Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_022.D
Acq On : 29 Jun 2017 5:33 pm
Operator : AH
Sample : NE39189 ORG
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 24 10:57:29 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

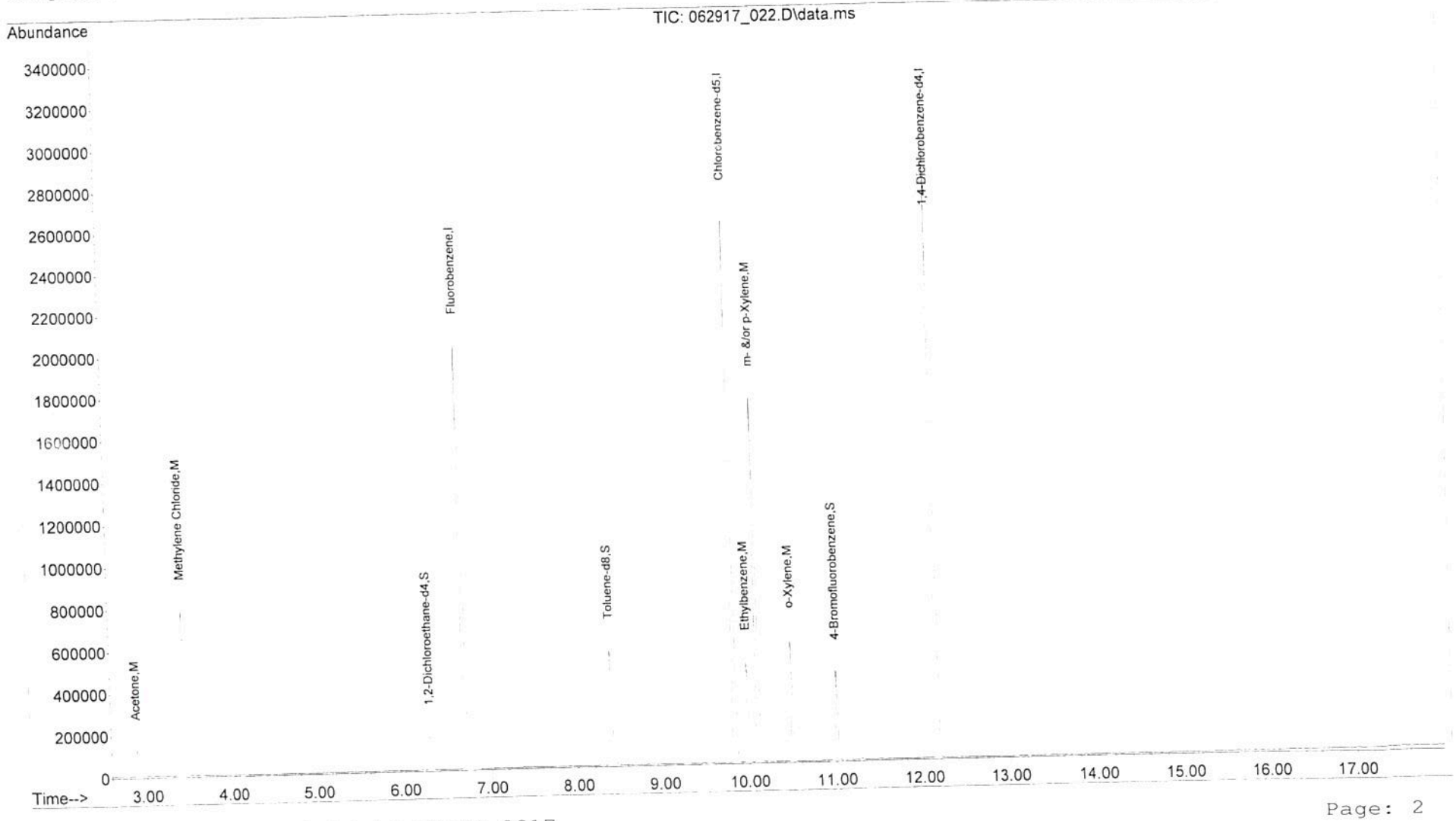
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1863837	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1393570	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	733051	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	108016	50.24 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 100.48%	
25) Toluene-d8	8.40	98	345618	49.00 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 98.00%	
41) 4-Bromofluorobenzene	11.01	174	113957	49.02 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 98.04%	
Target Compounds					Qvalue
4) Acetone	2.89	58	47770	160.99 ng	92
6) Methylene Chloride	3.44	84	395884	191.71 ng	89
34) Ethylbenzene	9.99	91	328942	34.60 ng	98
35) m- &/or p-Xylene	10.11	106	472941	129.06 ng	95
36) o-Xylene	10.50	106	148919	41.13 ng	98

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

AMH VP1262 07/24/2017

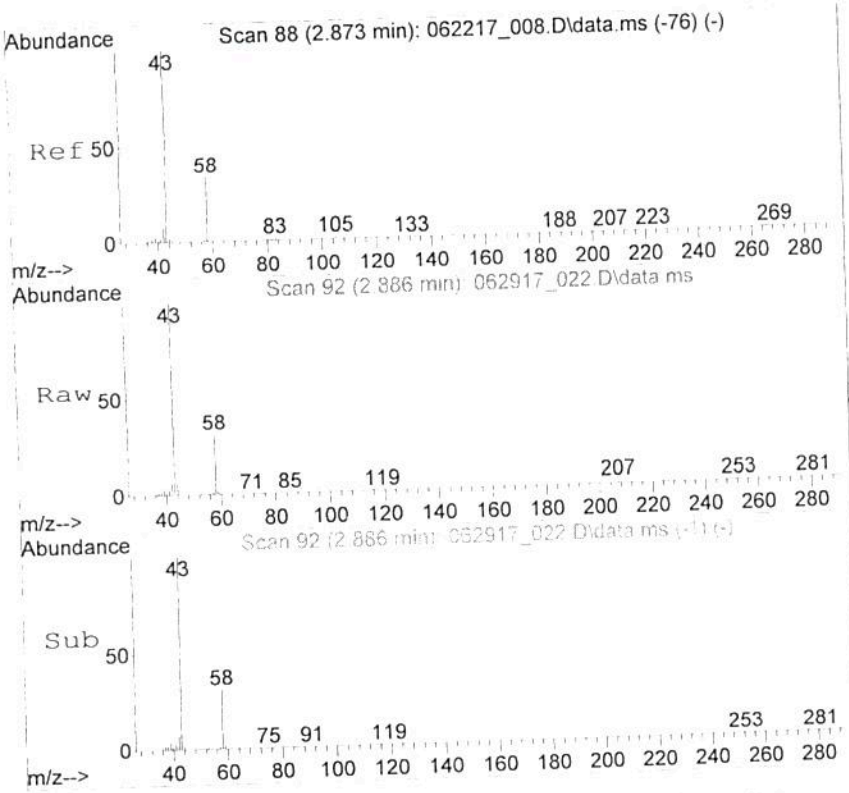
Data Path : D:\Data\Angie\VP1262\
Data File : 062917_022.D
Acq On : 29 Jun 2017 5:33 pm
Operator : AH
Sample : NE39189 ORG
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 24 10:57:29 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Mon Jul 24 10:58:26 2017

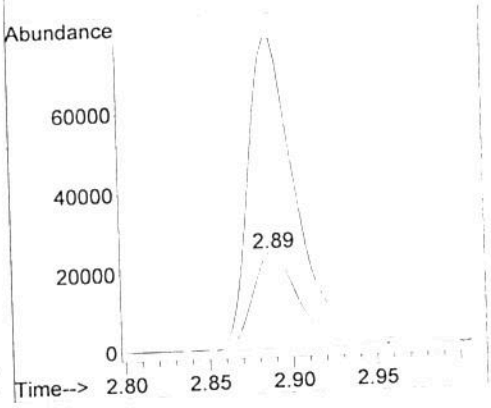
AIH UP1262 07/24/2017

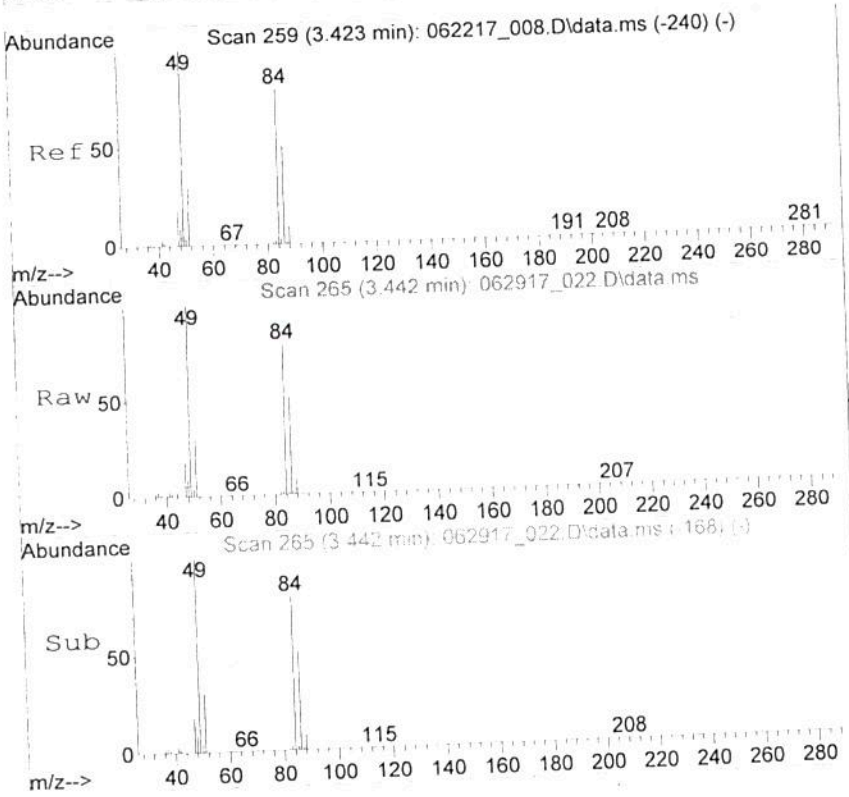


#4
Acetone
Concen: 160.99 ng
RT: 2.89 min Scan# 92
Delta R.T. -0.016 min
Lab File: 062917_022.D
Acq: 29 Jun 2017 5:33 pm

Tgt Ion: 58 Resp: 47770

Ion	Ratio	Lower	Upper
58	100		
43	330.2	277.1	415.7

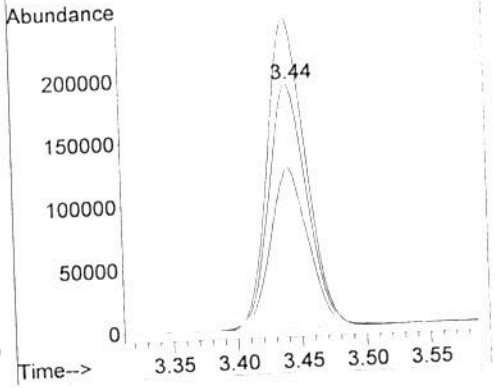


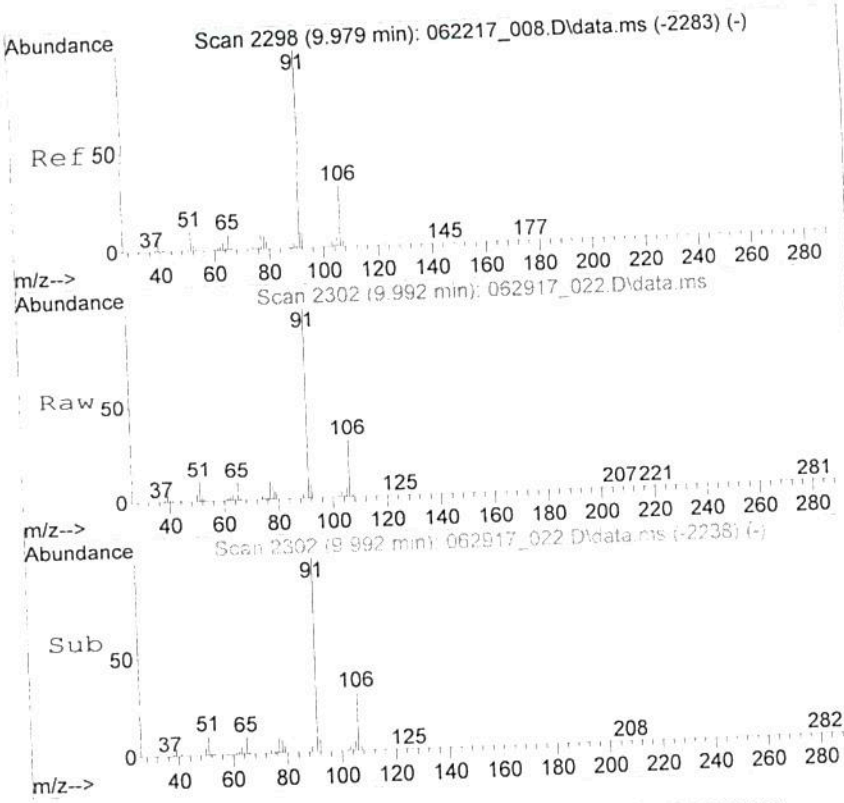


#6
Methylene Chloride
Concen: 191.71 ng
RT: 3.44 min Scan# 265
Delta R.T. -0.003 min
Lab File: 062917_022.D
Acq: 29 Jun 2017 5:33 pm

Tgt Ion: 84 Resp: 395884

Ion	Ratio	Lower	Upper
84	100		
86	65.0	50.7	76.1
49	128.2	117.4	176.0

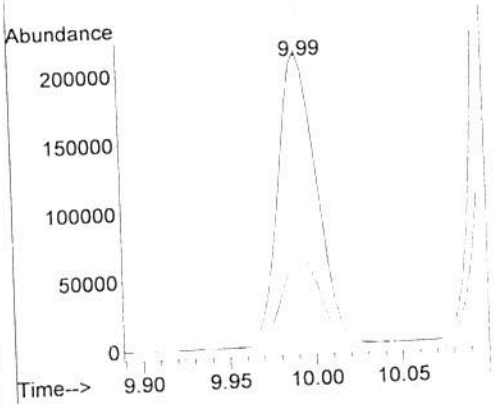


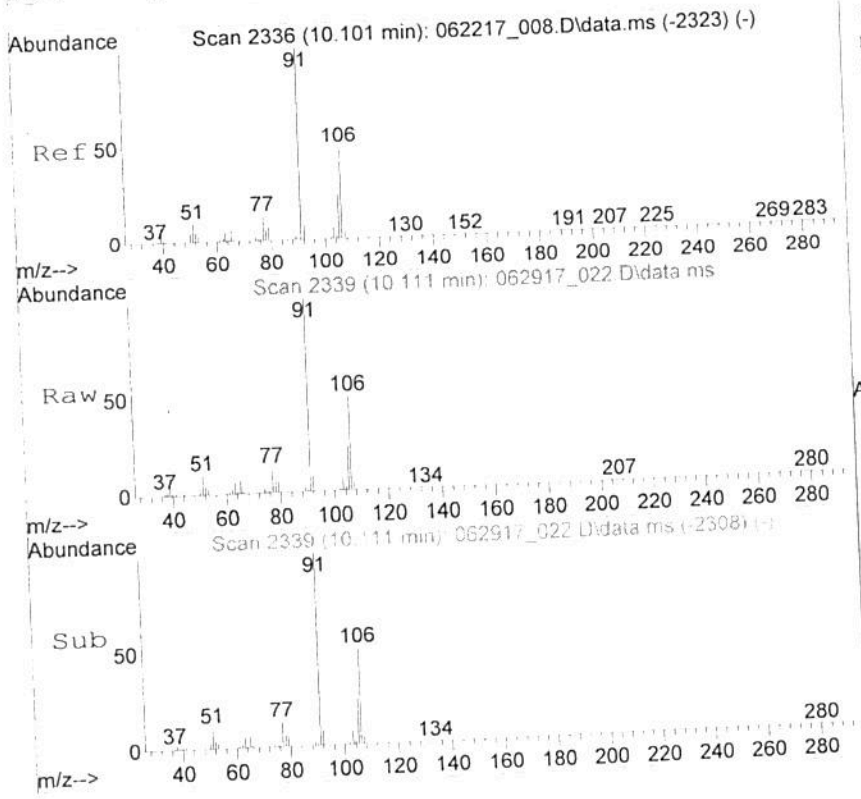


#34
Ethylbenzene
Concen: 34.60 ng
RT: 9.99 min Scan# 2302
Delta R.T. -0.003 min
Lab File: 062917_022.D
Acq: 29 Jun 2017 5:33 pm

Tgt Ion: 91 Resp: 328942

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.4	35.0

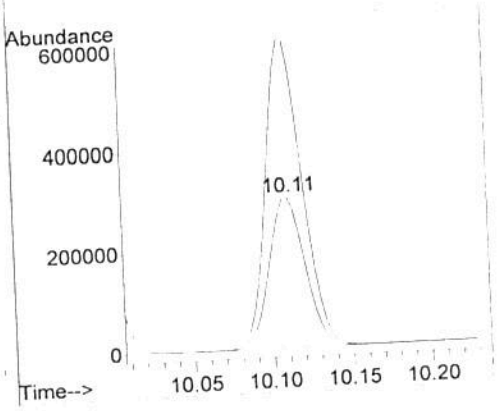




#35
m- &/or p-Xylene
Concen: 129.06 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_022.D
Acq: 29 Jun 2017 5:33 pm

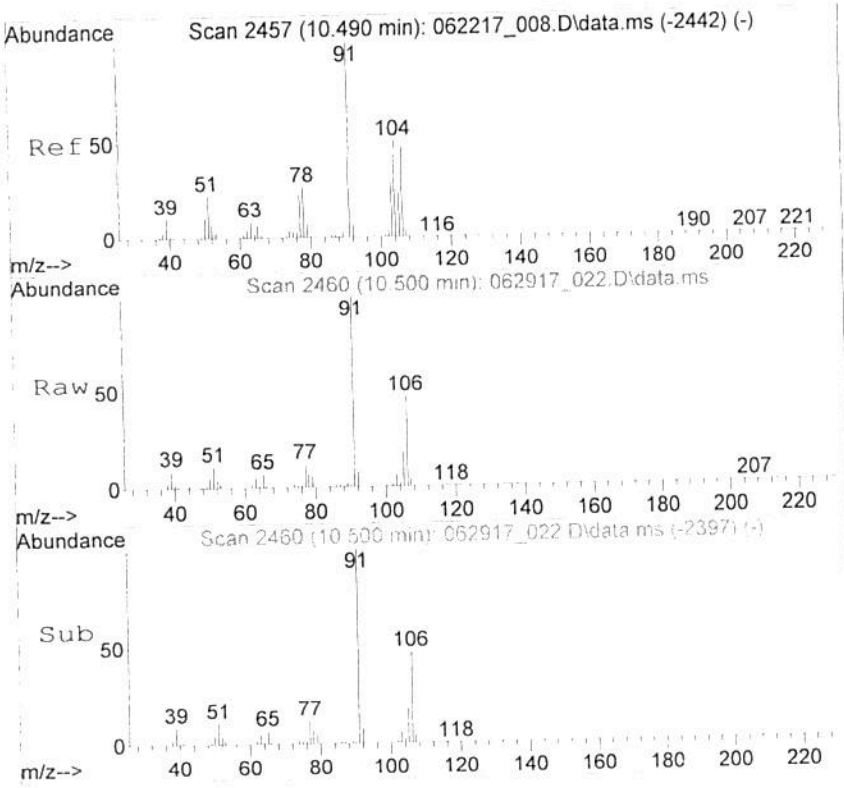
Tgt Ion:106 Resp: 472941

Ion	Ratio	Lower	Upper
106	100		
91	205.6	170.2	255.2



062917_022.D VOA_June2017.M Mon Jul 24 10:58:28 2017

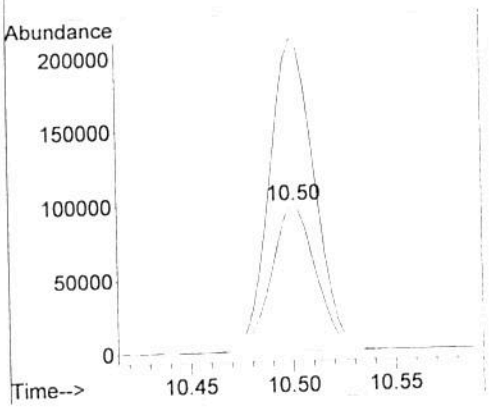
AMH UP1262 07/24/2017



#36
o-Xylene
Concen: 41.13 ng
RT: 10.50 min Scan# 2460
Delta R.T. -0.006 min
Lab File: 062917_022.D
Acq: 29 Jun 2017 5:33 pm

