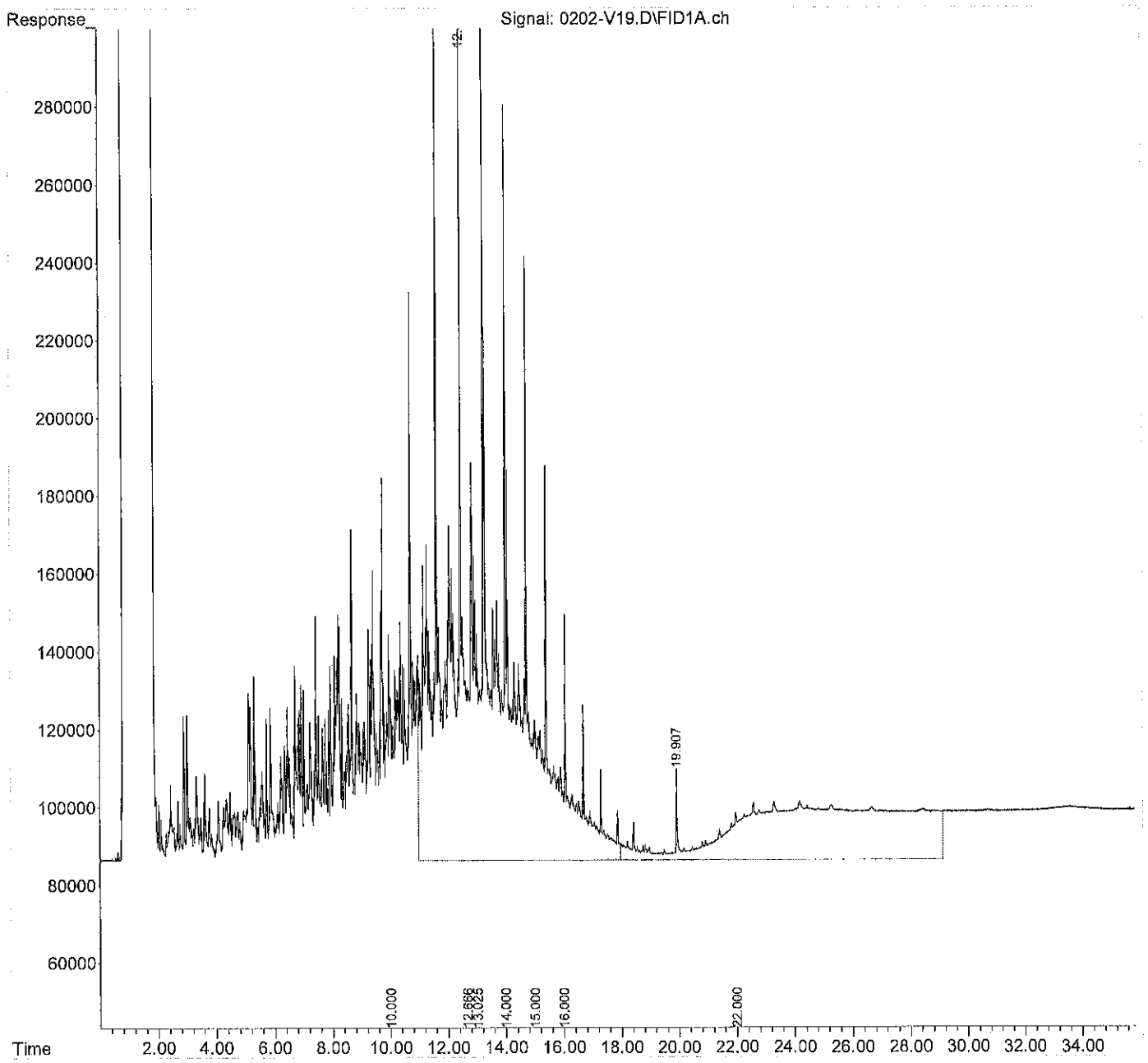
Quantitation Report (Not Reviewed)

Data File : 0202-V19.D
Sample : CCV0202F-V3

Data Path : X:\DIESELS\VIGO\DATA\V150202\
Signal(s) : FID1A.ch
Acq On : 2 Feb 2015 23:01
Operator :
Misc : SV3-12-03
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 02 23:37:21 2015
Quant Method : C:\MSDCHEM\2\METHODS\V150105F.M
Quant Title : GCTPH
QLast Update : Fri Oct 19 15:50:31 2007
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0203-T01.D
Sample : CCV0203F-T1

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 12:26
Operator : ZT
Misc : SV3-12-03
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 13:00:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	35171877	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	231868316	93.722	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	228497699	98.538	PPM
5) H	Oil (11-04-14)	22.000	55475103	14.774	PPM
6) H	Oil Acid Clean (11-...	22.000	55475103	4.507	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	225126954	98.921	PPM
8) H	Oil Combo (11-04-14)	22.000	45117965	9.849	PPM
9) H	Oil Acid Clean Combo ...	22.000	45117965	N.D.	PPM
10) H	Alaska 102 DF2	13.025	228678674	NoCal	PPM
11) H	Alaska 103 Oil	20.000	17315982	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	143843886	55.242	PPM
13) H	Mineral Oil Combo (1...	16.000	142063448	57.033	PPM
14) H	Oil MO Combo (11-04-14)	22.000	41996927	8.564	PPM
15) H	Oil Acid Clean MO Com...	22.000	41996927	N.D.	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

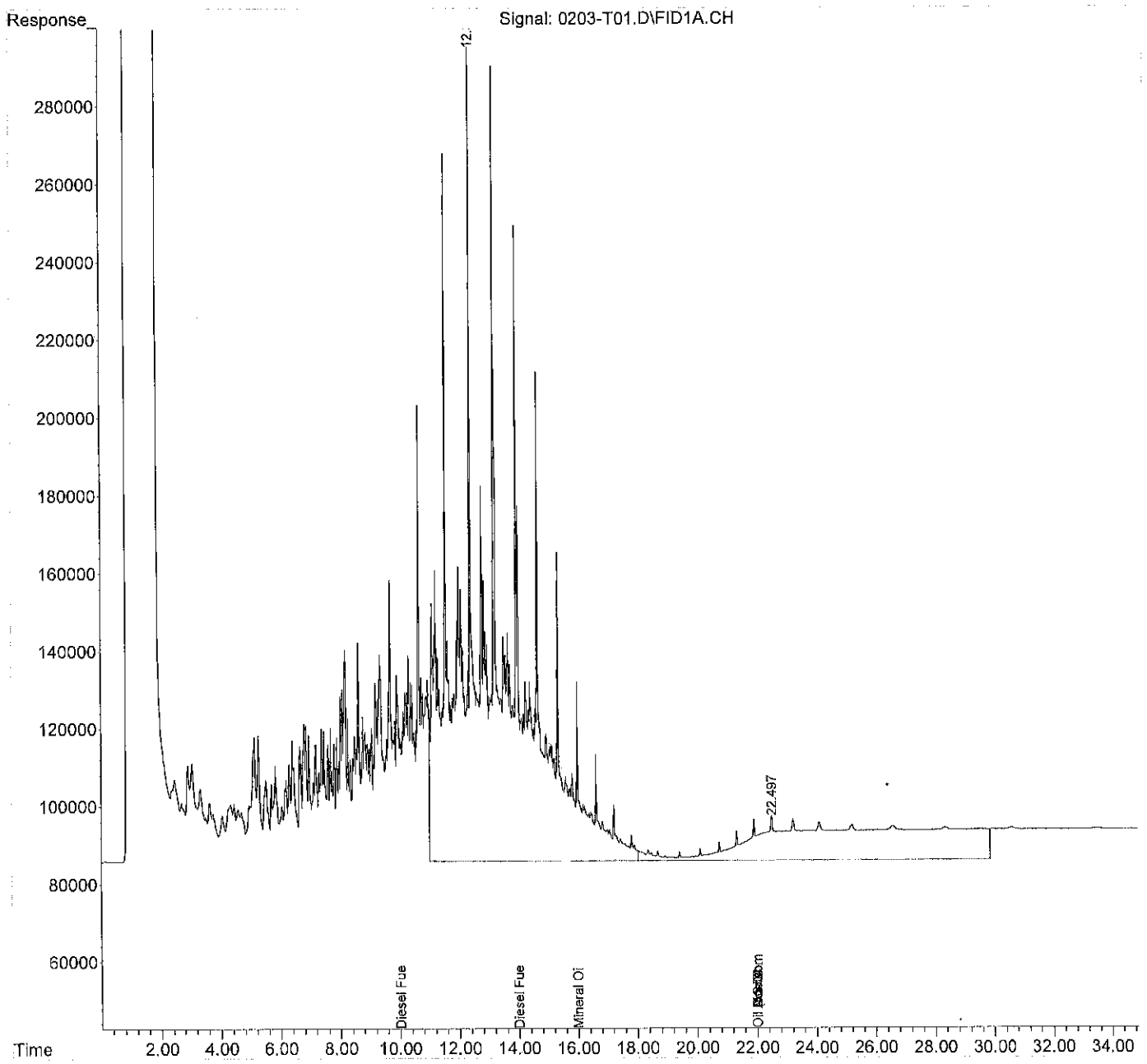
Quantitation Report (Not Reviewed)

Data File : 0203-T01.D
Sample : CCV0203F-T1

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 12:26
Operator : ZT
Misc : SV3-12-03
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 13:00:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : 0203-T13.D
Sample : CCV0203F-T2

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 21:12
Operator : ZT
Misc : SV3-12-03
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 21:47:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl (04-01-14)	0.000	0	N.D.	PPM
Spiked Amount	50.000		Recovery =	0.00%	
	Target Compounds				
2) H	Gasoline	3.500	33944695	NoCal	PPM
3) H	Diesel Fuel #1 (12-0...	10.000	227026768	91.674	PPM
4) H	Diesel Fuel #2 (12-0...	14.000	226060197	97.453	PPM
5) H	Oil (11-04-14)	22.000	64790917	19.353	PPM
6) H	Oil Acid Clean (11-...	22.000	64790917	9.659	PPM
7) H	Diesel Fuel #2 Combo ...	14.000	221622288	97.337	PPM
8) H	Oil Combo (11-04-14)	22.000	53618418	14.129	PPM
9) H	Oil Acid Clean Combo ...	22.000	53618418	3.535	PPM
10) H	Alaska 102 DF2	13.025	226600380	NoCal	PPM
11) H	Alaska 103 Oil	20.000	22199599	NoCal	PPM
12) H	Mineral Oil (12-08-14)	16.000	145711177	55.985	PPM
13) H	Mineral Oil Combo (1...	16.000	141662535	56.869	PPM
14) H	Oil MO Combo (11-04-14)	22.000	49595994	12.540	PPM
15) H	Oil Acid Clean MO Com...	22.000	49595994	1.366	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

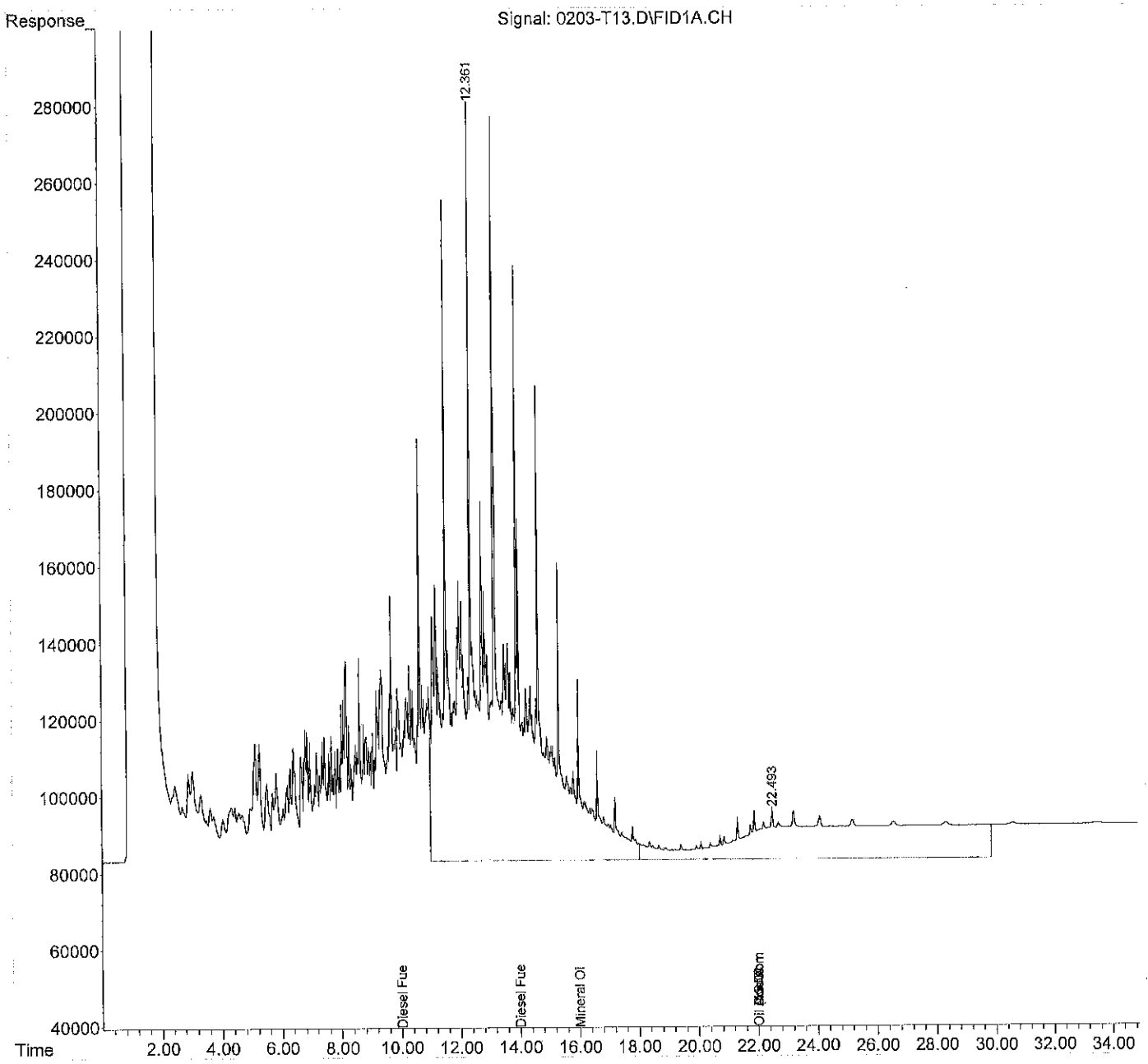
Quantitation Report (Not Reviewed)

Data File : 0203-T13.D
Sample : CCV0203F-T2

Data Path : X:\DIESELS\TERI\DATA\T150203\
Signal(s) : FID1A.CH
Acq On : 03 Feb 2015 21:12
Operator : ZT
Misc : SV3-12-03
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 03 21:47:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\T141208F.M
Quant Title : GCTPH
QLast Update : Fri Jun 18 15:10:26 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



cPAHs Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203018.D
Acq On : 3 Feb 2015 4:07 pm
Operator :
Sample : 01-238-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 03 16:22:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.169	136	345530	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	192296	2000.00	ppb	0.00
10) Phenanthrene-d10	6.422	188	337293	2000.00	ppb	0.00
17) Chrysene-d12	8.575	240	343864	2000.00	ppb	0.01
21) Perylene-d12	10.048	264	341600	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.664	82	38771	835.82	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 83.58%			
7) 2-Fluorobiphenyl	4.957	172	136704	1043.85	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 104.38%#			
11) Pyrene-d10	7.443	212	152781	926.40	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 92.64%			
18) Terphenyl-d14	7.618	244	116228	809.41	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 80.94%			
Target Compounds						Qvalue
3) Naphthalene	4.180	128	7195	39.23	ppb	100
4) 2-Methylnaphthalene	4.680	142	1075	8.62	ppb	100
5) 1-Methylnaphthalene	4.754	142	15520	135.36	ppb	100
8) Acenaphthylene	5.314	152	727	4.88	ppb	100
9) Acenaphthene	5.437	153	3955	38.51	ppb	100
12) Fluorene	5.792	166	940	7.70	ppb	100
13) Phenanthrene	6.434	178	2372	12.83	ppb	100
14) Anthracene	6.465	178	802	5.06	ppb	100
15) Fluoranthene	7.281	202	5027	26.67	ppb	100
16) Pyrene	7.455	202	6998	35.35	ppb	100
19) Benzo[a]anthracene	8.556	228	1586	9.95	ppb	100
20) Chrysene	8.599	228	1649	9.00	ppb	100
22) Benzo[b]fluoranthene	9.665	252	1314	7.21	ppb	100
23) Benzo(j,k)fluoranthene	9.689	252	1129	6.72	ppb	100
24) Benzo[a]pyrene	9.985	252	1065	6.91	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.095	276	1209	6.62	ppb	100
26) Dibenz[a,h]anthracene	11.126	278	816	5.36	ppb	100
27) Benzo[g,h,i]perylene	11.364	276	1385	8.71	ppb	100

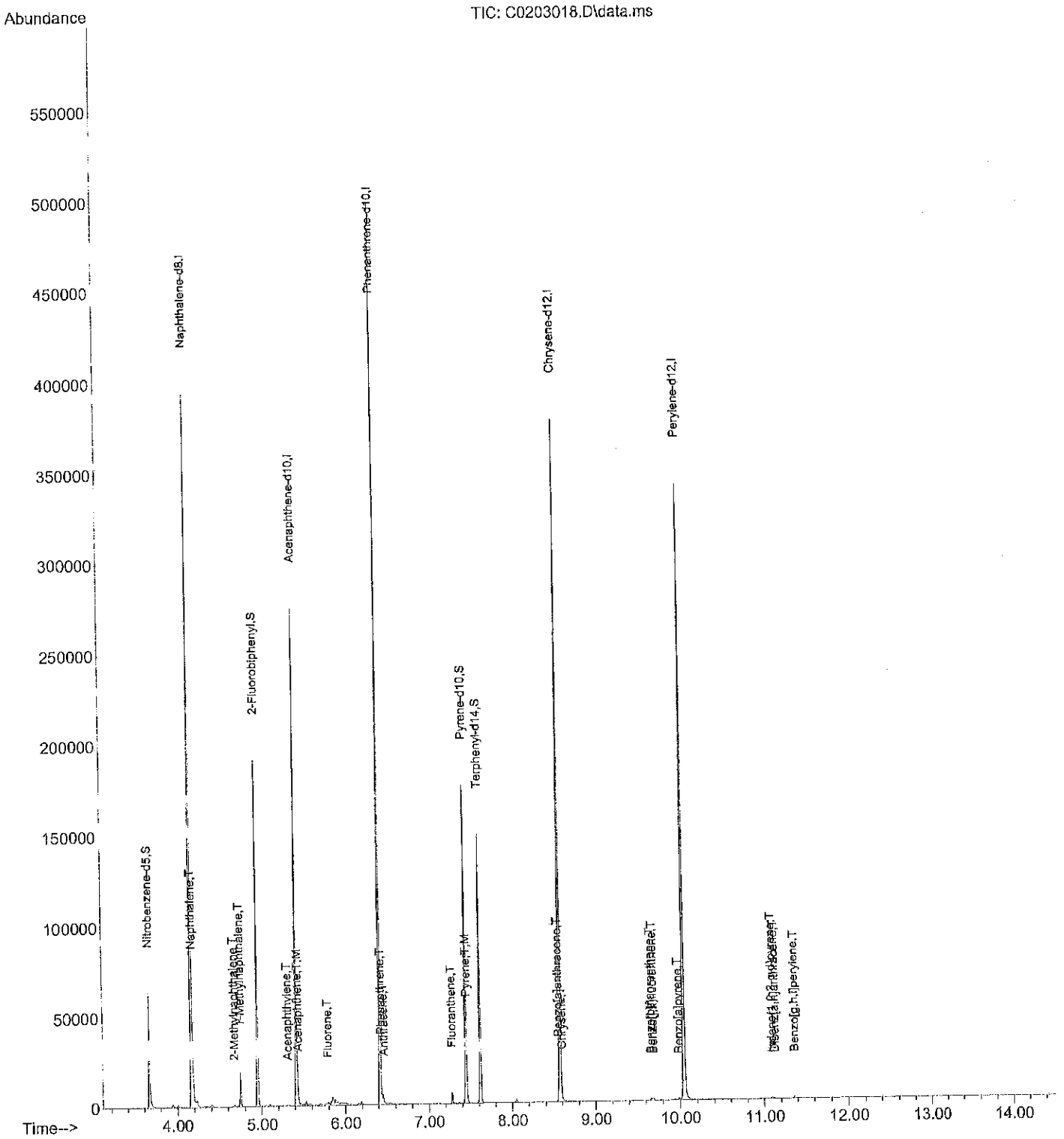
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203018.D
Acq On : 3 Feb 2015 4:07 pm
Operator :
Sample : 01-238-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 03 16:22:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203019.D
Acq On : 3 Feb 2015 4:28 pm
Operator :
Sample : 01-238-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 03 16:44:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.169	136	343171	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	193893	2000.00	ppb	0.00
10) Phenanthrene-d10	6.422	188	345137	2000.00	ppb	0.00
17) Chrysene-d12	8.575	240	346841	2000.00	ppb	0.01
21) Perylene-d12	10.048	264	346208	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.658	82	36885	800.62	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 80.06%			
7) 2-Fluorobiphenyl	4.957	172	132322	1002.07	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 100.21%#			
11) Pyrene-d10	7.448	212	153983	912.47	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 91.25%			
18) Terphenyl-d14	7.616	244	114150	788.11	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 78.81%			
Target Compounds						Qvalue
3) Naphthalene	4.181	128	1027	5.64	ppb	100
4) 2-Methylnaphthalene	4.676	142	284	2.29	ppb	100
5) 1-Methylnaphthalene	4.755	142	606	5.32	ppb	100
8) Acenaphthylene	5.314	152	134	0.89	ppb	100
9) Acenaphthene	5.437	153	253	2.44	ppb	100
12) Fluorene	5.792	166	303	2.43	ppb	100
13) Phenanthrene	6.434	178	1385	7.32	ppb	100
14) Anthracene	6.465	178	191	1.18	ppb	100
15) Fluoranthene	7.285	202	454	2.35	ppb	100
16) Pyrene	7.459	202	818	4.04	ppb	100
19) Benzo[a]anthracene	8.571	228	1152	7.17	ppb	100
20) Chrysene	8.571	228	1152	~~6.23~~	ppb φ	100
22) Benzo[b]fluoranthene	9.666	252	95	0.51	ppb	100
23) Benzo(j,k)fluoranthene	9.689	252	69	0.41	ppb	100
24) Benzo[a]pyrene	9.986	252	69	0.44	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.095	276	117	0.63	ppb	100
26) Dibenz[a,h]anthracene	11.122	278	71	0.46	ppb	100
27) Benzo[g,h,i]perylene	11.368	276	152	0.94	ppb	100

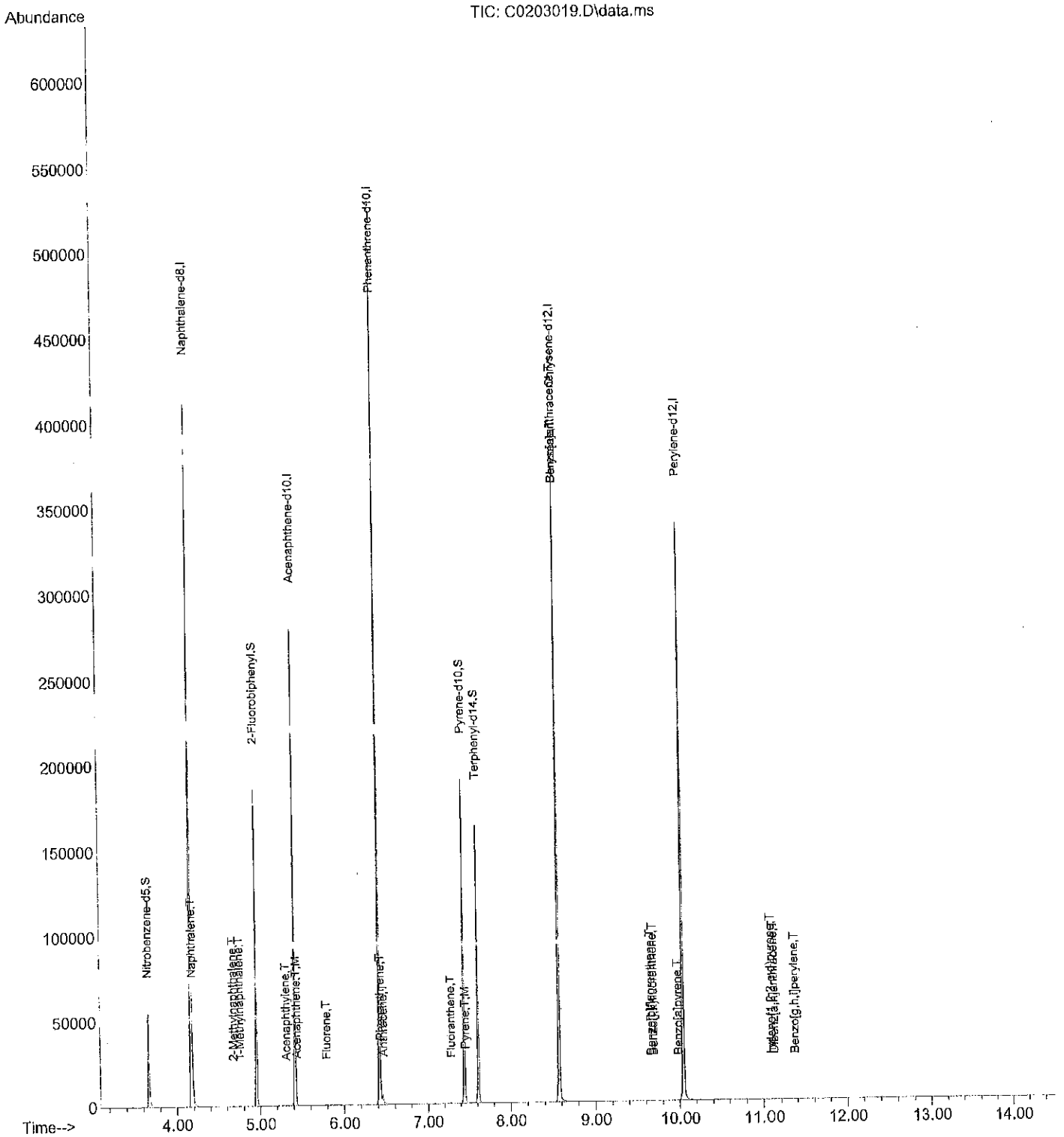
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15 TM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203019.D
Acq On : 3 Feb 2015 4:28 pm
Operator :
Sample : 01-238-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 03 16:44:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203020.D
Acq On : 3 Feb 2015 4:50 pm
Operator :
Sample : 01-238-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 03 17:05:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.168	136	344990	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	190283	2000.00	ppb	0.00
10) Phenanthrene-d10	6.423	188	337643	2000.00	ppb	0.00
17) Chrysene-d12	8.576	240	340906	2000.00	ppb	0.01
21) Perylene-d12	10.047	264	339920	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.663	82	38804	837.84	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 83.78%			
7) 2-Fluorobiphenyl	4.957	172	137287	1059.39	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 105.94%#			
11) Pyrene-d10	7.443	212	152411	923.20	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 92.32%			
18) Terphenyl-d14	7.617	244	110797	778.28	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 77.83%			
Target Compounds						Qvalue
3) Naphthalene	4.180	128	781	4.27	ppb	100
4) 2-Methylnaphthalene	4.680	142	332	2.67	ppb	100
5) 1-Methylnaphthalene	4.754	142	238	2.08	ppb	100
8) Acenaphthylene	5.307	152	188	1.28	ppb	100
9) Acenaphthene	5.438	153	289	2.84	ppb	100
12) Fluorene	5.792	166	201	1.65	ppb	100
13) Phenanthrene	6.434	178	1195	6.46	ppb	100
14) Anthracene	6.466	178	193	1.22	ppb	100
15) Fluoranthene	7.280	202	570	3.02	ppb	100
16) Pyrene	7.460	202	982	4.95	ppb	100
19) Benzo[a]anthracene	8.573	228	1335	8.45	ppb	100
20) Chrysene	8.596	228	316	1.74	ppb	100
22) Benzo[b]fluoranthene	9.665	252	269	1.48	ppb	100
23) Benzo(j,k)fluoranthene	9.688	252	226	1.35	ppb	100
24) Benzo[a]pyrene	9.985	252	188	1.22	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.098	276	249	1.37	ppb	100
26) Dibenz[a,h]anthracene	11.126	278	166	1.10	ppb	100
27) Benzo[g,h,i]perylene	11.368	276	321	2.03	ppb	100

