AMEC

PALOMAR STREET
(NB1016075P)

H&P PROJECT # AEE111513-11

TO-15 LEVEL IV DATA PACKAGE

TPH ANALYTICAL DATA

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : BLANK3-50cc.D
Acq On : 19 Nov 2013 6:25 pm
Operator : slc
Misc :
ALS Vial : 9 Sample Multiplier: 5

Quant Time: Apr 11 12:23:44 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : EK31912-BLK1 Inst : GCMS#12

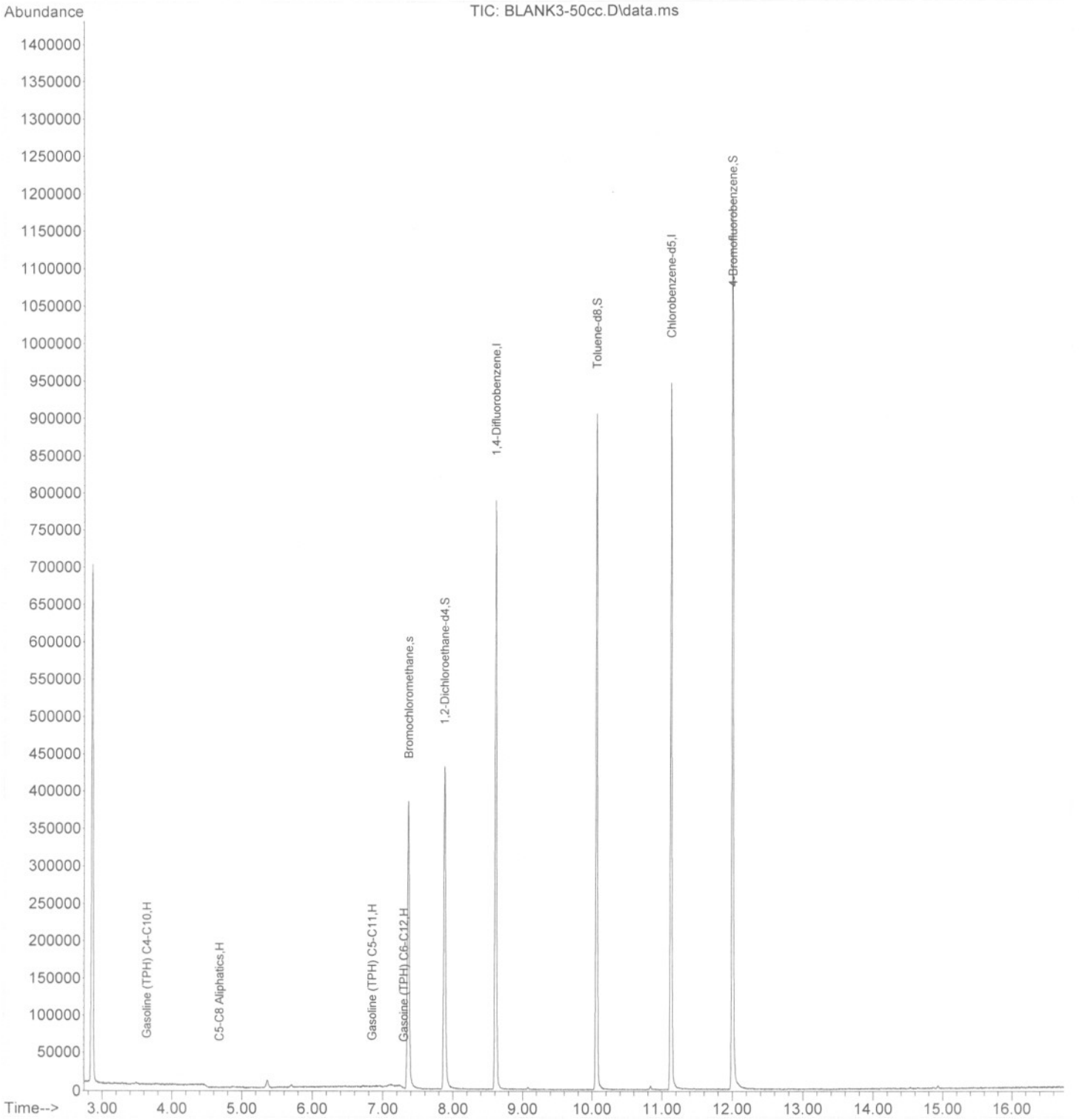
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.612	114	445611	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.128	82	226591	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.366	130	118934	47.62	ppbV	-0.08
Spiked Amount 50.000			Recovery =	95.24%		
10) 1,2-Dichloroethane-d4	7.879	65	206238	55.25	ppbV	-0.09
Spiked Amount 50.000			Recovery =	110.50%		
11) Toluene-d8	10.062	98	395891	58.82	ppbV	-0.09
Spiked Amount 50.000			Recovery =	117.64%		
12) Siloxane	10.838	TIC	6864	0.00	ppbV	-0.02
14) 4-Bromofluorobenzene	12.001	95	289828	52.05	ug/m3	-0.10
Spiked Amount 50.000			Recovery =	104.10%		
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	308104m	13.965	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	52416m	1.563	ppbV	
4) C9 Aromatics 120	12.057	120	114	N.D.		
5) C10 Aromatics 134	12.057	119	275	N.D.		
6) Gasoline (TPH) C4-C10	3.640	TIC	358889m	12.971	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	358889m	11.846	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	358889m	12.087	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : BLANK3-50cc.D
Acq On : 19 Nov 2013 6:25 pm
Operator : slc
Misc :
ALS Vial : 9 Sample Multiplier: 5