Tgt Ion:106 Resp: 148919

Ion	Ratio	Lower	Upper
106	100		
91	215.5	175.1	262.7



AMH UP1282 07/24/2017

D:\Data\Angie\VP1262\062917_023.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 17:57	uL purged =	10.00
Data File Name:	**062917_023.D**		
Sample Name:	NE39189 DUP		

		Total Volume (mL) =	50.0
mL of Sample in 50 mL water=	**0.100**	**Total Purge Vol (mL)=**	**5.000**

	COMPOUND	Amount	Concentration	Limit of Quantitation	
		ng	mg/L	ng	mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	0.50000
3	1,1-Dichloroethene	0.00	ND	5	0.50000
4	Acetone	142.86	14.286	10	1.00000
5	Carbon disulfide	0.00	ND	5	0.50000
6	Methylene Chloride	185.72	18.572	5	0.50000
7	trans-1,2-Dichloroethene	0.00	ND	5	0.50000
8	Hexane	0.00	ND	5	0.50000
9	1,1-Dichloroethane	0.00	ND	5	0.50000
10	cis-1,2-Dichloroethene	0.00	ND	5	0.50000
11	2-Butanone	0.00	ND	5	0.50000
12	Chloroform	0.00	ND	5	0.50000
13	Tetrahydrofuran	0.00	ND	5	0.50000
14	1,1,1-Trichloroethane	0.00	ND	5	0.50000
15	Carbon tetrachloride	0.00	ND	5	0.50000
17	Benzene	0.00	ND	5	0.50000
18	1,2-Dichloroethane	0.00	ND	5	0.50000
19	Trichloroethene	0.00	ND	5	0.50000
20	1,2-Dichloropropane	0.00	ND	5	0.50000
21	Bromodichloromethane	0.00	ND	5	0.50000
23	cis-1,3-Dichloropropene	0.00	ND	5	0.50000
24	4-Methyl-2-pentanone	1.47	ND	5	0.50000
26	Toluene	0.49	ND	5	0.50000
27	trans-1,3-Dichloropropene	0.00	ND	5	0.50000
28	1,1,2-Trichloroethane	0.00	ND	5	0.50000
29	Tetrachloroethene	0.00	ND	5	0.50000
30	2-Hexanone	0.00	ND	5	0.50000
31	Dibromochloromethane	0.00	ND	5	0.50000
32	1,2-Dibromoethane	0.00	ND	5	0.50000
33	Chlorobenzene	0.00	ND	5	0.50000
34	Ethylbenzene	24.61	2.461	5	0.50000
35	m- &/or p-Xylene	91.92	9.192	5	0.50000
36	o-Xylene	30.87	3.087	5	0.50000
37	Styrene	3.94	ND	5	0.50000
38	Bromoform	0.00	ND	5	0.50000
39	1,4-Dichlorobenzene-d4	250.00	25.000	5	0.50000
41	4-Bromofluorobenzene	52.16	5.216	5	0.50000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	0.50000
43	n-Propylbenzene	0.00	ND	5	0.50000
44	1,3,5-Trimethylbenzene	0.00	ND	5	0.50000
45	1,2,4-Trimethylbenzene	0.00	ND	5	0.50000
46	Isobutylbenzene	1.64	ND	5	0.50000
47	1,3-Dichlorobenzene	0.00	ND	5	0.50000
48	1,4-Dichlorobenzene	0.00	ND	5	0.50000
49	1,2-Dichlorobenzene	0.00	ND	5	0.50000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	0.50000
51	1,2,4-Trichlorobenzene	0.00	ND	5	0.50000
52	Hexachlorobutadiene	0.00	ND	5	0.50000
53	Naphthalene	3.34	ND	5	0.50000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:00 AM

AMH VP1262 07/[illegible]/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_023.D
Acq On : 29 Jun 2017 5:57 pm
Operator : AH
Sample : NE39189 DUP
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 24 10:59:17 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1954645	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1457233	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	753101	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	110314	48.92 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 97.84%	
25) Toluene-d8	8.40	98	365210	49.52 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 99.04%	
41) 4-Bromofluorobenzene	11.01	174	124552	52.16 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 104.32%	
					Qvalue
Target Compounds					
4) Acetone	2.89	58	44147	142.86 ng	97
6) Methylene Chloride	3.44	84	402205	185.72 ng	90
34) Ethylbenzene	9.99	91	244624	24.61 ng	97
35) m- &/or p-Xylene	10.11	106	350693	91.92 ng	94
36) o-Xylene	10.50	106	116880	30.87 ng	99

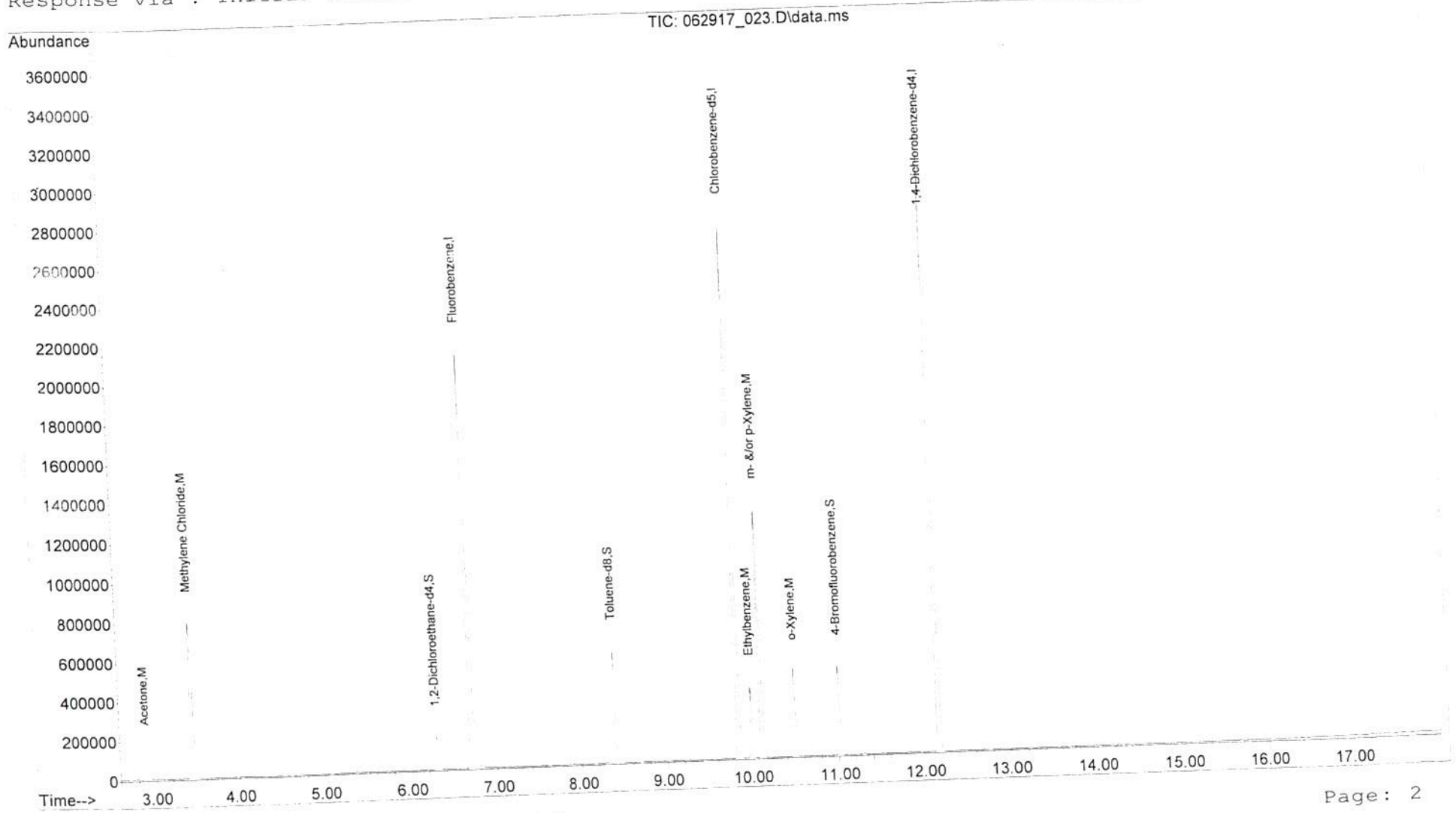
(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOA_June2017.M Mon Jul 24 11:02:24 2017

AMH VP1262 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_023.D
Acq On : 29 Jun 2017 5:57 pm
Operator : AH
Sample : NE39189 DUP
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 24 10:59:17 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



MIN UPDATED 07/24/2017

D:\Data\Angie\VP1262\062917_024.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 18:22	uL purged =	10.00
Data File Name:	**062917_024.D**		
Sample Name:	NE39189 TRIP		
		Total Volume (mL) =	**50.0**
mL of Sample in 50 mL water=	**0.100**	**Total Purge Vol (mL)=**	**5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	0.50000
3	1,1-Dichloroethene	0.00	ND	5	0.50000
4	Acetone	150.55	15.055	10	1.00000
5	Carbon disulfide	0.00	ND	5	0.50000
6	Methylene Chloride	186.84	18.684	5	0.50000
7	trans-1,2-Dichloroethene	0.00	ND	5	0.50000
8	Hexane	0.00	ND	5	0.50000
9	1,1-Dichloroethane	0.00	ND	5	0.50000
10	cis-1,2-Dichloroethene	0.00	ND	5	0.50000
11	2-Butanone	0.00	ND	5	0.50000
12	Chloroform	0.00	ND	5	0.50000
13	Tetrahydrofuran	0.00	ND	5	0.50000
14	1,1,1-Trichloroethane	0.00	ND	5	0.50000
15	Carbon tetrachloride	0.00	ND	5	0.50000
17	Benzene	0.00	ND	5	0.50000
18	1,2-Dichloroethane	0.00	ND	5	0.50000
19	Trichloroethene	0.00	ND	5	0.50000
20	1,2-Dichloropropane	0.00	ND	5	0.50000
21	Bromodichloromethane	0.00	ND	5	0.50000
23	cis-1,3-Dichloropropene	0.00	ND	5	0.50000
24	4-Methyl-2-pentanone	2.05	ND	5	0.50000
26	Toluene	0.61	ND	5	0.50000
27	trans-1,3-Dichloropropene	0.00	ND	5	0.50000
28	1,1,2-Trichloroethane	0.00	ND	5	0.50000
29	Tetrachloroethene	0.00	ND	5	0.50000
30	2-Hexanone	0.00	ND	5	0.50000
31	Dibromochloromethane	0.00	ND	5	0.50000
32	1,2-Dibromoethane	0.00	ND	5	0.50000
33	Chlorobenzene	0.00	ND	5	0.50000
34	Ethylbenzene	26.38	2.638	5	0.50000
35	m- &/or p-Xylene	98.15	9.815	5	0.50000
36	o-Xylene	32.03	3.203	5	0.50000
37	Styrene	4.18	ND	5	0.50000
38	Bromoform	0.00	ND	5	0.50000
39	1,4-Dichlorobenzene-d4	250.00	25.000	5	0.50000
41	4-Bromofluorobenzene	50.94	5.094	5	0.50000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	0.50000
43	n-Propylbenzene	0.00	ND	5	0.50000
44	1,3,5-Trimethylbenzene	0.00	ND	5	0.50000
45	1,2,4-Trimethylbenzene	0.00	ND	5	0.50000
46	Isobutylbenzene	1.55	ND	5	0.50000
47	1,3-Dichlorobenzene	0.00	ND	5	0.50000
48	1,4-Dichlorobenzene	0.00	ND	5	0.50000
49	1,2-Dichlorobenzene	0.00	ND	5	0.50000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	0.50000
51	1,2,4-Trichlorobenzene	0.00	ND	5	0.50000
52	Hexachlorobutadiene	0.00	ND	5	0.50000
53	Naphthalene	0.00	ND	5	0.50000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

AMH VP1262 07/24/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_024.D
Acq On : 29 Jun 2017 6:22 pm
Operator : AH
Sample : NE39189 TRIP
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 24 11:03:22 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

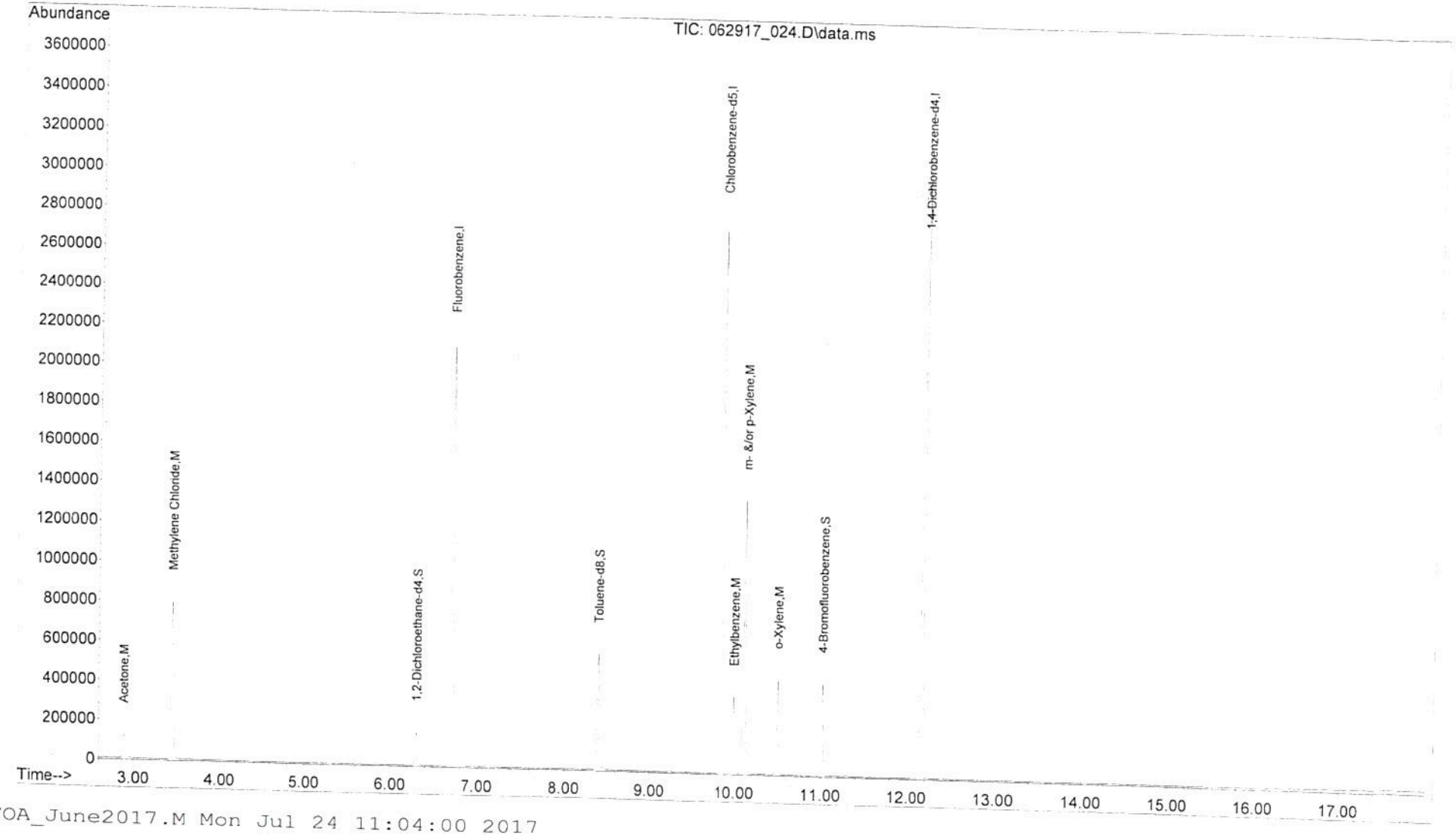
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1950109	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1455507	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	761753	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	111546	49.59 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 99.18%	
25) Toluene-d8	8.40	98	365993	49.68 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 99.36%	
41) 4-Bromofluorobenzene	11.01	174	123035	50.94 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 101.88%	
					Qvalue
Target Compounds					
4) Acetone	2.89	58	46561	150.55 ng	90
6) Methylene Chloride	3.44	84	403697	186.84 ng	89
34) Ethylbenzene	9.99	91	261979	26.38 ng	95
35) m- &/or p-Xylene	10.11	106	374365	98.15 ng	93
36) o-Xylene	10.50	106	121131	32.03 ng	99

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

GMU HD4969 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_024.D
Acq On : 29 Jun 2017 6:22 pm
Operator : AH
Sample : NE39189 TRIP
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 24 11:03:22 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Mon Jul 24 11:04:00 2017

AIH VP1262 07/24/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_025.D
Acq On : 29 Jun 2017 6:46 pm
Operator : AH
Sample : NE39189 SPIKE
Misc :
ALS Vial : 25 Sample Multiplier: 1