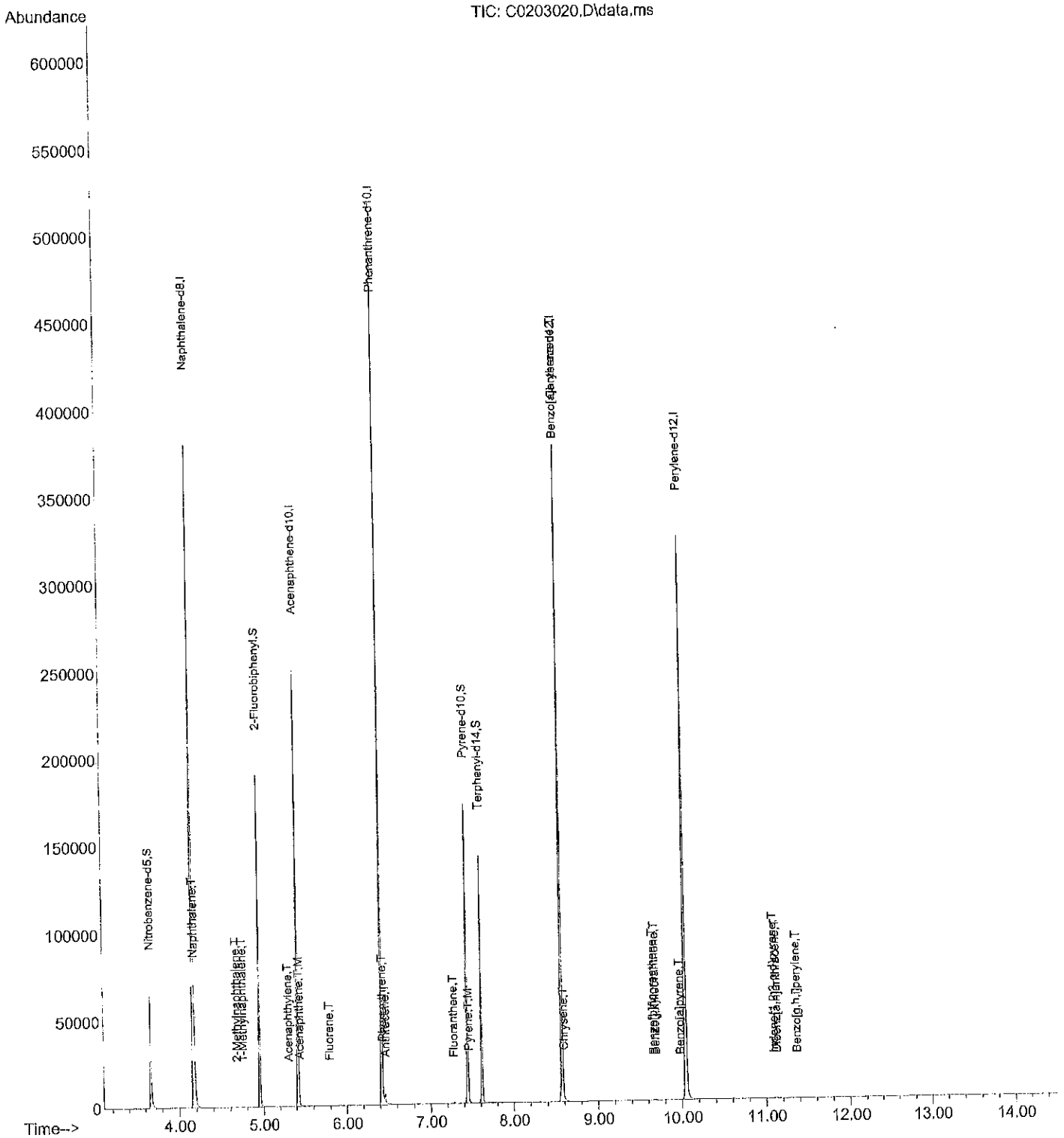
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15 EM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203020.D
Acq On : 3 Feb 2015 4:50 pm
Operator :
Sample : 01-238-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 03 17:05:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203021.D
Acq On : 3 Feb 2015 5:12 pm
Operator :
Sample : 01-238-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 03 17:27:30 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.168	136	330797	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	186494	2000.00	ppb	0.00
10) Phenanthrene-d10	6.423	188	332470	2000.00	ppb	0.00
17) Chrysene-d12	8.576	240	335059	2000.00	ppb	0.01
21) Perylene-d12	10.047	264	334048	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.663	82	37854	852.39	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 85.24%			
7) 2-Fluorobiphenyl	4.956	172	146025	1149.72	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 114.97%#			
11) Pyrene-d10	7.449	212	155333	955.54	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 95.55%			
18) Terphenyl-d14	7.617	244	113954	814.42	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 81.44%			
Target Compounds						Qvalue
3) Naphthalene	4.180	128	837	4.77	ppb	100
4) 2-Methylnaphthalene	4.679	142	329	2.76	ppb	100
5) 1-Methylnaphthalene	4.753	142	200	1.82	ppb	100
8) Acenaphthylene	5.307	152	110	0.76	ppb	100
9) Acenaphthene	5.438	153	162	1.63	ppb	100
12) Fluorene	5.792	166	159	1.32	ppb	100
13) Phenanthrene	6.434	178	929	5.10	ppb	100
14) Anthracene	6.465	178	153	0.98	ppb	100
15) Fluoranthene	7.286	202	332	1.79	ppb	100
16) Pyrene	7.460	202	640	3.28	ppb	100
19) Benzo[a]anthracene	8.572	228	1113	7.17	ppb	100
20) Chrysene	8.572	228	1113	~~6.23~~	ppb	100
22) Benzo[b]fluoranthene	9.665	252	108	0.61	ppb	100
23) Benzo(j,k)fluoranthene	9.665	252	108	0.66	ppb	100
24) Benzo[a]pyrene	9.981	252	68	0.45	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.098	276	90	0.50	ppb	100
26) Dibenz[a,h]anthracene	11.129	278	39	0.26	ppb	100
27) Benzo[g,h,i]perylene	11.367	276	161	1.04	ppb	100

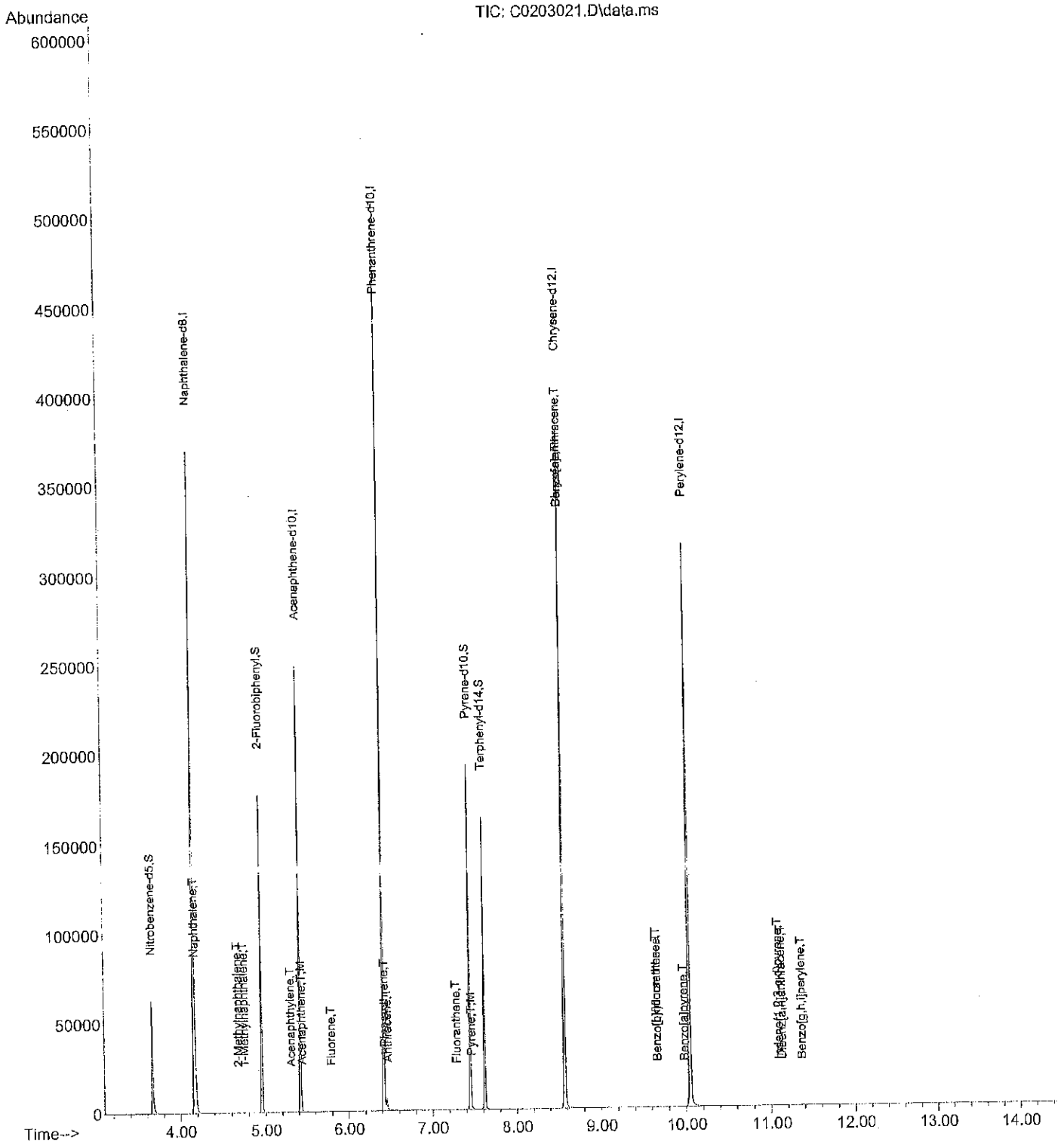
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15 EM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203021.D
Acq On : 3 Feb 2015 5:12 pm
Operator :
Sample : 01-238-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 03 17:27:30 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203015.D
Acq On : 3 Feb 2015 3:01 pm
Operator :
Sample : MB0202S1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 03 15:16:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.169	136	356271	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	198430	2000.00	ppb	0.00
10) Phenanthrene-d10	6.422	188	348585	2000.00	ppb	0.00
17) Chrysene-d12	8.576	240	349987	2000.00	ppb	0.01
21) Perylene-d12	10.048	264	350217	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.664	82	40351	843.65	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 84.36%			
7) 2-Fluorobiphenyl	4.956	172	156772	1160.08	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 116.01%#			
11) Pyrene-d10	7.448	212	162574	953.85	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 95.38%			
18) Terphenyl-d14	7.616	244	123776	846.89	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 84.69%			
Target Compounds						Qvalue
3) Naphthalene	4.180	128	690	3.65	ppb	100
4) 2-Methylnaphthalene	4.679	142	271	2.11	ppb	100
5) 1-Methylnaphthalene	4.753	142	184	1.56	ppb	100
8) Acenaphthylene	5.306	152	91	0.59	ppb	100
9) Acenaphthene	5.414	153	77	0.73	ppb	100
12) Fluorene	5.792	166	86	0.68	ppb	100
13) Phenanthrene	6.434	178	730	3.82	ppb	100
14) Anthracene	6.465	178	93	0.57	ppb	100
15) Fluoranthene	7.279	202	114	0.59	ppb	100
16) Pyrene	7.442	202	378	1.85	ppb	100
19) Benzo[a]anthracene	8.572	228	1163	7.17	ppb	100
20) Chrysene	8.572	228	1163	~~6.24~~	ppb ϕ	100
22) Benzo[b]fluoranthene	9.662	252	59	0.32	ppb	100
23) Benzo(j,k)fluoranthene	9.685	252	52	0.30	ppb	100
24) Benzo[a]pyrene	10.044	252	1401	~~8.86~~	ppb ϕ	100
25) Indeno(1,2,3-c,d)pyrene	11.092	276	79	0.42	ppb	100
26) Dibenz[a,h]anthracene	11.123	278	51	0.33	ppb	100
27) Benzo[g,h,i]perylene	11.365	276	80	0.49	ppb	100

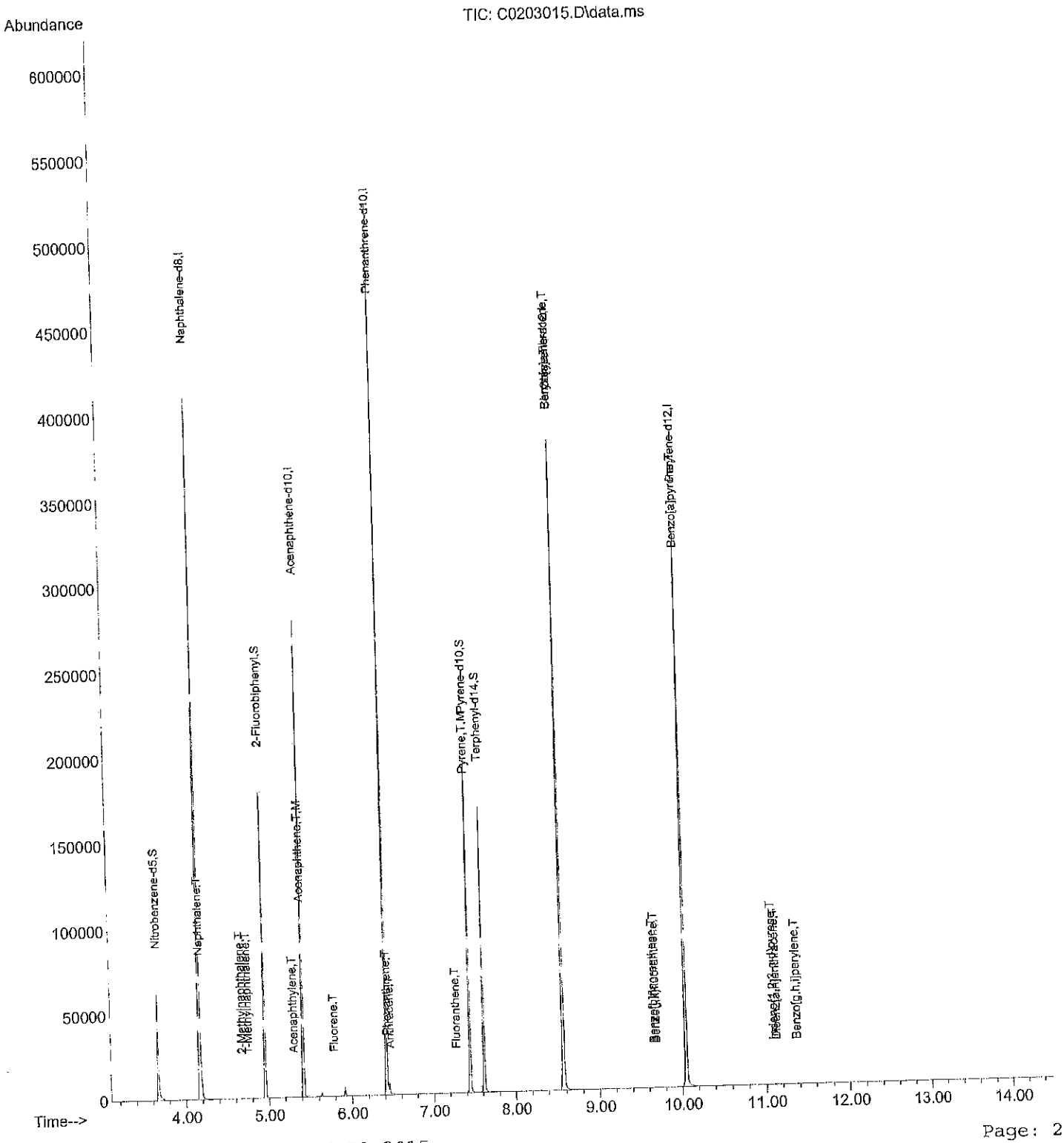
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15
SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203015.D
Acq On : 3 Feb 2015 3:01 pm
Operator :
Sample : MB0202S1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 03 15:16:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203022.D
Acq On : 3 Feb 2015 5:34 pm
Operator :
Sample : 01-238-04 MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 03 17:49:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.169	136	338857	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	188151	2000.00	ppb	0.00
10) Phenanthrene-d10	6.422	188	335121	2000.00	ppb	0.00
17) Chrysene-d12	8.576	240	341282	2000.00	ppb	0.01
21) Perylene-d12	10.048	264	341597	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.664	82	40021	879.75	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 87.98%			
7) 2-Fluorobiphenyl	4.960	172	139738	1090.53	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 109.05%#			
11) Pyrene-d10	7.448	212	157593	961.77	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 96.18%			
18) Terphenyl-d14	7.617	244	114703	804.83	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 80.48%			
Target Compounds						Qvalue
3) Naphthalene	4.181	128	87063	484.08	ppb	100
4) 2-Methylnaphthalene	4.679	142	59260	484.75	ppb	100
5) 1-Methylnaphthalene	4.753	142	55114	490.14	ppb	100
8) Acenaphthylene	5.306	152	83566	573.41	ppb	100
9) Acenaphthene	5.437	153	56793	565.22	ppb	100
12) Fluorene	5.792	166	69118	569.94	ppb	100
13) Phenanthrene	6.434	178	97986	533.39	ppb	100
14) Anthracene	6.465	178	90203	573.20	ppb	100
15) Fluoranthene	7.286	202	108052	576.98	ppb	100
16) Pyrene	7.460	202	113425	576.60	ppb	100
19) Benzo[a]anthracene	8.556	228	93133	588.79	ppb	100
20) Chrysene	8.599	228	92707	509.85	ppb	100
22) Benzo[b]fluoranthene	9.662	252	92644	508.09	ppb	100
23) Benzo(j,k)fluoranthene	9.689	252	77836	463.20	ppb	100
24) Benzo[a]pyrene	9.986	252	79126	513.05	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.095	276	76276	~~417.88~~ 524.42	ppb	100
26) Dibenz[a,h]anthracene	11.126	278	81418	535.17	ppb	100
27) Benzo[g,h,i]perylene	11.368	276	83976	528.33	ppb	100

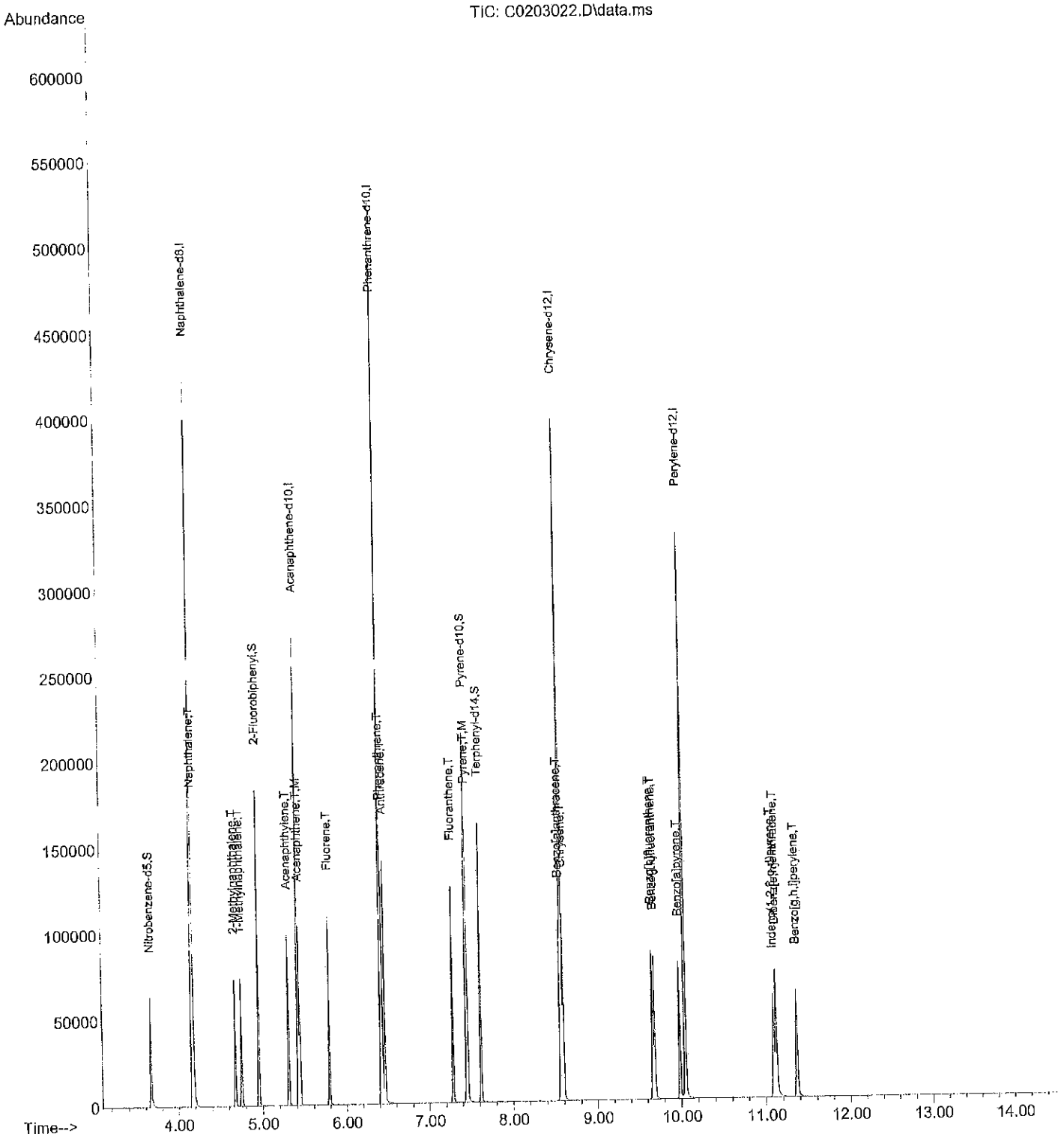
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203022.D
Acq On : 3 Feb 2015 5:34 pm
Operator :
Sample : 01-238-04 MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 03 17:49:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203023.D
Acq On : 3 Feb 2015 5:55 pm
Operator :
Sample : 01-238-04 MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 03 18:11:01 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.169	136	328587	2000.00	ppb	0.00
6) Acenaphthene-d10	5.422	164	185860	2000.00	ppb	0.00
10) Phenanthrene-d10	6.423	188	336440	2000.00	ppb	0.00
17) Chrysene-d12	8.576	240	345951	2000.00	ppb	0.01
21) Perylene-d12	10.047	264	343438	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.659	82	40202	911.35	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 91.14%			
7) 2-Fluorobiphenyl	4.956	172	138162	1091.52	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 109.15%#			
11) Pyrene-d10	7.449	212	156825	953.33	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 95.33%			
18) Terphenyl-d14	7.617	244	115187	797.32	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.73%			
Target Compounds						Qvalue
3) Naphthalene	4.181	128	85856	492.29	ppb	100
4) 2-Methylnaphthalene	4.679	142	58344	492.18	ppb	100
5) 1-Methylnaphthalene	4.753	142	54194	497.02	ppb	100
8) Acenaphthylene	5.307	152	82804	575.18	ppb	100
9) Acenaphthene	5.438	153	55350	557.65	ppb	100
12) Fluorene	5.792	166	67948	558.09	ppb	100
13) Phenanthrene	6.434	178	97257	527.34	ppb	100
14) Anthracene	6.466	178	88839	562.32	ppb	100
15) Fluoranthene	7.286	202	106073	564.19	ppb	100
16) Pyrene	7.460	202	111586	565.02	ppb	100
19) Benzo[a]anthracene	8.557	228	92634	577.74	ppb	100
20) Chrysene	8.600	228	91179	494.68	ppb	100
22) Benzo[b]fluoranthene	9.665	252	85779	467.92	ppb	100
23) Benzo(j,k)fluoranthene	9.688	252	79032	467.79	ppb	100
24) Benzo[a]pyrene	9.985	252	76862	495.70	ppb	100
25) Indeno(1,2,3-c,d)pyrene	11.094	276	73990	~~403.18~~ 511.41	ppb	100
26) Dibenz[a,h]anthracene	11.125	278	80113	523.77	ppb	100
27) Benzo[g,h,i]perylene	11.367	276	82416	515.74	ppb	100

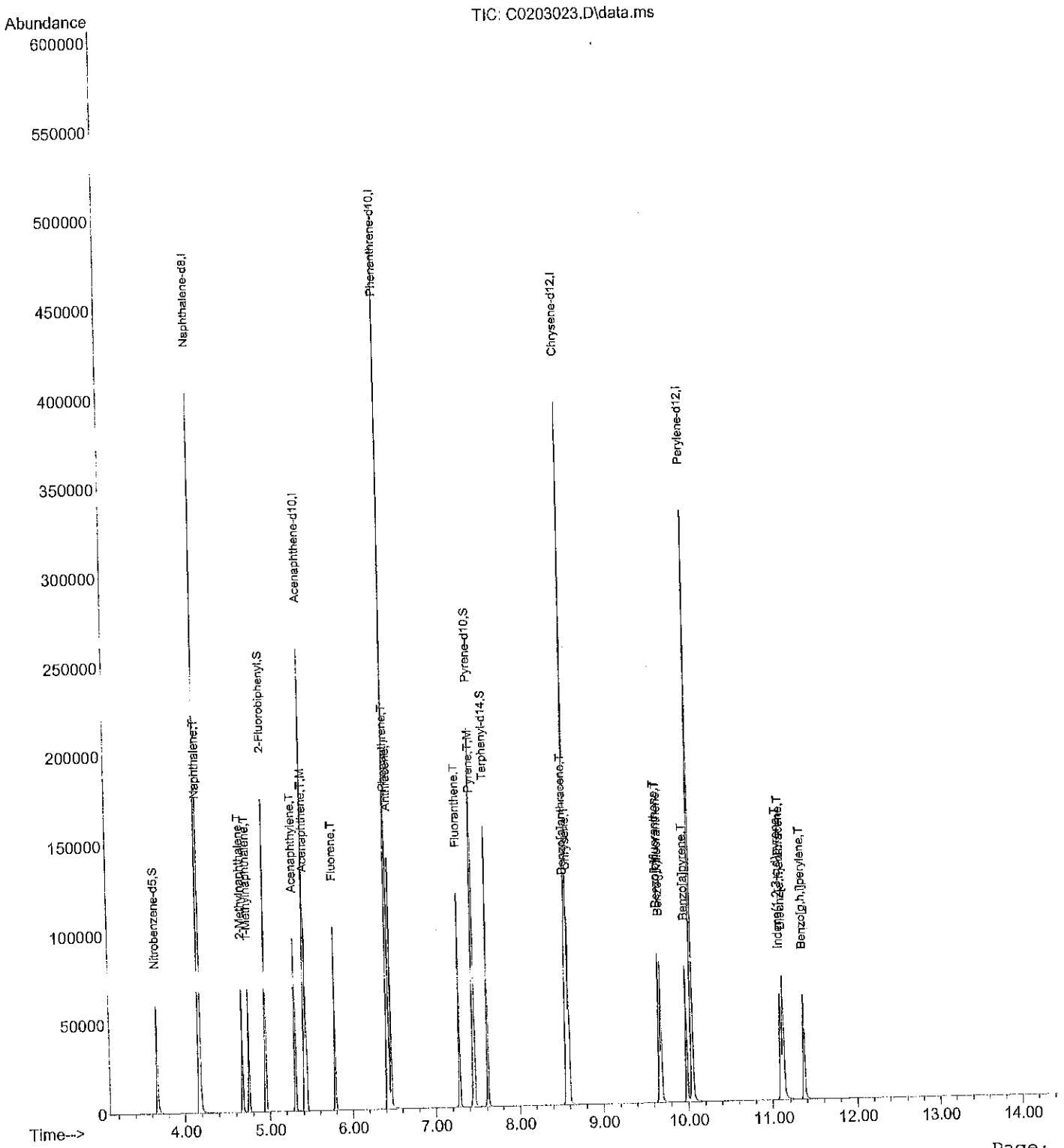
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/4/15 SM