Quant Time: Apr 11 12:23:44 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : EK31912-BLK1 Inst : GCMS#12



Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14G-SV.D
Acq On : 20 Nov 2013 11:31 am
Operator : slc
Misc :
ALS Vial : 17 Sample Multiplier: 5

Quant Time: Apr 11 12:23:09 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : E311062-01 Inst : GCMS#12

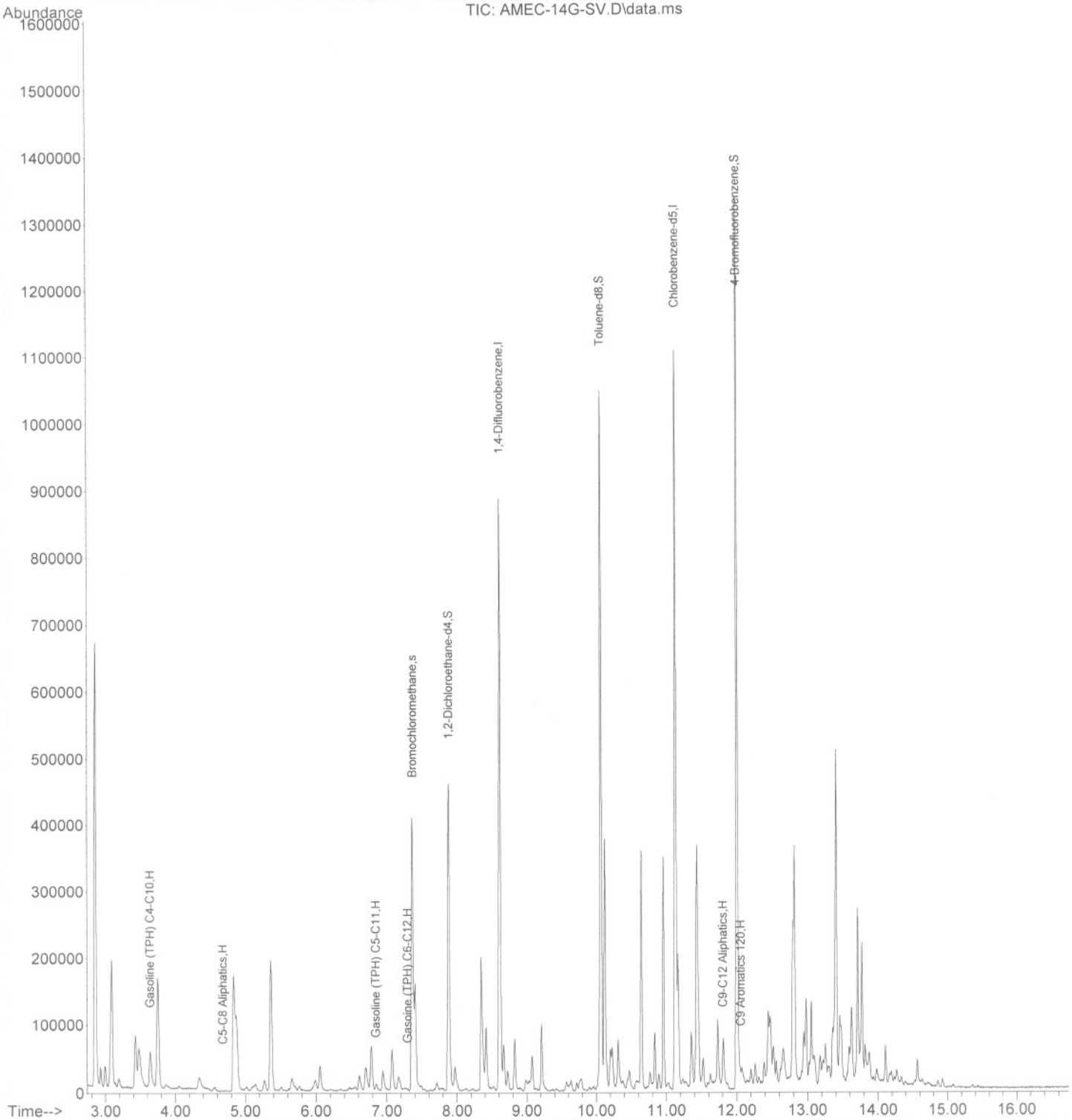
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.615	114	517828	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.131	82	280366	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.369	130	130072	44.82	ppbV	-0.08
Spiked Amount 50.000			Recovery = 89.64%			
10) 1,2-Dichloroethane-d4	7.885	65	221953	51.16	ppbV	-0.08
Spiked Amount 50.000			Recovery = 102.32%			
11) Toluene-d8	10.065	98	467051	59.72	ppbV	-0.08
Spiked Amount 50.000			Recovery = 119.44%			
12) Siloxane	10.838	TIC	116990	0.00	ppbV	-0.02
14) 4-Bromofluorobenzene	12.001	95	334664	48.57	ug/m3	-0.10
Spiked Amount 50.000			Recovery = 97.14%			
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	5917475m	230.804	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	3327792m	85.397	ppbV	
4) C9 Aromatics 120	12.057	120	79394m	12.204	ppbV	
5) C10 Aromatics 134	12.057	119	48891m	2.025	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	8755451m	272.317	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	8155361m	231.651	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	8115846m	235.207	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14G-SV.D
Acq On : 20 Nov 2013 11:31 am
Operator : slc
Misc :
ALS Vial : 17 Sample Multiplier: 5