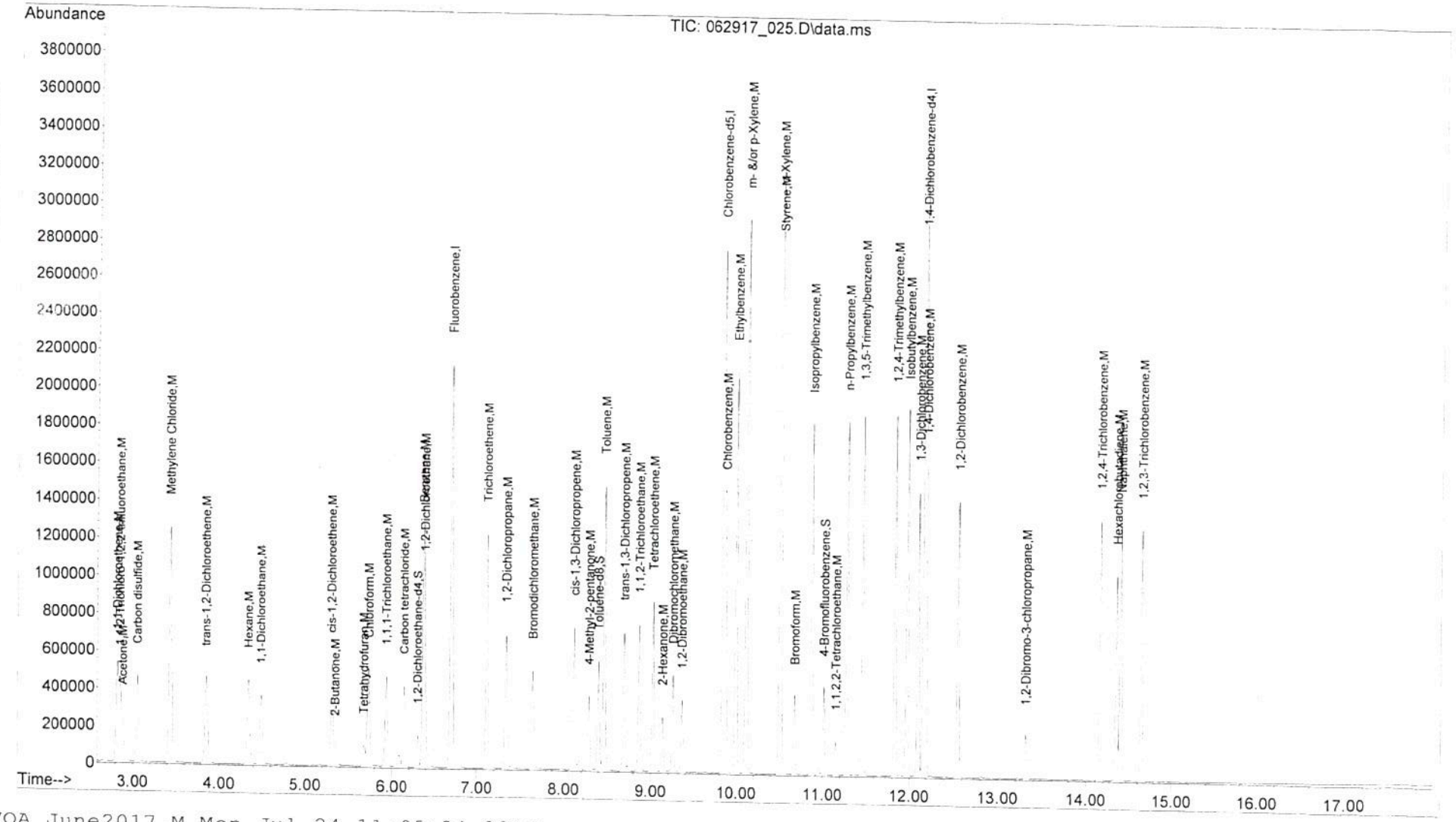
Quant Time: Jun 30 08:30:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Fluorobenzene	6.71	96	1945670	250.00 ng		0.02
22) Chlorobenzene-d5	9.84	117	1477072	250.00 ng		0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	793661	250.00 ng		0.01
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	6.30	65	113480	50.56 ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.12%			
25) Toluene-d8	8.40	98	373832	50.01 ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.02%			
41) 4-Bromofluorobenzene	11.01	174	122241	48.57 ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.14%			
Target Compounds						Qvalue
2) 1,1,2-Trichloro-1,2,2-...	2.85	151	159982	111.13 ng		97
3) 1,1-Dichloroethene	2.82	96	193340	112.35 ng		91
4) Acetone	2.89	58	78581	248.87 ng		93
5) Carbon disulfide	3.06	76	652795	111.62 ng		99
6) Methylene Chloride	3.44	84	641637	297.64 ng		90
7) trans-1,2-Dichloroethene	3.85	96	225443	112.12 ng		93
8) Hexane	4.34	57	267814	136.96 ng		94
9) 1,1-Dichloroethane	4.49	63	426322	112.54 ng		99
10) cis-1,2-Dichloroethene	5.30	96	256652	111.74 ng		96
11) 2-Butanone	5.35	72	28688	100.77 ng		74
12) Chloroform	5.73	83	416402	114.52 ng		98
13) Tetrahydrofuran	5.68	42	78752	119.62 ng	#	87
14) 1,1,1-Trichloroethane	5.93	97	325737	110.13 ng		97
15) Carbon tetrachloride	6.14	117	278741	109.67 ng		96
17) Benzene	6.37	78	962132	111.82 ng		97
18) 1,2-Dichloroethane	6.39	62	344669	116.35 ng		100
19) Trichloroethene	7.12	95	413728	184.60 ng		99
20) 1,2-Dichloropropane	7.34	63	265910	120.12 ng		99
21) Bromodichloromethane	7.64	83	324021	113.94 ng		100
23) cis-1,3-Dichloropropene	8.12	75	411003	112.73 ng		90
24) 4-Methyl-2-pentanone	8.29	58	95756	112.05 ng		91
26) Toluene	8.46	92	603712	114.96 ng		98
27) trans-1,3-Dichloropropene	8.69	75	385565	114.50 ng		91
28) 1,1,2-Trichloroethane	8.87	83	206408	116.39 ng		98
29) Tetrachloroethene	9.02	164	201450	120.74 ng		98
30) 2-Hexanone	9.14	43	186333	107.52 ng		94
31) Dibromochloromethane	9.26	129	254657	115.99 ng		100
32) 1,2-Dibromoethane	9.36	107	245559	117.51 ng		99
33) Chlorobenzene	9.87	112	709969	116.98 ng		98
34) Ethylbenzene	9.99	91	1441161	143.02 ng		97
35) m- &/or p-Xylene	10.11	106	834183	213.85 ng		94
36) o-Xylene	10.50	106	574983	149.81 ng		100
37) Styrene	10.51	104	776358	115.41 ng		97
38) Bromoform	10.68	173	183513	107.26 ng		99
40) Isopropylbenzene	10.87	105	1170006	121.75 ng		98
42) 1,1,2,2-Tetrachloroethane	11.15	83	85058	35.39 ng		99
43) n-Propylbenzene	11.28	91	1421483	123.54 ng		97
44) 1,3,5-Trimethylbenzene	11.46	105	1016797	121.25 ng		99
45) 1,2,4-Trimethylbenzene	11.83	105	1011422	118.87 ng		98
46) Isobutylbenzene	11.97	91	1064973	129.46 ng		98

AMH VP1262 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_025.D
Acq On : 29 Jun 2017 6:46 pm
Operator : AH
Sample : NE39189 SPIKE
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 30 08:30:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Mon Jul 24 11:05:24 2017

AHH UP1262 07/24/2017

D:\Data\Angie\VP1262\062917_026.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 19:11	uL purged =	1.00
Data File Name:	**062917_026.D**		
Sample Name:	NE39193		

		Total Volume (mL) =	**50.0**
mL of Sample in 50 mL water=	**0.010**	**Total Purge Vol (mL)=**	**5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	5.00000
3	1,1-Dichloroethene	0.00	ND	5	5.00000
4	Acetone	57.29	57.288	10	10.00000
5	Carbon disulfide	0.48	ND	5	5.00000
6	Methylene Chloride	3.23	ND	5	5.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	5.00000
8	Hexane	-0.41	ND	5	5.00000
9	1,1-Dichloroethane	0.00	ND	5	5.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	5.00000
11	2-Butanone	0.00	ND	5	5.00000
12	Chloroform	0.00	ND	5	5.00000
13	Tetrahydrofuran	0.00	ND	5	5.00000
14	1,1,1-Trichloroethane	0.00	ND	5	5.00000
15	Carbon tetrachloride	0.00	ND	5	5.00000
17	Benzene	0.00	ND	5	5.00000
18	1,2-Dichloroethane	0.00	ND	5	5.00000
19	Trichloroethene	0.00	ND	5	5.00000
20	1,2-Dichloropropane	0.00	ND	5	5.00000
21	Bromodichloromethane	0.00	ND	5	5.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	5.00000
24	4-Methyl-2-pentanone	3.33	ND	5	5.00000
26	Toluene	0.00	ND	5	5.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	5.00000
28	1,1,2-Trichloroethane	0.00	ND	5	5.00000
29	Tetrachloroethene	0.00	ND	5	5.00000
30	2-Hexanone	0.00	ND	5	5.00000
31	Dibromochloromethane	0.00	ND	5	5.00000
32	1,2-Dibromoethane	0.00	ND	5	5.00000
33	Chlorobenzene	0.35	ND	5	5.00000
34	Ethylbenzene	1.41	ND	5	5.00000
35	m- &/or p-Xylene	6.77	6.775	5	5.00000
36	o-Xylene	1.62	ND	5	5.00000
37	Styrene	3.44	ND	5	5.00000
38	Bromoform	0.00	ND	5	5.00000
39	1,4-Dichlorobenzene-d4	250.00	250.000	5	5.00000
41	4-Bromofluorobenzene	49.91	49.913	5	5.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	5.00000
43	n-Propylbenzene	0.41	ND	5	5.00000
44	1,3,5-Trimethylbenzene	1.64	ND	5	5.00000
45	1,2,4-Trimethylbenzene	1.81	ND	5	5.00000
46	Isobutylbenzene	1.90	ND	5	5.00000
47	1,3-Dichlorobenzene	0.72	ND	5	5.00000
48	1,4-Dichlorobenzene	0.90	ND	5	5.00000
49	1,2-Dichlorobenzene	0.67	ND	5	5.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	5.00000
51	1,2,4-Trichlorobenzene	1.91	ND	5	5.00000
52	Hexachlorobutadiene	3.22	ND	5	5.00000
53	Naphthalene	4.47	ND	5	5.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:06 AM

AMH VP1262 7/24/17

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_026.D
Acq On : 29 Jun 2017 7:11 pm
Operator : AH
Sample : NE39193
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 14:27:37 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1887729	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1425728	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	744010	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	110290	50.65 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.30%		
25) Toluene-d8	8.40	98	354213	49.09 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.18%		
41) 4-Bromofluorobenzene	11.01	174	117756	49.91 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.82%		
Target Compounds					Qvalue
4) Acetone	2.90	58	15508	57.29 ng	85
8) Hexane	4.34	57	1412	Below Cal #	23
35) m- &/or p-Xylene	10.11	106	20434	6.77 ng	97

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

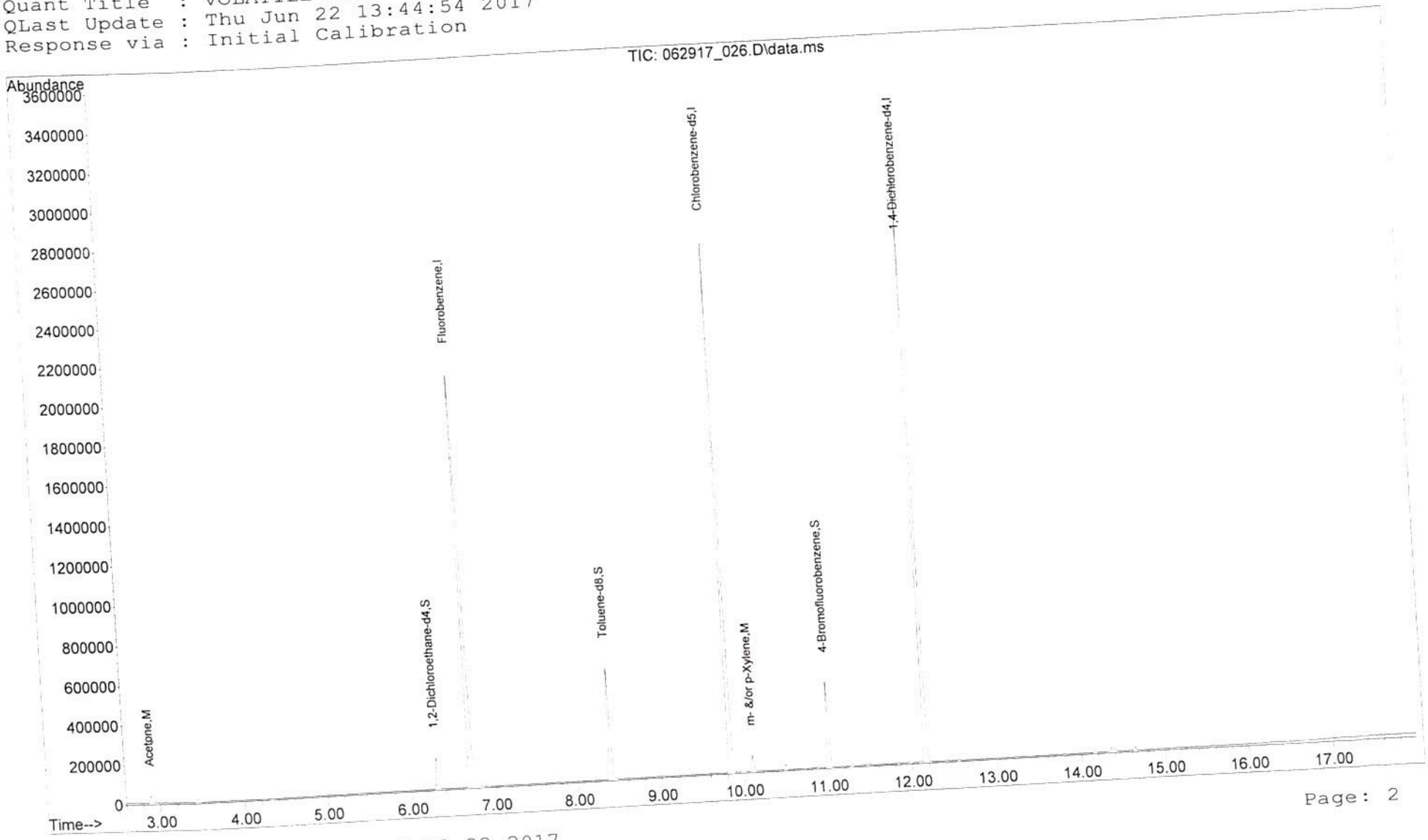
Thisanalysis is for acetone only. Remainder of compounds analyzed 7/5/17. dH 7/6/17

AMH VP1262 07/20/2017

Quantitation Report (QT Reviewed)

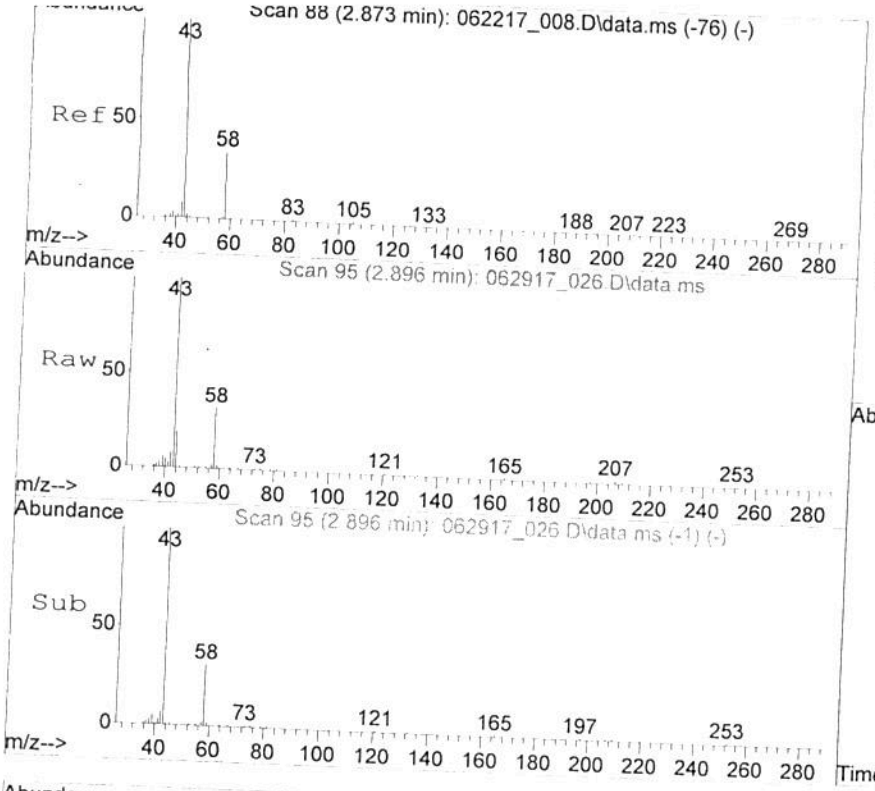
Data Path : D:\Data\Angie\VP1262\
Data File : 062917_026.D
Acq On : 29 Jun 2017 7:11 pm
Operator : AH
Sample : NE39193
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 14:27:37 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Thu Jul 06 15:30:22 2017

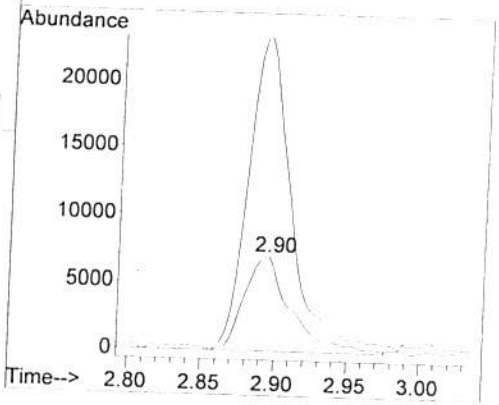
Cert ID 1262 07/20/2017

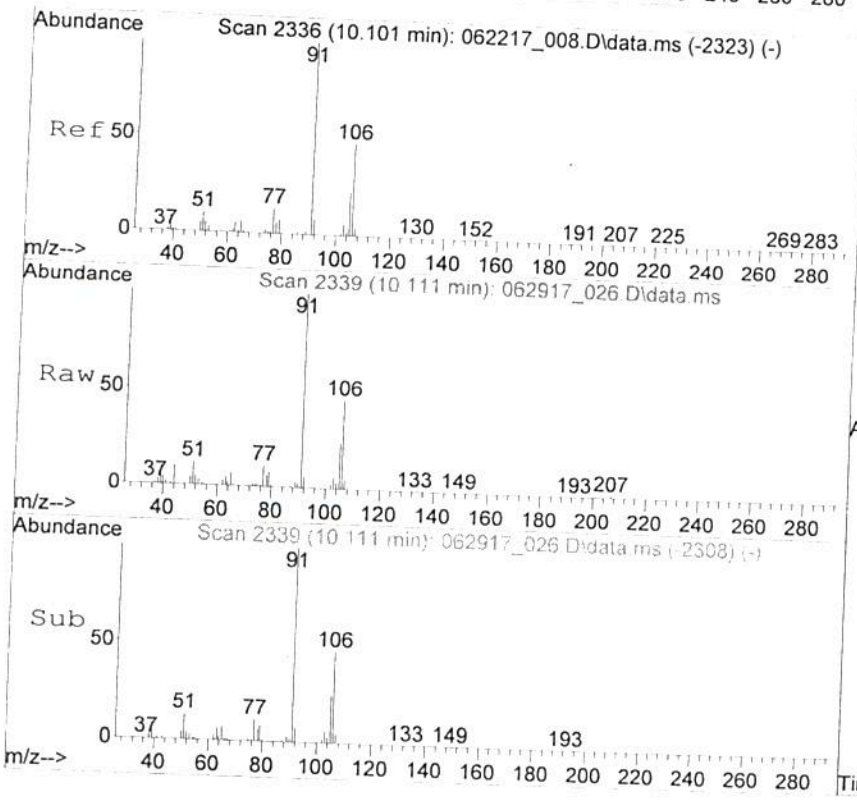


#4
Acetone
Concen: 57.29 ng
RT: 2.90 min Scan# 95
Delta R.T. -0.006 min
Lab File: 062917_026.D
Acq: 29 Jun 2017 7:11 pm

Tgt Ion: 58 Resp: 15508

Ion	Ratio	Lower	Upper
58	100		
43	314.3	277.1	415.7

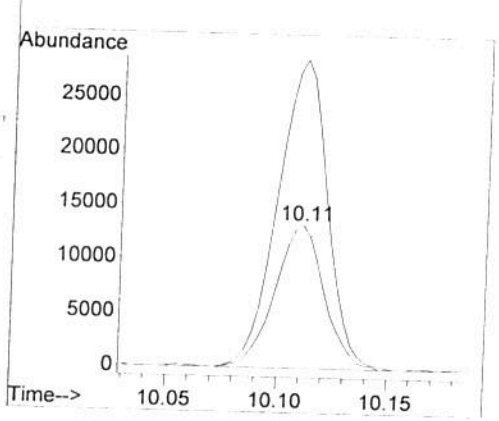




#35
m- &/or p-Xylene
Concen: 6.77 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_026.D
Acq: 29 Jun 2017 7:11 pm

Tgt Ion:106 Resp: 20434

Ion	Ratio	Lower	Upper
106	100		
91	217.0	170.2	255.2



AMH UP1262 07/20/2017

D:\Data\Angie\VP1262\062917_027.D

Project Number: VP1262
Operator: AH
Date Acquired: 6/29/2017 19:35
Data File Name: **062917_027.D**
Sample Name: NE39197

uL purged = **0.10**

Total Volume (mL) = **50.0**
Total Purge Vol (mL)= **5.000**

mL of Sample in 50 mL water= **0.001**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	Limit of Quantitation mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	50.00000
3	1,1-Dichloroethene	0.00	ND	5	50.00000
4	Acetone	0.00	ND	10	100.00000
5	Carbon disulfide	0.00	ND	5	50.00000
6	Methylene Chloride	7.01	70.136	5	50.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	50.00000
8	Hexane	0.00	ND	5	50.00000
9	1,1-Dichloroethane	0.00	ND	5	50.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	50.00000
11	2-Butanone	0.00	ND	5	50.00000
12	Chloroform	0.00	ND	5	50.00000
13	Tetrahydrofuran	0.00	ND	5	50.00000
14	1,1,1-Trichloroethane	0.00	ND	5	50.00000
15	Carbon tetrachloride	0.00	ND	5	50.00000
17	Benzene	0.00	ND	5	50.00000
18	1,2-Dichloroethane	0.00	ND	5	50.00000
19	Trichloroethene	0.00	ND	5	50.00000
20	1,2-Dichloropropane	0.00	ND	5	50.00000
21	Bromodichloromethane	0.00	ND	5	50.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	50.00000
24	4-Methyl-2-pentanone	3.31	ND	5	50.00000
26	Toluene	0.00	ND	5	50.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	50.00000
28	1,1,2-Trichloroethane	0.00	ND	5	50.00000
29	Tetrachloroethene	0.00	ND	5	50.00000
30	2-Hexanone	0.00	ND	5	50.00000
31	Dibromochloromethane	0.00	ND	5	50.00000
32	1,2-Dibromoethane	0.00	ND	5	50.00000
33	Chlorobenzene	0.00	ND	5	50.00000
34	Ethylbenzene	23.42	234.211	5	50.00000
35	m- &/or p-Xylene	107.03	1070.260	5	50.00000
36	o-Xylene	34.30	342.982	5	50.00000
37	Styrene	4.10	ND	5	50.00000
38	Bromoform	0.00	ND	5	50.00000
39	1,4-Dichlorobenzene-d4	250.00	2500.000	5	50.00000
41	4-Bromofluorobenzene	50.57	505.748	5	50.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	50.00000
43	n-Propylbenzene	0.15	ND	5	50.00000
44	1,3,5-Trimethylbenzene	0.00	ND	5	50.00000
45	1,2,4-Trimethylbenzene	1.56	ND	5	50.00000
46	Isobutylbenzene	1.46	ND	5	50.00000
47	1,3-Dichlorobenzene	0.30	ND	5	50.00000
48	1,4-Dichlorobenzene	0.37	ND	5	50.00000
49	1,2-Dichlorobenzene	0.00	ND	5	50.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	50.00000
51	1,2,4-Trichlorobenzene	0.65	ND	5	50.00000
52	Hexachlorobutadiene	0.00	ND	5	50.00000
53	Naphthalene	3.56	ND	5	50.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:10 AM