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C150203\
Data File : C0203023.D
Acq On : 3 Feb 2015 5:55 pm
Operator :
Sample : 01-238-04 MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 03 18:11:01 2015
Quant Method : C:\MSDCHEM\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 08:51:05 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\SEMIVOLS\COREY\DATA\C150203\
Data File : C0203002.D
Acq On : 3 Feb 2015 10:16 am
Operator :
Sample : PAH CCV0203
Misc : SV4-51-31
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 11:06:42 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 11:04:20 2015
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	118	0.00
2	S	Nitrobenzene-d5	500.000	558.602	-11.7	147	0.00
3	T	Naphthalene	500.000	557.884	-11.6	142	0.00
4	T	2-Methylnaphthalene	500.000	530.616	-6.1	132	0.00
5	T	1-Methylnaphthalene	500.000	539.066	-7.8	134	0.00
6	I	Acenaphthene-d10	2000.000	2000.000	0.0	102	0.00
7	S	2-Fluorobiphenyl	500.000	599.185	-19.8	131	0.00
8	T	Acenaphthylene	500.000	599.303	-19.9	136	0.00
9	T,M	Acenaphthene	500.000	577.883	-15.6	124	0.00
10	I	Phenanthrene-d10	2000.000	2000.000	0.0	100	0.00
11	S	Pyrene-d10	500.000	500.869	-0.2	104	0.00
12	T	Fluorene	500.000	597.910	-19.6	124	0.00
13	T	Phenanthrene	500.000	591.120	-18.2	128	0.00
14	T	Anthracene	500.000	568.285	-13.7	120	0.00
15	T	Fluoranthene	500.000	571.244	-14.2	122	0.00
16	T,M	Pyrene	500.000	578.775	-15.8	122	0.00
17	I	Chrysene-d12	2000.000	2000.000	0.0	99	0.01
18	S	Terphenyl-d14	500.000	468.571	6.3	99	0.00
19	T	Benzo[a]anthracene	500.000	566.993	-13.4	110	0.01
20	T	Chrysene	500.000	530.402	-6.1	117	0.01
21	I	Perylene-d12	2000.000	2000.000	0.0	101	0.01
22	T	Benzo[b]fluoranthene	500.000	472.538	5.5	105	0.01
23	T	Benzo(j,k)fluoranthene	500.000	540.827	-8.2	114	0.01
24	T	Benzo[a]pyrene	500.000	485.563	2.9	110	0.01
25	T	Indeno(1,2,3-c,d)pyrene	500.000	520.139	-4.0	116	0.01
26	T	Dibenz[a,h]anthracene	500.000	552.952	-10.6	121	0.01
27	T	Benzo[g,h,i]perylene	500.000	533.782	-6.8	118	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150203\
Data File : C0203002.D
Acq On : 3 Feb 2015 10:16 am
Operator :
Sample : PAH CCV0203
Misc : SV4-51-31
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 11:06:42 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 11:04:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.168	136	335144	2000.00	ppb	0.00
6) Acenaphthene-d10	5.423	164	184006m	2000.00	ppb	0.00
10) Phenanthrene-d10	6.423	188	312631	2000.00	ppb	0.00
17) Chrysene-d12	8.575	240	319281	2000.00	ppb	0.01
21) Perylene-d12	10.048	264	312298	2000.00	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	3.663	82	25133	558.60	ppb	0.00
Spiked Amount 1000.000	Range 24 - 92		Recovery = 55.86%			
7) 2-Fluorobiphenyl	4.957	172	75087m	599.19	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 59.92%			
11) Pyrene-d10	7.443	212	76563	500.87	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 50.09%			
18) Terphenyl-d14	7.612	244	62475	468.57	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 46.86%			
Target Compounds						Qvalue
3) Naphthalene	4.180	128	99238	557.88	ppb	100
4) 2-Methylnaphthalene	4.676	142	64156	530.62	ppb	100
5) 1-Methylnaphthalene	4.754	142	59951	539.07	ppb	100
8) Acenaphthylene	5.307	152	85416	599.30	ppb	100
9) Acenaphthene	5.438	153	56786m	577.88	ppb	
12) Fluorene	5.793	166	67644m	597.91	ppb	
13) Phenanthrene	6.435	178	101304	591.12	ppb	100
14) Anthracene	6.466	178	83428	568.29	ppb	100
15) Fluoranthene	7.281	202	99799	571.24	ppb	100
16) Pyrene	7.455	202	106213m	578.78	ppb	
19) Benzo[a]anthracene	8.555	228	83903	566.99	ppb	100
20) Chrysene	8.594	228	90227	530.40	ppb	100
22) Benzo[b]fluoranthene	9.661	252	78771	472.54	ppb	100
23) Benzo(j,k)fluoranthene	9.685	252	83086	540.83	ppb	100
24) Benzo[a]pyrene	9.981	252	68464m	485.56	ppb	
25) Indeno(1,2,3-c,d)pyrene	11.090	276	86798m	520.14	ppb	
26) Dibenz[a,h]anthracene	11.122	278	76908	552.95	ppb	100
27) Benzo[g,h,i]perylene	11.364	276	77565	533.78	ppb	100

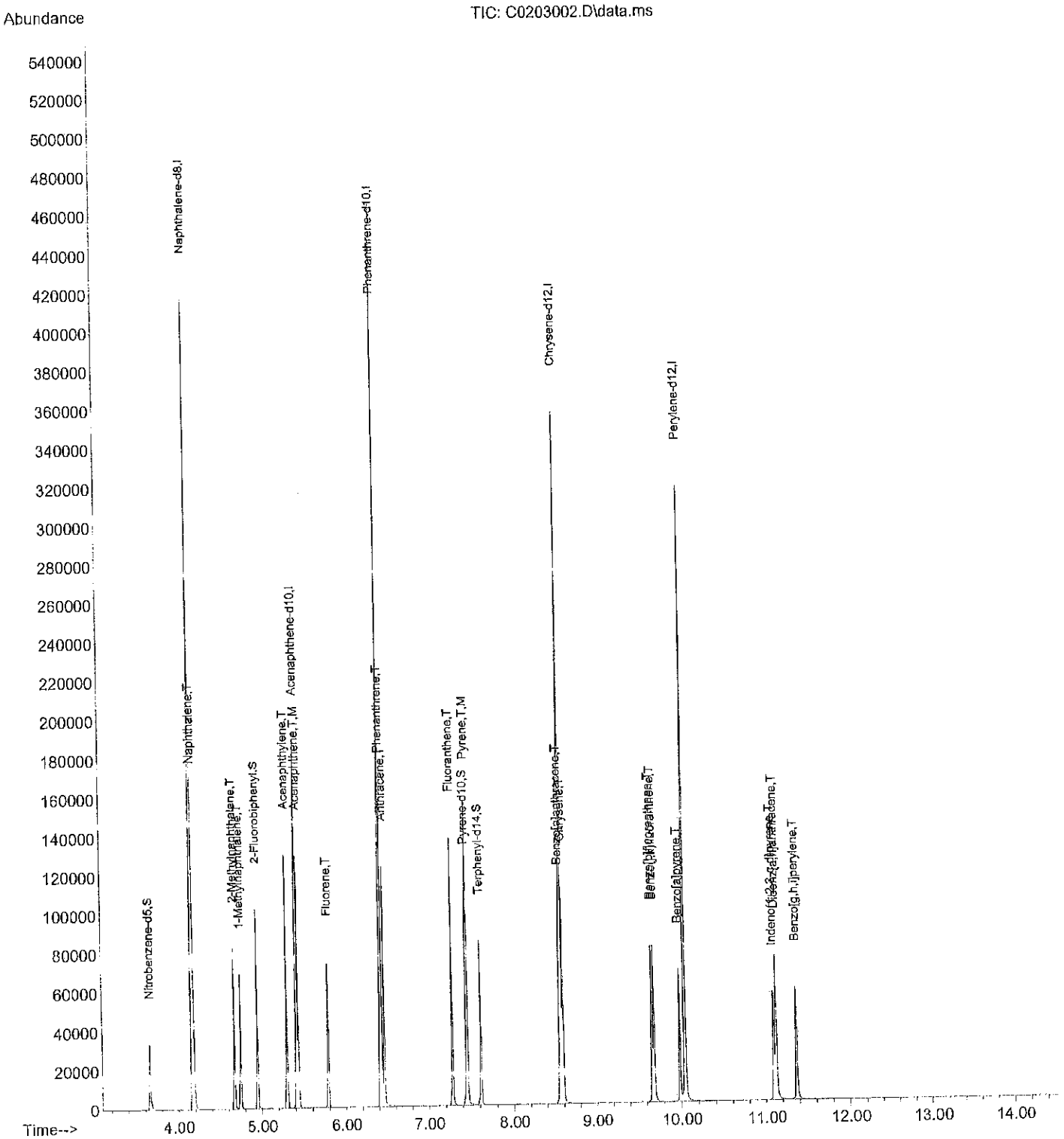
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/3/15 SM

Quantitation Report (QT Reviewed)

Data Path : X:\SEMIVOLS\COREY\DATA\C150203\
Data File : C0203002.D
Acq On : 3 Feb 2015 10:16 am
Operator :
Sample : PAH CCV0203
Misc : SV4-51-31
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 11:06:42 2015
Quant Method : C:\msdchem\1\METHODS\CSIM0202.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 03 11:04:20 2015
Response via : Initial Calibration

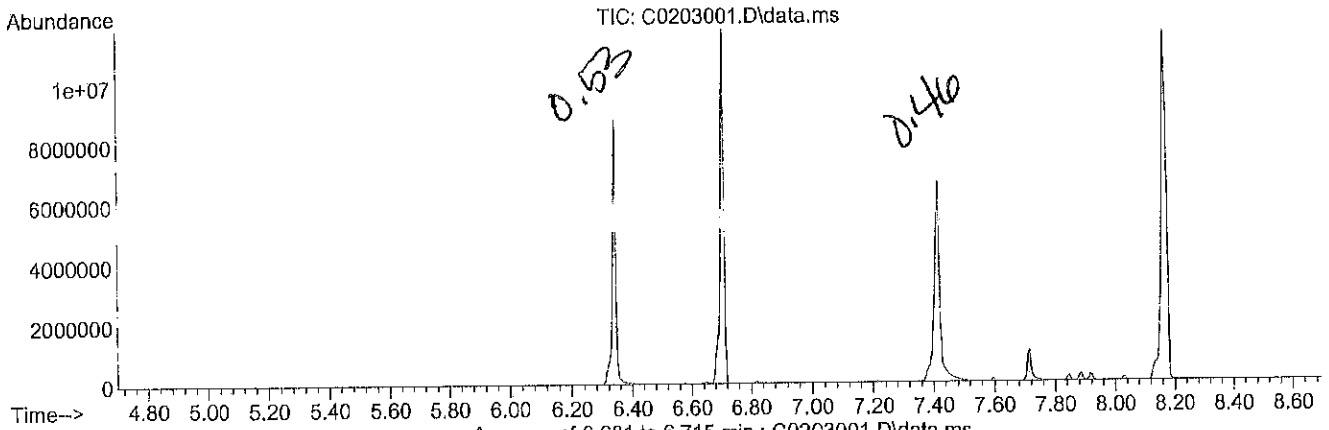


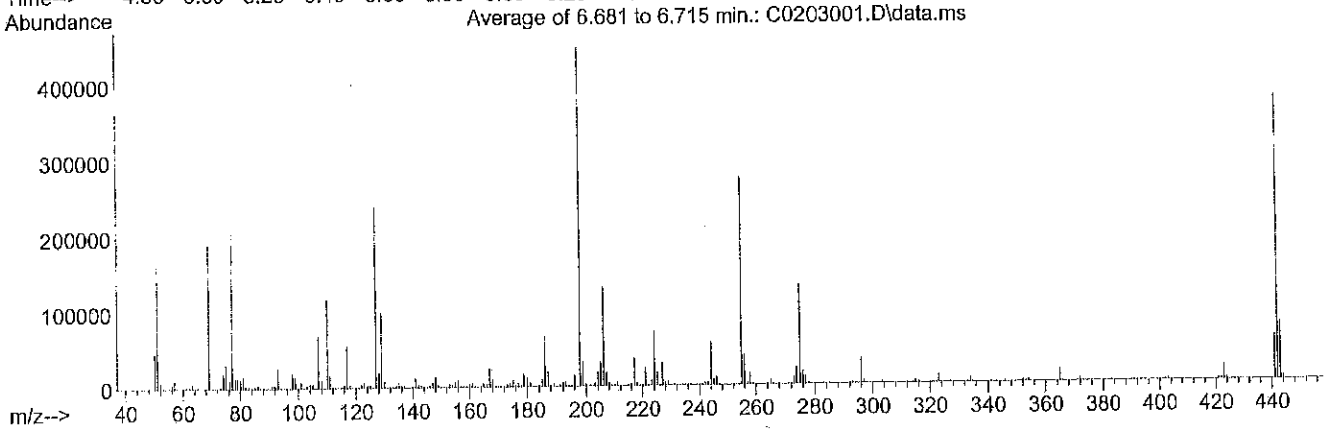
CSIM0202.M Tue Feb 03 11:07:00 2015

Data Path : X:\SEMIVOLS\COREY\DATA\C150203\
Data File : C0203001.D
Acq On : 3 Feb 2015 9:55 am
Operator :
Sample : DFTPP
Misc : SV4-51-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CSIM0202.M
Title : PAH'S BY SIMS
Last Update : Tue Feb 03 08:51:05 2015





Spectrum Information: Average of 6.681 to 6.715 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	36.1	163279	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	191858	PASS
70	69	0.00	2	0.5	928	PASS
127	198	25	75	53.2	240568	PASS
197	198	0.00	1	0.1	242	PASS
198	198	100	100	100.0	452028	PASS
199	198	5	9	7.5	33742	PASS
275	198	10	30	29.7	134101	PASS
365	198	0.75	100	3.7	16724	PASS
441	443	0.01	100	77.1	59527	PASS
442	198	40	110	84.0	379849	PASS
443	442	15	24	20.3	77161	PASS

Total Cadmium Data

P150203F1. Mean Only Report 2/4/2015, 9:01:18 AM

Sample	Label	Calc Conc.	Units	Date/Time
Blank	Cd 228.802	0.000	ppb	2/3/2015, 9:20:14 AM
Standard 5	Cd 228.802	10.000	ppb	2/3/2015, 8:46:07 AM
Standard 4	Cd 228.802	100.00	ppb	2/3/2015, 8:50:39 AM
Standard 3	Cd 228.802	1000.0	ppb	2/3/2015, 8:55:12 AM
Standard 2	Cd 228.802	2500.0	ppb	2/3/2015, 8:59:46 AM
Standard 1	Cd 228.802	5000.0	ppb	2/3/2015, 9:04:20 AM
Initial Calib Verif	Cd 228.802	1035.7	ppb	2/3/2015, 9:46:39 AM
LLICV	Cd 228.802	10.842	ppb	2/3/2015, 9:59:29 AM
Initial Calib Blank	Cd 228.802	-0.260uv	ppb	2/3/2015, 10:06:35 AM
Cont Calib Verif	Cd 228.802	1026.3	ppb	2/3/2015, 10:11:10 AM
Cont Calib Blank	Cd 228.802	1.034	ppb	2/3/2015, 10:17:20 AM
ICSA	Cd 228.802	-0.012uv	ppb	2/3/2015, 10:21:54 AM
ICSAB	Cd 228.802	928.30	ppb	2/3/2015, 10:26:31 AM
MB0203WH1	Cd 228.802	0.651	ppb	2/3/2015, 10:41:00 AM
SB0203WH1	Cd 228.802	1029.5	ppb	2/3/2015, 10:46:25 AM
01-233-01a	Cd 228.802	1.310uv	ppb	2/3/2015, 10:51:00 AM
01-233-01a D	Cd 228.802	-0.609uv	ppb	2/3/2015, 10:55:34 AM
01-233-01a L	Cd 228.802	-0.949uv	ppb	2/3/2015, 11:00:08 AM
01-233-01a MS	Cd 228.802	1007.1	ppb	2/3/2015, 11:04:42 AM
01-233-01a MSD	Cd 228.802	972.52	ppb	2/3/2015, 11:09:15 AM
02-005-01c	Cd 228.802	1.525	ppb	2/3/2015, 11:13:48 AM
Cont Calib Verif	Cd 228.802	1034.2	ppb	2/3/2015, 11:29:07 AM
Cont Calib Blank	Cd 228.802	1.332	ppb	2/3/2015, 11:34:37 AM
MB0202WM2	Cd 228.802	-0.123uv	ppb	2/3/2015, 12:48:06 PM
SB0202WM2	Cd 228.802	0.337uv	ppb	2/3/2015, 12:53:14 PM
01-137-01c	Cd 228.802	-0.939uv	ppb	2/3/2015, 12:57:48 PM
01-137-01c D	Cd 228.802	-0.859uv	ppb	2/3/2015, 1:02:24 PM
01-137-01c L	Cd 228.802	-0.143uv	ppb	2/3/2015, 1:06:57 PM
01-137-01c MS	Cd 228.802	-0.436uv	ppb	2/3/2015, 1:11:32 PM
01-137-01c MSD	Cd 228.802	0.667uv	ppb	2/3/2015, 1:16:08 PM
01-233-01a	Cd 228.802	-0.999uv	ppb	2/3/2015, 1:20:43 PM
Cont Calib Verif	Cd 228.802	1021.5	ppb	2/3/2015, 1:26:49 PM
Cont Calib Blank	Cd 228.802	0.524uv	ppb	2/3/2015, 1:32:57 PM
LLCCV	Cd 228.802	11.062	ppb	2/3/2015, 1:37:31 PM
MB0203TM1	Cd 228.802	-0.218uv	ppb	2/3/2015, 1:53:48 PM
SB0203TM1	Cd 228.802	947.96	ppb	2/3/2015, 1:58:23 PM
01-175-01	Cd 228.802	1.030	ppb	2/3/2015, 2:02:59 PM
01-175-01 D	Cd 228.802	-0.769uv	ppb	2/3/2015, 2:07:35 PM
01-175-01 L	Cd 228.802	-0.233uv	ppb	2/3/2015, 2:12:10 PM
01-175-01 MS	Cd 228.802	933.50	ppb	2/3/2015, 2:16:47 PM
01-175-01 MSD	Cd 228.802	937.97	ppb	2/3/2015, 2:21:21 PM
01-175-02	Cd 228.802	1.680	ppb	2/3/2015, 2:25:55 PM
01-187-02	Cd 228.802	7.185	ppb	2/3/2015, 2:30:30 PM
01-210-01	Cd 228.802	2.946	ppb	2/3/2015, 2:35:06 PM
Cont Calib Verif	Cd 228.802	1027.0	ppb	2/3/2015, 2:39:41 PM
Cont Calib Blank	Cd 228.802	0.927uv	ppb	2/3/2015, 3:09:49 PM
LLCCV	Cd 228.802	9.295	ppb	2/3/2015, 3:20:00 PM
01-233-01a	Cd 228.802	-1.155uv	ppb	2/3/2015, 3:34:20 PM
02-010-01(0203WH1)	Cd 228.802	-0.035uv	ppb	2/3/2015, 3:38:56 PM
Cont Calib Verif	Cd 228.802	1029.2	ppb	2/3/2015, 3:49:22 PM
Cont Calib Blank	Cd 228.802	-0.435uv	ppb	2/3/2015, 3:55:19 PM
LLCCV	Cd 228.802	9.401	ppb	2/3/2015, 3:59:57 PM

P150203F1. Mean Only Report 2/4/2015, 9:01:18 AM

Sample	Label	Calc Conc.	Units	Date/Time
SB0203SH1	Cd 228.802	966.41	ppb	2/3/2015, 4:07:57 PM
MB0203SH1	Cd 228.802	1.594	ppb	2/3/2015, 4:12:32 PM
01-153-01	Cd 228.802	63.563	ppb	2/3/2015, 4:18:21 PM
01-153-01 D	Cd 228.802	38.415	ppb	2/3/2015, 4:22:55 PM
01-153-01 L	Cd 228.802	11.001	ppb	2/3/2015, 4:27:29 PM
01-153-01 MS	Cd 228.802	999.16	ppb	2/3/2015, 4:32:04 PM
01-153-01 MSD	Cd 228.802	1023.0	ppb	2/3/2015, 4:36:37 PM
01-153-01 X 10	Cd 228.802	5.810	ppb	2/3/2015, 4:59:31 PM
01-153-01 D X 10	Cd 228.802	3.299	ppb	2/3/2015, 5:04:08 PM
01-153-01 L X 50	Cd 228.802	2.185	ppb	2/3/2015, 5:08:44 PM
Cont Calib Verif	Cd 228.802	1030.7	ppb	2/3/2015, 5:13:19 PM
Cont Calib Blank	Cd 228.802	2.355	ppb	2/3/2015, 5:18:41 PM
LLCCV	Cd 228.802	9.791	ppb	2/3/2015, 5:23:13 PM
01-153-01 MS X 10	Cd 228.802	102.50	ppb	2/3/2015, 5:36:38 PM
01-153-01 MSD X 10	Cd 228.802	101.77	ppb	2/3/2015, 5:41:12 PM
BLK	Cd 228.802	0.517uv	ppb	2/3/2015, 5:45:45 PM
MB0203SM1	Cd 228.802	-1.041uv	ppb	2/3/2015, 5:50:21 PM
SB0203SM1	Cd 228.802	934.16	ppb	2/3/2015, 5:54:55 PM
01-203-16a	Cd 228.802	2.403	ppb	2/3/2015, 5:59:29 PM
01-203-16a D	Cd 228.802	-0.987uv	ppb	2/3/2015, 6:04:02 PM
01-203-16a L	Cd 228.802	1.934	ppb	2/3/2015, 6:08:36 PM
BLK	Cd 228.802	0.241uv	ppb	2/3/2015, 6:13:09 PM
Cont Calib Verif	Cd 228.802	1025.2	ppb	2/3/2015, 6:17:43 PM
Cont Calib Blank	Cd 228.802	0.941uv	ppb	2/3/2015, 6:22:18 PM
LLCCV	Cd 228.802	10.785	ppb	2/3/2015, 6:26:51 PM
01-203-16a MS	Cd 228.802	919.38	ppb	2/3/2015, 6:31:24 PM
01-203-16a MSD	Cd 228.802	915.74	ppb	2/3/2015, 6:35:56 PM
blk	Cd 228.802	2.344	ppb	2/3/2015, 6:40:30 PM
01-238-01a	Cd 228.802	2.963	ppb	2/3/2015, 6:45:04 PM
01-238-02a	Cd 228.802	2.875	ppb	2/3/2015, 6:49:36 PM
01-238-03a	Cd 228.802	1.352	ppb	2/3/2015, 6:54:08 PM
01-238-04a	Cd 228.802	2.106	ppb	2/3/2015, 6:58:43 PM
01-203-09a	Cd 228.802	2.373	ppb	2/3/2015, 7:03:18 PM
01-213-01a	Cd 228.802	-0.285uv	ppb	2/3/2015, 7:07:52 PM
BLK	Cd 228.802	-0.633uv	ppb	2/3/2015, 7:12:26 PM
Cont Calib Verif	Cd 228.802	1040.8	ppb	2/3/2015, 7:16:58 PM
Cont Calib Blank	Cd 228.802	1.557	ppb	2/3/2015, 7:21:30 PM
LLCCV	Cd 228.802	10.105	ppb	2/3/2015, 7:26:06 PM

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 5, 2015

Abhijit Joshi
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5147-012-06
Laboratory Reference No. 1502-014

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on February 3, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

Case Narrative

Samples were collected on February 3, 2015 and received by the laboratory on February 3, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BENZENE EPA 8021B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-50-8.0	02-014-01	Soil	2-3-15	2-3-15	
EX-51-8.0	02-014-02	Soil	2-3-15	2-3-15	
EX-52-8.0	02-014-03	Soil	2-3-15	2-3-15	
EX-53-4.0	02-014-04	Soil	2-3-15	2-3-15	
EX-54-4.0	02-014-05	Soil	2-3-15	2-3-15	
EX-55-4.0	02-014-06	Soil	2-3-15	2-3-15	
Trip Blank-020315	02-014-07	Water	---	2-3-15	

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-50-8.0**					
Laboratory ID:	02-014-01					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	5.2	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*68-123*				
Client ID:	**EX-51-8.0**					
Laboratory ID:	02-014-02					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	5.0	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*68-123*				
Client ID:	**EX-52-8.0**					
Laboratory ID:	02-014-03					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	5.0	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*68-123*				
Client ID:	**EX-53-4.0**					
Laboratory ID:	02-014-04					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	5.0	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*68-123*				
Client ID:	**EX-54-4.0**					
Laboratory ID:	02-014-05					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	5.0	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*68-123*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-55-4.0**					
Laboratory ID:	02-014-06					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-4-15	
Gasoline	**ND**	5.0	NWTPH-Gx	2-3-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*68-123*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank-020315**					
Laboratory ID:	02-014-07					
Benzene	**ND**	1.0	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	100	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*79*	*71-113*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-50-8.0**					
Laboratory ID:	02-014-01					
Diesel Range Organics	**ND**	35	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**EX-51-8.0**					
Laboratory ID:	02-014-02					
Diesel Range Organics	**ND**	29	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**EX-52-8.0**					
Laboratory ID:	02-014-03					
Diesel Range Organics	**ND**	34	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	69	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				
Client ID:	**EX-53-4.0**					
Laboratory ID:	02-014-04					
Diesel Range Organics	**ND**	26	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				
Client ID:	**EX-54-4.0**					
Laboratory ID:	02-014-05					
Diesel Range Organics	**ND**	26	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**EX-55-4.0**					
Laboratory ID:	02-014-06					
Diesel Range Organics	**ND**	26	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-50-8.0**					
Laboratory ID:	02-014-01					
Benzo[a]anthracene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*77*	*32 - 114*				
Pyrene-d10	*61*	*33 - 121*				
Terphenyl-d14	*55*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-51-8.0**					
Laboratory ID:	02-014-02					
Benzo[a]anthracene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0078	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*32 - 114*				
Pyrene-d10	*77*	*33 - 121*				
Terphenyl-d14	*72*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-52-8.0**					
Laboratory ID:	02-014-03					
Benzo[a]anthracene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0091	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*67*	*32 - 114*				
Pyrene-d10	*60*	*33 - 121*				
Terphenyl-d14	*54*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-53-4.0**					
Laboratory ID:	02-014-04					
Benzo[a]anthracene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*78*	*32 - 114*				
Pyrene-d10	*77*	*33 - 121*				
Terphenyl-d14	*71*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-54-4.0**					
Laboratory ID:	02-014-05					
Benzo[a]anthracene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*81*	*32 - 114*				
Pyrene-d10	*81*	*33 - 121*				
Terphenyl-d14	*75*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-55-4.0**					
Laboratory ID:	02-014-06					
Benzo[a]anthracene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0070	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*32 - 114*				
Pyrene-d10	*82*	*33 - 121*				
Terphenyl-d14	*77*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-014-01					
Client ID:	**EX-50-8.0**					
Cadmium	**ND**	0.70	6010C	2-4-15	2-5-15	
Lab ID:	02-014-02					
Client ID:	**EX-51-8.0**					
Cadmium	**ND**	0.59	6010C	2-4-15	2-5-15	
Lab ID:	02-014-03					
Client ID:	**EX-52-8.0**					
Cadmium	**ND**	0.69	6010C	2-4-15	2-5-15	
Lab ID:	02-014-04					
Client ID:	**EX-53-4.0**					
Cadmium	**ND**	0.53	6010C	2-4-15	2-5-15	
Lab ID:	02-014-05					
Client ID:	**EX-54-4.0**					
Cadmium	**ND**	0.52	6010C	2-4-15	2-5-15	
Lab ID:	02-014-06					
Client ID:	**EX-55-4.0**					
Cadmium	**ND**	0.52	6010C	2-4-15	2-5-15	

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0203S1					
Benzene	**ND**	0.020	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	5.0	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*68-123*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-235-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*93*	*95*	*68-123*			
SPIKE BLANKS											
Laboratory ID:	SB0203S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.930**	**0.959**	1.00	1.00		**93**	**96**	75-117	3	13	
Surrogate:											
Fluorobenzene						*88*	*93*	*68-123*			

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0203G-1	5.00	4.47	11	+/- 20%
CCVD0203G-2	5.00	4.33	13	+/- 20%
CCVD0204G-1	5.00	4.57	9	+/- 20%
CCVD0204G-2	5.00	4.30	14	+/- 20%

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

BENZENE
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0203B-2	50.0	47.5	5	+/- 15%
Benzene	CCVD0203B-3	50.0	48.2	4	+/- 15%
Benzene	CCVD0204B-1	50.0	48.0	4	+/- 15%
Benzene	CCVD0204B-2	50.0	50.5	-1	+/- 15%

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx/BENZENE EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0203W1					
Benzene	**ND**	1.0	EPA 8021B	2-3-15	2-3-15	
Gasoline	**ND**	100	NWTPH-Gx	2-3-15	2-3-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*71-113*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-234-02										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**142**	**137**	NA	NA		NA		NA	4	30	
Surrogate:											
Fluorobenzene						*85*	*89*	*71-113*			
MATRIX SPIKES											
Laboratory ID:	01-234-02										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**49.1**	**51.7**	50.0	50.0	ND	**98**	**103**	82-120	5	14	
Surrogate:											
Fluorobenzene						*92*	*92*	*71-113*			

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0203G-1	5.00	4.47	11	+/- 20%
CCVD0203G-2	5.00	4.33	13	+/- 20%

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

BENZENE
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0203B-1	50.0	50.7	-1	+/- 15%
Benzene	CCVD0203B-2	50.0	47.5	5	+/- 15%

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0204S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	2-4-15	2-4-15	X1
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	2-4-15	2-4-15	X1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-014-06										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	X1
Surrogate:											
o-Terphenyl						*89*	*89*	*50-150*			

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0204F-T1	100	96.1	3.9	+/-15%
CCV0204F-T2	100	106	-6.0	+/-15%
CCV0204R-T1	100	101	-1.0	+/-15%
CCV0204R-T2	100	103	-3.0	+/-15%

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0204S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-4-15	2-4-15	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*82*	*32 - 114*				
Pyrene-d10	*82*	*33 - 121*				
Terphenyl-d14	*78*	*31 - 116*				

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	02-014-06										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0710**	**0.0791**	0.0833	0.0833	ND	85	95	42 - 134	11	27	
Chrysene	**0.0628**	**0.0699**	0.0833	0.0833	ND	75	84	45 - 114	11	27	
Benzo[b]fluoranthene	**0.0614**	**0.0644**	0.0833	0.0833	ND	74	77	38 - 131	5	33	
Benzo(j,k)fluoranthene	**0.0568**	**0.0688**	0.0833	0.0833	ND	68	83	44 - 114	19	34	
Benzo[a]pyrene	**0.0613**	**0.0683**	0.0833	0.0833	ND	74	82	40 - 136	11	29	
Indeno(1,2,3-c,d)pyrene	**0.0602**	**0.0673**	0.0833	0.0833	ND	72	81	45 - 126	11	30	
Dibenz[a,h]anthracene	**0.0616**	**0.0685**	0.0833	0.0833	ND	74	82	46 - 121	11	28	
Surrogate:											
2-Fluorobiphenyl						*73*	*76*	*32 - 114*			
Pyrene-d10						*72*	*81*	*33 - 121*			
Terphenyl-d14						*68*	*78*	*31 - 116*			

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-4-15
Date Analyzed:	2-5-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0204SM1