Quant Time: Apr 11 12:23:09 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : E311062-01 Inst : GCMS#12



Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14B-SV.D
Acq On : 20 Nov 2013 12:05 pm
Operator : slc
Misc :
ALS Vial : 18 Sample Multiplier: 5

Quant Time: Apr 11 12:22:57 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : E311062-02 Inst : GCMS#12

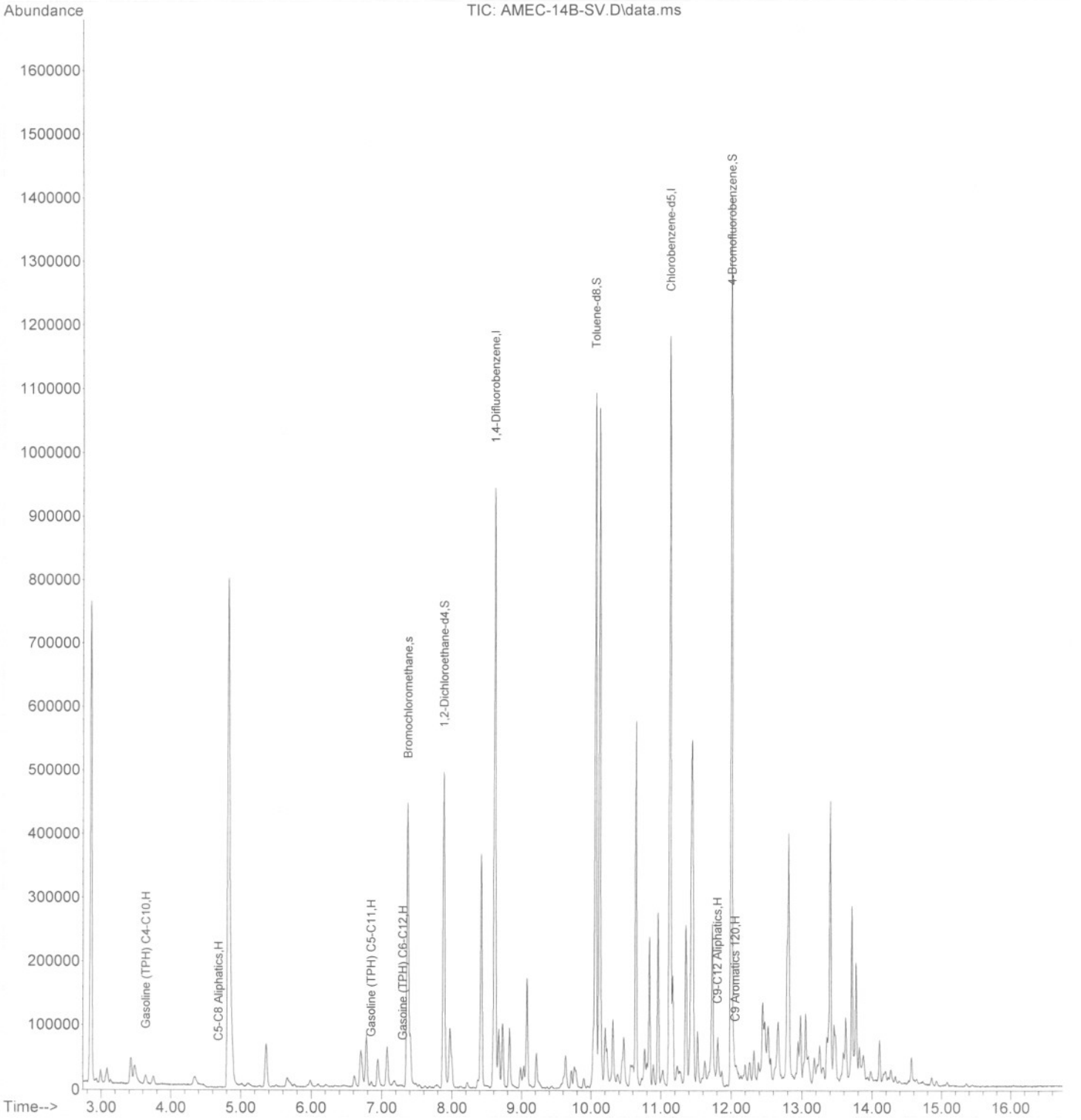
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.615	114	553072	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.131	82	301255	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.369	130	141077	45.51	ppbV	-0.08
Spiked Amount 50.000			Recovery = 91.02%			
10) 1,2-Dichloroethane-d4	7.885	65	244641	52.80	ppbV	-0.08
Spiked Amount 50.000			Recovery = 105.60%			
11) Toluene-d8	10.065	98	507289	60.73	ppbV	-0.08
Spiked Amount 50.000			Recovery = 121.46%			
12) Siloxane	10.838	TIC	325001	0.00	ppbV	-0.02
14) 4-Bromofluorobenzene	12.001	95	350180	47.30	ug/m3	-0.10
Spiked Amount 50.000			Recovery = 94.60%			
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	10617694m	387.740	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	3382885m	81.279	ppbV	
4) C9 Aromatics 120	12.057	120	80398m	11.571	ppbV	
5) C10 Aromatics 134	12.057	119	52013m	2.017	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	13140327m	382.654	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	11476630m	305.218	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	11368954m	308.489	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14B-SV.D
Acq On : 20 Nov 2013 12:05 pm
Operator : slc
Misc :
ALS Vial : 18 Sample Multiplier: 5