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_027.D
Acq On : 29 Jun 2017 7:35 pm
Operator : AH
Sample : NE39197
Misc :
ALS Vial : 27 Sample Multiplier: 1

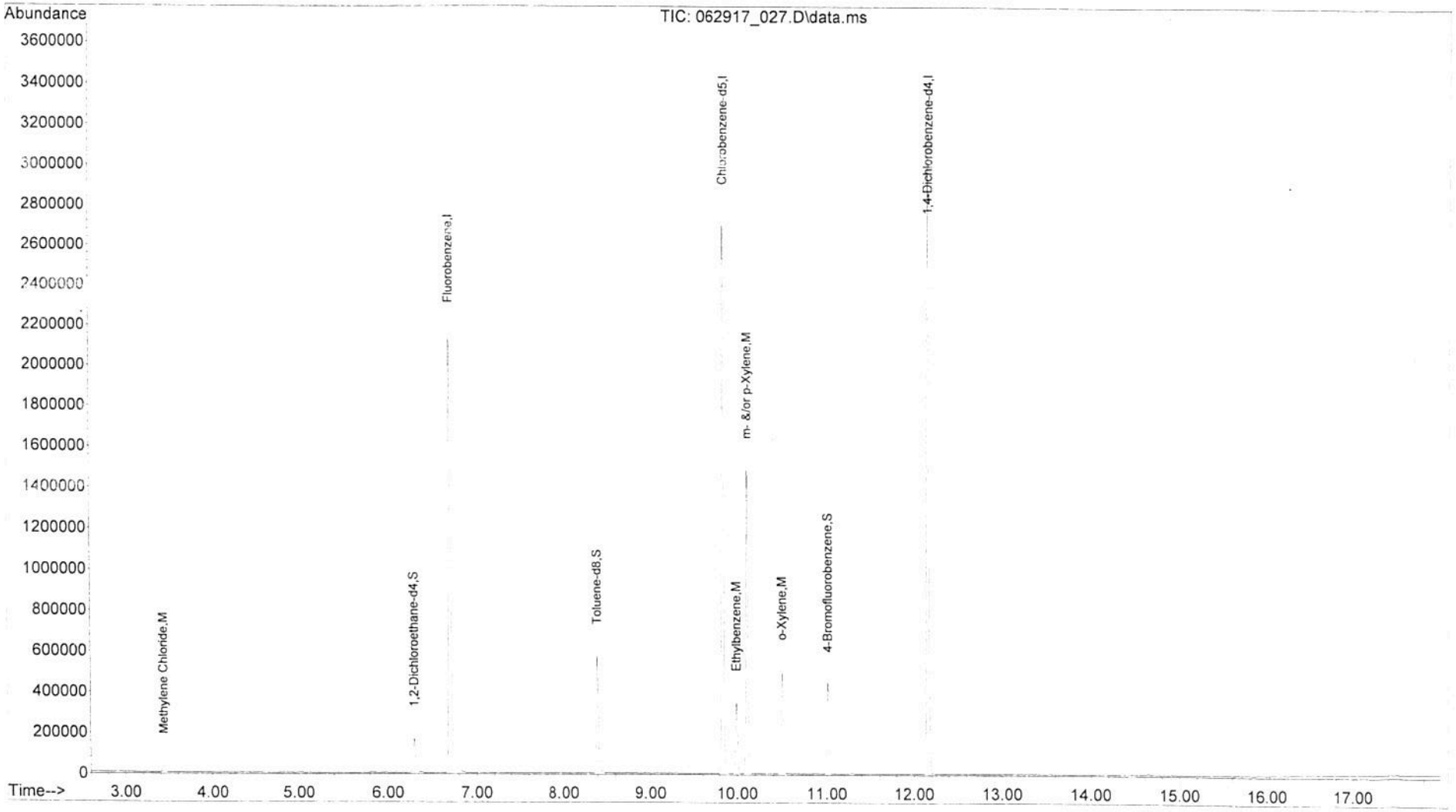
Quant Time: Jul 24 11:09:13 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

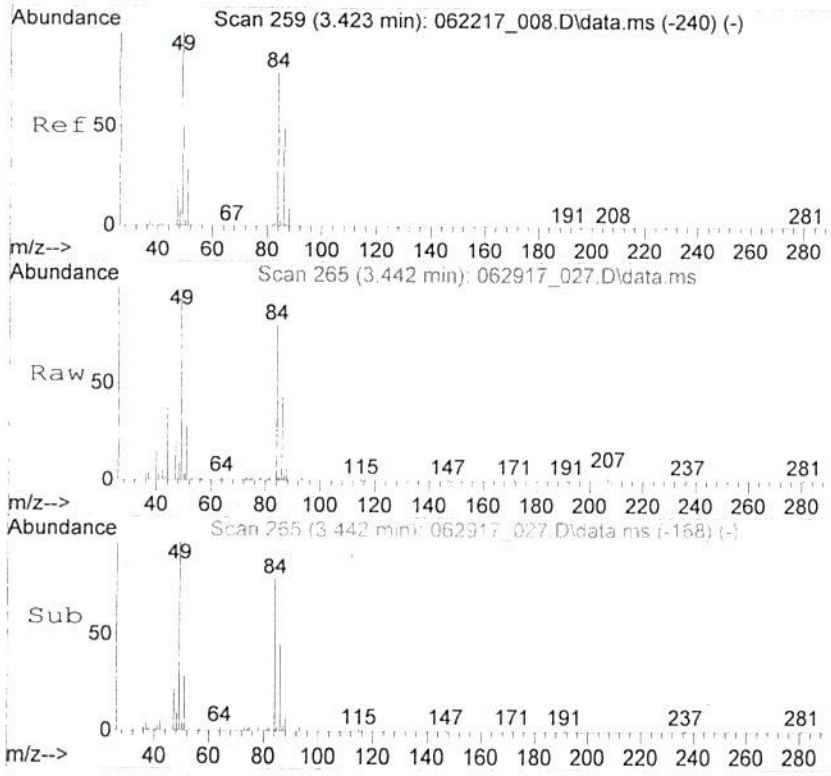
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.71	96	1951136	250.00	ng	0.02
22) Chlorobenzene-d5	9.84	117	1454998	250.00	ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	770089	250.00	ng	0.01
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	6.30	65	111292	49.45	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.90%			
25) Toluene-d8	8.40	98	372196	50.54	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.08%			
41) 4-Bromofluorobenzene	11.01	174	123500	50.57	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.14%			
Target Compounds						Qvalue
6) Methylene Chloride	3.44	84	15162	7.01	ng	85
34) Ethylbenzene	9.99	91	232484	23.42	ng	98
35) m- &/or p-Xylene	10.11	106	408570	107.03	ng	94
36) o-Xylene	10.50	106	129672	34.30	ng	98

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

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_027.D
Acq On : 29 Jun 2017 7:35 pm
Operator : AH
Sample : NE39197
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 24 11:09:13 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

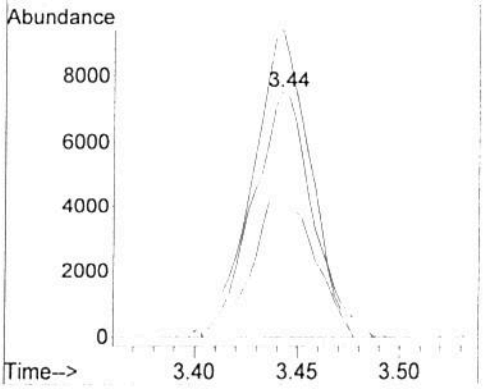


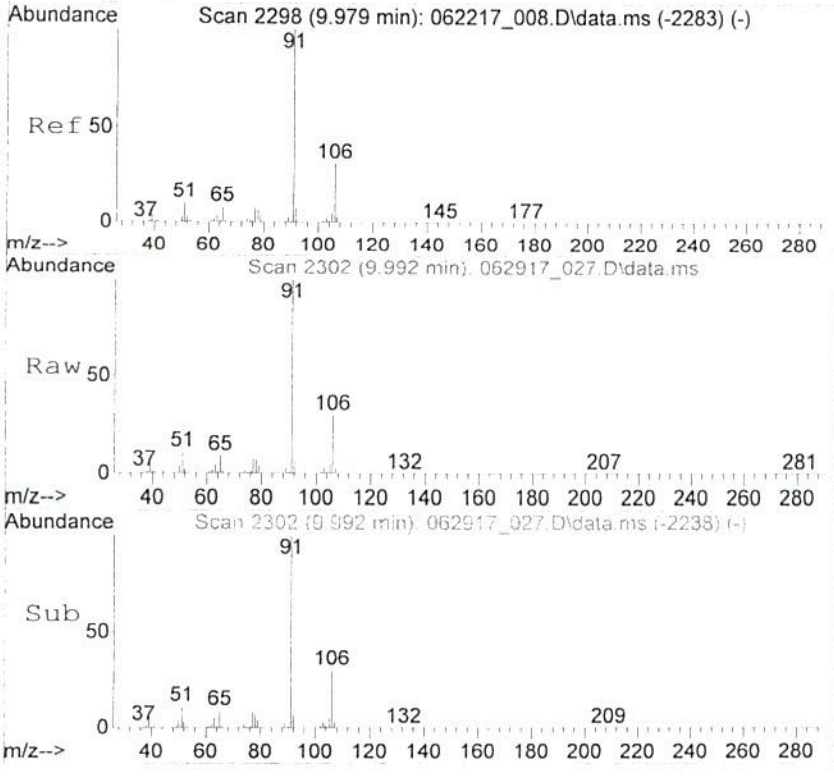


#6
Methylene Chloride
Concen: 7.01 ng
RT: 3.44 min Scan# 265
Delta R.T. -0.003 min
Lab File: 062917_027.D
Acq: 29 Jun 2017 7:35 pm

Tgt Ion: 84 Resp: 15162

Ion	Ratio	Lower	Upper
84	100		
86	59.3	50.7	76.1
49	123.5	117.4	176.0

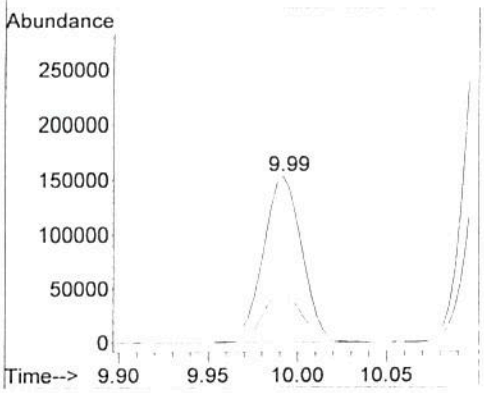


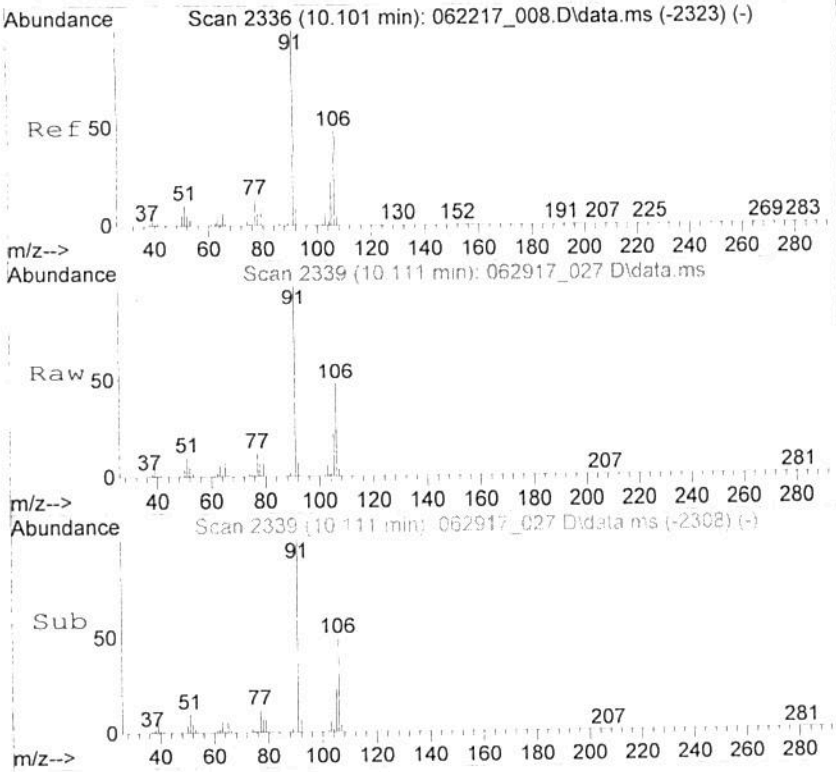


#34
Ethylbenzene
Concen: 23.42 ng
RT: 9.99 min Scan# 2302
Delta R.T. -0.003 min
Lab File: 062917_027.D
Acq: 29 Jun 2017 7:35 pm

Tgt Ion: 91 Resp: 232484

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.4	35.0

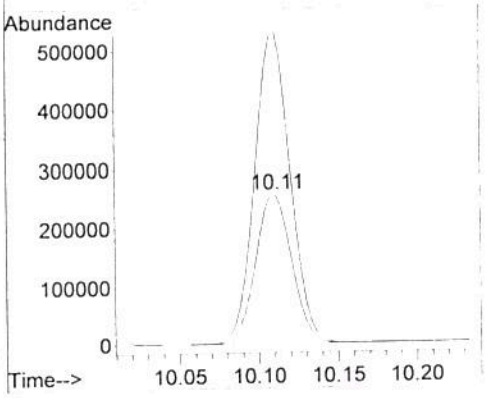


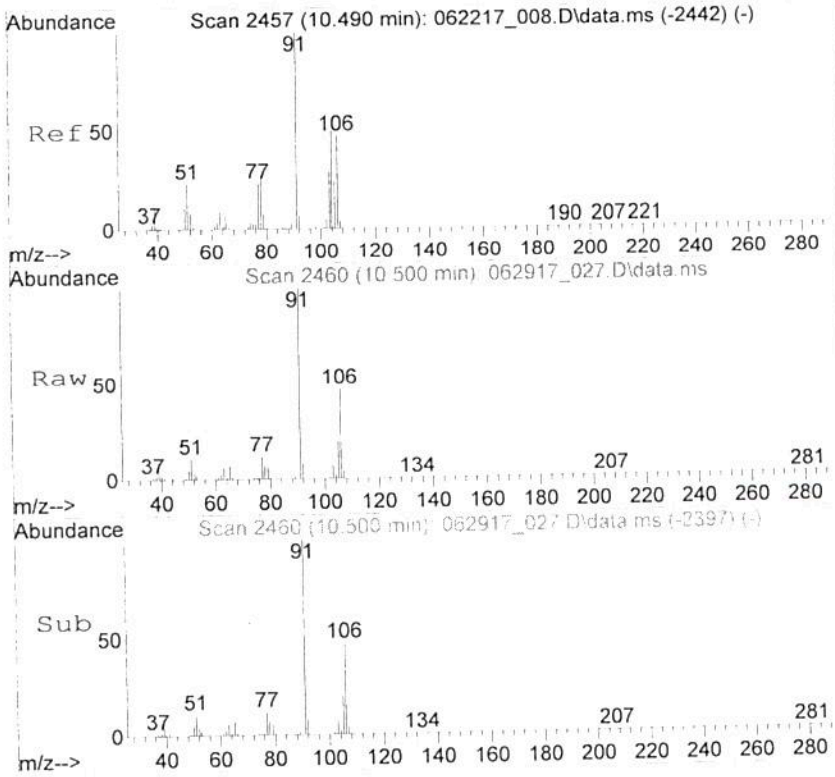


#35
m- &/or p-Xylene
Concen: 107.03 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_027.D
Acq: 29 Jun 2017 7:35 pm

Tgt Ion:106 Resp: 408570

Ion	Ratio	Lower	Upper
106	100		
91	202.9	170.2	255.2

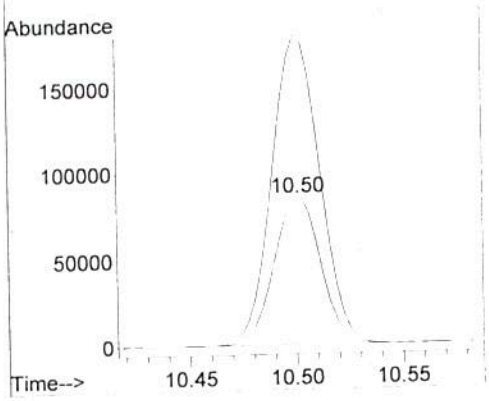




#36
o-Xylene
Concen: 34.30 ng
RT: 10.50 min Scan# 2460
Delta R.T. -0.006 min
Lab File: 062917_027.D
Acq: 29 Jun 2017 7:35 pm

Tgt Ion:106 Resp: 129672

Ion	Ratio	Lower	Upper
106	100		
91	216.3	175.1	262.7



Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_028.D
Acq On : 29 Jun 2017 8:00 pm
Operator : AH
Sample : NE39205
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 05 14:35:50 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1912670	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1445005	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	757708	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	112929	51.18 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.36%		
25) Toluene-d8	8.40	98	360446	49.29 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.58%		
41) 4-Bromofluorobenzene	11.01	174	121502	50.57 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.14%		
Target Compounds					Qvalue
4) Acetone	2.90	58	4641	22.82 ng	84
34) Ethylbenzene	9.99	91	1355422	137.49 ng	97
35) m- &/or p-Xylene	10.11	106	2305239	601.57 ng	95

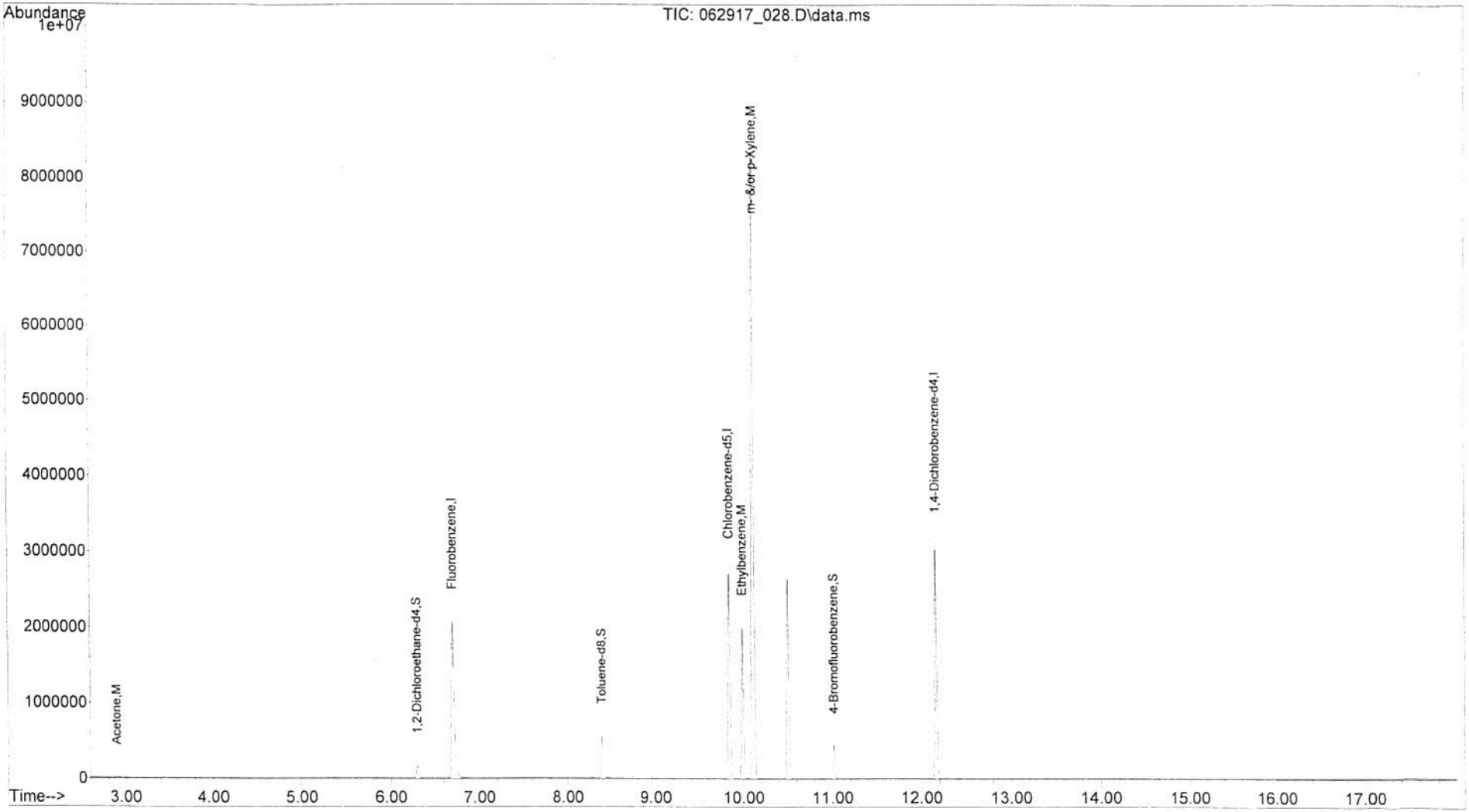
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data not used, see 7/5/17 analysis. dlt 7/6/17