Analyte	Method	Result	PQL
Cadmium	6010C	**ND**	0.50

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 2-4-15
Date Analyzed: 2-5-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-014-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	**ND**	**ND**	NA	0.50	

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 2-4-15
Date Analyzed: 2-5-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-014-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	**49.1**	98	**49.2**	98	0	

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

TOTAL CADMIUM
EPA 6010C
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Cadmium	ICV020515P	1.00	0.958	4.2	+/- 10%
Cadmium	LLICV1020515P	0.0100	0.0101	-1.0	+/- 30%
Cadmium	CCV1020515P	1.00	0.999	0.10	+/- 10%
Cadmium	CCV2020515P	1.00	1.01	-1.0	+/- 10%
Cadmium	LLCCV2020515P	0.0100	0.00977	2.3	+/- 30%
Cadmium	CCV3020515P	1.00	1.00	0	+/- 10%
Cadmium	CCV4020515P	1.00	1.03	-3.0	+/- 10%
Cadmium	LLCCV30202515P	0.0100	0.00865	14	+/- 30%
Cadmium	CCV5020515P	1.00	0.987	1.3	+/- 10%
Cadmium	LLCCV40202515P	0.0100	0.00860	14	+/- 30%

Date of Report: February 5, 2015
Samples Submitted: February 3, 2015
Laboratory Reference: 1502-014
Project: 5147-012-06

% MOISTURE

Date Analyzed: 2-3-15

Client ID	Lab ID	% Moisture
EX-50-8.0	02-014-01	29
EX-51-8.0	02-014-02	15
EX-52-8.0	02-014-03	27
EX-53-4.0	02-014-04	5
EX-54-4.0	02-014-05	4
EX-55-4.0	02-014-06	5

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS INC.
Project Number: 5147-012-06
Project Name: FORMER SHELL TANK FARM SITE
Project Manager: ABHIJIT JOSHI
Sampled by: NATE SOLOMON

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 02-014

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx w/ SILICA CLEANUP	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	BENZENE 8021B	cPAHs P/SIM	CADMIUM 6010C				% Moisture
1	EX-50-8.0	2/3/15	0830	SOIL	2			X	X												X	X	X				20
2	EX-51-8.0		0835	SOIL	2			X	X												X	X	X				
3	EX-52-8.0		0840	SOIL	2			X	X												X	X	X				
4	EX-53-4.0		0845	SOIL	2			X	X												X	X	X				
5	EX-54-4.0		0850	SOIL	2			X	X												X	X	X				
6	EX-55-4.0		0855	SOIL	2			X	X												X	X	X				
7	TRIPBLANK-020315		--	LIQUID	1			X													X						

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	2/3/15	1160	
Received		Alpha	2/3/15	11:00	
Relinquished		Alpha	2/3/15	2:09	
Received		Centrite Eu	2/3/15	1409	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5141-012-06

OnSite Project Number: 02-014

Initiated by: MM/BG

Date Initiated: 2/3/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 2		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No	1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No	1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No	1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- NWTPH-Gx/Benzene (soil) Data
- NWTPH- Gx/Benzene (water) Data
- NWTPH-Dx Data
- cPAHs EPA 8270D/SIM Data
- Total Cadmium EPA 6010CData

NWTPH-Gx/Benzene (soil) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203034.D\FID1A.CH Vial: 34
Signal #2 : d:\btex\DATA\D150203\0203034.D\FID2B.CH
Acq On : 4 Feb 2015 4:28 Operator:
Sample : 02-014-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 4:57 2015 Quant Results File: 141012MB.RES

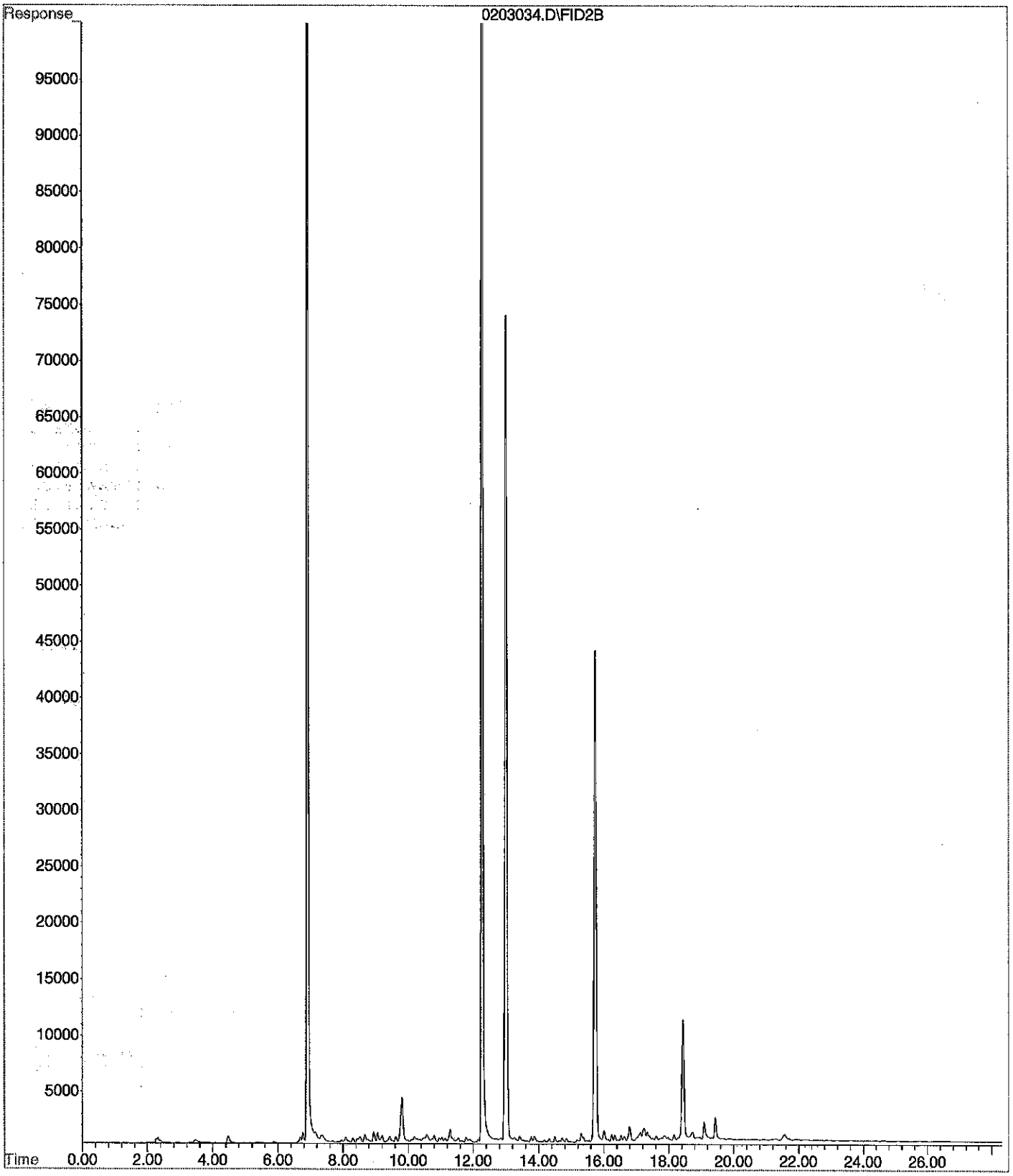
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2247673	32.323	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1329103	32.630	PPB
12)	S	FLUOROBENZENE #2	6.91	5424895	24.335	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	7662144	25.421	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1668177	0.027	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3858813	0.048	PPM
3)	H	GASOLINE (9-24-14)	13.51	1931278	0.027	PPM
7)	H	entire GAS envelope #2 (9-	12.26	9772358	0.019	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	8456715	0.068	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	7574545	0.010	PPM
10)		MTBE #2	4.71	643	N.D.	PPB
11)		BENZENE #2	6.68	22620	0.033	PPB
13)		TOLUENE #2	9.07	37684	N.D.	PPB
14)		ETHYLBENZENE #2	11.03	20297	N.D.	PPB
15)		m,p-XYLENE #2	11.29	78801	N.D.	PPB
16)		o-XYLENE #2	11.79	24251	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203034.D
Operator :
Acquired : 4 Feb 2015 4:28 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-01s
Misc Info : V2-36-17
Vial Number: 34



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203031.D\FID1A.CH Vial: 31
Signal #2 : d:\btex\DATA\D150203\0203031.D\FID2B.CH
Acq On : 4 Feb 2015 2:48 Operator:
Sample : 02-014-02s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 3:17 2015 Quant Results File: 141012MB.RES

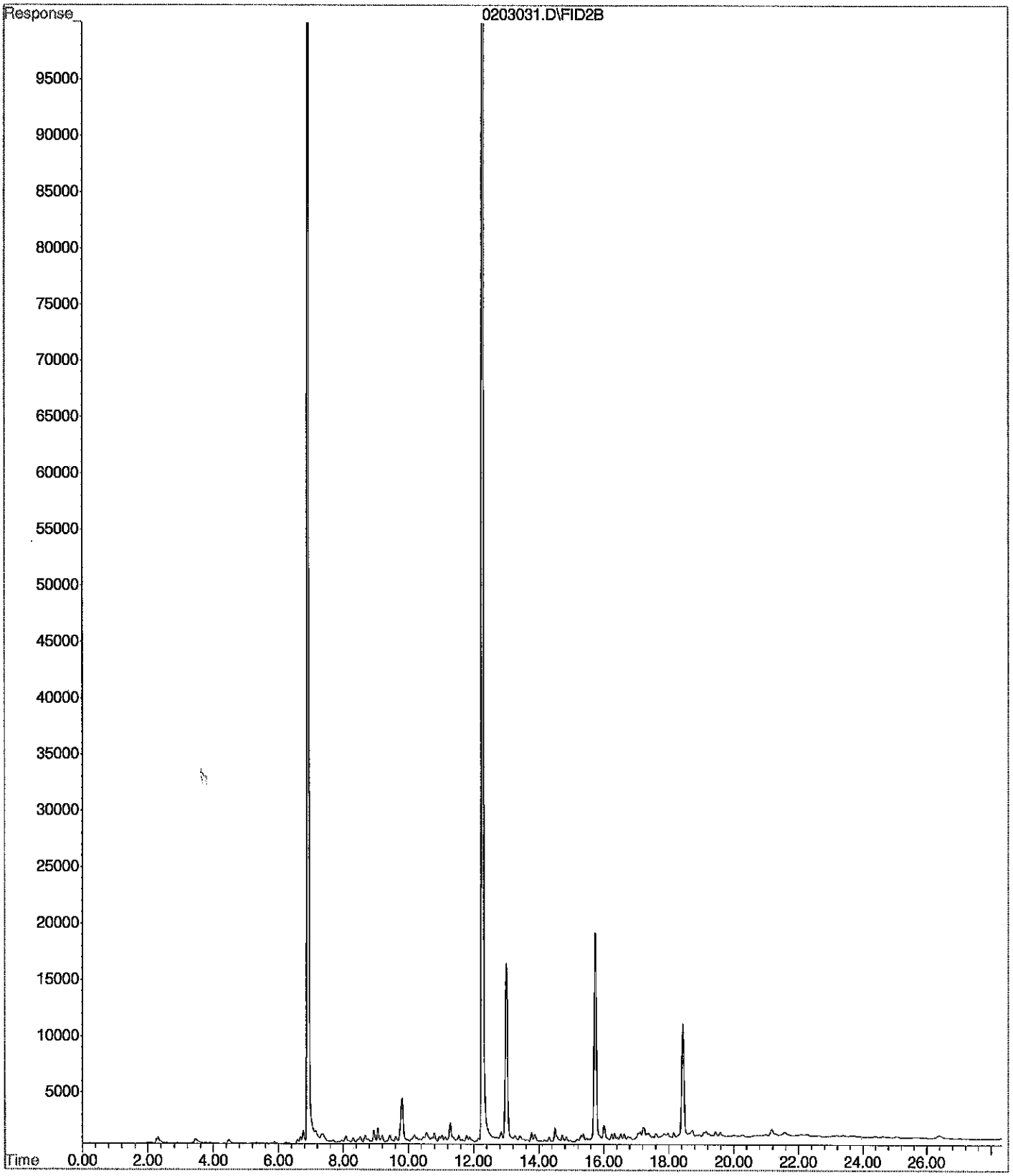
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2637542	37.987	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1558478	38.361	PPB
12)	S	FLUOROBENZENE #2	6.91	6356659	28.571	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8941393	29.742	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1450276	0.023	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4019038	0.050	PPM
3)	H	GASOLINE (9-24-14)	13.51	1648253	0.020	PPM
7)	H	entire GAS envelope #2 (9-	12.26	7377557	0.003	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	5598273	0.033	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	4579286	N.D.	PPM
10)		MTBE #2	4.68	1456	N.D.	PPB
11)		BENZENE #2	6.68	21836	0.030	PPB
13)		TOLUENE #2	9.06	51915	0.009	PPB
14)		ETHYLBENZENE #2	11.03	25716	N.D.	PPB
15)		m,p-XYLENE #2	11.29	103363	N.D.	PPB
16)		o-XYLENE #2	11.79	30061	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203031.D
Operator :
Acquired : 4 Feb 2015 2:48 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-02s
Misc Info : V2-36-17
Vial Number: 31



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203032.D\FID1A.CH Vial: 32
Signal #2 : d:\btex\DATA\D150203\0203032.D\FID2B.CH
Acq On : 4 Feb 2015 3:21 Operator:
Sample : 02-014-03s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

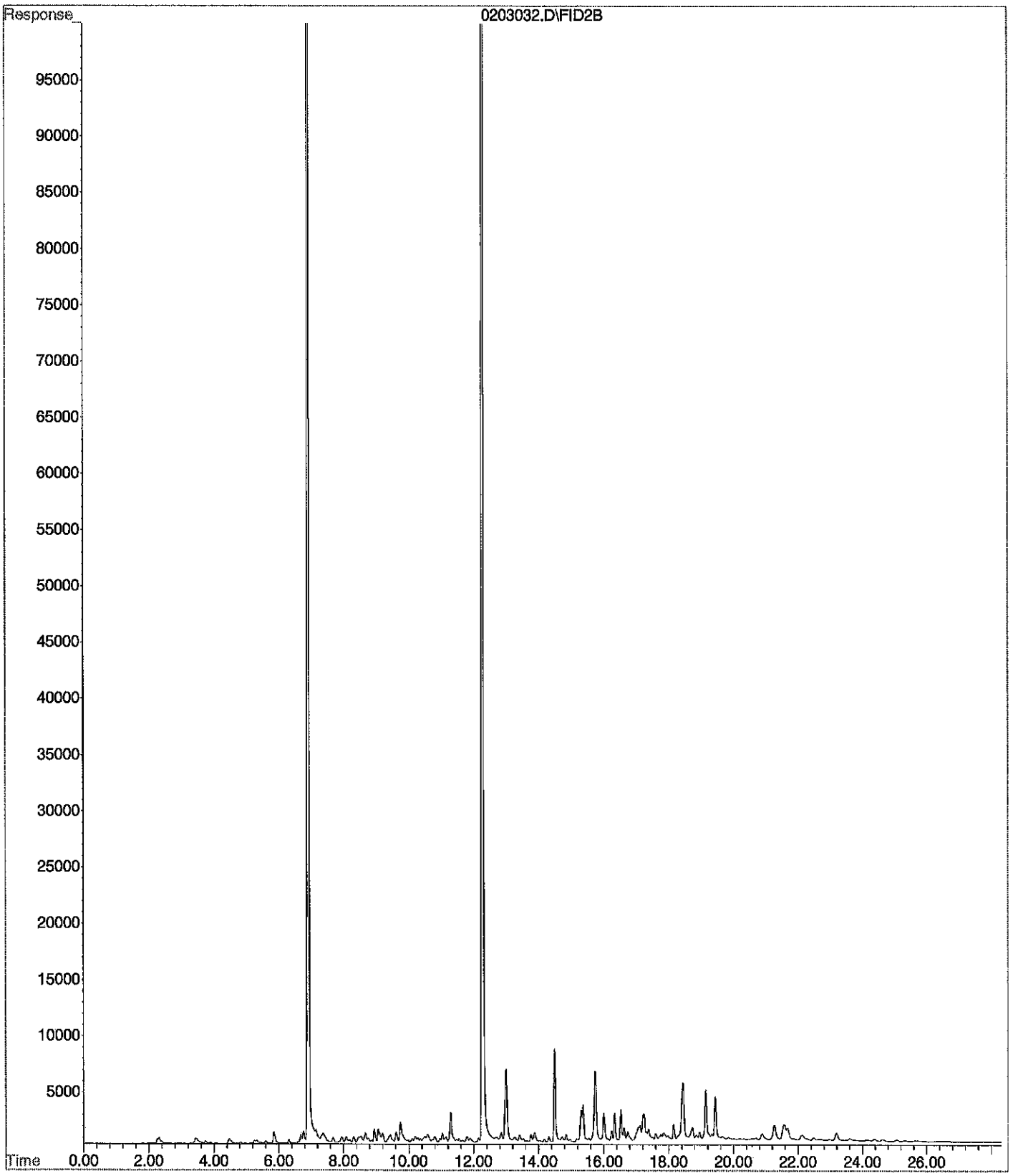
Quant Time: Feb 4 3:50 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2380105	34.247	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1395044	34.278	PPB
12)	S	FLUOROBENZENE #2	6.91	5673287	25.464	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8027003	26.654	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1575906	0.025	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4288670	0.054	PPM
3)	H	GASOLINE (9-24-14)	13.51	1859164	0.026	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6852705	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	4919353	0.025	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	4168769	N.D.	PPM
10)		MTBE #2	4.69	1419	N.D.	PPB
11)		BENZENE #2	6.68	33620	0.070	PPB
13)		TOLUENE #2	9.07	66358	0.061	PPB
14)		ETHYLBENZENE #2	11.03	36701	0.031	PPB
15)		m,p-XYLENE #2	11.29	136974	N.D.	PPB
16)		o-XYLENE #2	11.79	27884	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203032.D
Operator :
Acquired : 4 Feb 2015 3:21 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-03s
Misc Info : V2-36-17
Vial Number: 32



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203033.D\FID1A.CH Vial: 33
Signal #2 : d:\btex\DATA\D150203\0203033.D\FID2B.CH
Acq On : 4 Feb 2015 3:55 Operator:
Sample : 02-014-04s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

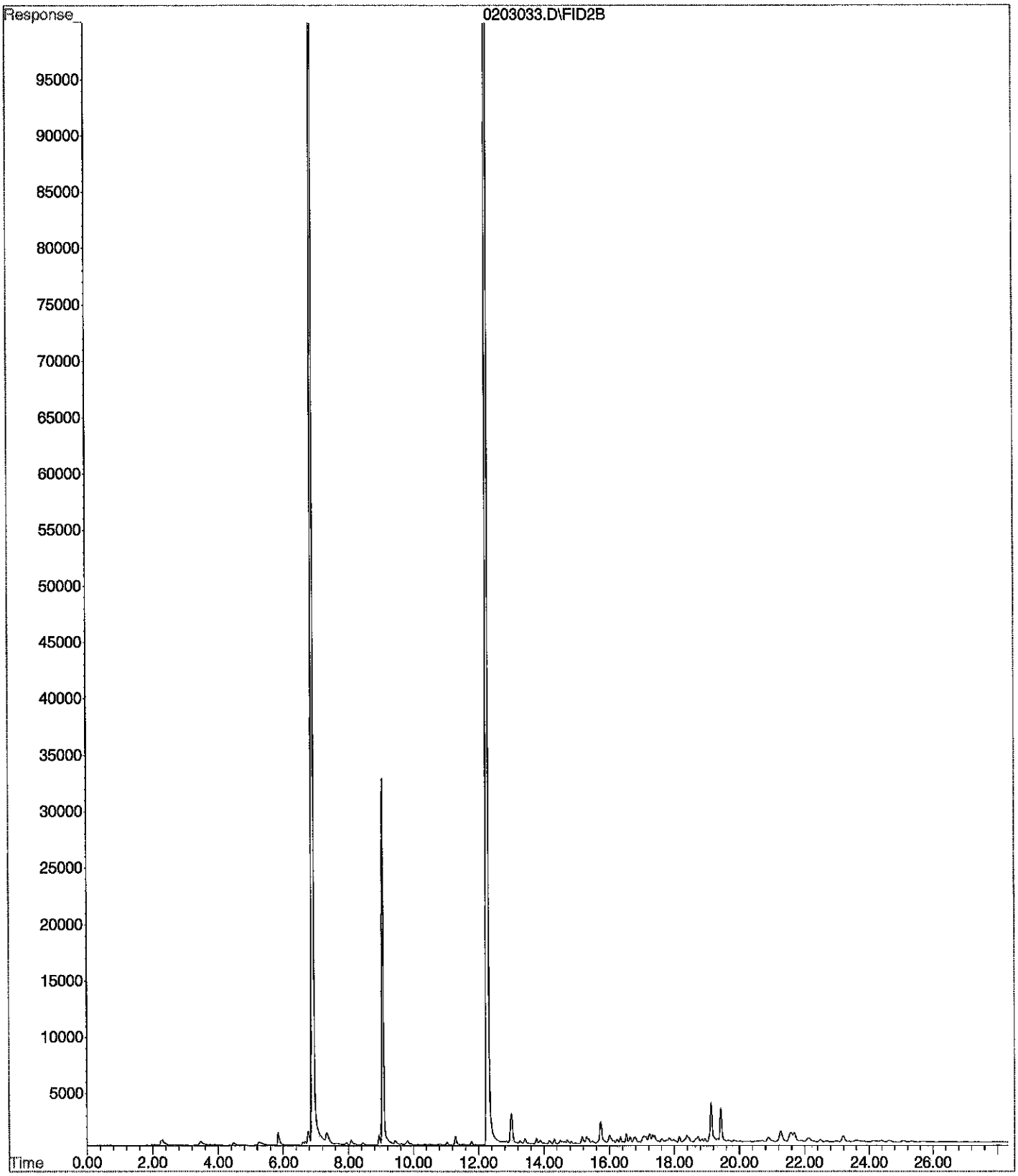
Quant Time: Feb 4 4:23 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2820047	40.639	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1649546	40.636	PPB
12)	S	FLUOROBENZENE #2	6.91	6814366	30.652	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	9533974	31.744	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1316275	0.020	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3421903	0.041	PPM
3)	H	GASOLINE (9-24-14)	13.51	1373015	0.013	PPM
7)	H	entire GAS envelope #2 (9-	12.26	4274188	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3008693	0.001	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2707704	N.D.	PPM
10)		MTBE #2	4.69	1197	N.D.	PPB
11)		BENZENE #2	6.68	12655	N.D.	PPB
13)		TOLUENE #2	9.06	1068571	3.668	PPB
14)		ETHYLBENZENE #2	11.04	12937	N.D.	PPB
15)		m,p-XYLENE #2	11.29	33673	N.D.	PPB
16)		o-XYLENE #2	11.78	12372	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203033.D
Operator :
Acquired : 4 Feb 2015 3:55 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-04s
Misc Info : V2-36-17
Vial Number: 33



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203029.D\FID1A.CH Vial: 29
Signal #2 : d:\btex\DATA\D150203\0203029.D\FID2B.CH
Acq On : 4 Feb 2015 1:42 Operator:
Sample : 02-014-05s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 2:10 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

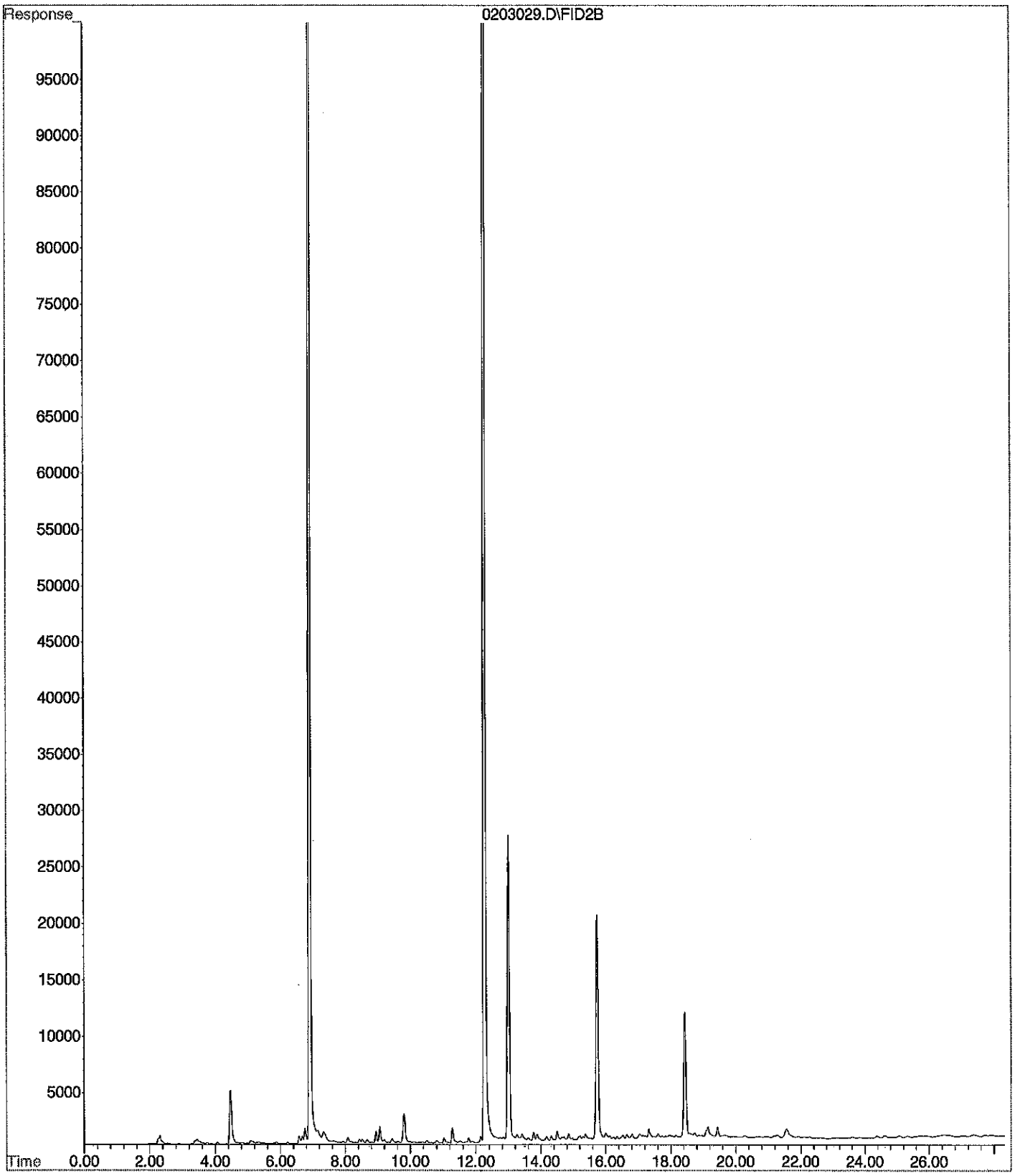
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.91	3053411	44.029	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1770543	43.659	PPB
12)	S	FLUOROBENZENE #2	6.91	7324642	32.972	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	10048619	33.483	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	1305950	0.020	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4097266	0.051	PPM
3)	H	GASOLINE (9-24-14)	13.51	1574565	0.018	PPM
7)	H	entire GAS envelope #2 (9-	12.26	7899221	0.006	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	5854305	0.036	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	4828495	N.D.	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.68	23874	0.037	PPB
13)		TOLUENE #2	9.06	58714	0.034	PPB
14)		ETHYLBENZENE #2	11.03	19284	N.D.	PPB
15)		m,p-XYLENE #2	11.29	54335	N.D.	PPB
16)		o-XYLENE #2	11.78	19599	N.D.	PPB

2/4 05

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203029.D
Operator :
Acquired : 4 Feb 2015 1:42 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-05s
Misc Info : V2-36-17
Vial Number: 29



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150204\0204008.D\FID1A.CH Vial: 8
Signal #2 : d:\btex\DATA\D150204\0204008.D\FID2B.CH
Acq On : 4 Feb 2015 16:55 Operator:
Sample : 02-014-06s RR Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 17:23 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