Quant Time: Apr 11 12:22:57 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : E311062-02 Inst : GCMS#12



Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3B-SV.D
Acq On : 20 Nov 2013 12:40 pm
Operator : slc
Misc :
ALS Vial : 19 Sample Multiplier: 5

Quant Time: Apr 11 12:31:02 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-03 Inst : GCMS#12

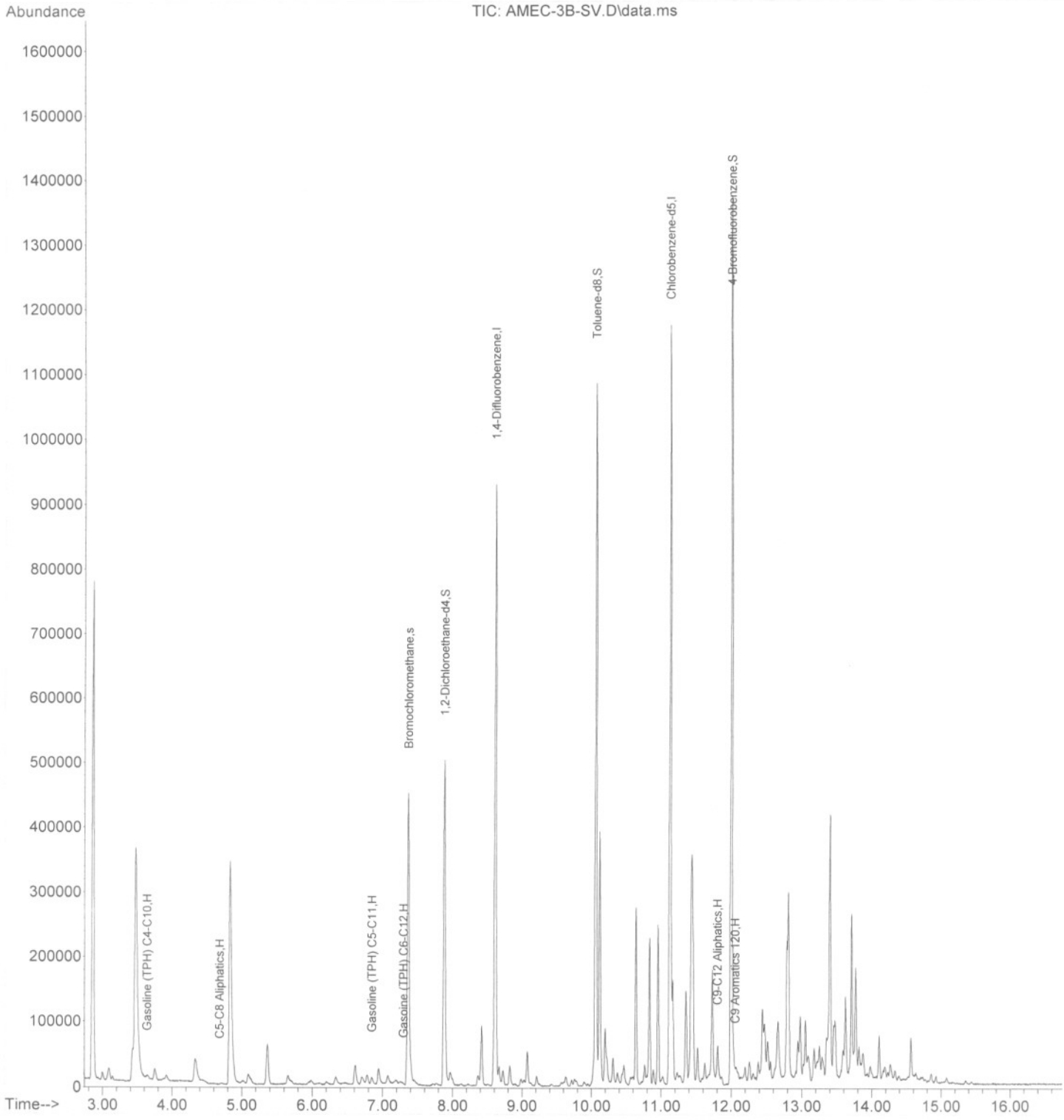
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.612	114	555516	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.125	82	295563	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.366	130	146578	47.08	ppbV	-0.08
Spiked Amount 50.000			Recovery =	94.16%		
10) 1,2-Dichloroethane-d4	7.882	65	250816	53.90	ppbV	-0.09
Spiked Amount 50.000			Recovery =	107.80%		
11) Toluene-d8	10.063	98	503258	59.98	ppbV	-0.09
Spiked Amount 50.000			Recovery =	119.96%		
12) Siloxane	10.835	TIC	312958	0.00	ppbV	-0.02
14) 4-Bromofluorobenzene	11.998	95	353431	48.66	ug/m3	-0.10
Spiked Amount 50.000			Recovery =	97.32%		
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	4698798m	170.837	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	3009659m	71.994	ppbV	
4) C9 Aromatics 120	12.057	120	74823m	10.721	ppbV	
5) C10 Aromatics 134	12.057	119	49834m	1.924	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	7064196m	204.808	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	6557151m	173.619	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	6722777m	181.616	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3B-SV.D
Acq On : 20 Nov 2013 12:40 pm
Operator : slc
Misc :
ALS Vial : 19 Sample Multiplier: 5