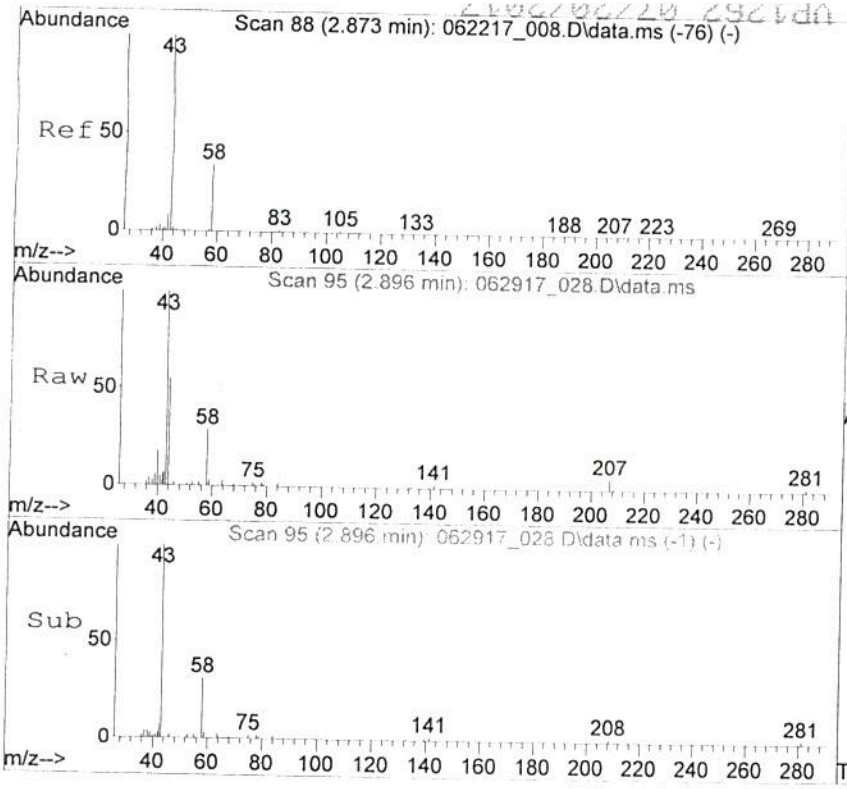
AMH VP1262 07/20/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_028.D
Acq On : 29 Jun 2017 8:00 pm
Operator : AH
Sample : NE39205
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 05 14:35:50 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



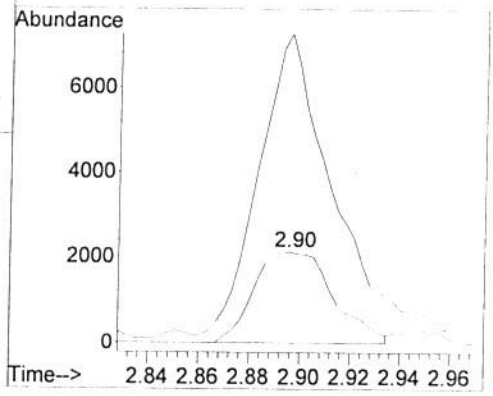
AMH UP1262 07/20/2017

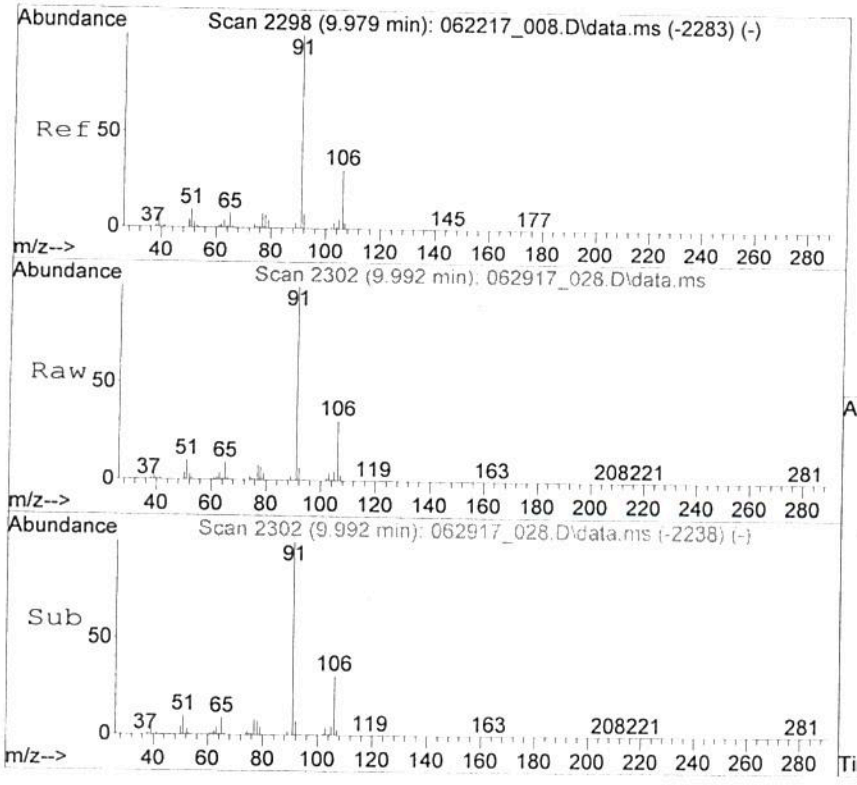


#4
Acetone
Concen: 22.82 ng
RT: 2.90 min Scan# 95
Delta R.T. -0.006 min
Lab File: 062917_028.D
Acq: 29 Jun 2017 8:00 pm

Tgt Ion: 58 Resp: 4641

Ion	Ratio	Lower	Upper
58	100		
43	311.7	277.1	415.7

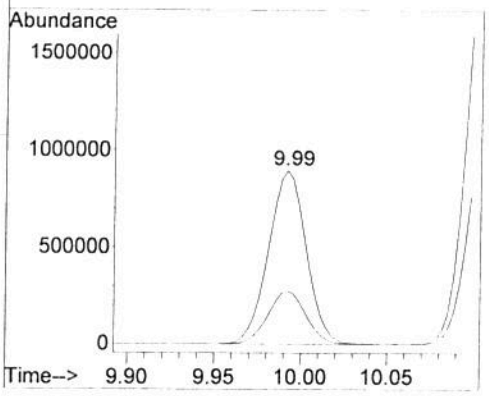




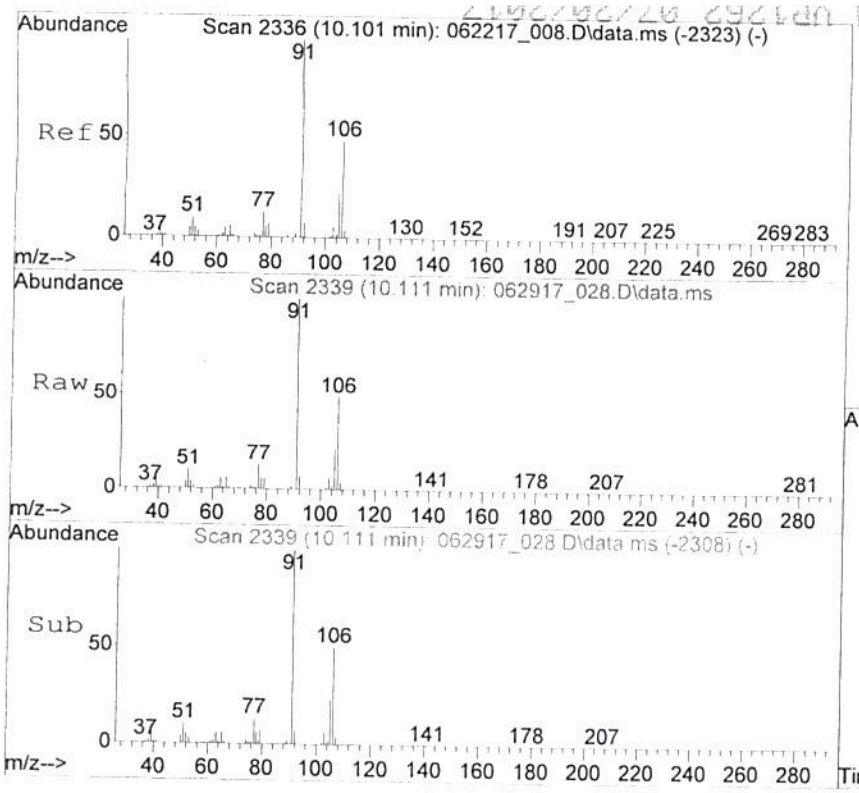
#34
Ethylbenzene
Concen: 137.49 ng
RT: 9.99 min Scan# 2302
Delta R.T. -0.003 min
Lab File: 062917_028.D
Acq: 29 Jun 2017 8:00 pm

Tgt Ion: 91 Resp: 1355422

Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.4	35.0



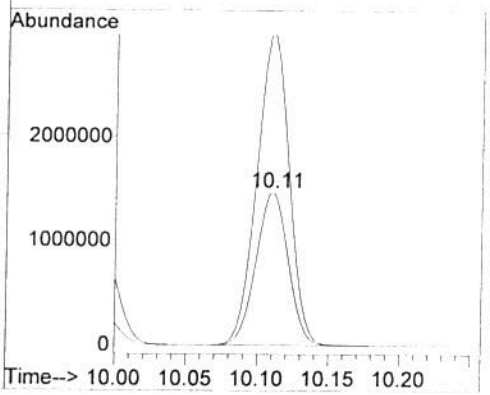
AMH UP1262 07/20/2017



#35
m- &/or p-Xylene
Concen: 601.57 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_028.D
Acq: 29 Jun 2017 8:00 pm

Tgt Ion:106 Resp: 2305239

Ion	Ratio	Lower	Upper
106	100		
91	204.5	170.2	255.2



D:\Data\Angie\VP1262\062917_029.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 20:24	uL purged =	0.10
Data File Name:	**062917_029.D**		
Sample Name:	NE39179		
		Total Volume (mL) =	**50.0**
mL of Sample in 50 mL water=	**0.001**	**Total Purge Vol (mL)=**	**5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	50.00000
3	1,1-Dichloroethene	0.00	ND	5	50.00000
4	Acetone	20.26	202.615	10	100.00000
5	Carbon disulfide	0.00	ND	5	50.00000
6	Methylene Chloride	39.10	390.990	5	50.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	50.00000
8	Hexane	0.00	ND	5	50.00000
9	1,1-Dichloroethane	0.00	ND	5	50.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	50.00000
11	2-Butanone	0.00	ND	5	50.00000
12	Chloroform	0.00	ND	5	50.00000
13	Tetrahydrofuran	0.00	ND	5	50.00000
14	1,1,1-Trichloroethane	0.00	ND	5	50.00000
15	Carbon tetrachloride	0.00	ND	5	50.00000
17	Benzene	0.00	ND	5	50.00000
18	1,2-Dichloroethane	0.00	ND	5	50.00000
19	Trichloroethene	0.00	ND	5	50.00000
20	1,2-Dichloropropane	0.00	ND	5	50.00000
21	Bromodichloromethane	0.00	ND	5	50.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	50.00000
24	4-Methyl-2-pentanone	3.47	ND	5	50.00000
26	Toluene	0.00	ND	5	50.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	50.00000
28	1,1,2-Trichloroethane	0.00	ND	5	50.00000
29	Tetrachloroethene	0.00	ND	5	50.00000
30	2-Hexanone	0.00	ND	5	50.00000
31	Dibromochloromethane	0.00	ND	5	50.00000
32	1,2-Dibromoethane	0.00	ND	5	50.00000
33	Chlorobenzene	0.00	ND	5	50.00000
34	Ethylbenzene	2.05	ND	5	50.00000
35	m- &/or p-Xylene	9.88	98.808	5	50.00000
36	o-Xylene	2.05	ND	5	50.00000
37	Styrene	0.00	ND	5	50.00000
38	Bromoform	0.00	ND	5	50.00000
39	1,4-Dichlorobenzene-d4	250.00	2500.000	5	50.00000
41	4-Bromofluorobenzene	49.78	497.811	5	50.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	50.00000
43	n-Propylbenzene	0.00	ND	5	50.00000
44	1,3,5-Trimethylbenzene	0.00	ND	5	50.00000
45	1,2,4-Trimethylbenzene	0.00	ND	5	50.00000
46	Isobutylbenzene	1.39	ND	5	50.00000
47	1,3-Dichlorobenzene	0.00	ND	5	50.00000
48	1,4-Dichlorobenzene	0.00	ND	5	50.00000
49	1,2-Dichlorobenzene	0.00	ND	5	50.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	50.00000
51	1,2,4-Trichlorobenzene	0.00	ND	5	50.00000
52	Hexachlorobutadiene	0.00	ND	5	50.00000
53	Naphthalene	3.37	ND	5	50.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

AMH VP1262 07/24/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_029.D
Acq On : 29 Jun 2017 8:24 pm
Operator : AH
Sample : NE39179
Misc : 1uL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 24 11:13:38 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

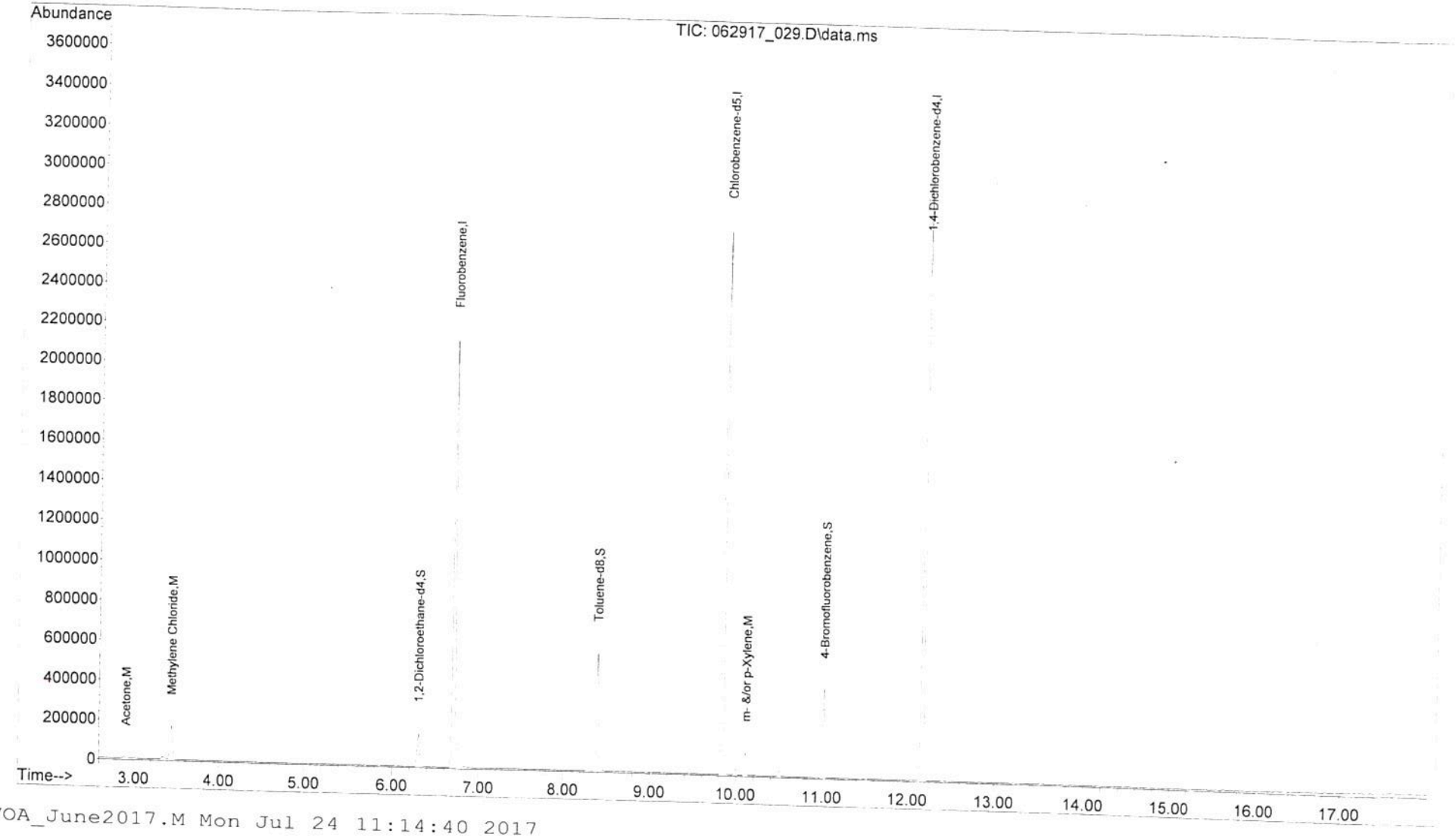
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.71	96	1944076	250.00	ng	0.02
22) Chlorobenzene-d5	9.84	117	1459789	250.00	ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	763331	250.00	ng	0.01
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	6.30	65	114827	51.20	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.40%			
25) Toluene-d8	8.40	98	370393	50.13	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.26%			
41) 4-Bromofluorobenzene	11.01	174	120495	49.78	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.56%			
Target Compounds						Qvalue
4) Acetone	2.91	58	3883m	20.26	ng	
6) Methylene Chloride	3.44	84	84218	39.10	ng	89
35) m- &/or p-Xylene	10.11	106	32975	9.88	ng	87

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

AMH VP1262 07/24/2017

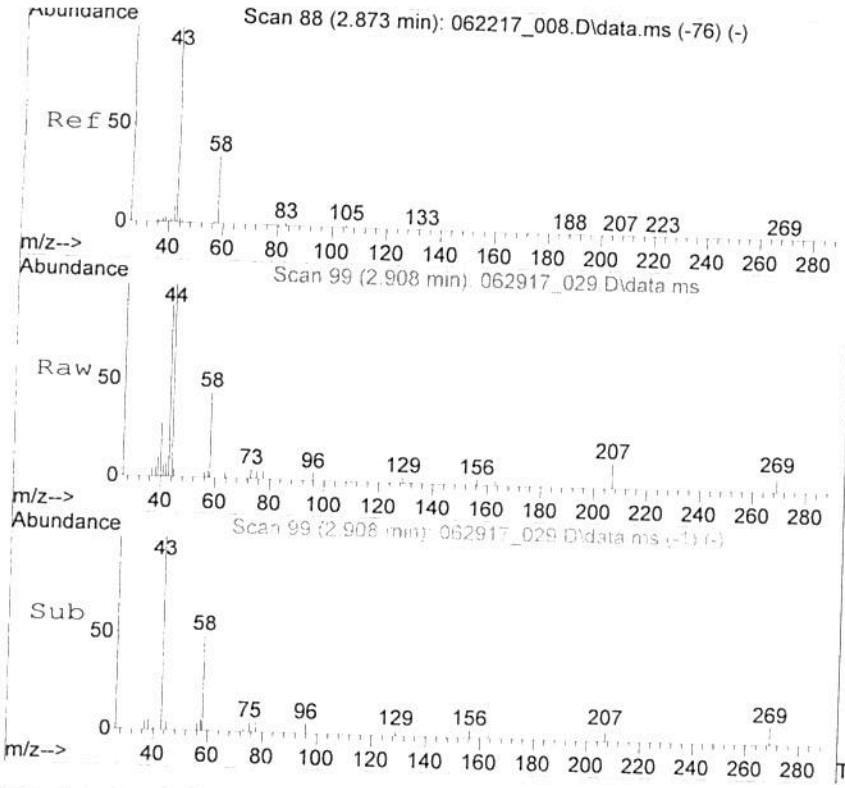
Data Path : D:\Data\Angie\VP1262\
Data File : 062917_029.D
Acq On : 29 Jun 2017 8:24 pm
Operator : AH
Sample : NE39179
Misc : 1uL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 24 11:13:38 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Mon Jul 24 11:14:40 2017