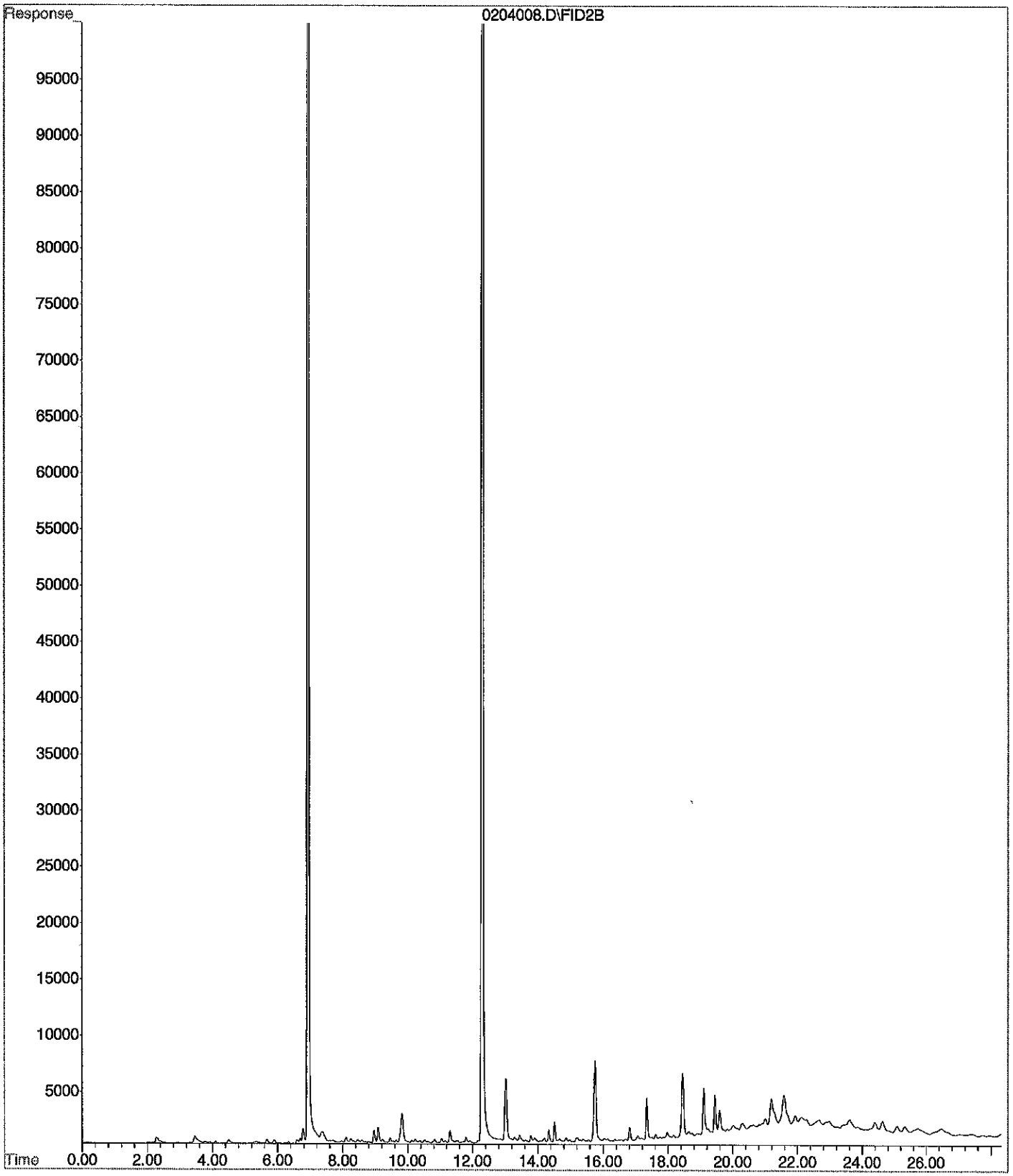
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	2953795	42.582	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1757160	43.324	PPB
12)	S	FLUOROBENZENE #2	6.93	7362509	33.144	PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	10025658	33.405	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	957373	0.013	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	3912642	0.049	PPM
3)	H	GASOLINE (9-24-14)	13.51	1158581	0.008	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6689883	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3591432	0.008	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	2791242	N.D.	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.70	15964	0.010	PPB
13)		TOLUENE #2	9.08	55737	0.023	PPB
14)		ETHYLBENZENE #2	11.05	15875	N.D.	PPB
15)		m,p-XYLENE #2	11.31	51339	N.D.	PPB
16)		o-XYLENE #2	11.80	23334	N.D.	PPB

2/5/

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150204\0204008.D
Operator :
Acquired : 4 Feb 2015 16:55 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-06s RR
Misc Info : V2-36-17
Vial Number: 8



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203023.D\FID1A.CH Vial: 23
Signal #2 : d:\btex\DATA\D150203\0203023.D\FID2B.CH
Acq On : 3 Feb 2015 22:23 Operator:
Sample : MB0203S1 Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 22:51 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

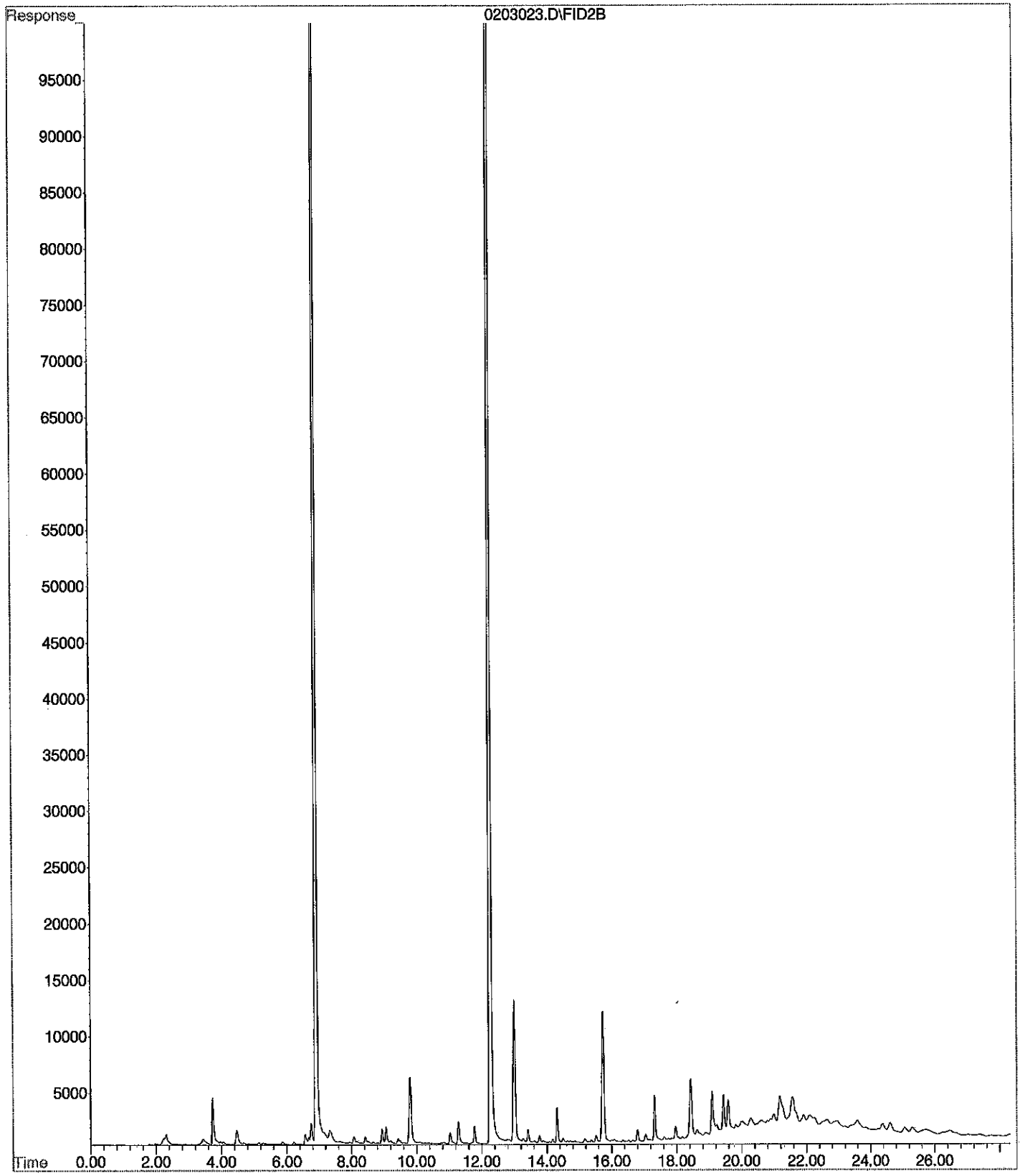
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3084697	44.484	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1787910	44.093	PPB
12)	S	FLUOROBENZENE #2	6.91	7667589	34.531	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	10425092	34.754	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1043189	0.014	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4656649	0.060	PPM
3)	H	GASOLINE (9-24-14)	13.51	1062702	0.005	PPM
7)	H	entire GAS envelope #2 (9-	12.26	7726733	0.005	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3941279	0.013	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	3195391	N.D.	PPM
10)		MTBE #2	4.67	11706	0.112	PPB
11)		BENZENE #2	6.67	23571	0.036	PPB
13)		TOLUENE #2	9.06	61483	0.044	PPB
14)		ETHYLBENZENE #2	11.03	39887	0.044	PPB
15)		m,p-XYLENE #2	11.29	78272	N.D.	PPB
16)		o-XYLENE #2	11.78	57949	N.D.	PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203023.D
Operator :
Acquired : 3 Feb 2015 22:23 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: MB0203S1
Misc Info : V2-36-17
Vial Number: 23



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203024.D\FID1A.CH Vial: 24
Signal #2 : d:\btex\DATA\D150203\0203024.D\FID2B.CH
Acq On : 3 Feb 2015 22:56 Operator:
Sample : 01-235-01s Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 23:25 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

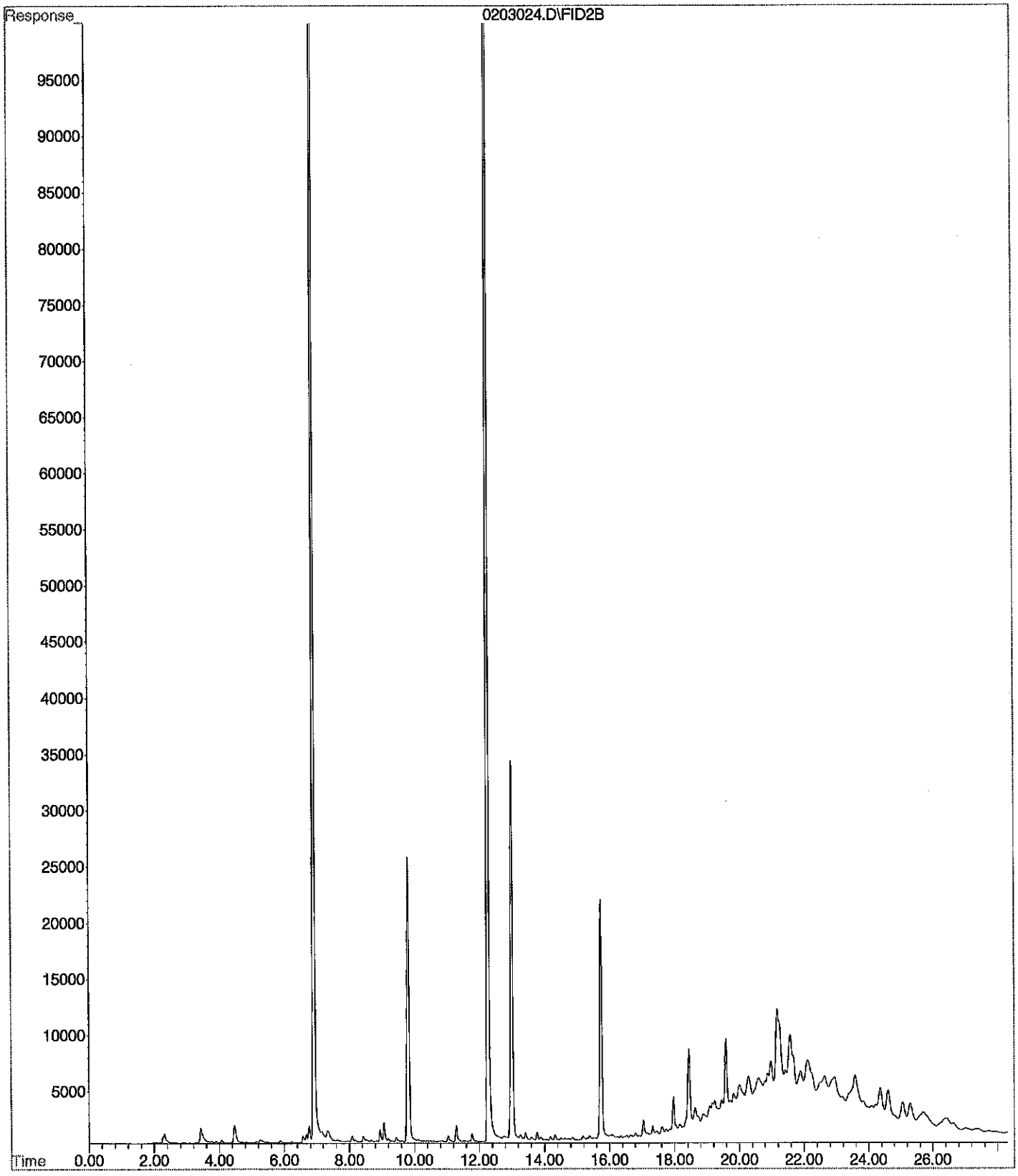
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2516075	36.223	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1442134	35.454	PPB
12)	S	FLUOROBENZENE #2	6.91	6199179	27.855	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	8338254	27.705	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1304458	0.020	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	6982174	0.096	PPM
3)	H	GASOLINE (9-24-14)	13.51	1594145	0.019	PPM
7)	H	entire GAS envelope #2 (9-	12.26	15181614	0.057	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	7592733	0.057	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	5933396	N.D.	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.68	27005	0.048	PPB
13)		TOLUENE #2	9.07	68412	0.069	PPB
14)		ETHYLBENZENE #2	11.04	24880	N.D.	PPB
15)		m,p-XYLENE #2	11.29	59441	N.D.	PPB
16)		o-XYLENE #2	11.78	29017	N.D.	PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203024.D
Operator :
Acquired : 3 Feb 2015 22:56 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-235-01s
Misc Info : V2-36-17
Vial Number: 24



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203025.D\FID1A.CH Vial: 25
Signal #2 : d:\btex\DATA\D150203\0203025.D\FID2B.CH
Acq On : 3 Feb 2015 23:29 Operator:
Sample : 01-235-01s DUP Inst : Daryl
Misc : V2-36-17 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 23:58 2015 Quant Results File: 141012MB.RES

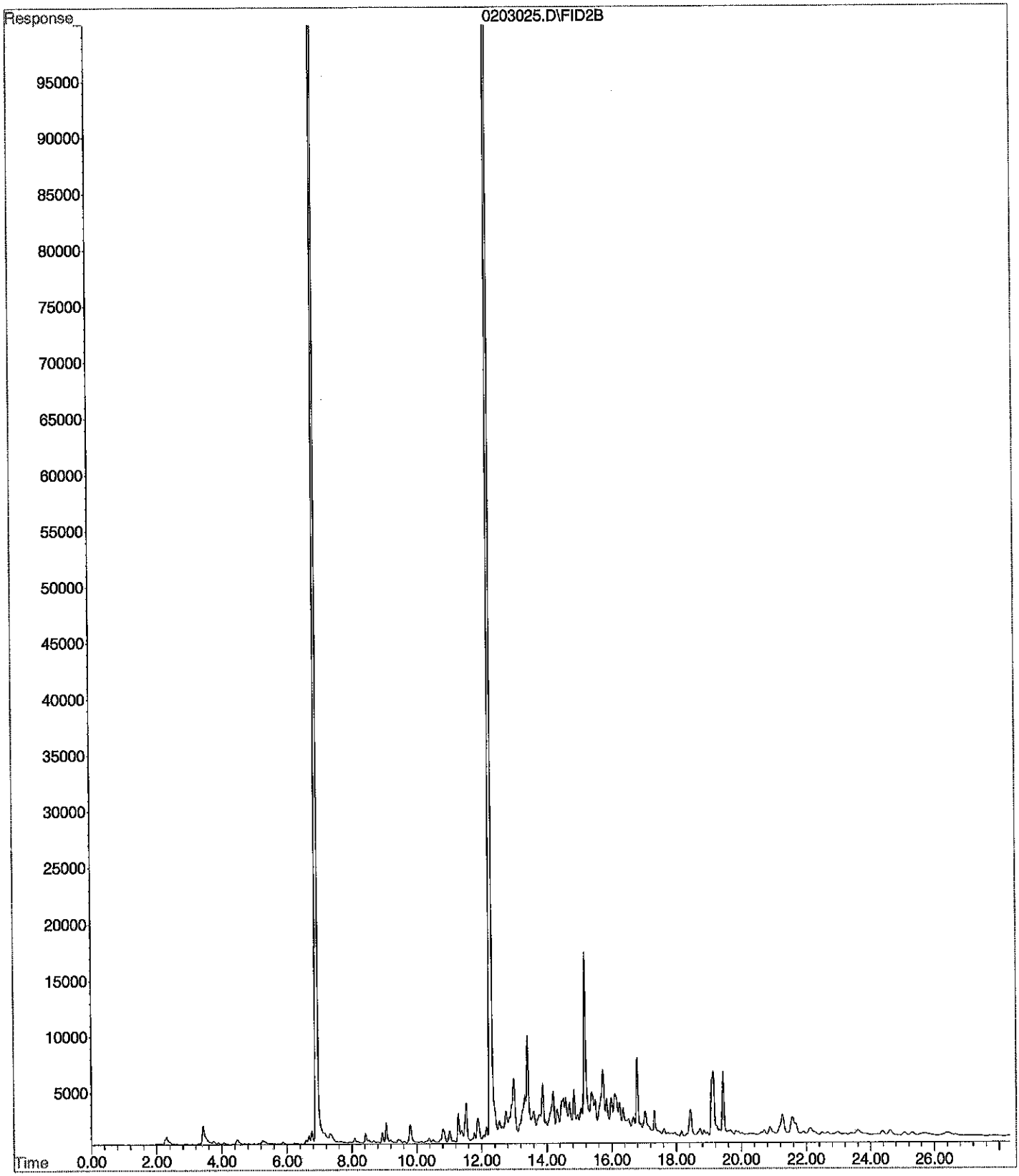
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	2518741	36.261	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1609023	39.624	PPB
12)	S	FLUOROBENZENE #2	6.91	6353786	28.558	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	8698845	28.923	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1986023	0.034	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	9306587	0.131	PPM
3)	H	GASOLINE (9-24-14)	13.51	6803565	0.151	PPM
7)	H	entire GAS envelope #2 (9-	12.26	13210343	0.043	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	10747987	0.095	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	10120060	0.033	PPM
10)		MTBE #2	4.68	1135	N.D.	PPB
11)		BENZENE #2	6.68	25293	0.042	PPB
13)		TOLUENE #2	9.06	65268	0.057	PPB
14)		ETHYLBENZENE #2	11.02	51524	0.092	PPB
15)		m,p-XYLENE #2	11.29	93635	N.D.	PPB
16)		o-XYLENE #2	11.78	38810	N.D.	PPB

2/4

File : X:\BTEX\DARYL\DATA\D150203\0203025.D
Operator :
Acquired : 3 Feb 2015 23:29 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-235-01s DUP
Misc Info : V2-36-17
Vial Number: 25



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203021.D\FID1A.CH Vial: 21
Signal #2 : d:\btex\DATA\D150203\0203021.D\FID2B.CH
Acq On : 3 Feb 2015 21:16 Operator:
Sample : SB0203S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

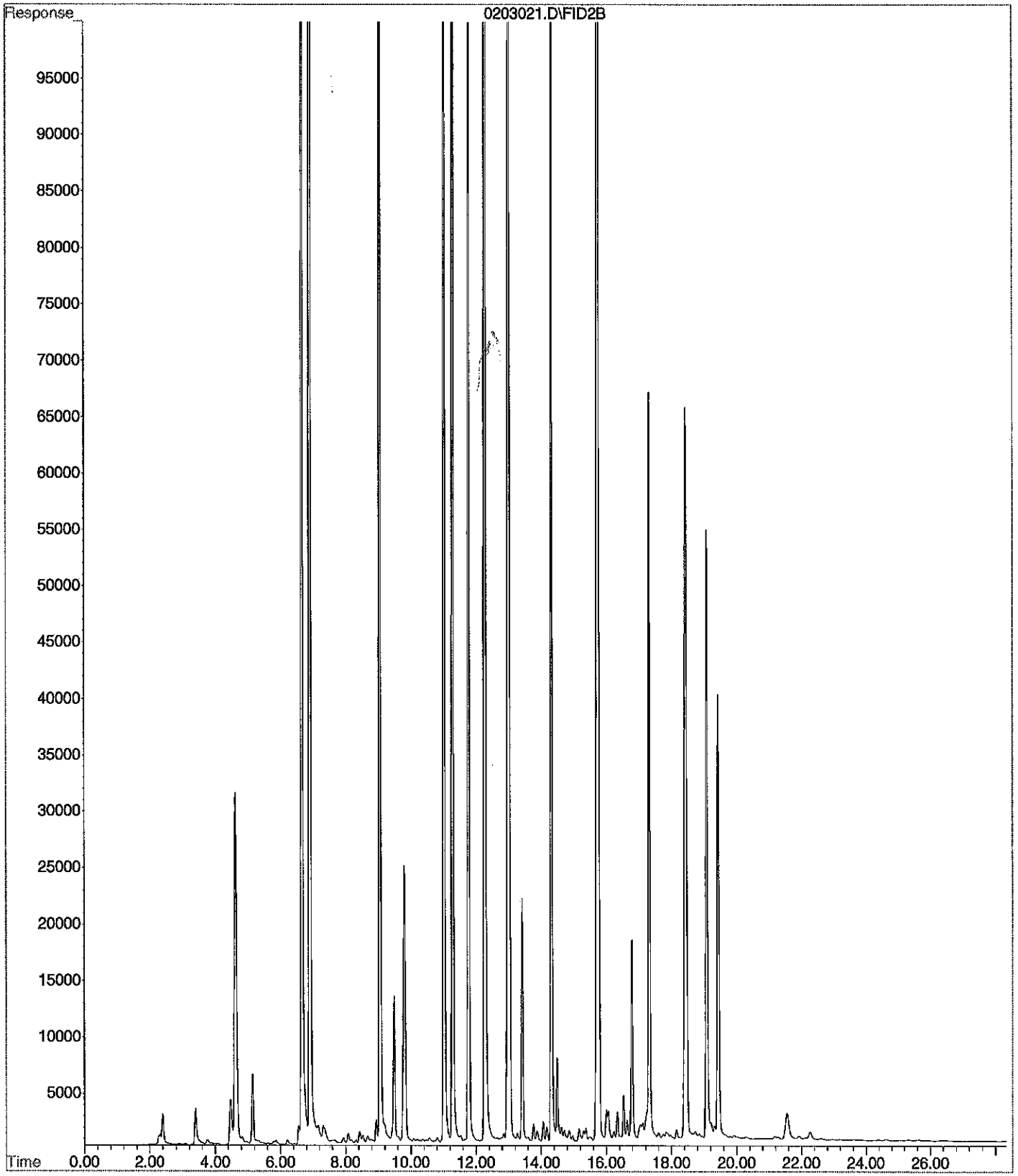
Quant Time: Feb 3 21:45 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3152831	45.474	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1651696	40.690	PPB
12)	S	FLUOROBENZENE #2	6.91	7854490	35.381	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	9748109	32.468	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	13328904	0.264	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23949247	0.356	PPM
3)	H	GASOLINE (9-24-14)	13.51	15088447	0.360	PPM
7)	H	entire GAS envelope #2 (9-	12.26	59819327	0.368	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	46725675	0.533	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	43183448	0.334	PPM
10)		MTBE #2	4.63	1500103	20.495	PPB
11)		BENZENE #2	6.67	5472570	18.604	PPB
13)		TOLUENE #2	9.06	5113392	18.222	PPB
14)		ETHYLBENZENE #2	11.02	4312527	17.443	PPB
15)		m,p-XYLENE #2	11.29	5183958	17.324	PPB
16)		o-XYLENE #2	11.77	4334791	17.058	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203021.D
Operator :
Acquired : 3 Feb 2015 21:16 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: SB0203S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 21



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203022.D\FID1A.CH Vial: 22
Signal #2 : d:\btex\DATA\D150203\0203022.D\FID2B.CH
Acq On : 3 Feb 2015 21:49 Operator:
Sample : SBD0203S1 Inst : Daryl
Misc : V2-36-17,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 22:18 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

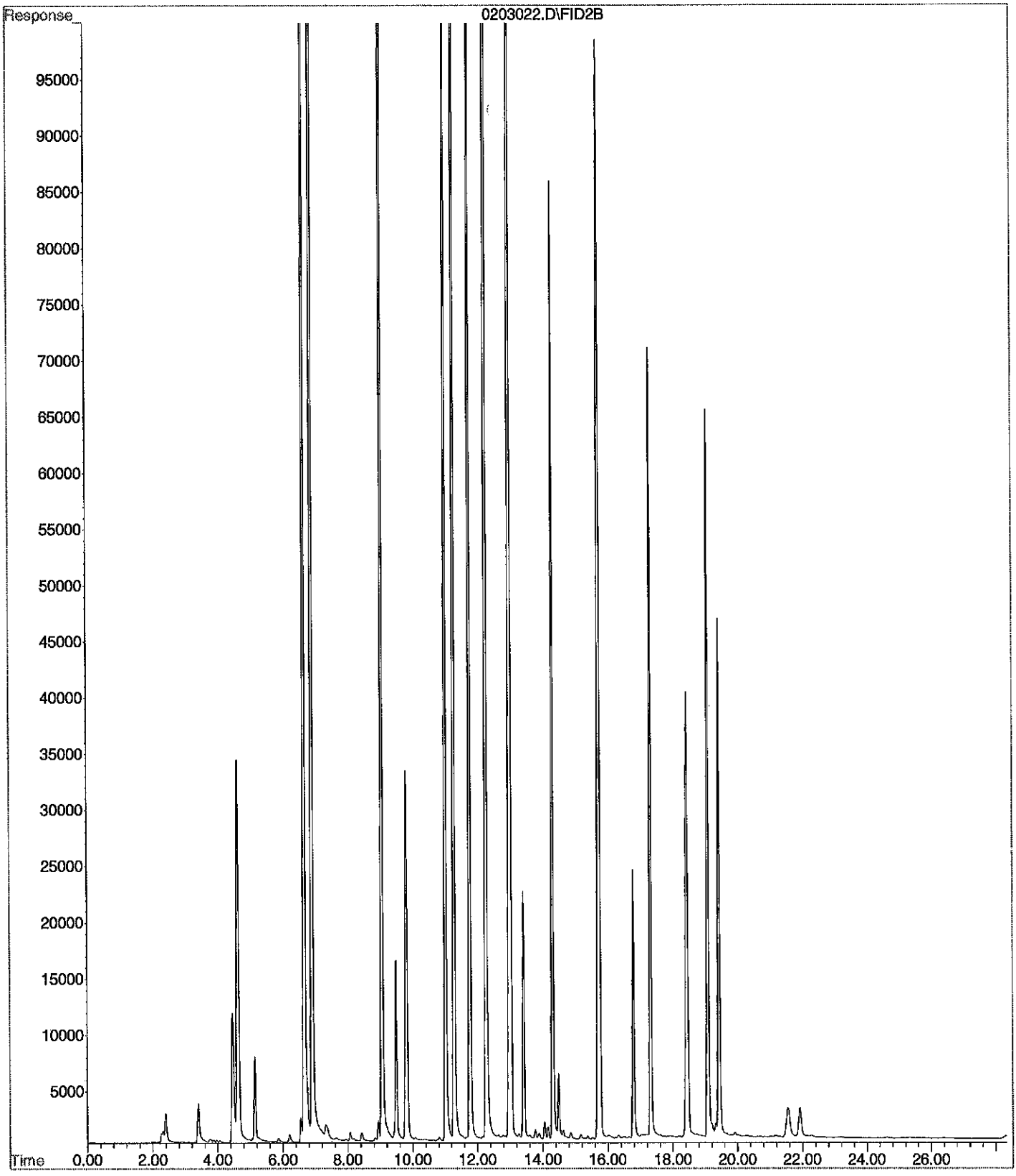
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.91	3257596	46.996 PPB
5)	S	BROMOFLUOROBENZENE	12.27	1610131	39.651 PPB
12)	S	FLUOROBENZENE #2	6.91	8210467	37.000 PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	9599326	31.965 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	13547721	0.268 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	23287335	0.345 PPM
3)	H	GASOLINE (9-24-14)	13.51	14684437	0.350 PPM
7)	H	entire GAS envelope #2 (9-	12.26	57132303	0.349 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	43135461	0.490 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	40943845	0.314 PPM
10)		MTBE #2	4.63	1649327	22.539 PPB
11)		BENZENE #2	6.67	5640684	19.177 PPB
13)		TOLUENE #2	9.05	5293859	18.872 PPB
14)		ETHYLBENZENE #2	11.02	4520980	18.292 PPB
15)		m,p-XYLENE #2	11.28	5445534	18.226 PPB
16)		o-XYLENE #2	11.77	4458215	17.551 PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203022.D
Operator :
Acquired : 3 Feb 2015 21:49 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: SBD0203S1
Misc Info : V2-36-17,V2-37-04
Vial Number: 22



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203019.D\FID1A.CH Vial: 19
Signal #2 : d:\btex\DATA\D150203\0203019.D\FID2B.CH
Acq On : 3 Feb 2015 20:10 Operator:
Sample : CCVD0203B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