Quant Time: Apr 11 12:31:02 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-03 Inst : GCMS#12



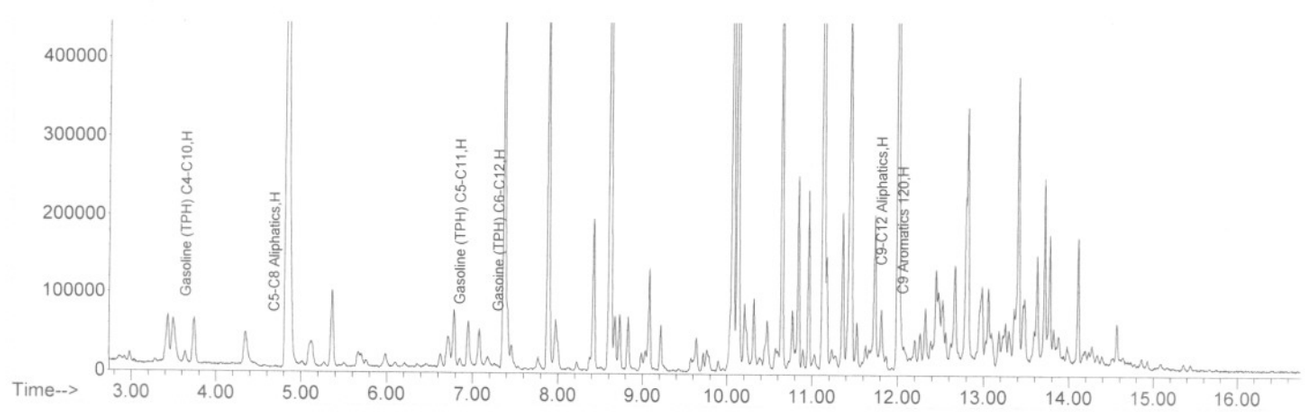
Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3G-SV.D
Acq On : 20 Nov 2013 1:16 pm
Operator : slc
Misc :
ALS Vial : 20 Sample Multiplier: 5

Quant Time: Apr 11 12:31:08 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-04 Inst : GCMS#12

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.618	114	570092	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.128	82	301797	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.372	130	150066	46.97	ppbV	-0.08
Spiked Amount 50.000			Recovery =	93.94%		
10) 1,2-Dichloroethane-d4	7.887	65	253554	53.09	ppbV	-0.08
Spiked Amount 50.000			Recovery =	106.18%		
11) Toluene-d8	10.063	98	486115	56.46	ppbV	-0.09
Spiked Amount 50.000			Recovery =	112.92%		
12) Siloxane	10.838	TIC	342098	0.00	ppbV	-0.02
14) 4-Bromofluorobenzene	12.001	95	353159	47.62	ug/m3	-0.10
Spiked Amount 50.000			Recovery =	95.24%		
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	10201374m	361.415	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	2963906m	69.087	ppbV	
4) C9 Aromatics 120	12.057	120	71598m	9.997	ppbV	
5) C10 Aromatics 134	12.057	119	61340m	2.308	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	12572383m	355.185	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	9979743m	257.485	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	9987936m	262.925	ppbV	

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



Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10L-SV.D
Acq On : 20 Nov 2013 2:14 pm
Operator : slc
Misc :
ALS Vial : 21 Sample Multiplier: 5

Quant Time: Apr 11 12:30:56 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-05 Inst : GCMS#12