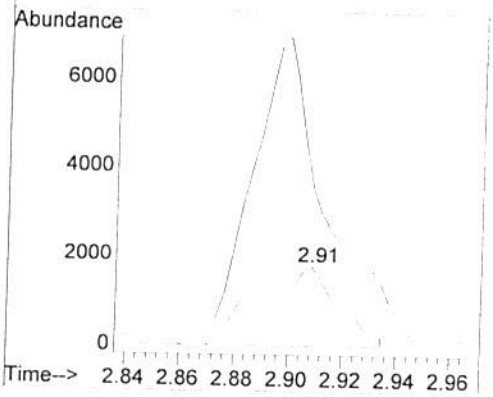
HMH VP1262 07/24/2017

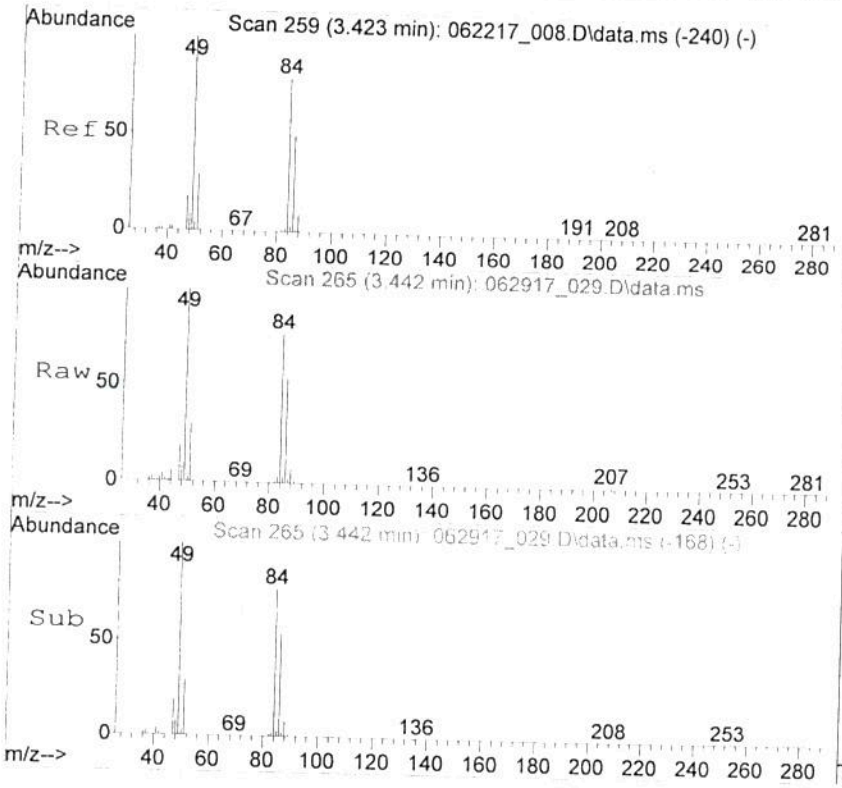


#4
Acetone
Concen: 20.26 ng m
RT: 2.91 min Scan# 99
Delta R.T. 0.006 min
Lab File: 062917_029.D
Acq: 29 Jun 2017 8:24 pm

Tgt Ion: 58 Resp: 3883

Ion	Ratio	Lower	Upper
58	100		
43	341.6	277.1	415.7

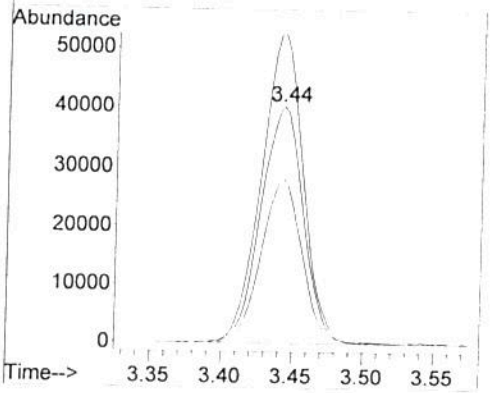




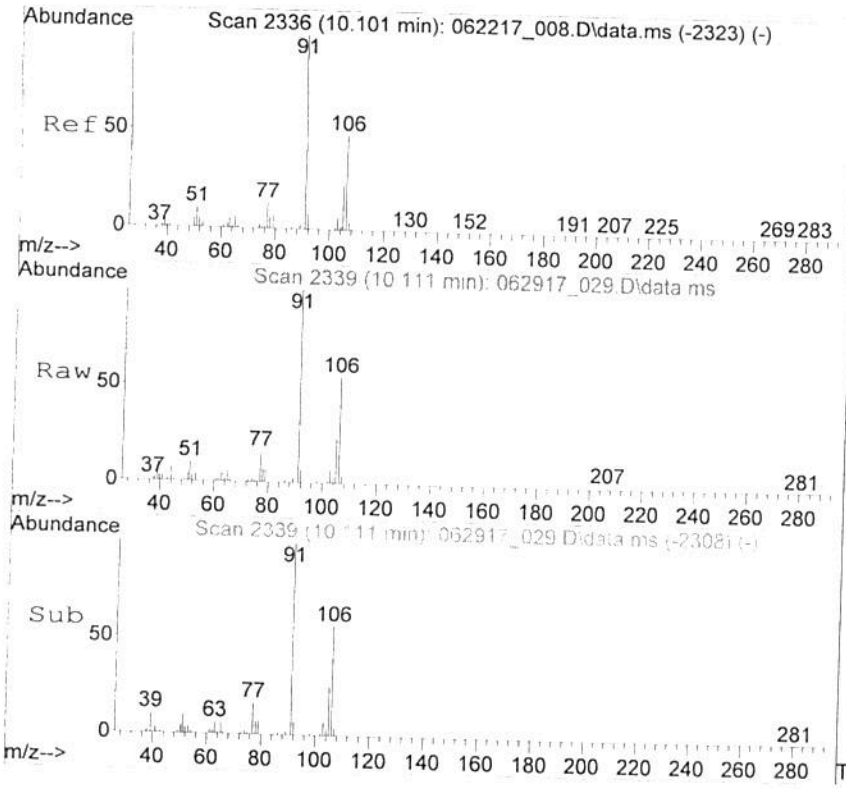
#6
Methylene Chloride
Concen: 39.10 ng
RT: 3.44 min Scan# 265
Delta R.T. -0.003 min
Lab File: 062917_029.D
Acq: 29 Jun 2017 8:24 pm

Tgt Ion: 84 Resp: 84218

Ion	Ratio	Lower	Upper
84	100		
86	66.6	50.7	76.1
49	129.0	117.4	176.0



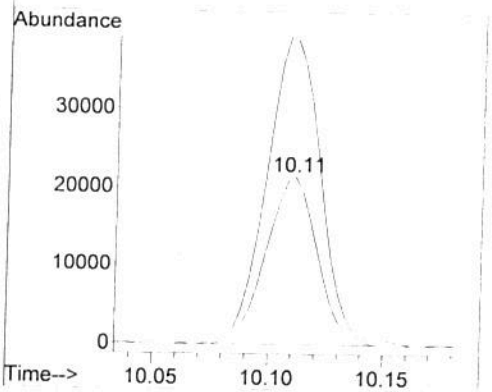
AMH UP1262 07/24/2017



#35
m- &/or p-Xylene
Concen: 9.88 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_029.D
Acq: 29 Jun 2017 8:24 pm

Tgt Ion:106 Resp: 32975

Ion	Ratio	Lower	Upper
106	100		
91	192.3	170.2	255.2



AMH VP1252 07/24/2017

D:\Data\Angie\VP1262\062917_030.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 20:49	uL purged =	0.10
Data File Name:	**062917_030.D**		
Sample Name:	NE39180		

		Total Volume (mL) =	**50.0**
mL of Sample in 50 mL water=	**0.001**	**Total Purge Vol (mL)=**	**5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	50.00000
3	1,1-Dichloroethene	0.00	ND	5	50.00000
4	Acetone	20.50	204.962	10	100.00000
5	Carbon disulfide	0.00	ND	5	50.00000
6	Methylene Chloride	34.28	342.834	5	50.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	50.00000
8	Hexane	0.00	ND	5	50.00000
9	1,1-Dichloroethane	0.00	ND	5	50.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	50.00000
11	2-Butanone	0.00	ND	5	50.00000
12	Chloroform	0.00	ND	5	50.00000
13	Tetrahydrofuran	0.00	ND	5	50.00000
14	1,1,1-Trichloroethane	0.00	ND	5	50.00000
15	Carbon tetrachloride	0.00	ND	5	50.00000
17	Benzene	0.00	ND	5	50.00000
18	1,2-Dichloroethane	0.00	ND	5	50.00000
19	Trichloroethene	0.00	ND	5	50.00000
20	1,2-Dichloropropane	0.00	ND	5	50.00000
21	Bromodichloromethane	0.00	ND	5	50.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	50.00000
24	4-Methyl-2-pentanone	4.28	ND	5	50.00000
26	Toluene	0.00	ND	5	50.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	50.00000
28	1,1,2-Trichloroethane	0.00	ND	5	50.00000
29	Tetrachloroethene	0.00	ND	5	50.00000
30	2-Hexanone	0.00	ND	5	50.00000
31	Dibromochloromethane	0.00	ND	5	50.00000
32	1,2-Dibromoethane	0.00	ND	5	50.00000
33	Chlorobenzene	0.00	ND	5	50.00000
34	Ethylbenzene	1.98	ND	5	50.00000
35	m- &/or p-Xylene	10.04	100.422	5	50.00000
36	o-Xylene	2.56	ND	5	50.00000
37	Styrene	0.00	ND	5	50.00000
38	Bromoform	0.00	ND	5	50.00000
39	1,4-Dichlorobenzene-d4	250.00	2500.000	5	50.00000
41	4-Bromofluorobenzene	51.30	513.019	5	50.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	50.00000
43	n-Propylbenzene	0.00	ND	5	50.00000
44	1,3,5-Trimethylbenzene	0.00	ND	5	50.00000
45	1,2,4-Trimethylbenzene	0.00	ND	5	50.00000
46	Isobutylbenzene	1.41	ND	5	50.00000
47	1,3-Dichlorobenzene	0.00	ND	5	50.00000
48	1,4-Dichlorobenzene	0.00	ND	5	50.00000
49	1,2-Dichlorobenzene	0.00	ND	5	50.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	50.00000
51	1,2,4-Trichlorobenzene	0.00	ND	5	50.00000
52	Hexachlorobutadiene	0.00	ND	5	50.00000
53	Naphthalene	0.00	ND	5	50.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:15 AM

AMH VP1262 7/24/17

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_030.D
Acq On : 29 Jun 2017 8:49 pm
Operator : AH
Sample : NE39180
Misc : 1uL
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 05 14:37:45 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

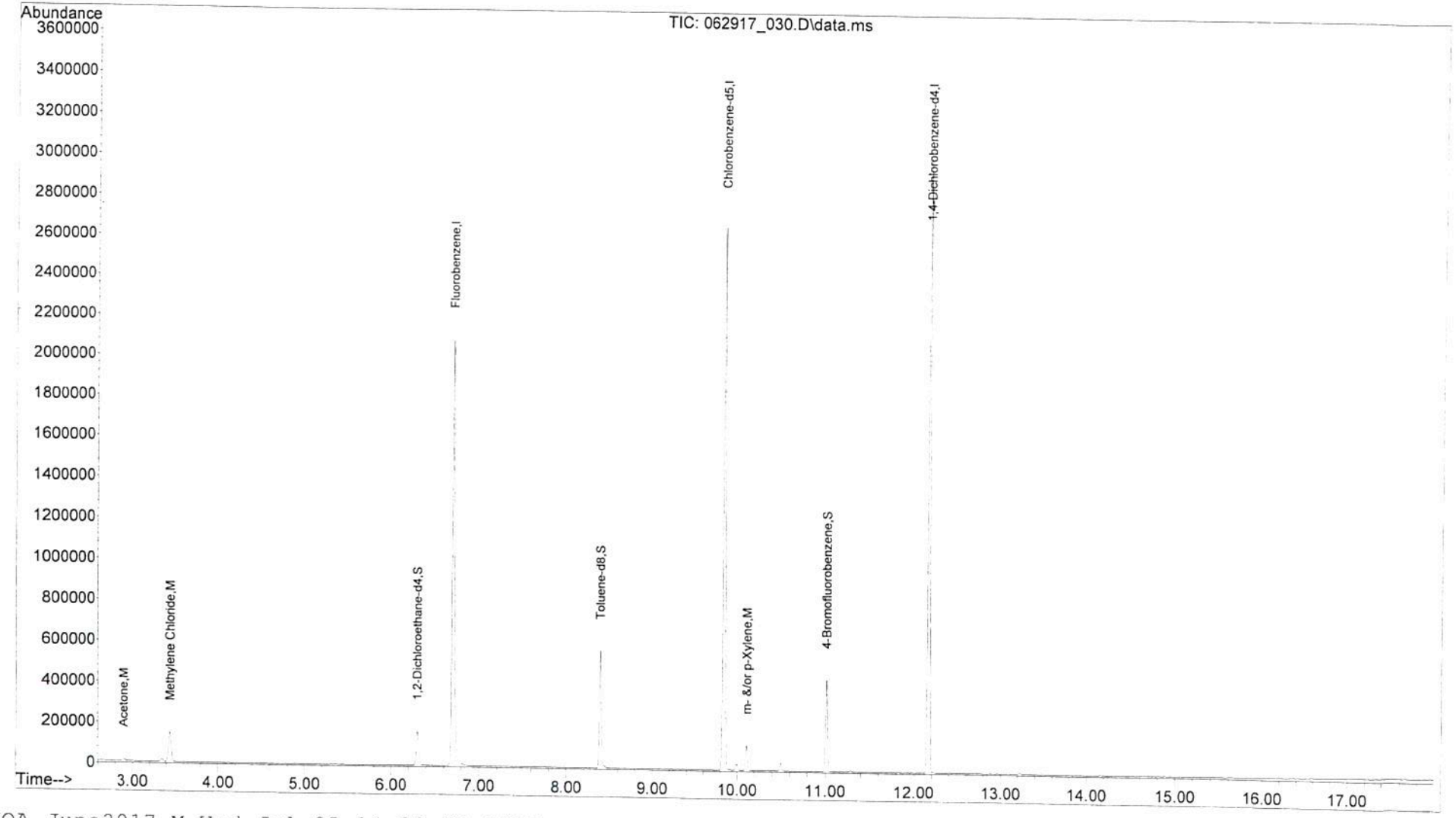
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1916764	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1436446	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	746887	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	112883	51.05 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.10%		
25) Toluene-d8	8.40	98	359450	49.44 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.88%		
41) 4-Bromofluorobenzene	11.01	174	121501	51.30 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.60%		
Target Compounds					Qvalue
4) Acetone	2.90	58	3904	20.50 ng	91
6) Methylene Chloride	3.44	84	72808	34.28 ng	90
35) m- &/or p-Xylene	10.11	106	33064	10.04 ng	92

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

AMH VP1262 07/20/2017

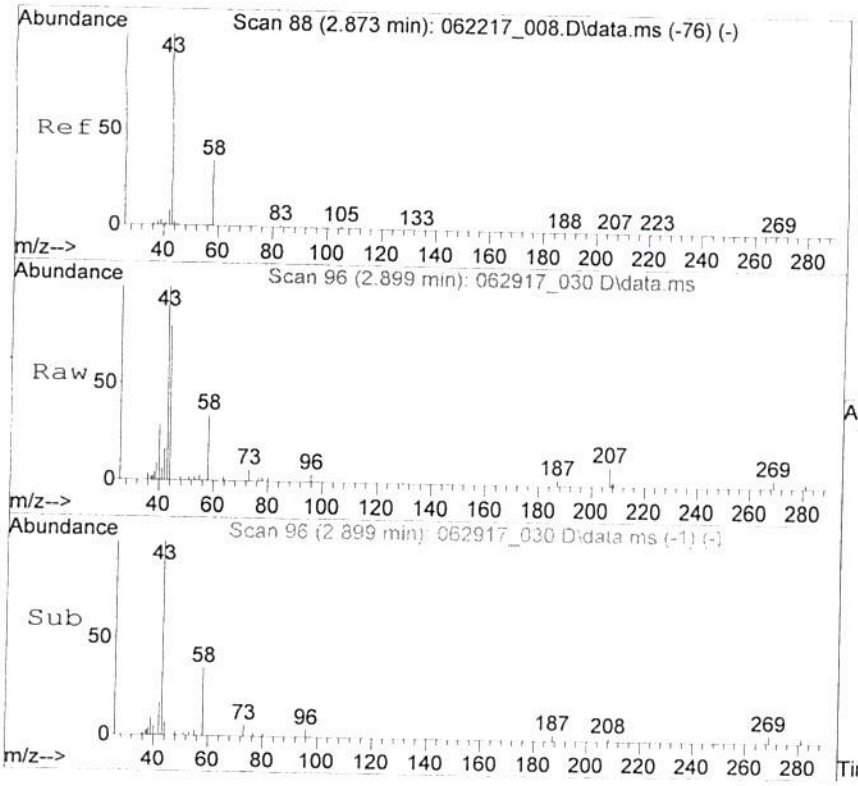
Data Path : D:\Data\Angie\VP1262\
Data File : 062917_030.D
Acq On : 29 Jun 2017 8:49 pm
Operator : AH
Sample : NE39180
Misc : 1uL
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 05 14:37:45 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Wed Jul 05 14:38:04 2017

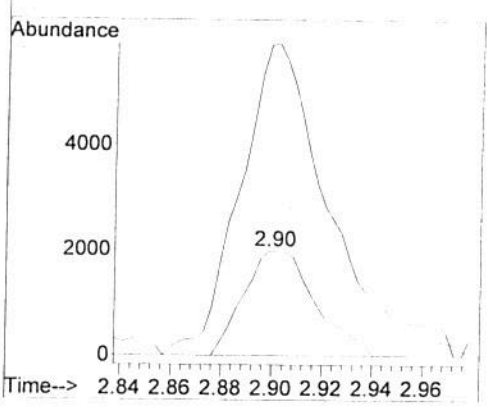
HH VP1262 07/20/2017

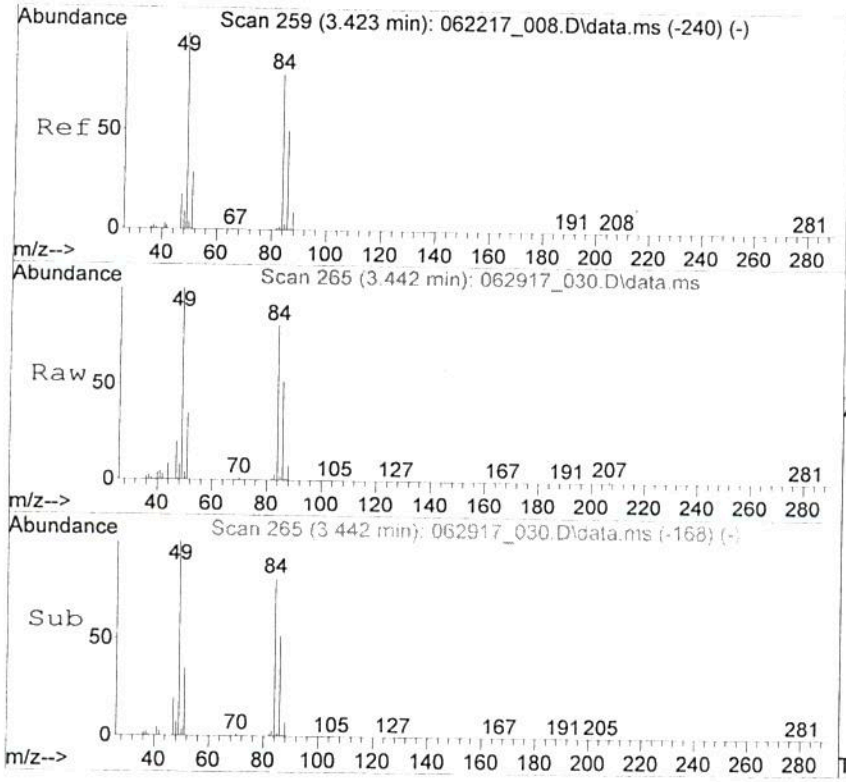


#4
Acetone
Concen: 20.50 ng
RT: 2.90 min Scan# 96
Delta R.T. -0.003 min
Lab File: 062917_030.D
Acq: 29 Jun 2017 8:49 pm