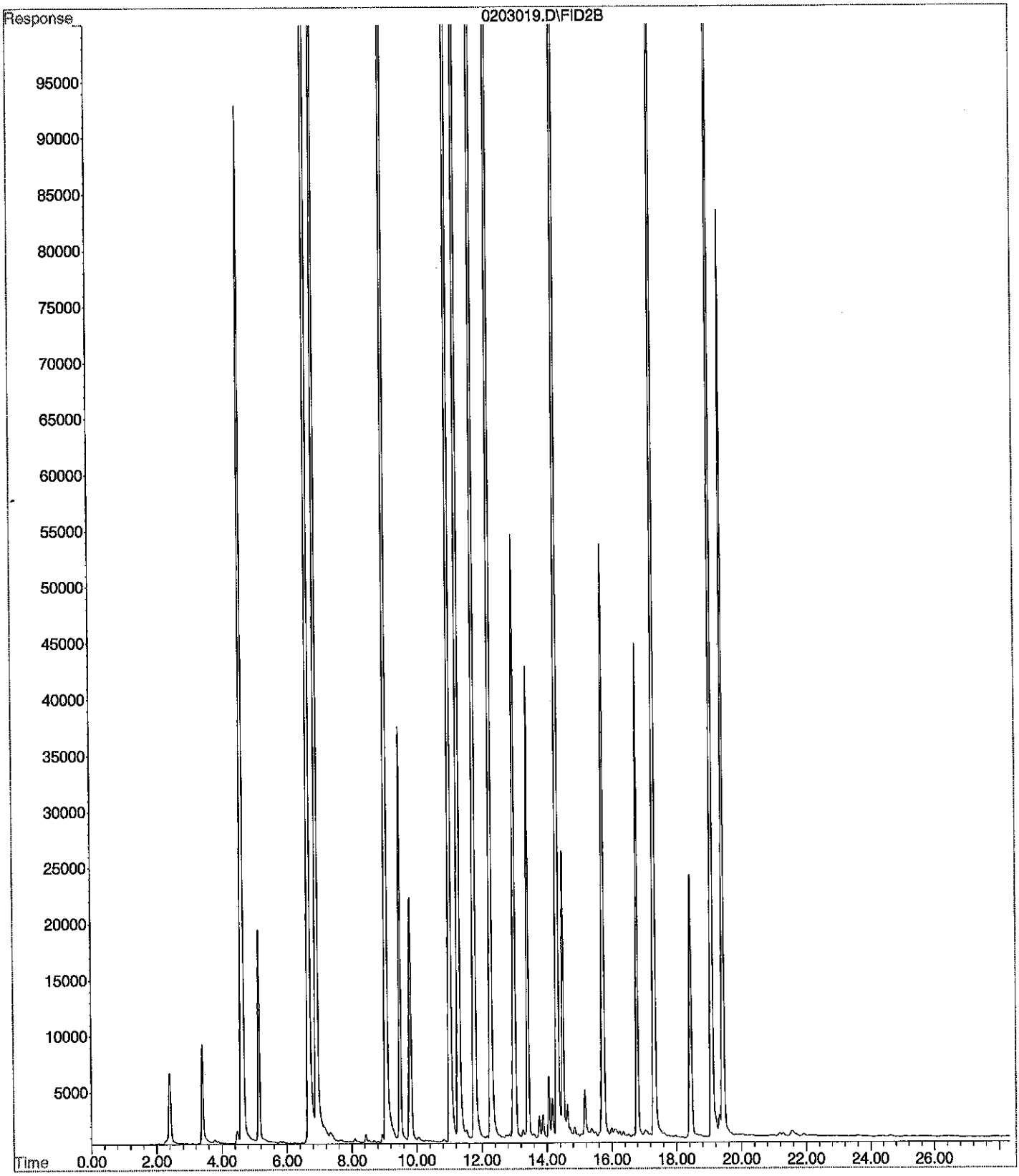
Quant Time: Feb 3 20:38 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
4)	S	FLUOROBENZENE	6.92	3208687	46.285	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1954538	48.255	PPB
12)	S	FLUOROBENZENE #2	6.92	8112485	36.554	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	11558879	38.584	PPB
Target Compounds						
1)	H	Gasoline AK GRO (9-24-14)	8.51	30445507	0.612	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50799511	0.767	PPM
3)	H	GASOLINE (9-24-14)	13.51	34315663	0.847	PPM
7)	H	entire GAS envelope #2 (9-	12.26	113287312	0.740	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	84163981	0.989	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	82749018	0.695	PPM
10)		MTBE #2	4.63	4363765	59.712	PPB
11)		BENZENE #2	6.68	13956173	47.512	PPB
13)		TOLUENE #2	9.06	13074687	46.870	PPB
14)		ETHYLBENZENE #2	11.03	11449883	46.508	PPB
15)		m,p-XYLENE #2	11.29	13799023	47.025	PPB
16)		o-XYLENE #2	11.78	11710519	46.537	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203019.D
Operator :
Acquired : 3 Feb 2015 20:10 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 19



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203035.D\FID1A.CH Vial: 35
Signal #2 : d:\btex\DATA\D150203\0203035.D\FID2B.CH
Acq On : 4 Feb 2015 5:01 Operator:
Sample : CCVD0203B-3 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 5:30 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

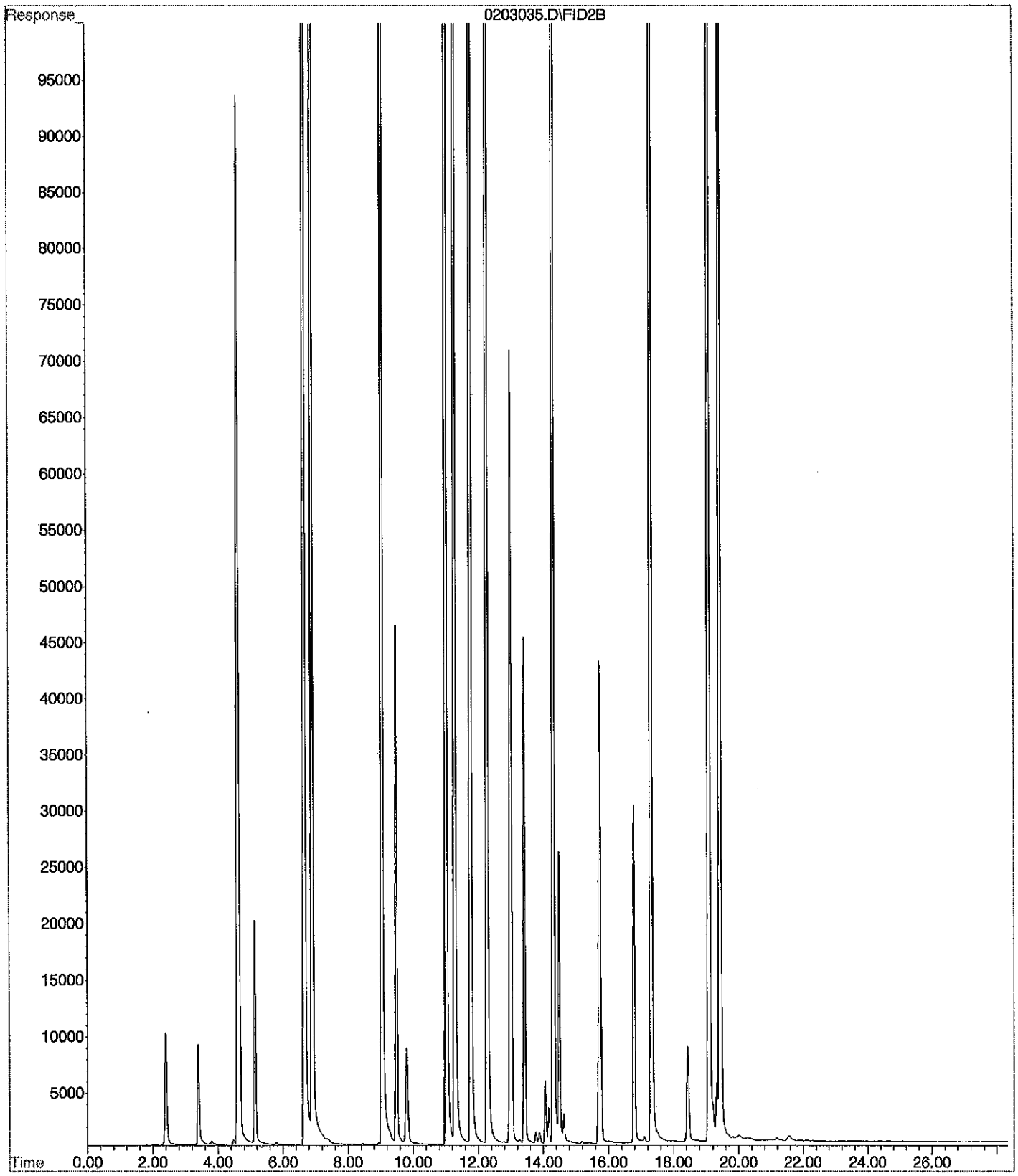
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.91	3071780	44.296	PPB
5)	S	BROMOFLUOROBENZENE	12.27	1889565	46.632	PPB
12)	S	FLUOROBENZENE #2	6.91	7842861	35.328	PPB
17)	S	BROMOFLUOROBENZENE #2	12.27	11302004	37.717	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	30890771	0.621	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	51916881	0.784	PPM
3)	H	GASOLINE (9-24-14)	13.51	34173190	0.843	PPM
7)	H	entire GAS envelope #2 (9-	12.26	123125602	0.809	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	85004684	0.999	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	84379171	0.710	PPM
10)		MTBE #2	4.62	4324937	59.181	PPB
11)		BENZENE #2	6.67	14145338	48.157	PPB
13)		TOLUENE #2	9.06	13243241	47.477	PPB
14)		ETHYLBENZENE #2	11.02	11634195	47.258	PPB
15)		m,p-XYLENE #2	11.29	13920914	47.445	PPB
16)		o-XYLENE #2	11.77	11817831	46.966	PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203035.D
Operator :
Acquired : 4 Feb 2015 5:01 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203B-3
Misc Info : V2-36-23,V2-37-04
Vial Number: 35



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150204\0204002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150204\0204002.D\FID2B.CH
Acq On : 4 Feb 2015 13:33 Operator:
Sample : CCVD0204B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 14:01 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

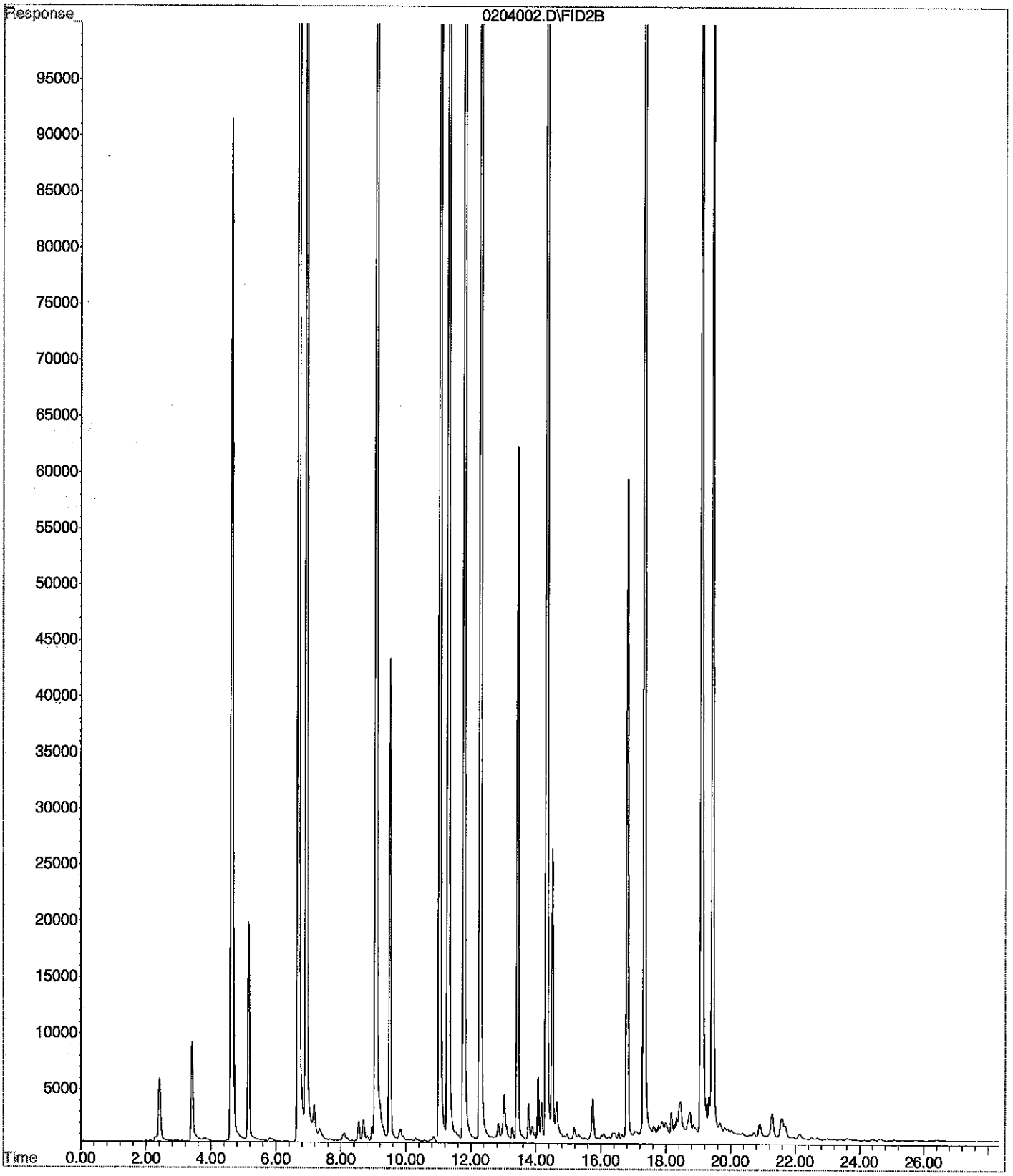
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3202086	46.189 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1955461	48.279 PPB
12)	S	FLUOROBENZENE #2	6.93	8047425	36.258 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11577920	38.649 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	31670064	0.637 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	54511077	0.824 PPM
3)	H	GASOLINE (9-24-14)	13.51	36492279	0.902 PPM
7)	H	entire GAS envelope #2 (9-	12.26	112844658	0.737 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	81540132	0.957 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	80342109	0.673 PPM
10)		MTBE #2	4.64	4202955	57.510 PPB
11)		BENZENE #2	6.69	14086104	47.955 PPB
13)		TOLUENE #2	9.07	13401673	48.047 PPB
14)		ETHYLBENZENE #2	11.04	11720976	47.612 PPB
15)		m,p-XYLENE #2	11.30	14348095	48.918 PPB
16)		o-XYLENE #2	11.79	11938341	47.447 PPB

2/5

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150204\0204002.D
Operator :
Acquired : 4 Feb 2015 13:33 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0204B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150204\0204012.D\FID1A.CH Vial: 12
Signal #2 : X:\BTEX\DARYL\DATA\D150204\0204012.D\FID2B.CH
Acq On : 4 Feb 2015 19:09 Operator:
Sample : CCVD0204B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

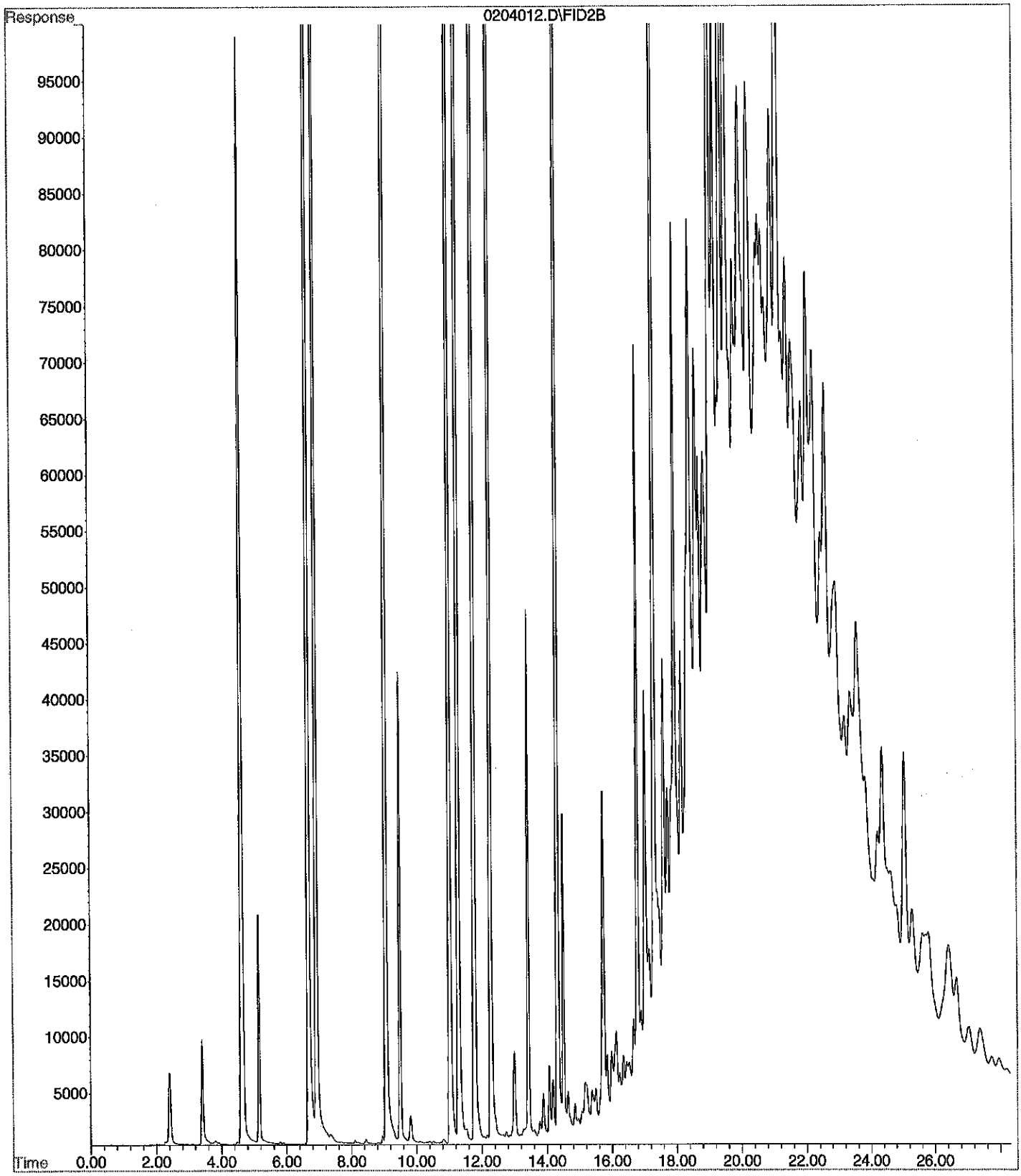
Quant Time: Feb 4 19:38 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	3265563	47.111	PPB
5)	S	BROMOFLUOROBENZENE	12.29	2029717	50.134	PPB
12)	S	FLUOROBENZENE #2	6.93	8394148	37.835	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	11890895	39.706	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	32355817	0.651	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	130474295	1.987	PPM
3)	H	GASOLINE (9-24-14)	13.51	46858175	1.164	PPM
7)	H	entire GAS envelope #2 (9-	12.26	276949251	1.880	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	137297466	1.635	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	103731228	0.886	PPM
10)		MTBE #2	4.64	4524596	61.915	PPB
11)		BENZENE #2	6.69	14841346	50.528	PPB
13)		TOLUENE #2	9.07	13881157	49.772	PPB
14)		ETHYLBENZENE #2	11.04	12314130	50.027	PPB
15)		m,p-XYLENE #2	11.30	14648453	49.954	PPB
16)		o-XYLENE #2	11.79	12399434	49.290	PPB

File : X:\BTEX\DARYL\DATA\D150204\0204012.D
Operator :
Acquired : 4 Feb 2015 19:09 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0204B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150203\0203001.D\FID2B.CH
Acq On : 3 Feb 2015 9:53 Operator:
Sample : CCVD0203G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 10:21 2015 Quant Results File: 141012MB.RES

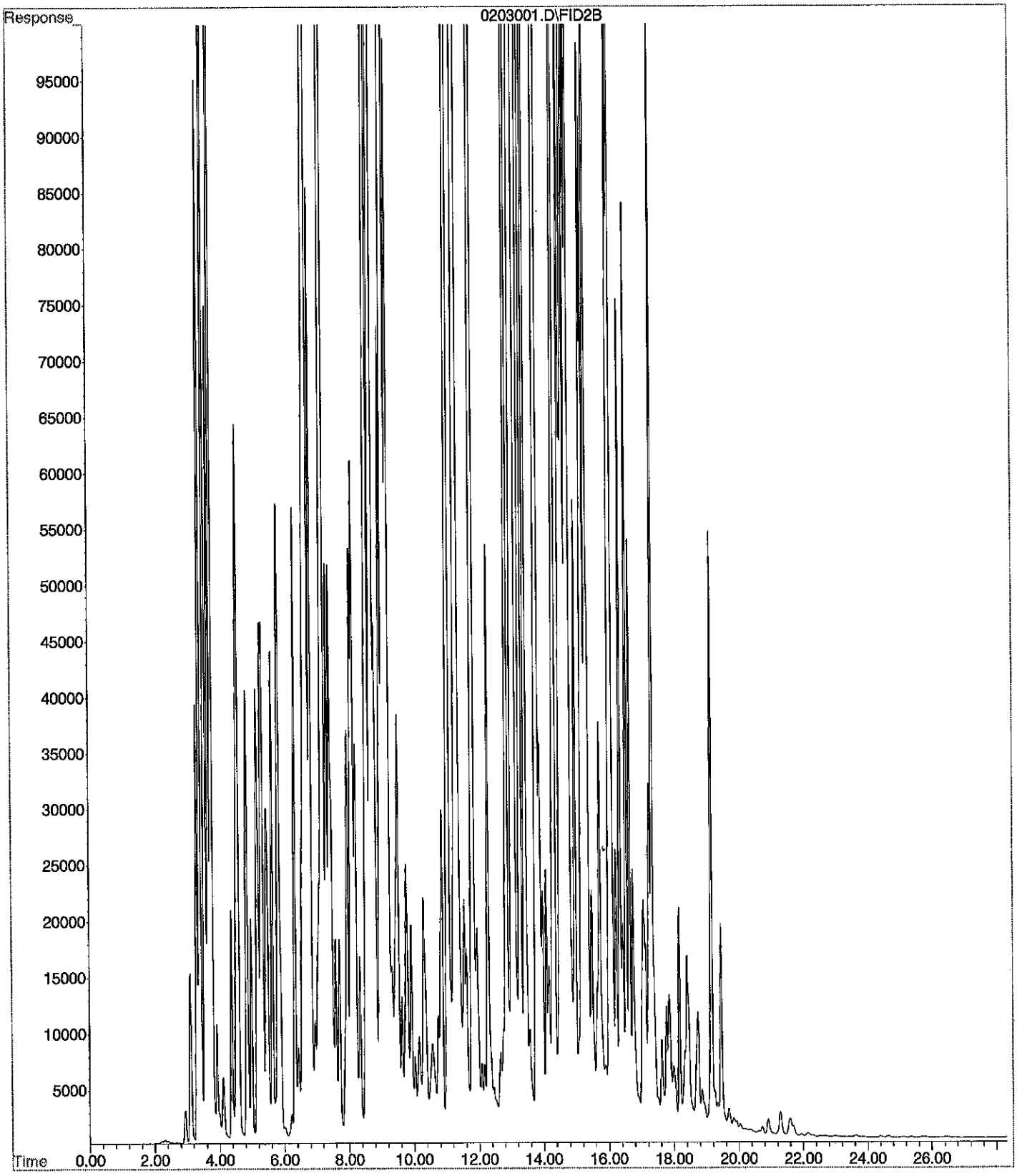
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1304445	32.014	PPB
12)	S	FLUOROBENZENE #2	6.96	473097	1.820	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	2385413	7.596	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	288910528	5.862	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	385398316	5.892	PPM
3)	H	GASOLINE (9-24-14)	13.51	217929005	5.492	PPM
7)	H	entire GAS envelope #2 (9-	12.26	655475362	4.517	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	498490838	6.031	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	496485696	4.466	PPM
10)		MTBE #2	4.57	3481189	47.626	PPB
11)		BENZENE #2	6.69	43803886	149.220	PPB
13)		TOLUENE #2	9.08	111209892	399.995	PPB
14)		ETHYLBENZENE #2	11.04	27703134	112.693	PPB
15)		m,p-XYLENE #2	11.30	100223398	344.975	PPB
16)		o-XYLENE #2	11.80	38501023	153.611	PPB

2/3 ✓

File : X:\BTEX\DARYL\DATA\D150203\0203001.D
Operator :
Acquired : 3 Feb 2015 9:53 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203037.D\FID1A.CH Vial: 37
Signal #2 : d:\btex\DATA\D150203\0203037.D\FID2B.CH
Acq On : 4 Feb 2015 6:08 Operator:
Sample : CCVD0203G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

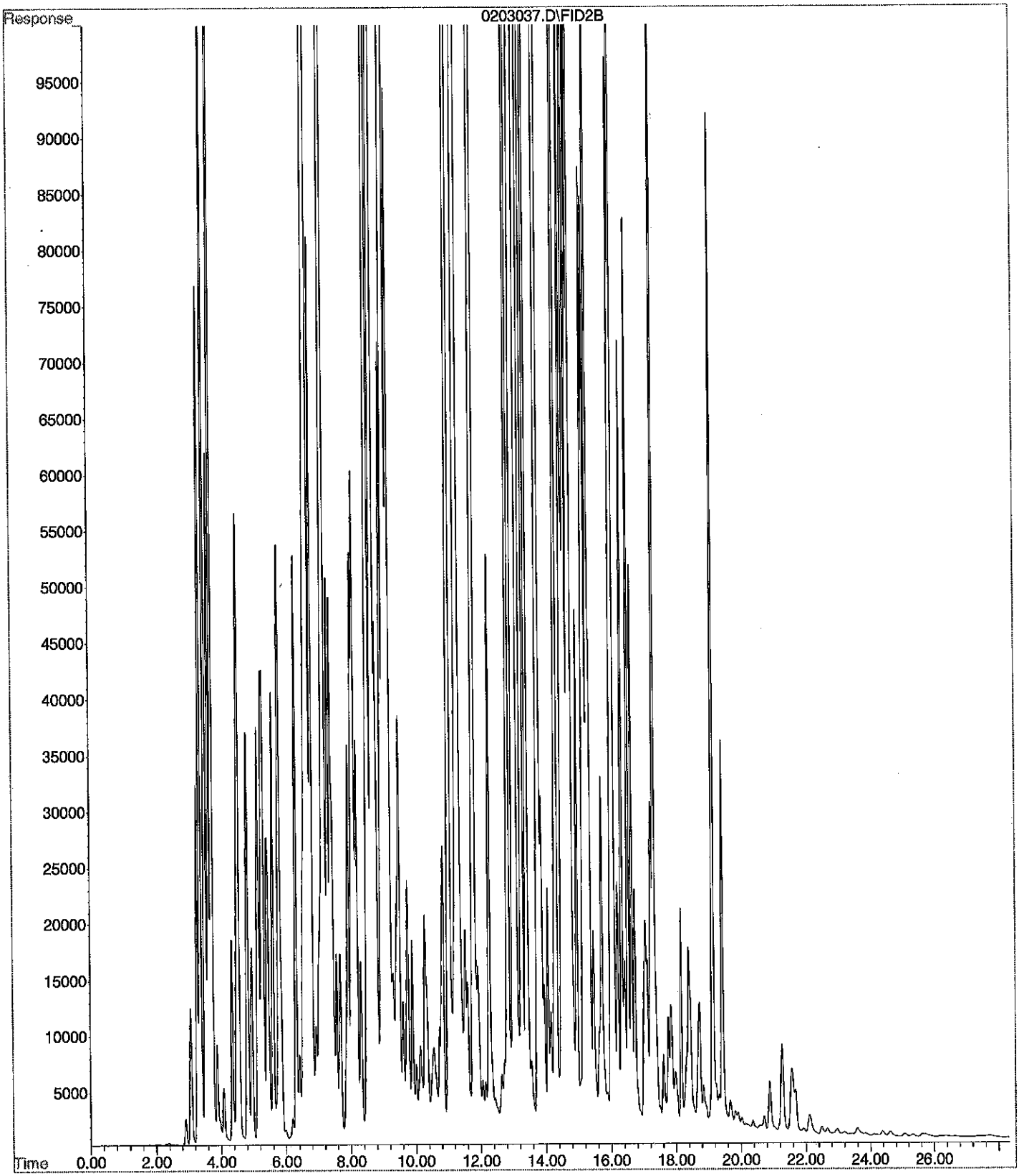
Quant Time: Feb 4 6:36 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	7.03	1498004	21.432	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1139294	27.889	PPB
12)	S	FLUOROBENZENE #2	6.93	453454	1.731	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	2284344	7.255	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	272069118	5.520	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	356331856	5.447	PPM
3)	H	GASOLINE (9-24-14)	13.51	204534504	5.153	PPM
7)	H	entire GAS envelope #2 (9-	12.26	635434783	4.377	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	483446714	5.848	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	481852939	4.333	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.67	42579431	145.047	PPB
13)		TOLUENE #2	9.06	111720494	401.833	PPB
14)		ETHYLBENZENE #2	11.03	27159971	110.482	PPB
15)		m,p-XYLENE #2	11.28	100255075	345.085	PPB
16)		o-XYLENE #2	11.78	38183180	152.340	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203037.D
Operator :
Acquired : 4 Feb 2015 6:08 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203G-2
Misc Info : V2-36-08
Vial Number: 37



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150204\0204001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150204\0204001.D\FID2B.CH
Acq On : 4 Feb 2015 12:59 Operator:
Sample : CCVD0204G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 13:28 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