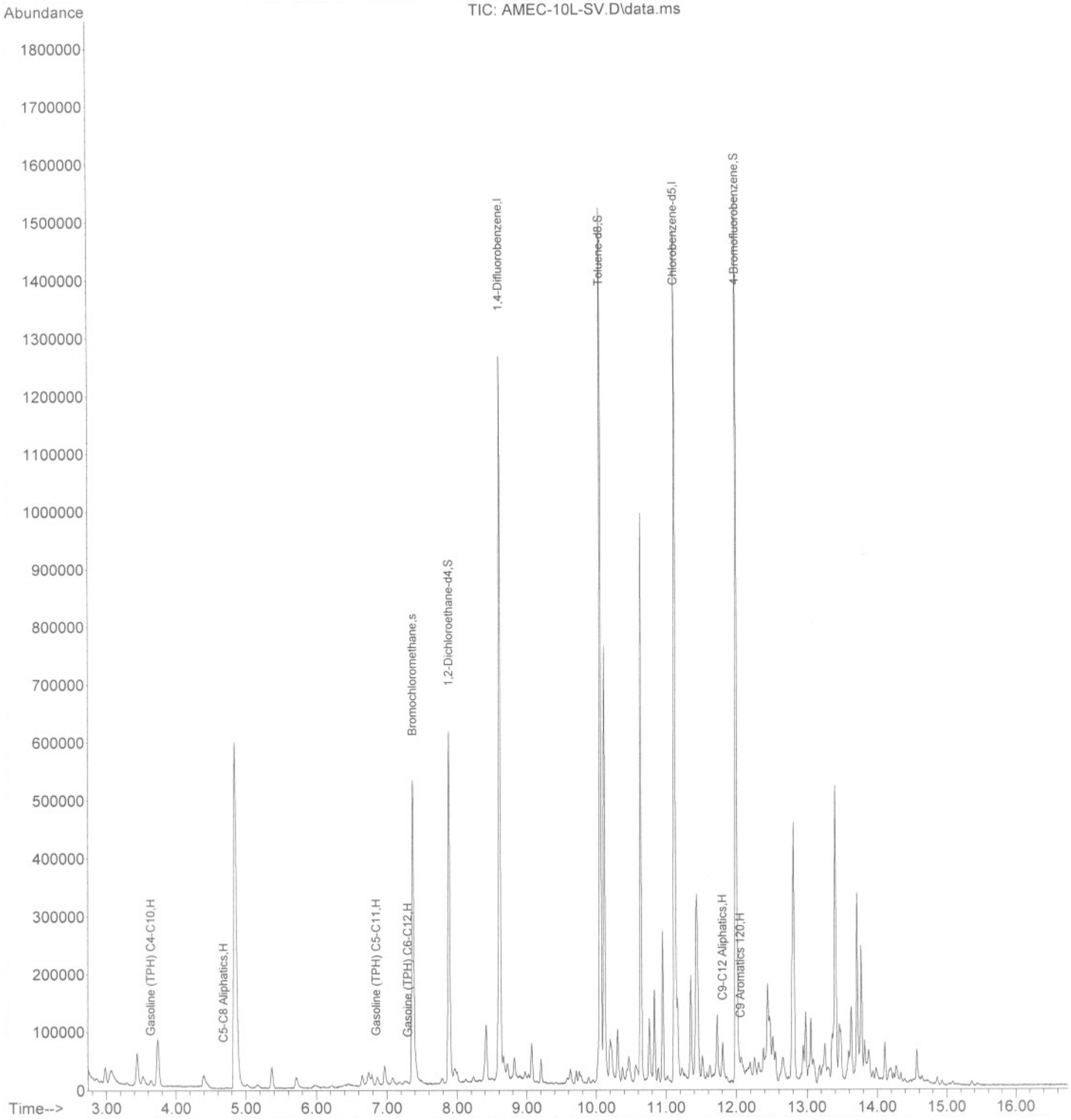
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.612	114	858891	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.125	82	371678	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.372	130	180740	37.55	ppbV	-0.08
Spiked Amount 50.000			Recovery =	75.10%		
10) 1,2-Dichloroethane-d4	7.887	65	315817	43.89	ppbV	-0.08
Spiked Amount 50.000			Recovery =	87.78%		
11) Toluene-d8	10.060	98	700910	54.03	ppbV	-0.09
Spiked Amount 50.000			Recovery =	108.06%		
12) Siloxane	10.835	TIC	221357	0.00	ppbV	-0.02
14) 4-Bromofluorobenzene	11.998	95	391568	42.87	ug/m3	-0.10
Spiked Amount 50.000			Recovery =	85.74%		
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	7264401m	170.826	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	3799832m	58.790	ppbV	
4) C9 Aromatics 120	12.057	120	81235m	7.528	ppbV	
5) C10 Aromatics 134	12.057	119	60486m	1.511	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	10244976m	192.112	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	9333299m	159.836	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	9509748m	166.162	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10L-SV.D
Acq On : 20 Nov 2013 2:14 pm
Operator : slc
Misc :
ALS Vial : 21 Sample Multiplier: 5

Quant Time: Apr 11 12:30:56 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-05 Inst : GCMS#12



Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV.D
Acq On : 20 Nov 2013 2:53 pm
Operator : slc
Misc :
ALS Vial : 22 Sample Multiplier: 5

Quant Time: Apr 11 12:22:43 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : E311062-06 Inst : GCMS#12