Tgt Ion: 58 Resp: 3904

Ion	Ratio	Lower	Upper
58	100		
43	365.0	277.1	415.7

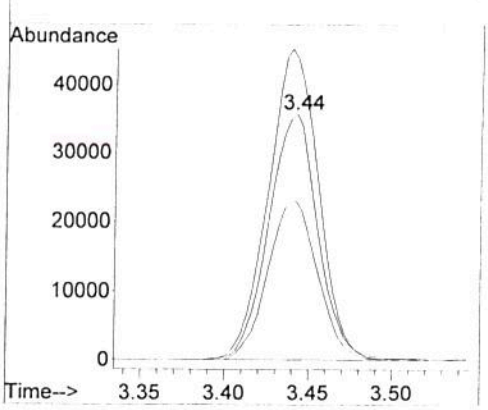




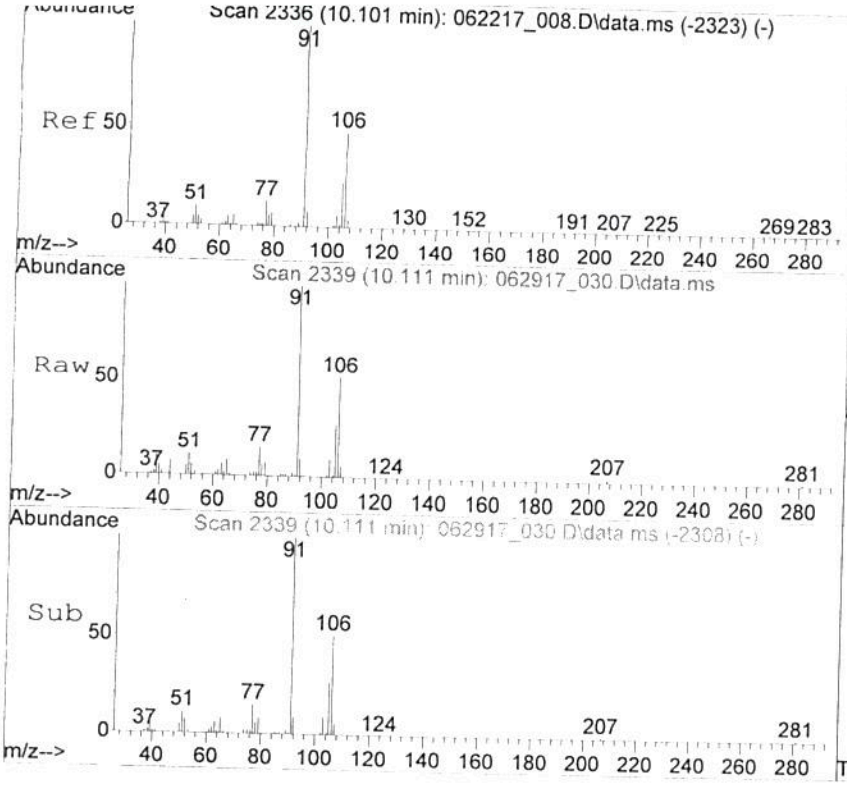
#6
Methylene Chloride
Concen: 34.28 ng
RT: 3.44 min Scan# 265
Delta R.T. -0.003 min
Lab File: 062917_030.D
Acq: 29 Jun 2017 8:49 pm

Tgt Ion: 84 Resp: 72808

Ion	Ratio	Lower	Upper
84	100		
86	65.6	50.7	76.1
49	129.9	117.4	176.0



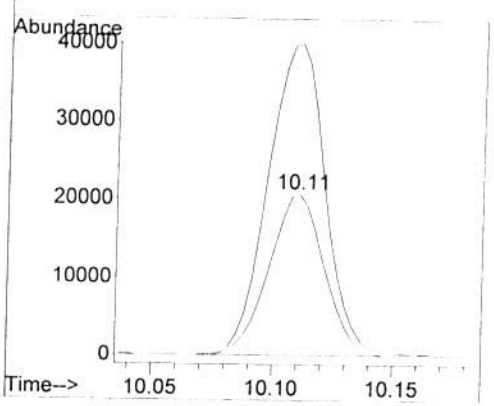
AMH VP1262 07/20/2017



#35
m- &/or p-Xylene
Concen: 10.04 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_030.D
Acq: 29 Jun 2017 8:49 pm

Tgt Ion:106 Resp: 33064

Ion	Ratio	Lower	Upper
106	100		
91	200.1	170.2	255.2



AMN UP1262 07/20/2017

D:\Data\Angie\VP1262\062917_031.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 21:13	uL purged =	0.10
Data File Name:	**062917_031.D**		
Sample Name:	NE39181		

		Total Volume (mL) =	**50.0**
mL of Sample in 50 mL water=	**0.001**	**Total Purge Vol (mL)=**	**5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	50.00000
3	1,1-Dichloroethene	0.00	ND	5	50.00000
4	Acetone	18.81	188.127	10	100.00000
5	Carbon disulfide	0.00	ND	5	50.00000
6	Methylene Chloride	29.63	296.331	5	50.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	50.00000
8	Hexane	0.00	ND	5	50.00000
9	1,1-Dichloroethane	0.00	ND	5	50.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	50.00000
11	2-Butanone	0.00	ND	5	50.00000
12	Chloroform	0.00	ND	5	50.00000
13	Tetrahydrofuran	0.00	ND	5	50.00000
14	1,1,1-Trichloroethane	0.00	ND	5	50.00000
15	Carbon tetrachloride	0.00	ND	5	50.00000
17	Benzene	0.00	ND	5	50.00000
18	1,2-Dichloroethane	0.00	ND	5	50.00000
19	Trichloroethene	0.00	ND	5	50.00000
20	1,2-Dichloropropane	0.00	ND	5	50.00000
21	Bromodichloromethane	0.00	ND	5	50.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	50.00000
24	4-Methyl-2-pentanone	3.18	ND	5	50.00000
26	Toluene	0.00	ND	5	50.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	50.00000
28	1,1,2-Trichloroethane	0.00	ND	5	50.00000
29	Tetrachloroethene	0.00	ND	5	50.00000
30	2-Hexanone	0.00	ND	5	50.00000
31	Dibromochloromethane	0.00	ND	5	50.00000
32	1,2-Dibromoethane	0.00	ND	5	50.00000
33	Chlorobenzene	0.00	ND	5	50.00000
34	Ethylbenzene	1.85	ND	5	50.00000
35	m- &/or p-Xylene	9.29	92.855	5	50.00000
36	o-Xylene	2.05	ND	5	50.00000
37	Styrene	0.00	ND	5	50.00000
38	Bromoform	0.00	ND	5	50.00000
39	1,4-Dichlorobenzene-d4	250.00	2500.000	5	50.00000
41	4-Bromofluorobenzene	50.30	502.965	5	50.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	50.00000
43	n-Propylbenzene	0.00	ND	5	50.00000
44	1,3,5-Trimethylbenzene	0.00	ND	5	50.00000
45	1,2,4-Trimethylbenzene	0.00	ND	5	50.00000
46	Isobutylbenzene	1.52	ND	5	50.00000
47	1,3-Dichlorobenzene	0.00	ND	5	50.00000
48	1,4-Dichlorobenzene	0.00	ND	5	50.00000
49	1,2-Dichlorobenzene	0.00	ND	5	50.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	50.00000
51	1,2,4-Trichlorobenzene	0.35	ND	5	50.00000
52	Hexachlorobutadiene	0.00	ND	5	50.00000
53	Naphthalene	3.35	ND	5	50.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:16 AM

AMH VP1262 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_031.D
Acq On : 29 Jun 2017 9:13 pm
Operator : AH
Sample : NE39181
Misc : 1uL
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 05 14:38:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

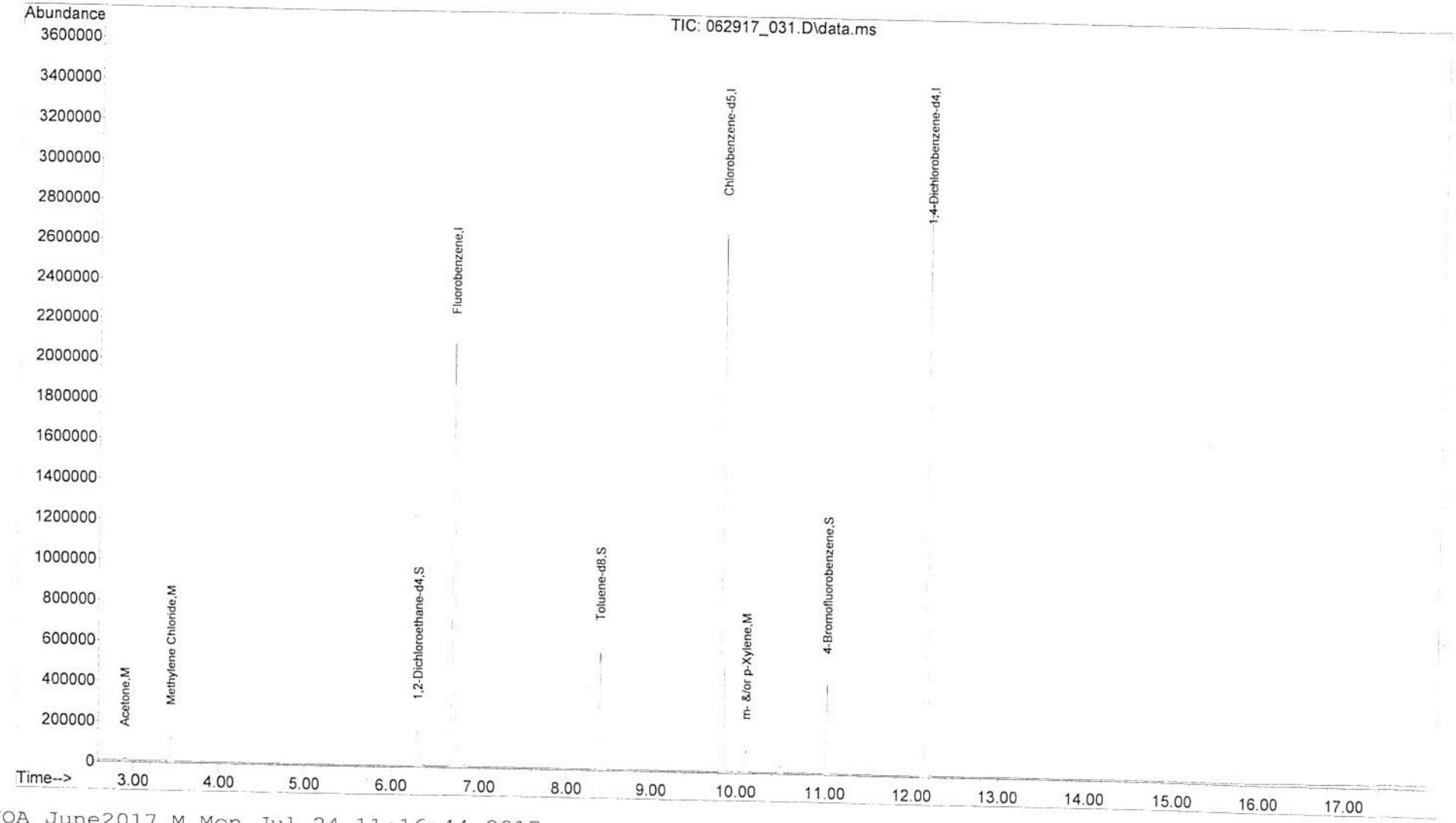
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.71	96	1922976	250.00	ng	0.02
22) Chlorobenzene-d5	9.84	117	1446931	250.00	ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	749365	250.00	ng	0.01
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	6.30	65	114581	51.65	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.30%			
25) Toluene-d8	8.40	98	359799	49.13	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.26%			
41) 4-Bromofluorobenzene	11.01	174	119515	50.30	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.60%			
Target Compounds						Qvalue
4) Acetone	2.90	58	3373	18.81	ng	93
6) Methylene Chloride	3.44	84	63136	29.63	ng	87
35) m- &/or p-Xylene	10.11	106	30395	9.29	ng	89

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

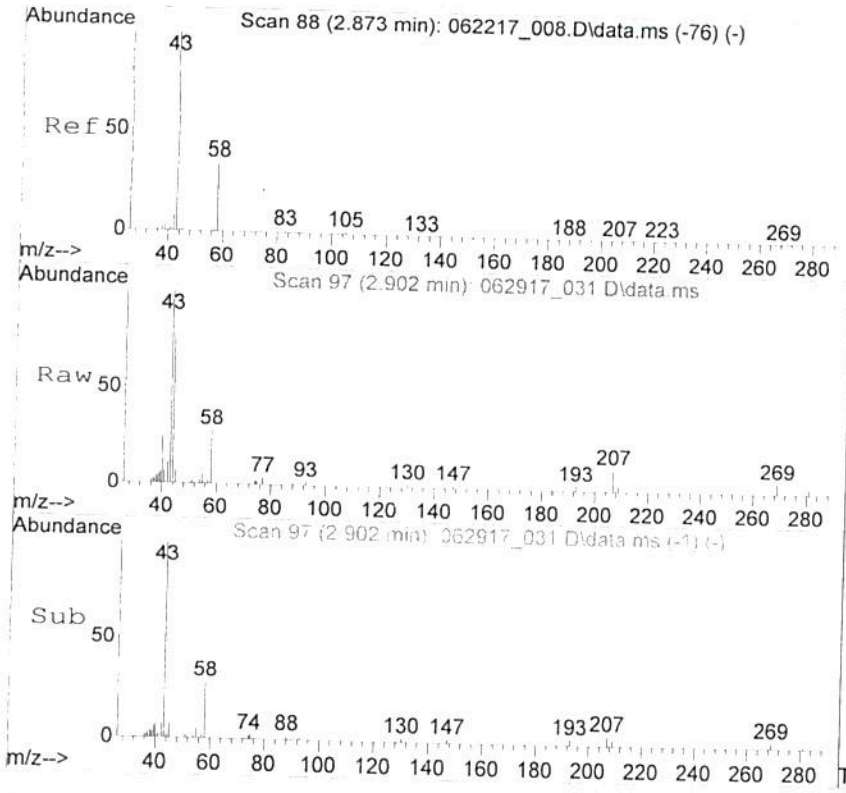
ANH VP1262 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_031.D
Acq On : 29 Jun 2017 9:13 pm
Operator : AH
Sample : NE39181
Misc : 1uL
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 05 14:38:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



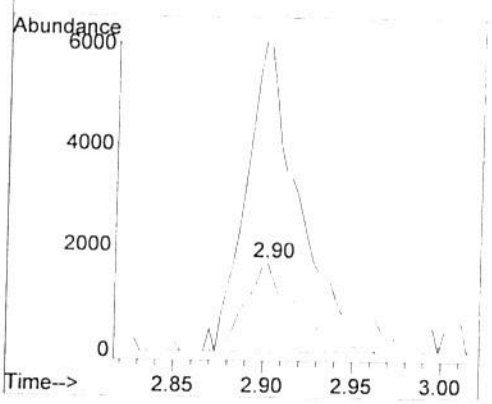
AMH VP1262 07/24/2017

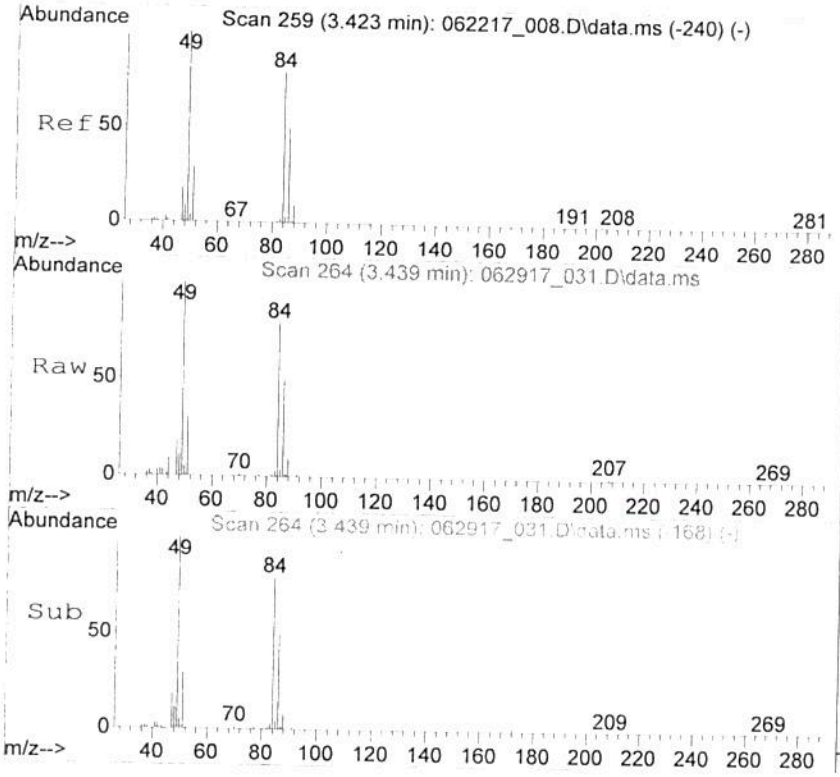


#4
Acetone
Concen: 18.81 ng
RT: 2.90 min Scan# 97
Delta R.T. -0.000 min
Lab File: 062917_031.D
Acq: 29 Jun 2017 9:13 pm

Tgt Ion: 58 Resp: 3373

Ion	Ratio	Lower	Upper
58	100		
43	361.3	277.1	415.7

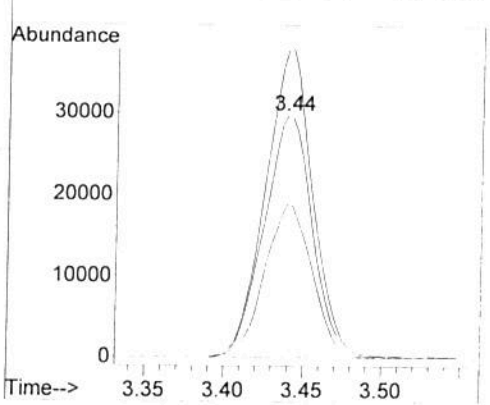




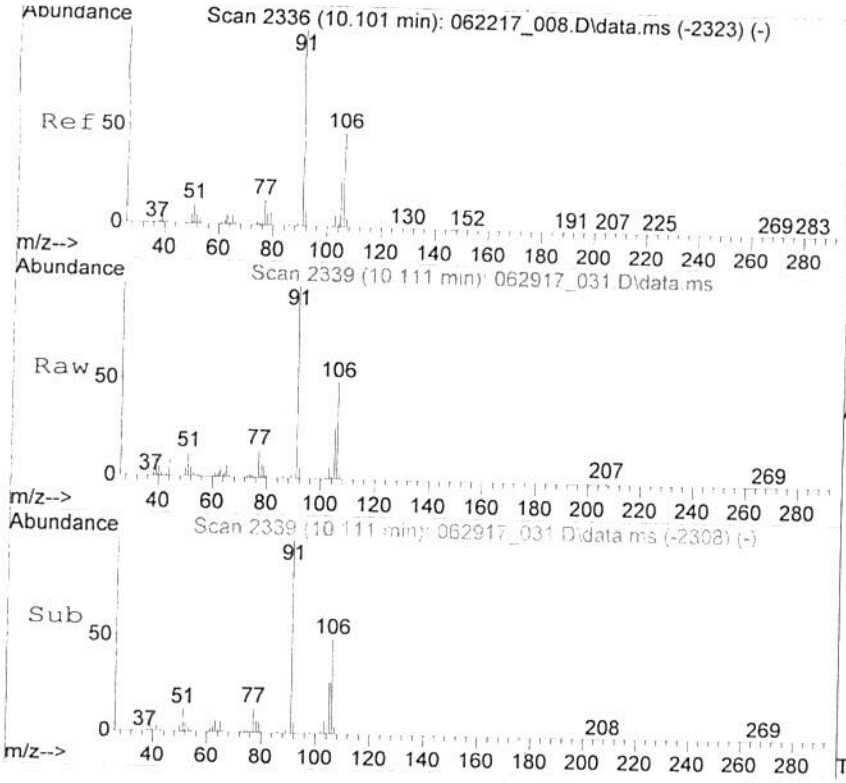
#6
Methylene Chloride
Concen: 29.63 ng
RT: 3.44 min Scan# 264
Delta R.T. -0.006 min
Lab File: 062917_031.D
Acq: 29 Jun 2017 9:13 pm