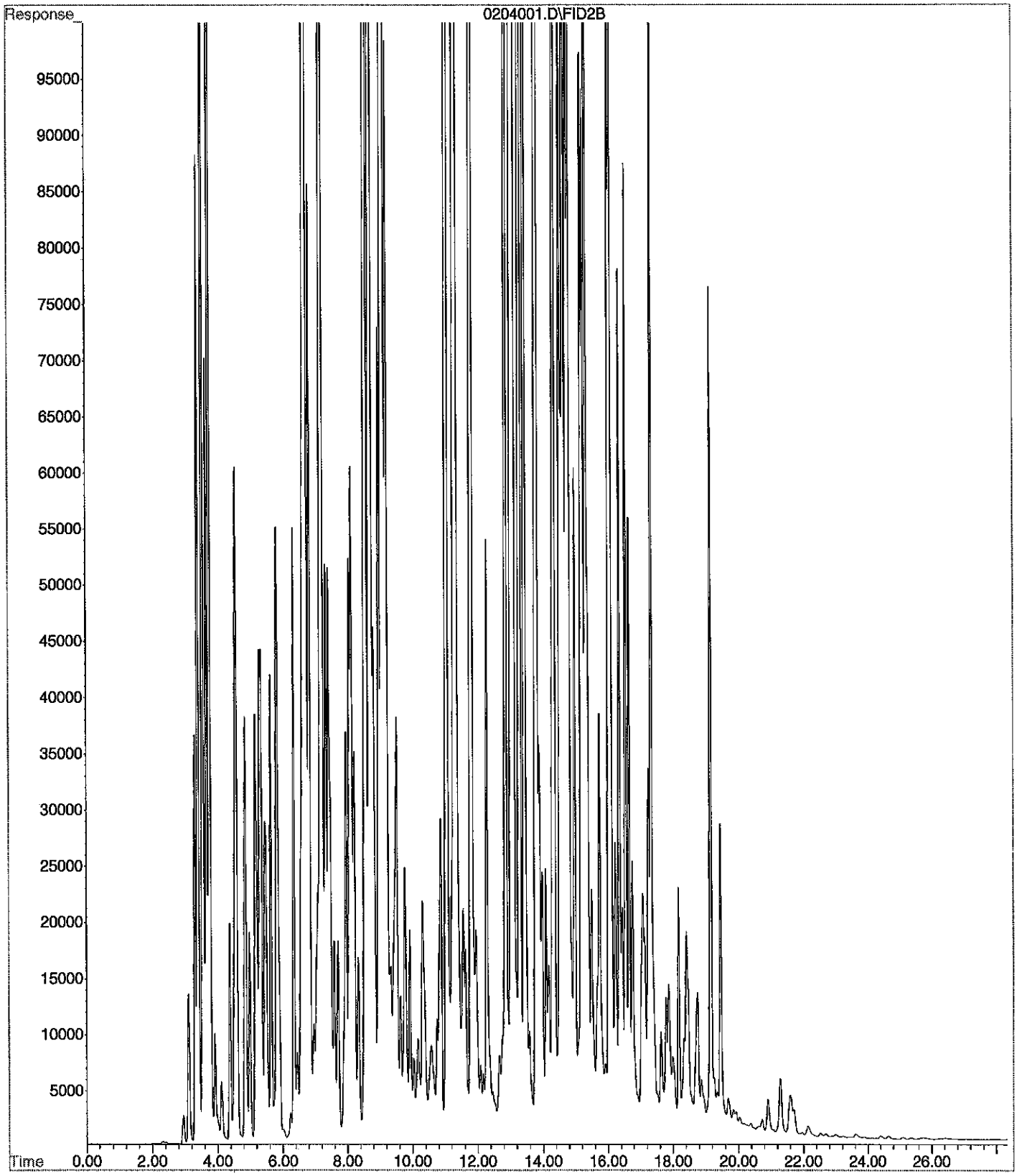
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1271829	31.200	PPB
12)	S	FLUOROBENZENE #2	6.96	452876	1.728	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	2367832	7.537	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	291512176	5.915	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	390080535	5.964	PPM
3)	H	GASOLINE (9-24-14)	13.51	222621240	5.610	PPM
7)	H	entire GAS envelope #2 (9-	12.26	666599602	4.594	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	511171528	6.185	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	508291959	4.574	PPM
10)		MTBE #2	4.57	3229277	44.176	PPB
11)		BENZENE #2	6.70	43934002	149.663	PPB
13)		TOLUENE #2	9.09	113500462	408.238	PPB
14)		ETHYLBENZENE #2	11.05	28365010	115.389	PPB
15)		m,p-XYLENE #2	11.30	102528170	352.921	PPB
16)		o-XYLENE #2	11.80	39561695	157.850	PPB

2/5

(f)=RT Delta > 1/2 Window (m)=manual int.
0204001.D 141012MB.M Wed Feb 04 13:28:12 2015

File : X:\BTEX\DARYL\DATA\D150204\0204001.D
Operator :
Acquired : 4 Feb 2015 12:59 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0204G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150204\0204014.D\FID1A.CH Vial: 14
Signal #2 : d:\btex\DATA\D150204\0204014.D\FID2B.CH
Acq On : 4 Feb 2015 20:16 Operator:
Sample : CCVD0204G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 20:44 2015 Quant Results File: 141012MB.RES

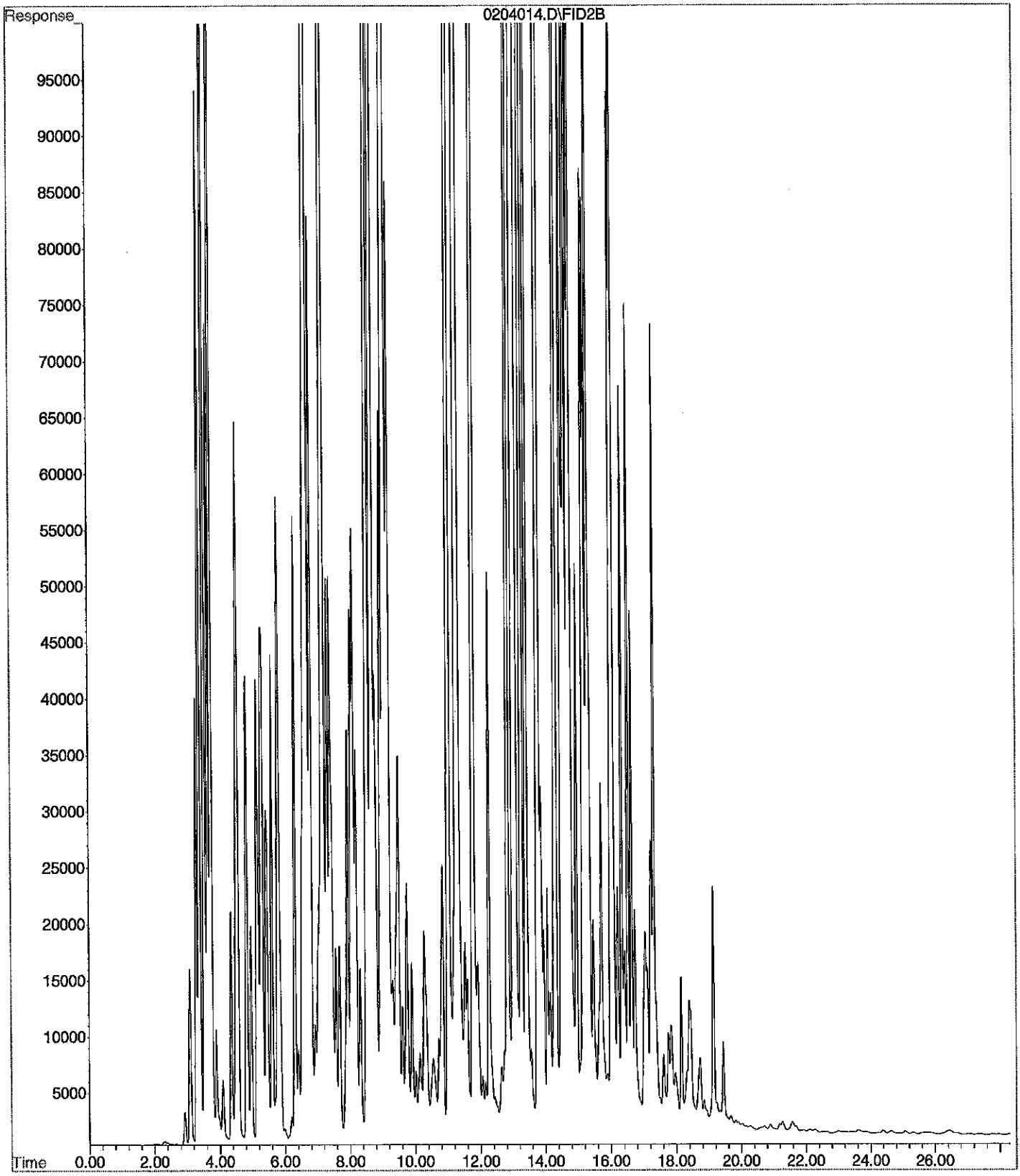
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	7.03	1521381	21.771	PPB
5)	S	BROMOFLUOROBENZENE	12.26	907259	22.092	PPB
12)	S	FLUOROBENZENE #2	6.94	450634	1.718	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	2183296	6.913	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	270588751	5.490	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	358919161	5.487	PPM
3)	H	GASOLINE (9-24-14)	13.51	203973522	5.138	PPM
7)	H	entire GAS envelope #2 (9-	12.26	631319645	4.348	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	479598369	5.801	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	478363860	4.301	PPM
10)		MTBE #2	4.55	3504601	47.946	PPB
11)		BENZENE #2	6.67	43243222	147.309	PPB
13)		TOLUENE #2	9.06	112204358	403.574	PPB
14)		ETHYLBENZENE #2	11.03	26804481	109.034	PPB
15)		m,p-XYLENE #2	11.29	99893455	343.838	PPB
16)		o-XYLENE #2	11.78	37447068	149.398	PPB

2/5

File : X:\BTEX\DARYL\DATA\D150204\0204014.D
Operator :
Acquired : 4 Feb 2015 20:16 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0204G-2
Misc Info : V2-36-08
Vial Number: 14



NWTPH-Gx/Benzene (water) Data

Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203018.D\FID1A.CH Vial: 18
Signal #2 : d:\btex\DATA\D150203\0203018.D\FID2B.CH
Acq On : 3 Feb 2015 19:37 Operator:
Sample : 02-014-07 Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

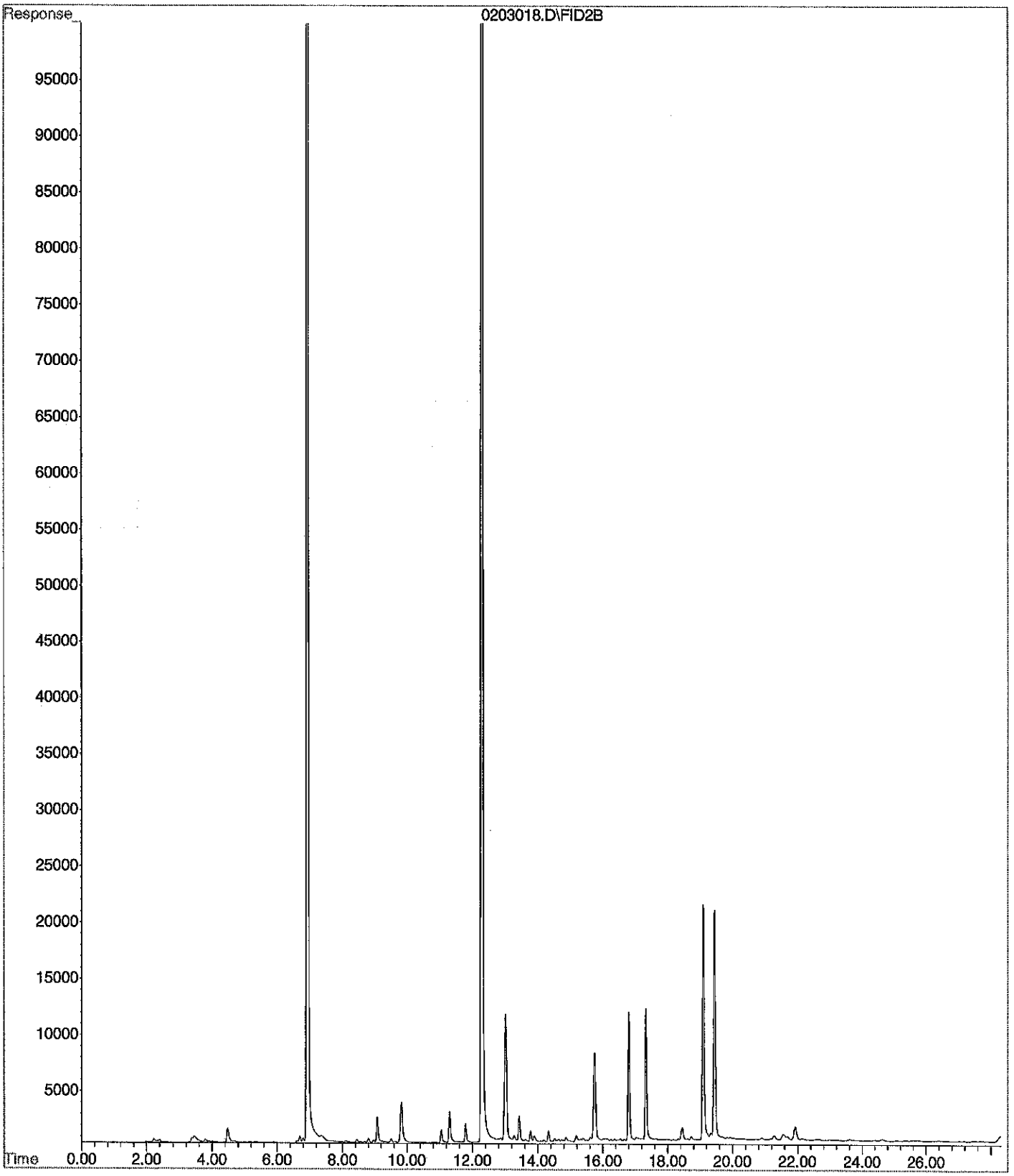
Quant Time: Feb 3 20:05 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.93	2959160	42.660	PPB
5)	S	BROMOFLUOROBENZENE	12.29	1830197	45.149	PPB
12)	S	FLUOROBENZENE #2	6.93	7032813	31.645	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	10277464	34.256	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1012226	0.014	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4069417	0.051	PPM
3)	H	GASOLINE (9-24-14)	13.51	2115065	0.032	PPM
7)	H	entire GAS envelope #2 (9-	12.26	6654190	N.D.	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	3949221	0.013	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	3616125	N.D.	PPM
10)		MTBE #2	4.67	13593	0.138	PPB
11)		BENZENE #2	6.69	22523	0.032	PPB
13)		TOLUENE #2	9.08	101152	0.187	PPB
14)		ETHYLBENZENE #2	11.05	44880	0.065	PPB
15)		m,p-XYLENE #2	11.30	114311	N.D.	PPB
16)		o-XYLENE #2	11.79	65685	N.D.	PPB

File : X:\BTEX\DARYL\DATA\D150203\0203018.D
Operator :
Acquired : 3 Feb 2015 19:37 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 02-014-07
Misc Info : V2-36-23
Vial Number: 18



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203004.D\FID1A.CH Vial: 4
Signal #2 : d:\btex\DATA\D150203\0203004.D\FID2B.CH
Acq On : 3 Feb 2015 11:43 Operator:
Sample : MB0203W1 Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 12:12 2015 Quant Results File: 141012MB.RES

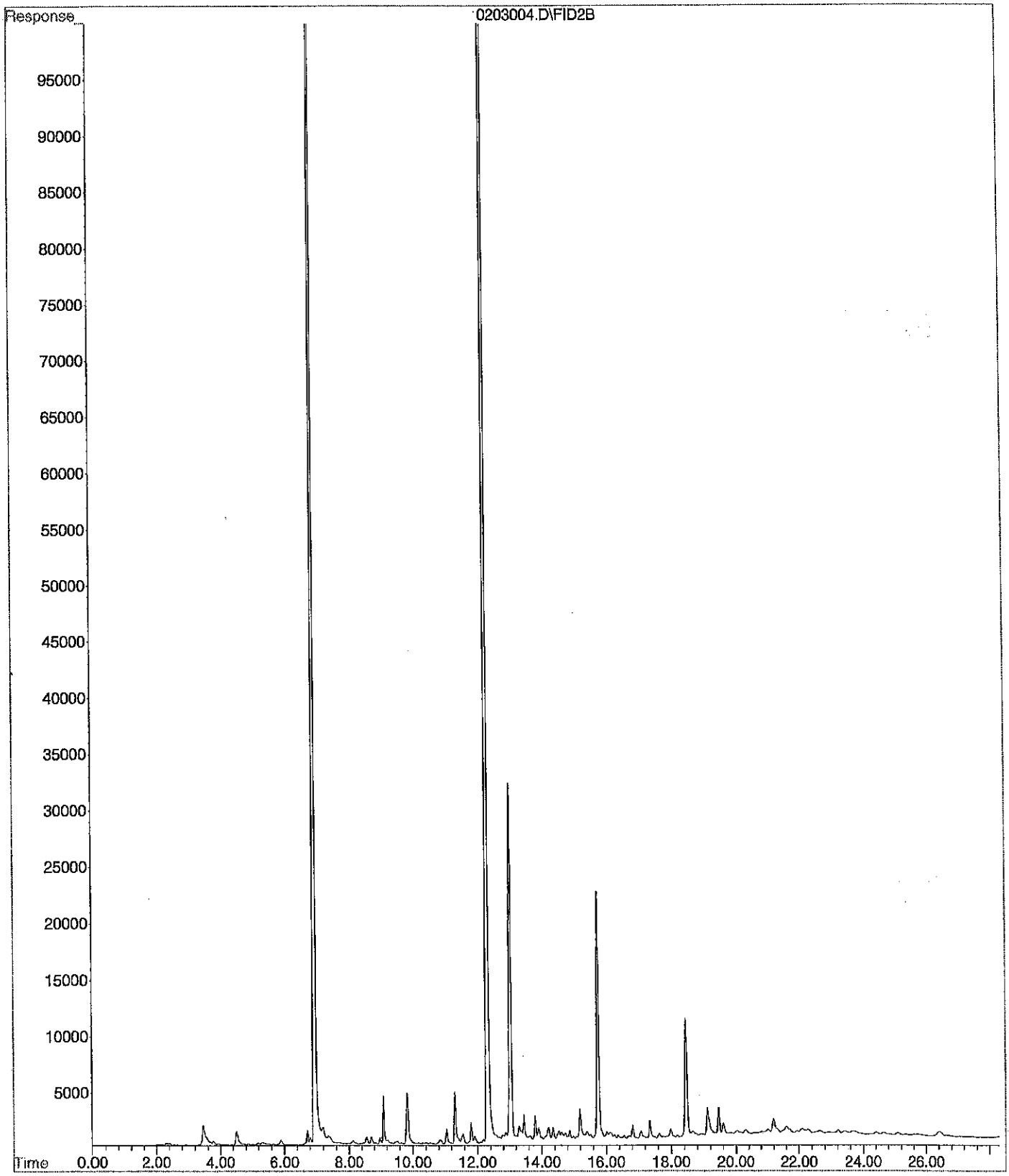
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	6.95	3075232	44.346	PPB
5)	S	BROMOFLUOROBENZENE	12.30	1908085	47.095	PPB
12)	S	FLUOROBENZENE #2	6.95	7626549	34.345	PPB
17)	S	BROMOFLUOROBENZENE #2	12.30	11204415	37.387	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	1415439	0.022	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	4642893	0.060	PPM
3)	H	GASOLINE (9-24-14)	13.51	2417376	0.040	PPM
7)	H	entire GAS envelope #2 (9-	12.26	10419223	0.024	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	7664004	0.058	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	6553579	0.001	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.71	44681	0.108	PPB
13)		TOLUENE #2	9.09	146255	0.349	PPB
14)		ETHYLBENZENE #2	11.06	50554	0.088	PPB
15)		m,p-XYLENE #2	11.31	188976	0.104	PPB
16)		o-XYLENE #2	11.81	65108	N.D.	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203004.D
Operator :
Acquired : 3 Feb 2015 11:43 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: MB0203W1
Misc Info : V2-36-23
Vial Number: 4



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150203\0203005.D\FID1A.CH Vial: 5
Signal #2 : X:\BTEX\DARYL\DATA\D150203\0203005.D\FID2B.CH
Acq On : 3 Feb 2015 12:17 Operator:
Sample : 01-234-02e Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

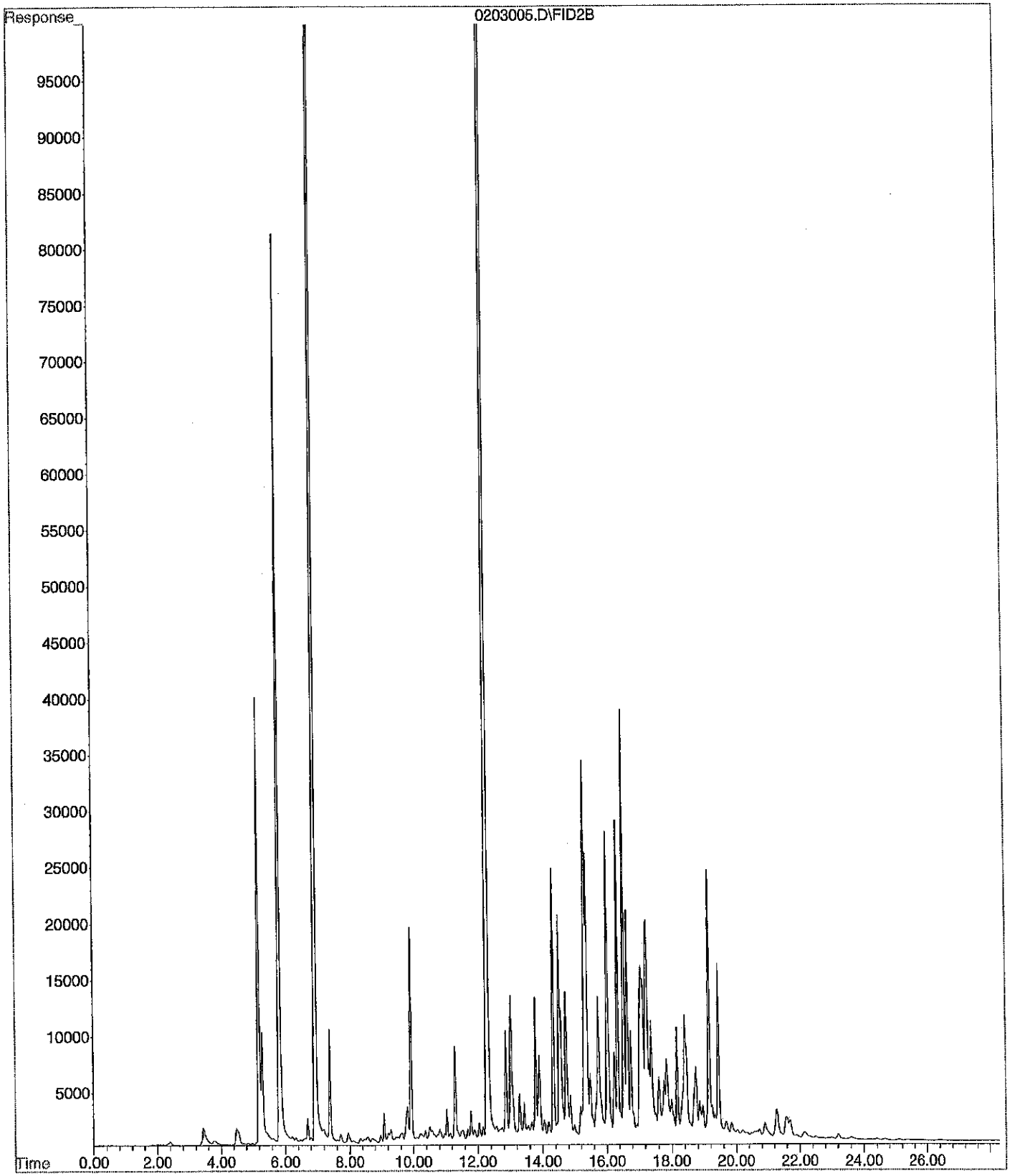
Quant Time: Feb 3 12:45 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	2969050	42.804 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1906242	47.049 PPB
12)	S	FLUOROBENZENE #2	6.93	7555726	34.023 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11089981	37.001 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	4625495	0.087 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	14512996	0.211 PPM
3)	H	GASOLINE (9-24-14)	13.51	8859304	0.203 PPM
7)	H	entire GAS envelope #2 (9-	12.26	34323903	0.190 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	24887360	0.268 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	22086847	0.142 PPM
10)		MTBE #2	4.70	7773	0.058 PPB
11)		BENZENE #2	6.69	92276	0.270 PPB
13)		TOLUENE #2	9.08	100554	0.184 PPB
14)		ETHYLBENZENE #2	11.05	117718	0.361 PPB
15)		m,p-XYLENE #2	11.30	389564	0.796 PPB
16)		o-XYLENE #2	11.80	118181	0.205 PPB

File : X:\BTEX\DARYL\DATA\D150203\0203005.D
Operator :
Acquired : 3 Feb 2015 12:17 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e
Misc Info : V2-36-23
Vial Number: 5



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D150203\0203006.D\FID1A.CH Vial: 6
Signal #2 : X:\BTEX\DARYL\DATA\D150203\0203006.D\FID2B.CH
Acq On : 3 Feb 2015 12:50 Operator:
Sample : 01-234-02e DUP Inst : Daryl
Misc : V2-36-23 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

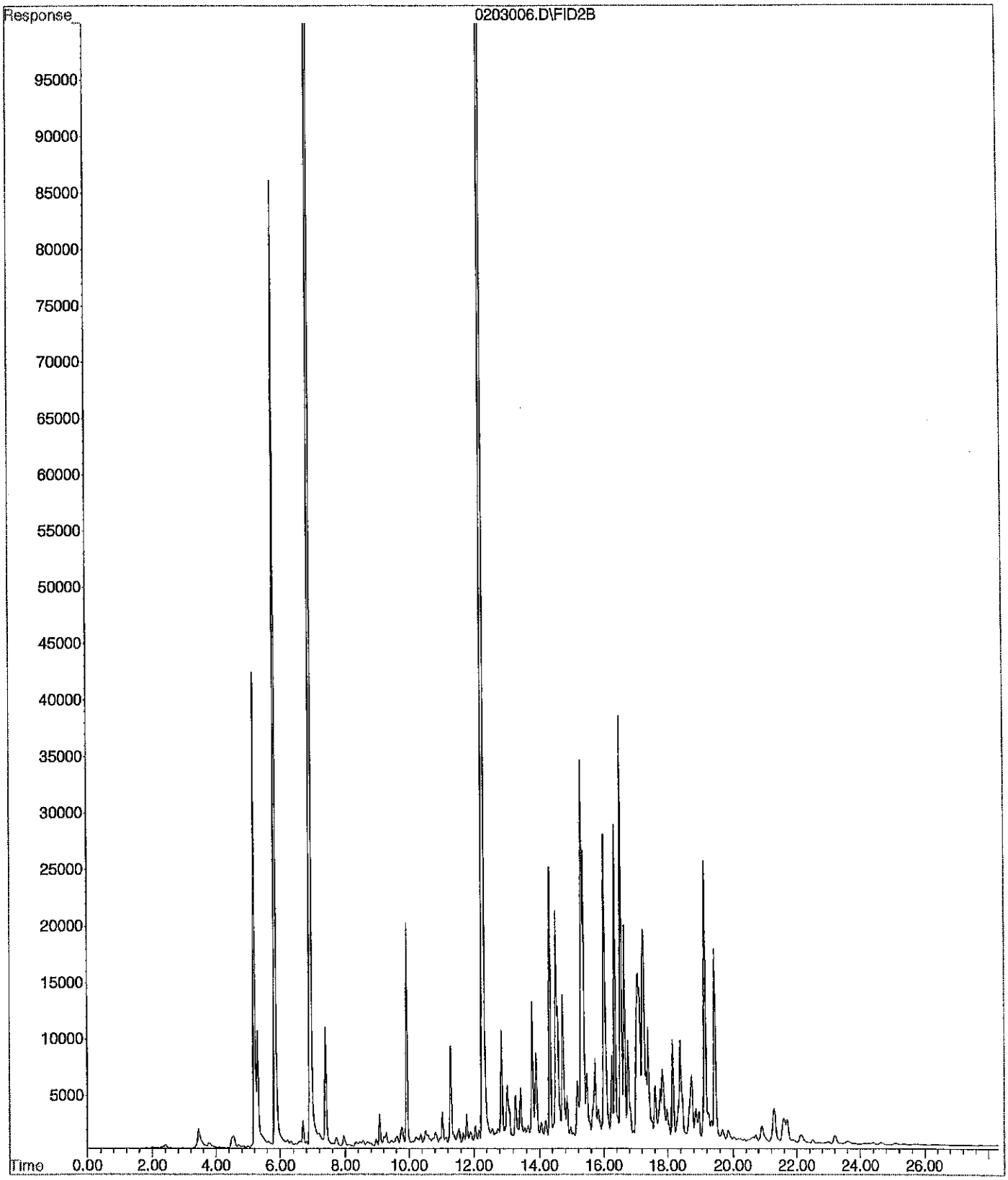
Quant Time: Feb 3 13:19 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3108011	44.823 PPB
5)	S	BROMOFLUOROBENZENE	12.28	2053881	50.737 PPB
12)	S	FLUOROBENZENE #2	6.93	7900792	35.592 PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	11685771	39.013 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	4743397	0.090 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	14731239	0.214 PPM
3)	H	GASOLINE (9-24-14)	13.51	9294716	0.214 PPM
7)	H	entire GAS envelope #2 (9-	12.26	33426836	0.184 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	23940067	0.256 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	21580976	0.137 PPM
10)		MTBE #2	4.70	17731	0.195 PPB
11)		BENZENE #2	6.69	93912	0.276 PPB
13)		TOLUENE #2	9.08	104478	0.199 PPB
14)		ETHYLBENZENE #2	11.04	118684	0.365 PPB
15)		m,p-XYLENE #2	11.30	397480	0.823 PPB
16)		o-XYLENE #2	11.79	115109	0.193 PPB