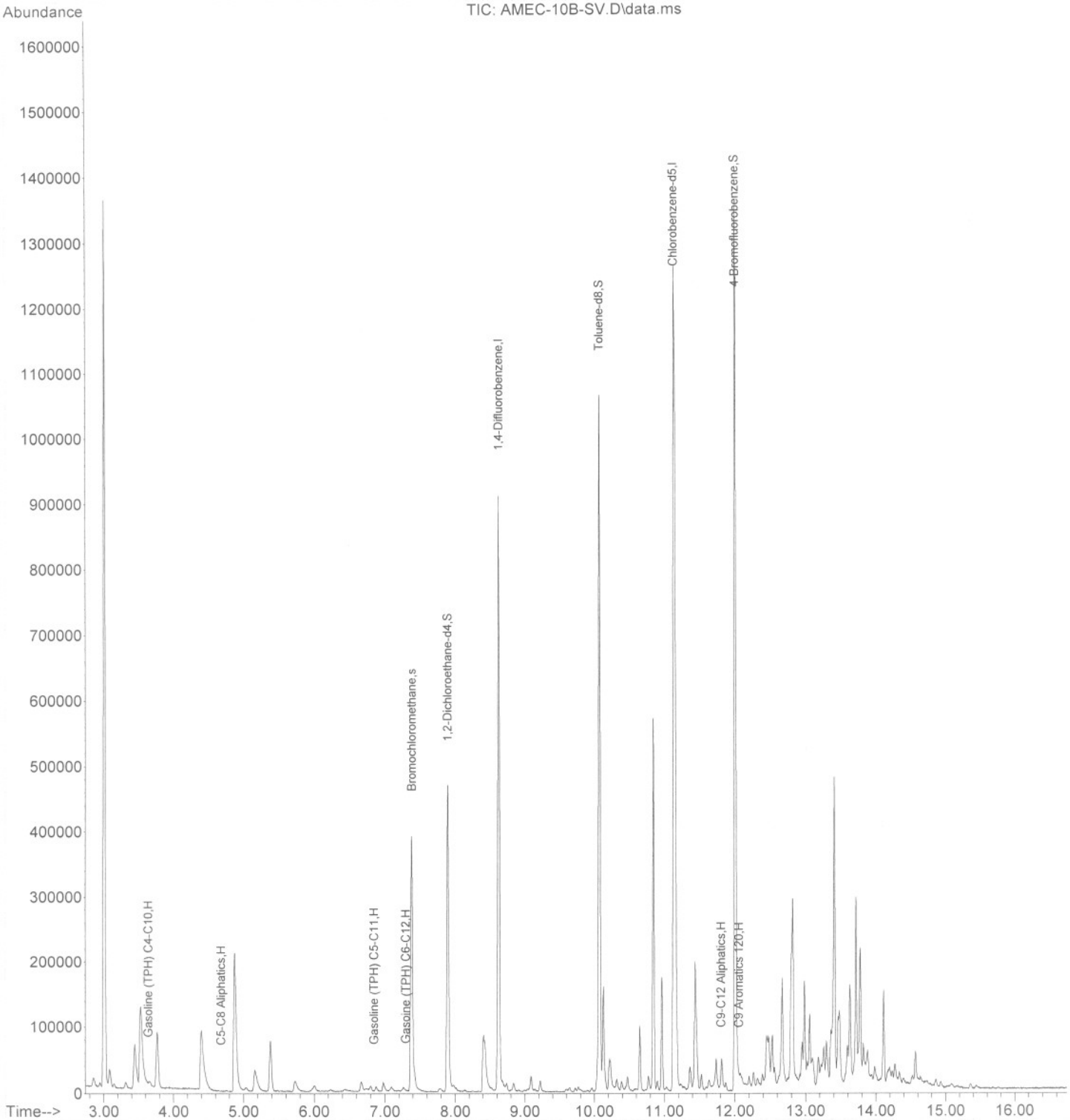
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.626	114	552398	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.133	82	287995	50.00	ppbV	#-0.09
System Monitoring Compounds						
9) Bromochloromethane	7.383	130	125109	40.41	ppbV	-0.07
Spiked Amount 50.000			Recovery =	80.82%		
10) 1,2-Dichloroethane-d4	7.896	65	247674	53.52	ppbV	-0.07
Spiked Amount 50.000			Recovery =	107.04%		
11) Toluene-d8	10.071	98	454700	54.50	ppbV	-0.08
Spiked Amount 50.000			Recovery =	109.00%		
12) Siloxane	10.846	TIC	733446	0.00	ppbV	0.00
14) 4-Bromofluorobenzene	12.003	95	343062	48.47	ug/m3	-0.10
Spiked Amount 50.000			Recovery =	96.94%		
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	3834066m	140.184	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	3510412m	84.446	ppbV	
4) C9 Aromatics 120	12.057	120	63798m	9.193	ppbV	
5) C10 Aromatics 134	12.057	119	50706m	1.969	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	6462980m	188.435	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	5949727m	158.425	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	6140592m	166.824	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV.D
Acq On : 20 Nov 2013 2:53 pm
Operator : slc
Misc :
ALS Vial : 22 Sample Multiplier: 5

Quant Time: Apr 11 12:22:43 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Wed Aug 21 17:18:06 2013
Sample : E311062-06 Inst : GCMS#12



Quantitation Report (Not Reviewed)

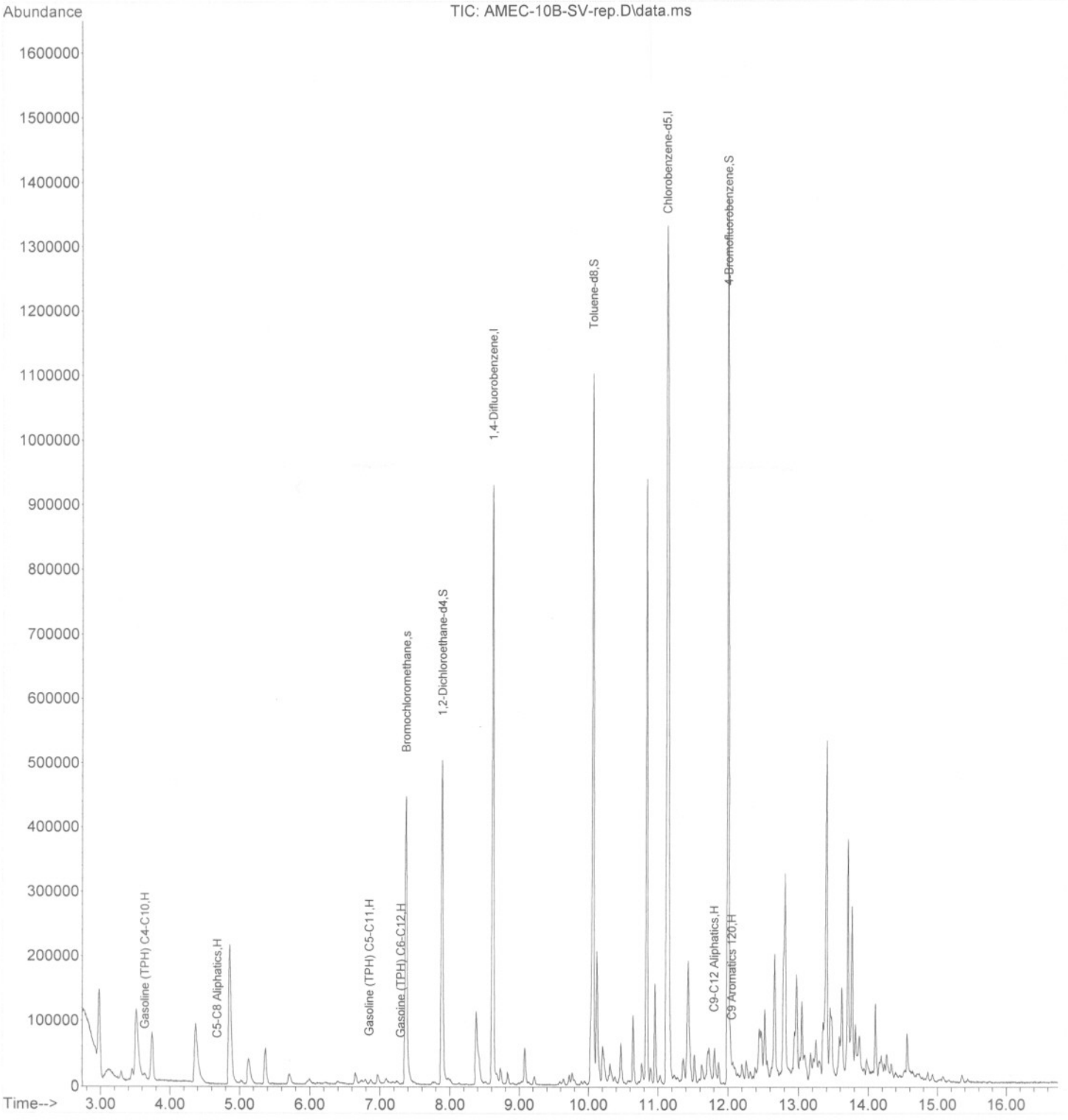
Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV-rep.D
Acq On : 20 Nov 2013 3:29 pm
Operator : slc
Misc :
ALS Vial : 23 Sample Multiplier: 5

Quant Time: Apr 11 12:30:50 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-07 Inst : GCMS#12

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.621	114	568119	50.00	ppbV	0.00
13) Chlorobenzene-d5	11.131	82	299966	50.00	ppbV	#-0.10
System Monitoring Compounds						
9) Bromochloromethane	7.374	130	148341	46.59	ppbV	-0.07
Spiked Amount 50.000			Recovery = 93.18%			
10) 1,2-Dichloroethane-d4	7.890	65	258899	54.40	ppbV	-0.08
Spiked Amount 50.000			Recovery = 108.80%			
11) Toluene-d8	10.068	98	480924	56.05	ppbV	-0.08
Spiked Amount 50.000			Recovery = 112.10%			
12) Siloxane	10.841	TIC	1232431	0.00	ppbV	-0.01
14) 4-Bromofluorobenzene	12.003	95	353730	47.99	ug/m3	-0.10
Spiked Amount 50.000			Recovery = 95.98%			
Target Compounds						Qvalue
2) C5-C8 Aliphatics	4.682	TIC	4080044m	145.050	ppbV	
3) C9-C12 Aliphatics	11.802	TIC	4102833m	95.966	ppbV	
4) C9 Aromatics 120	12.057	120	60156m	8.428	ppbV	
5) C10 Aromatics 134	12.057	119	47175m	1.781	ppbV	
6) Gasoline (TPH) C4-C10	3.640	TIC	6995981m	198.331	ppbV	
7) Gasoline (TPH) C5-C11	6.850	TIC	6831346m	176.866	ppbV	
8) Gasoine (TPH) C6-C12	7.300	TIC	6985041m	184.515	ppbV	

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

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV-rep.D
Acq On : 20 Nov 2013 3:29 pm
Operator : slc
Misc :
ALS Vial : 23 Sample Multiplier: 5

Quant Time: Apr 11 12:30:50 2014
Quant Method : C:\msdchem\1\METHODS\082113TPH-ppbV250cc.M
Quant Title : EPA TO-15 for TPH GC/MS#12
QLast Update : Thu Sep 05 10:52:13 2013
Sample : E311062-07 Inst : GCMS#12