File : X:\BTEX\DARYL\DATA\D150203\0203006.D
Operator :
Acquired : 3 Feb 2015 12:50 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e DUP
Misc Info : V2-36-23
Vial Number: 6



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203011.D\FID1A.CH Vial: 11
Signal #2 : d:\btex\DATA\D150203\0203011.D\FID2B.CH
Acq On : 3 Feb 2015 15:38 Operator:
Sample : 01-234-02e MS Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 16:07 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

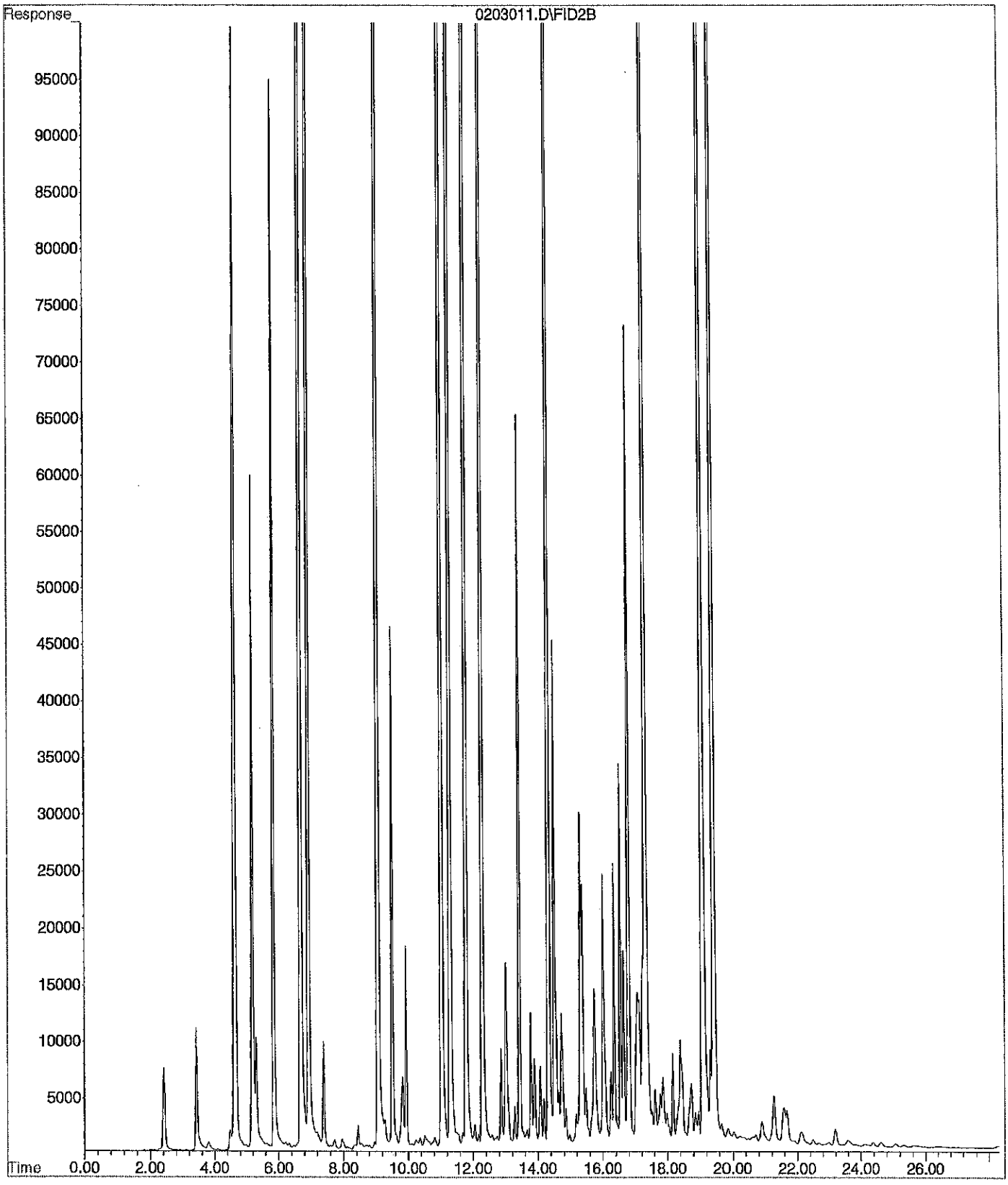
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3166141	45.667 PPB
5)	S	BROMOFLUOROBENZENE	12.29	2038366	50.350 PPB
12)	S	FLUOROBENZENE #2	6.93	8160353	36.772 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11938558	39.867 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	34573680	0.696 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	67201317	1.018 PPM
3)	H	GASOLINE (9-24-14)	13.51	44089573	1.094 PPM
7)	H	entire GAS envelope #2 (9-	12.26	156271381	1.040 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	104513517	1.236 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	102104066	0.871 PPM
10)		MTBE #2	4.64	4548835	62.247 PPB
11)		BENZENE #2	6.69	14430083	49.127 PPB
13)		TOLUENE #2	9.07	13456065	48.242 PPB
14)		ETHYLBENZENE #2	11.04	12056158	48.977 PPB
15)		m,p-XYLENE #2	11.31	14341302	48.895 PPB
16)		o-XYLENE #2	11.79	11992609	47.664 PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203011.D
Operator :
Acquired : 3 Feb 2015 15:38 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e MS
Misc Info : V2-36-23,V2-37-04
Vial Number: 11



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203012.D\FID1A.CH Vial: 12
Signal #2 : d:\btex\DATA\D150203\0203012.D\FID2B.CH
Acq On : 3 Feb 2015 16:15 Operator:
Sample : 01-234-02e MSD Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 16:43 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

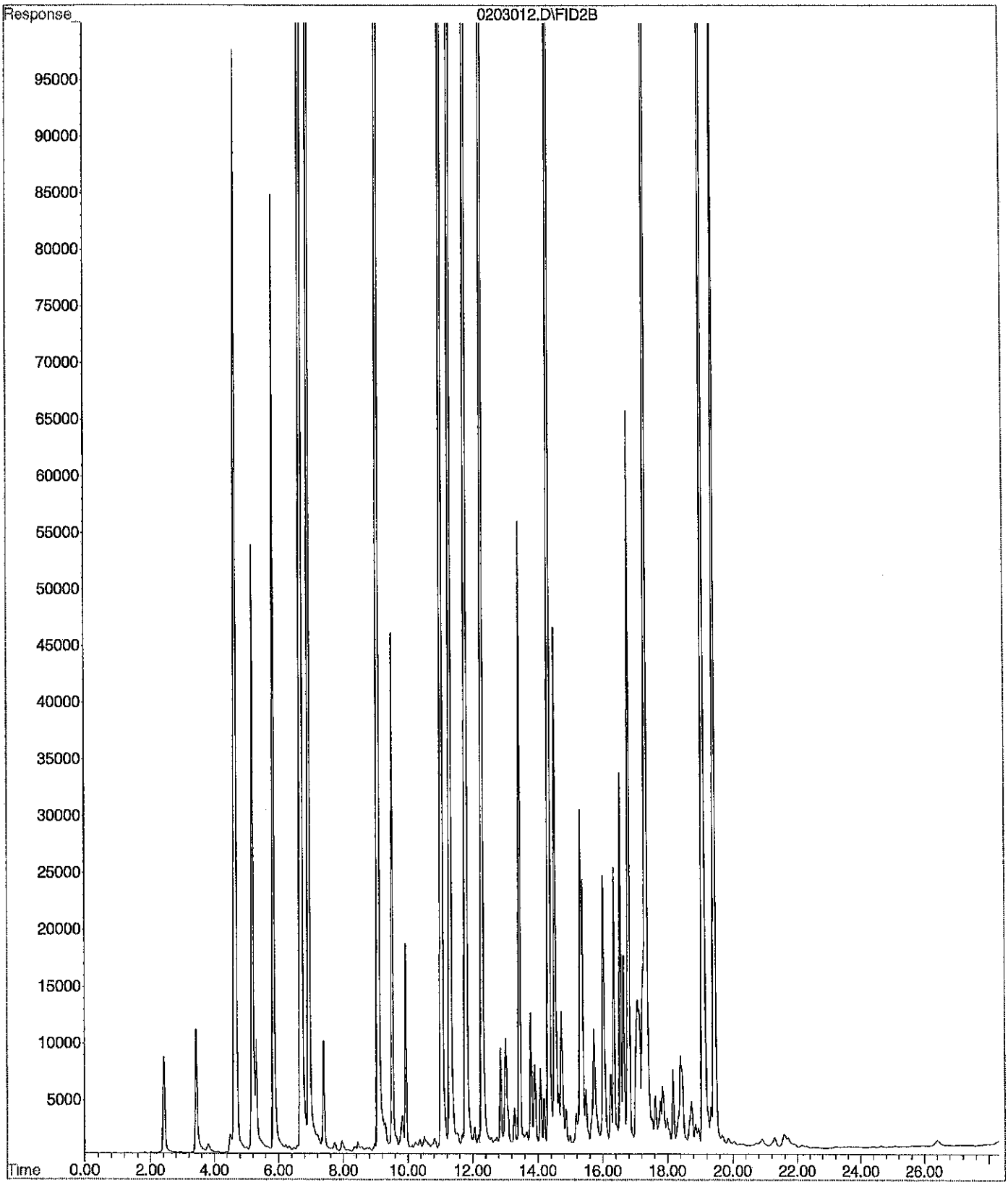
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.94	3150382	45.438 PPB
5)	S	BROMOFLUOROBENZENE	12.29	2025307	50.023 PPB
12)	S	FLUOROBENZENE #2	6.94	8179563	36.859 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11897751	39.729 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	35238133	0.709 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	63526270	0.962 PPM
3)	H	GASOLINE (9-24-14)	13.51	43181826	1.071 PPM
7)	H	entire GAS envelope #2 (9-	12.26	143300738	0.949 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	103438557	1.223 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	101344301	0.865 PPM
10)		MTBE #2	4.65	4552094	62.292 PPB
11)		BENZENE #2	6.70	15182241	51.690 PPB
13)		TOLUENE #2	9.08	14146699	50.727 PPB
14)		ETHYLBENZENE #2	11.04	12645872	51.378 PPB
15)		m,p-XYLENE #2	11.31	15025531	51.253 PPB
16)		o-XYLENE #2	11.79	12602973	50.104 PPB

2/4

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203012.D
Operator :
Acquired : 3 Feb 2015 16:15 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: 01-234-02e MSD
Misc Info : V2-36-23,V2-37-04
Vial Number: 12



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203002.D\FID1A.CH Vial: 2
Signal #2 : d:\btex\DATA\D150203\0203002.D\FID2B.CH
Acq On : 3 Feb 2015 10:26 Operator:
Sample : CCVD0203B-1 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 10:55 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

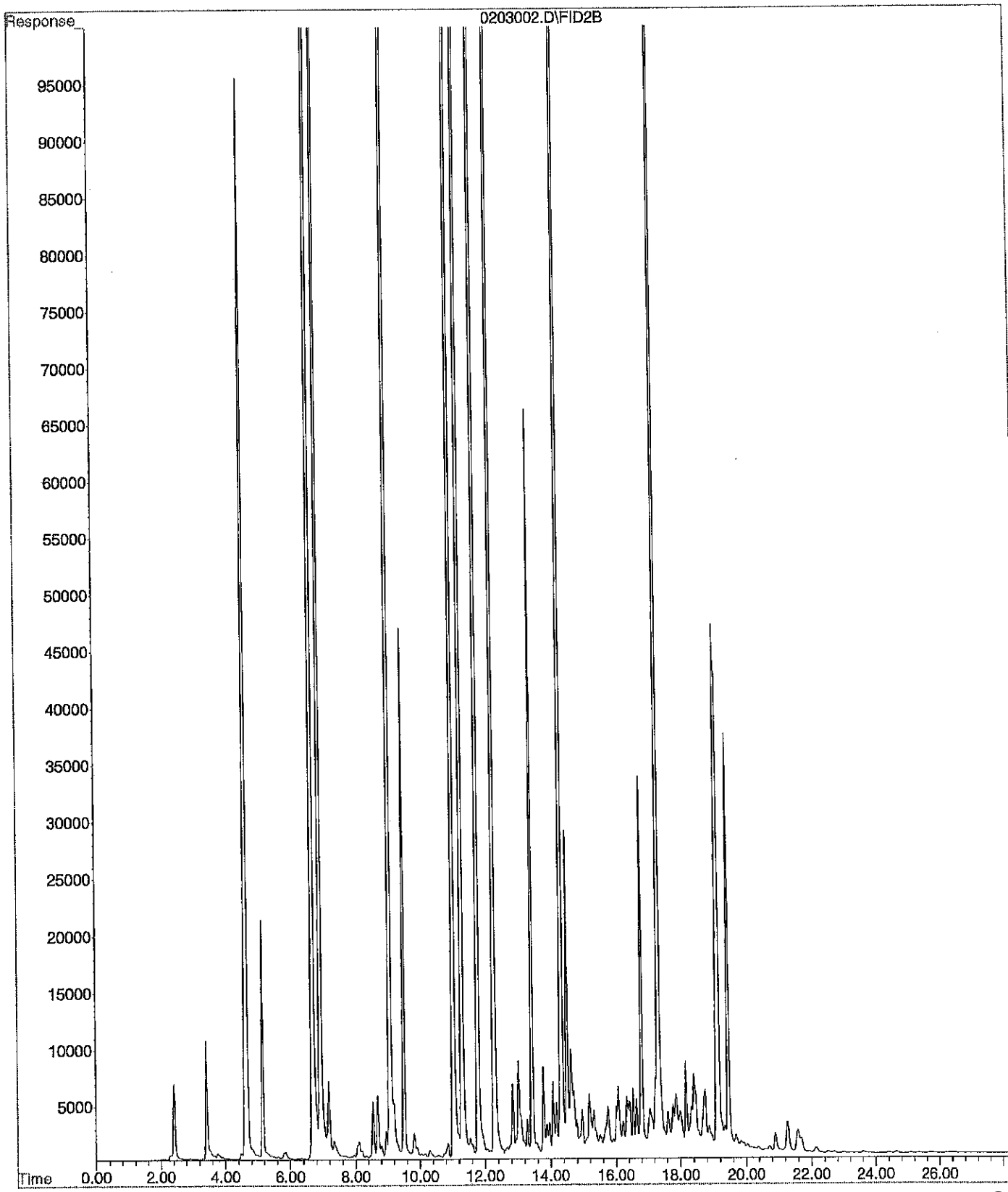
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.93	3178944	45.853 PPB
5)	S	BROMOFLUOROBENZENE	12.29	1961193	48.422 PPB
12)	S	FLUOROBENZENE #2	6.92	8143247	36.694 PPB
17)	S	BROMOFLUOROBENZENE #2	12.29	11648600	38.888 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	34434207	0.693 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	58574608	0.886 PPM
3)	H	GASOLINE (9-24-14)	13.51	39423054	0.976 PPM
7)	H	entire GAS envelope #2 (9-	12.26	118396039	0.776 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	90342341	1.064 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	87925714	0.742 PPM
10)		MTBE #2	4.64	4466930	61.125 PPB
11)		BENZENE #2	6.68	14886345	50.682 PPB
13)		TOLUENE #2	9.07	13918910	49.908 PPB
14)		ETHYLBENZENE #2	11.04	12341342	50.138 PPB
15)		m,p-XYLENE #2	11.30	15030846	51.272 PPB
16)		o-XYLENE #2	11.79	12411728	49.339 PPB

23

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203002.D
Operator :
Acquired : 3 Feb 2015 10:26 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203B-1
Misc Info : V2-36-23,V2-37-04
Vial Number: 2



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203019.D\FID1A.CH Vial: 19
Signal #2 : d:\btex\DATA\D150203\0203019.D\FID2B.CH
Acq On : 3 Feb 2015 20:10 Operator:
Sample : CCVD0203B-2 Inst : Daryl
Misc : V2-36-23,V2-37-04 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 20:38 2015 Quant Results File: 141012MB.RES

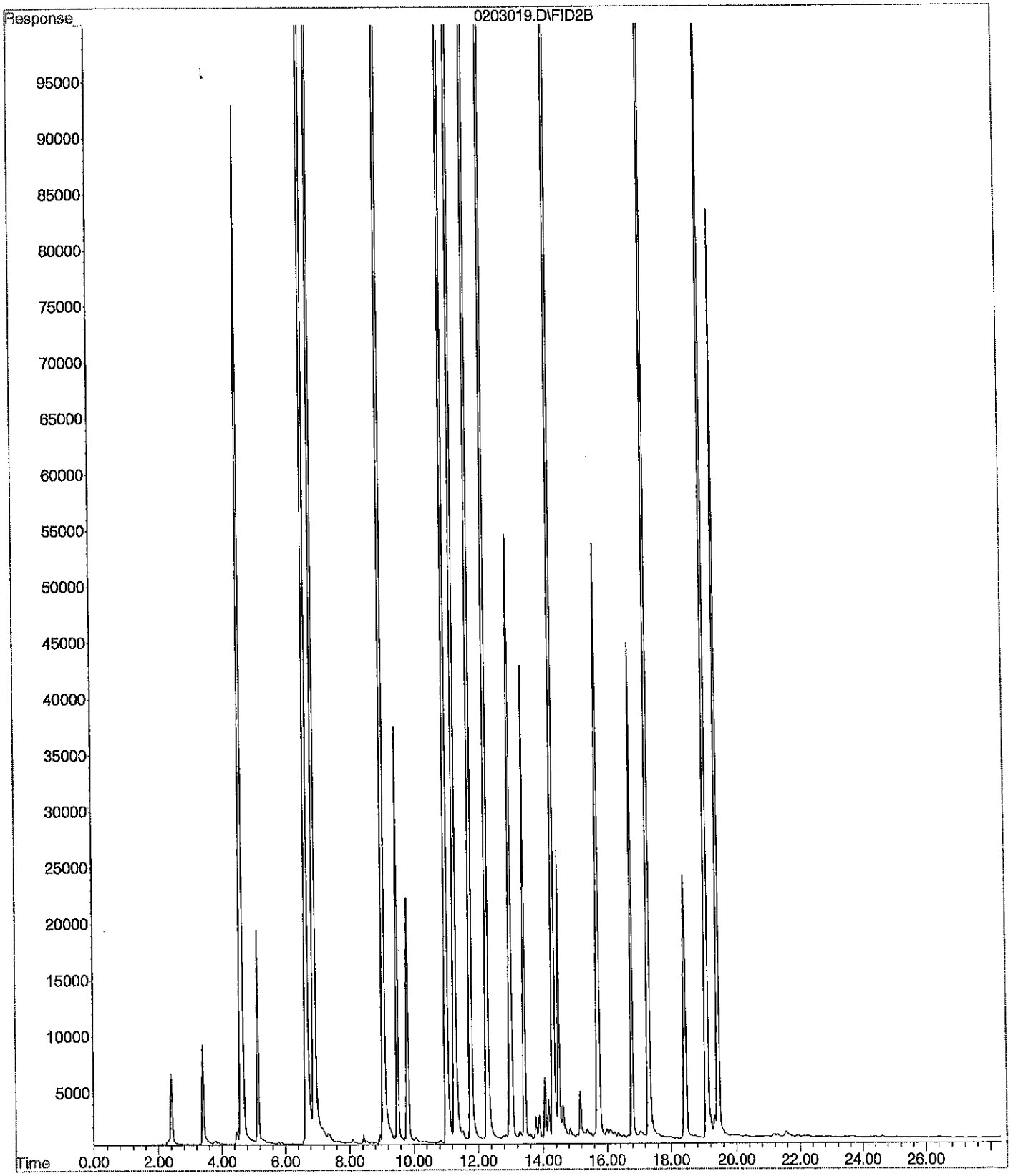
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
4)	S	FLUOROBENZENE	6.92	3208687	46.285 PPB
5)	S	BROMOFLUOROBENZENE	12.28	1954538	48.255 PPB
12)	S	FLUOROBENZENE #2	6.92	8112485	36.554 PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	11558879	38.584 PPB
		Target Compounds			
1)	H	Gasoline AK GRO (9-24-14)	8.51	30445507	0.612 PPM
2)	H	Entire GAS Envelope (9-24-	12.21	50799511	0.767 PPM
3)	H	GASOLINE (9-24-14)	13.51	34315663	0.847 PPM
7)	H	entire GAS envelope #2 (9-	12.26	113287312	0.740 PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	84163981	0.989 PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	82749018	0.695 PPM
10)		MTBE #2	4.63	4363765	59.712 PPB
11)		BENZENE #2	6.68	13956173	47.512 PPB
13)		TOLUENE #2	9.06	13074687	46.870 PPB
14)		ETHYLBENZENE #2	11.03	11449883	46.508 PPB
15)		m,p-XYLENE #2	11.29	13799023	47.025 PPB
16)		o-XYLENE #2	11.78	11710519	46.537 PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203019.D
Operator :
Acquired : 3 Feb 2015 20:10 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203B-2
Misc Info : V2-36-23,V2-37-04
Vial Number: 19



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203001.D\FID1A.CH Vial: 1
Signal #2 : d:\btex\DATA\D150203\0203001.D\FID2B.CH
Acq On : 3 Feb 2015 9:53 Operator:
Sample : CCVD0203G-1 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 3 10:21 2015 Quant Results File: 141012MB.RES

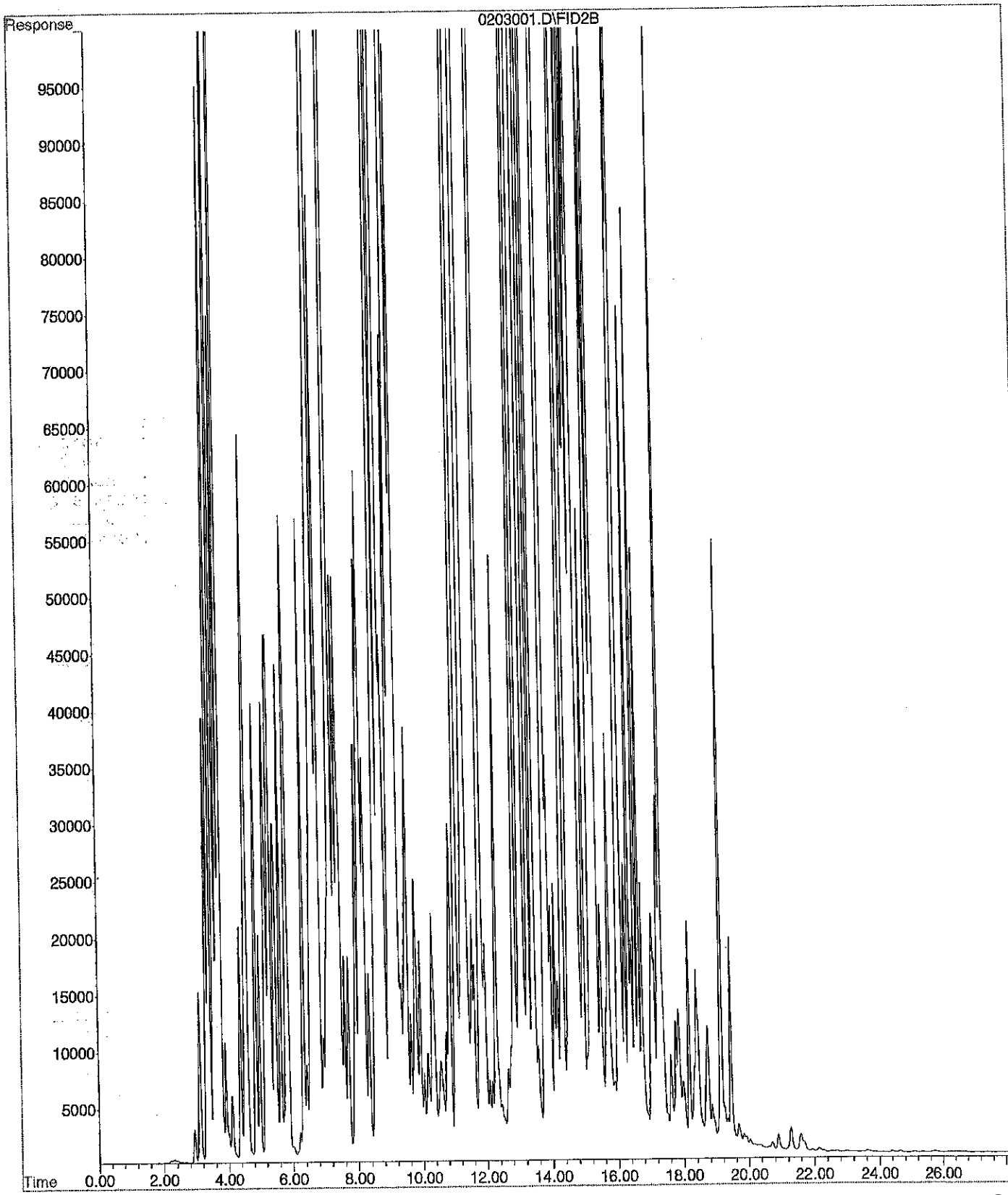
Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	0.00	0	N.D.	PPB
5)	S	BROMOFLUOROBENZENE	12.28	1304445	32.014	PPB
12)	S	FLUOROBENZENE #2	6.96	473097	1.820	PPB
17)	S	BROMOFLUOROBENZENE #2	12.28	2385413	7.596	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	288910528	5.862	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	385398316	5.892	PPM
3)	H	GASOLINE (9-24-14)	13.51	217929005	5.492	PPM
7)	H	entire GAS envelope #2 (9-	12.26	655475362	4.517	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	498490838	6.031	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	496485696	4.466	PPM
10)		MTBE #2	4.57	3481189	47.626	PPB
11)		BENZENE #2	6.69	43803886	149.220	PPB
13)		TOLUENE #2	9.08	111209892	399.995	PPB
14)		ETHYLBENZENE #2	11.04	27703134	112.693	PPB
15)		m,p-XYLENE #2	11.30	100223398	344.975	PPB
16)		o-XYLENE #2	11.80	38501023	153.611	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203001.D
Operator :
Acquired : 3 Feb 2015 9:53 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203G-1
Misc Info : V2-36-08
Vial Number: 1



Quantitation Report (Not Reviewed)

Signal #1 : d:\btex\DATA\D150203\0203037.D\FID1A.CH Vial: 37
Signal #2 : d:\btex\DATA\D150203\0203037.D\FID2B.CH
Acq On : 4 Feb 2015 6:08 Operator:
Sample : CCVD0203G-2 Inst : Daryl
Misc : V2-36-08 Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Feb 4 6:36 2015 Quant Results File: 141012MB.RES

Quant Method : D:\BTEX\methods\141012MB.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Sat Jan 31 13:36:26 2015
Response via : Initial Calibration
DataAcq Meth : 141012MB.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
4)	S	FLUOROBENZENE	7.03	1498004	21.432	PPB
5)	S	BROMOFLUOROBENZENE	12.26	1139294	27.889	PPB
12)	S	FLUOROBENZENE #2	6.93	453454	1.731	PPB
17)	S	BROMOFLUOROBENZENE #2	12.26	2284344	7.255	PPB
		Target Compounds				
1)	H	Gasoline AK GRO (9-24-14)	8.51	272069118	5.520	PPM
2)	H	Entire GAS Envelope (9-24-	12.21	356331856	5.447	PPM
3)	H	GASOLINE (9-24-14)	13.51	204534504	5.153	PPM
7)	H	entire GAS envelope #2 (9-	12.26	635434783	4.377	PPM
8)	H	Mineral Spirits #2 (1-30-1	14.00	483446714	5.848	PPM
9)	H	GASOLINE #2 (9-24-14)	13.56	481852939	4.333	PPM
10)		MTBE #2	0.00	0	N.D.	PPB
11)		BENZENE #2	6.67	42579431	145.047	PPB
13)		TOLUENE #2	9.06	111720494	401.833	PPB
14)		ETHYLBENZENE #2	11.03	27159971	110.482	PPB
15)		m,p-XYLENE #2	11.28	100255075	345.085	PPB
16)		o-XYLENE #2	11.78	38183180	152.340	PPB

(f)=RT Delta > 1/2 Window (m)=manual int.

File : X:\BTEX\DARYL\DATA\D150203\0203037.D
Operator :
Acquired : 4 Feb 2015 6:08 using AcqMethod 141012MB.M
Instrument : Daryl
Sample Name: CCVD0203G-2
Misc Info : V2-36-08
Vial Number: 37