Tgt Ion: 84 Resp: 63136

Ion	Ratio	Lower	Upper
84	100		
86	62.1	50.7	76.1
49	125.1	117.4	176.0



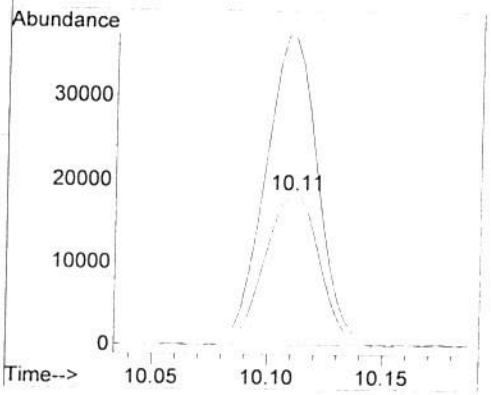
AMH UP1262 07/24/2017



#35
m- &/or p-Xylene
Concen: 9.29 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_031.D
Acq: 29 Jun 2017 9:13 pm

Tgt Ion:106 Resp: 30395

Ion	Ratio	Lower	Upper
106	100		
91	195.8	170.2	255.2



AMH VP1262 07/24/2017

D:\Data\Angie\VP1262\062917_032.D

Project Number: VP1262
Operator: AH
Date Acquired: 6/29/2017 21:38
Data File Name: **062917_032.D**
Sample Name: NE39175

uL purged = **100.00**

mL of Sample in 50 mL water= **1.000**

Total Volume (mL) = **50.0**
Total Purge Vol (mL)= **5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	Limit of Quantitation mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	0.05000
3	1,1-Dichloroethene	0.00	ND	5	0.05000
4	Acetone	13.08	0.131	10	0.10000
5	Carbon disulfide	0.00	ND	5	0.05000
6	Methylene Chloride	3.55	ND	5	0.05000
7	trans-1,2-Dichloroethene	0.00	ND	5	0.05000
8	Hexane	0.00	ND	5	0.05000
9	1,1-Dichloroethane	0.00	ND	5	0.05000
10	cis-1,2-Dichloroethene	0.00	ND	5	0.05000
11	2-Butanone	0.00	ND	5	0.05000
12	Chloroform	0.00	ND	5	0.05000
13	Tetrahydrofuran	0.00	ND	5	0.05000
14	1,1,1-Trichloroethane	0.00	ND	5	0.05000
15	Carbon tetrachloride	0.00	ND	5	0.05000
17	Benzene	0.00	ND	5	0.05000
18	1,2-Dichloroethane	0.00	ND	5	0.05000
19	Trichloroethene	1.82	ND	5	0.05000
20	1,2-Dichloropropane	0.00	ND	5	0.05000
21	Bromodichloromethane	0.00	ND	5	0.05000
23	cis-1,3-Dichloropropene	0.00	ND	5	0.05000
24	4-Methyl-2-pentanone	3.48	ND	5	0.05000
26	Toluene	0.67	ND	5	0.05000
27	trans-1,3-Dichloropropene	0.00	ND	5	0.05000
28	1,1,2-Trichloroethane	0.00	ND	5	0.05000
29	Tetrachloroethene	0.00	ND	5	0.05000
30	2-Hexanone	11.87	0.119	5	0.05000
31	Dibromochloromethane	0.00	ND	5	0.05000
32	1,2-Dibromoethane	0.00	ND	5	0.05000
33	Chlorobenzene	0.00	ND	5	0.05000
34	Ethylbenzene	2.80	ND	5	0.05000
35	m- &/or p-Xylene	16.67	0.167	5	0.05000
36	o-Xylene	0.00	ND	5	0.05000
37	Styrene	3.43	ND	5	0.05000
38	Bromoform	0.00	ND	5	0.05000
39	1,4-Dichlorobenzene-d4	250.00	2.500	5	0.05000
41	4-Bromofluorobenzene	51.32	0.513	5	0.05000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	0.05000
43	n-Propylbenzene	0.00	ND	5	0.05000
44	1,3,5-Trimethylbenzene	0.00	ND	5	0.05000
45	1,2,4-Trimethylbenzene	0.00	ND	5	0.05000
46	Isobutylbenzene	1.40	ND	5	0.05000
47	1,3-Dichlorobenzene	0.00	ND	5	0.05000
48	1,4-Dichlorobenzene	0.00	ND	5	0.05000
49	1,2-Dichlorobenzene	0.00	ND	5	0.05000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	0.05000
51	1,2,4-Trichlorobenzene	0.00	ND	5	0.05000
52	Hexachlorobutadiene	0.00	ND	5	0.05000
53	Naphthalene	3.39	ND	5	0.05000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:18 AM

AMH VP1262 7/24/17

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_032.D
Acq On : 29 Jun 2017 9:38 pm
Operator : AH
Sample : NE39175
Misc : 1mL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 05 14:39:20 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

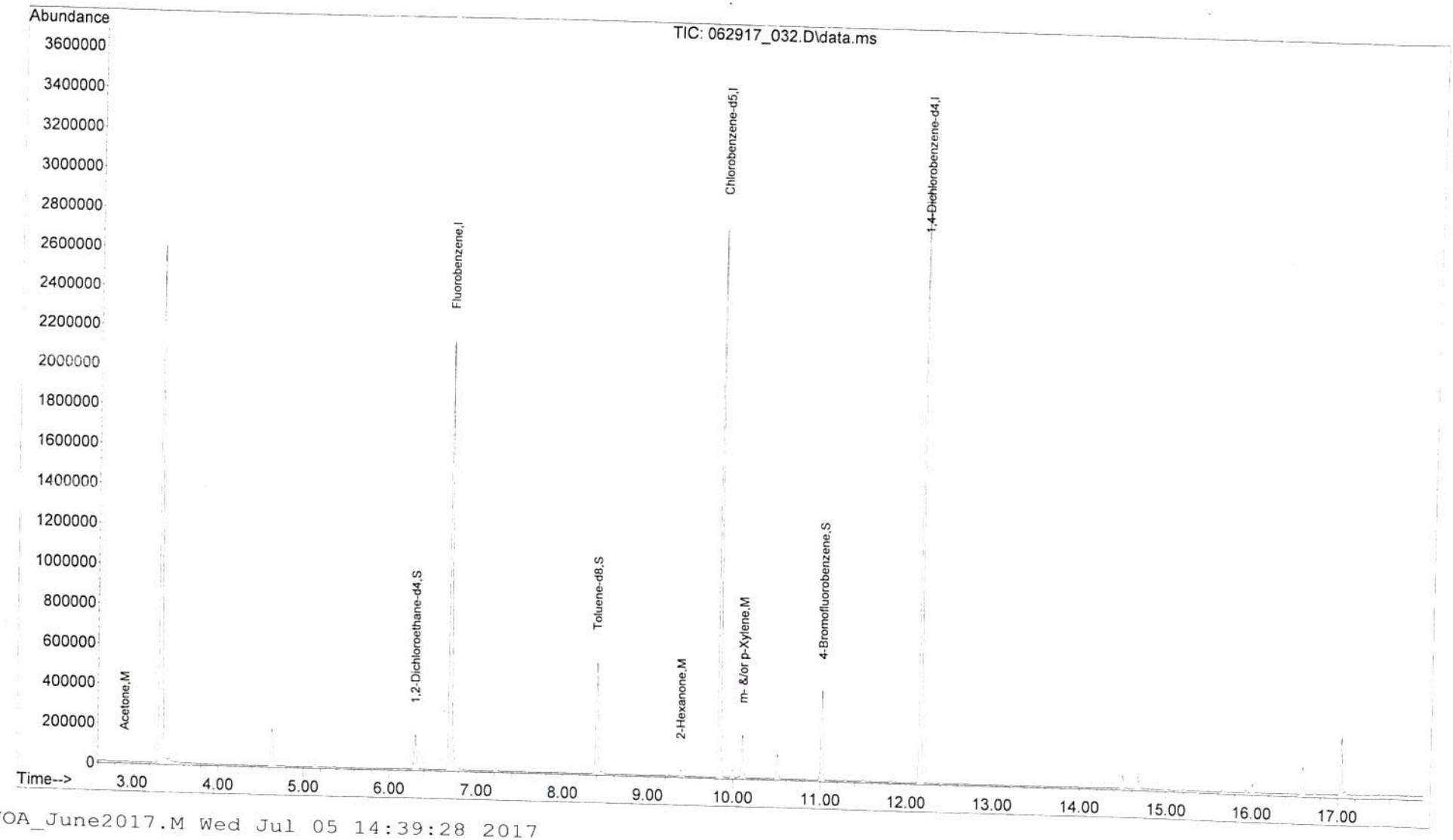
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.71	96	1941475	250.00	ng		0.02
22) Chlorobenzene-d5	9.84	117	1458390	250.00	ng		0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	757309	250.00	ng		0.01
System Monitoring Compounds							
16) 1,2-Dichloroethane-d4	6.30	65	116118	51.85	ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.70%				
25) Toluene-d8	8.40	98	362288	49.08	ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.16%				
41) 4-Bromofluorobenzene	11.01	174	123246	51.32	ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.64%				
Target Compounds							Qvalue
4) Acetone	2.91	58	1538	13.08	ng		69
30) 2-Hexanone	9.38	43	17847	11.87	ng	#	43
35) m- &/or p-Xylene	10.11	106	59264	16.67	ng		94

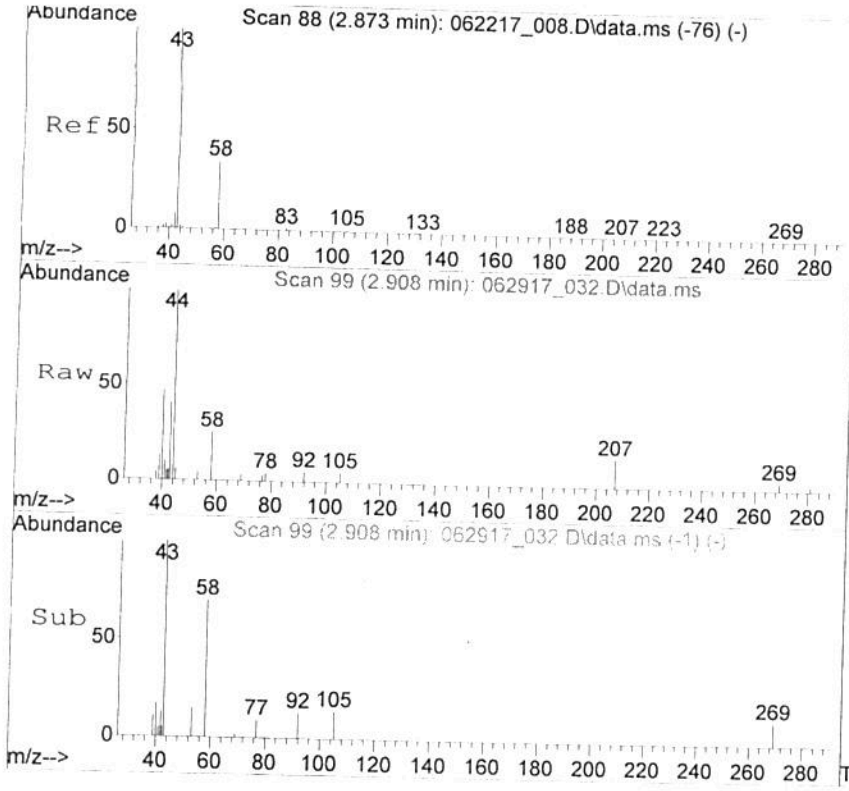
(#) = qualifier out of range (m) = manual integration (+) = signals summed

AMH VP1262 07/20/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_032.D
Acq On : 29 Jun 2017 9:38 pm
Operator : AH
Sample : NE39175
Misc : 1mL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 05 14:39:20 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

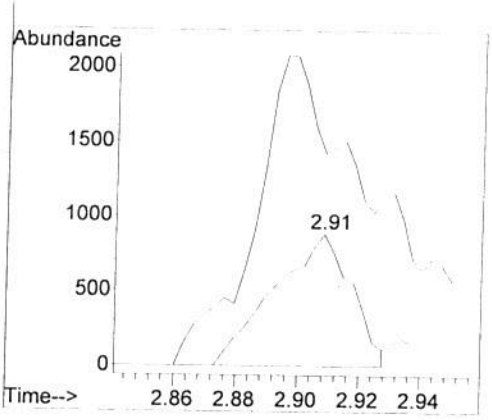


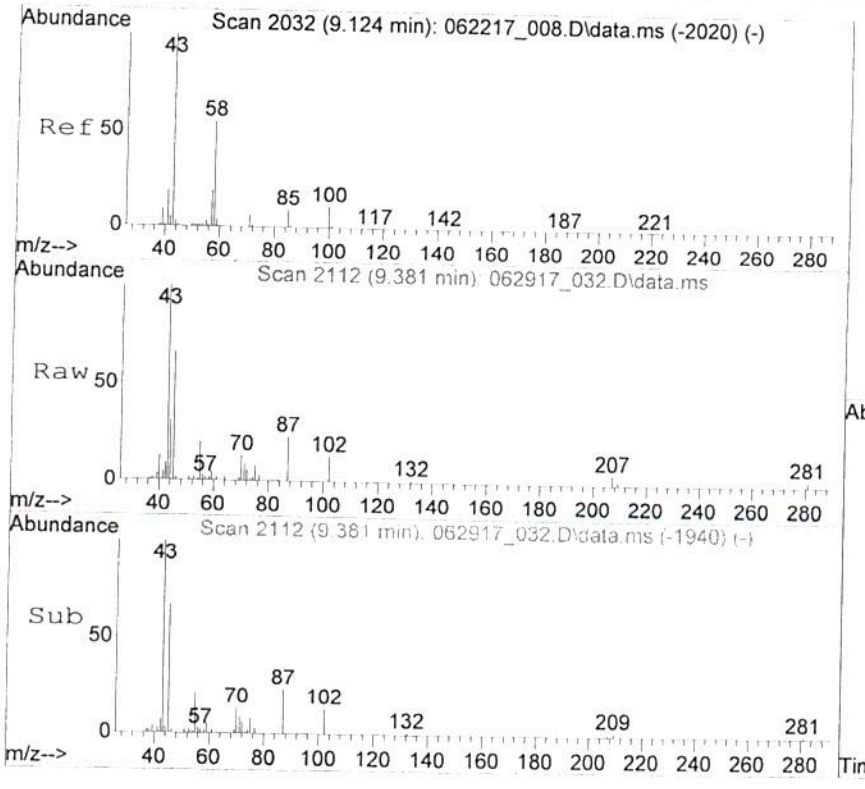


#4
Acetone
Concen: 13.08 ng
RT: 2.91 min Scan# 99
Delta R.T. 0.006 min
Lab File: 062917_032.D
Acq: 29 Jun 2017 9:38 pm

Tgt Ion: 58 Resp: 1538

Ion	Ratio	Lower	Upper
58	100		
43	279.4	277.1	415.7

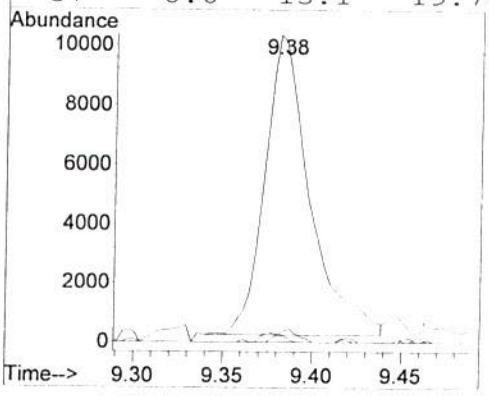




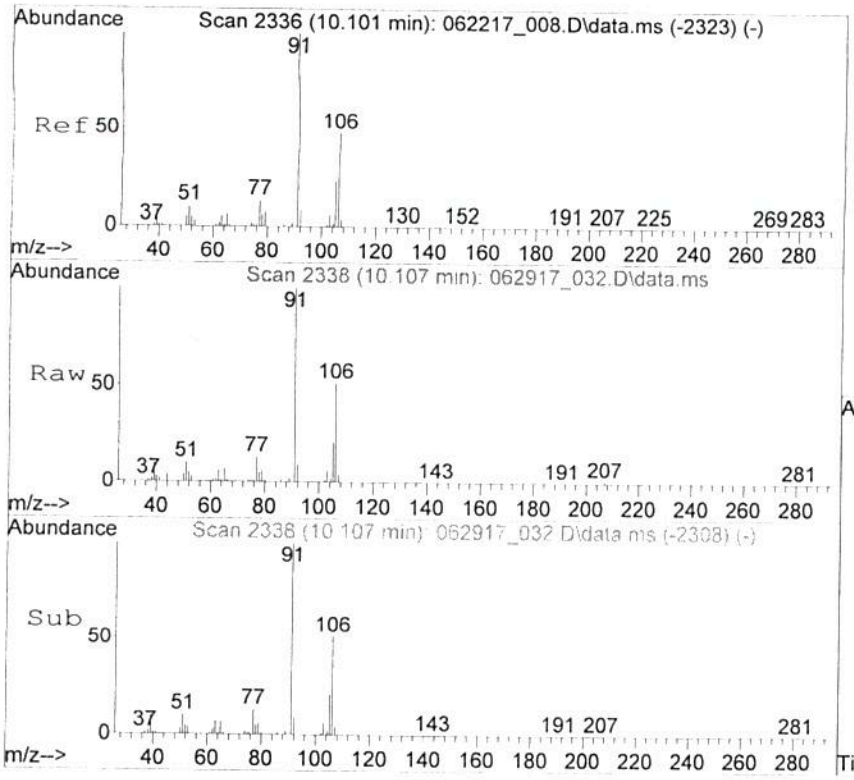
#30
2-Hexanone
Concen: 11.87 ng
RT: 9.38 min Scan# 2112
Delta R.T. 0.232 min
Lab File: 062917_032.D
Acq: 29 Jun 2017 9:38 pm

Tgt Ion: 43 Resp: 17847

Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.8	56.6#
100	0.0	7.7	11.5#
57	0.0	13.1	19.7#



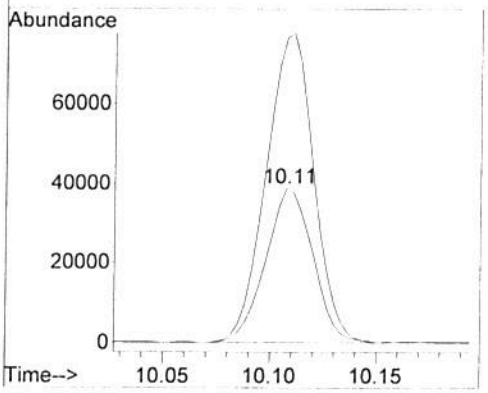
AMH UP1262 07/20/2017



#35
m- &/or p-Xylene
Concen: 16.67 ng
RT: 10.11 min Scan# 2338
Delta R.T. -0.013 min
Lab File: 062917_032.D
Acq: 29 Jun 2017 9:38 pm

Tgt Ion:106 Resp: 59264

Ion	Ratio	Lower	Upper
106	100		
91	202.9	170.2	255.2



AMH VP1252 07/20/2017

D:\Data\Angie\VP1262\062917_033.D

Project Number:	VP1262
Operator:	AH
Date Acquired:	6/29/2017 22:03
Data File Name:	**062917_033.D**
Sample Name:	NE39210

uL purged = **0.10**

mL of Sample in 50 mL water= **0.001** **Total Volume (mL) =** **50.0** **Total Purge Vol (mL)=** **5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	Limit of Quantitation mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	50.00000
3	1,1-Dichloroethene	0.00	ND	5	50.00000
4	Acetone	14.72	147.199	10	100.00000
5	Carbon disulfide	0.00	ND	5	50.00000
6	Methylene Chloride	121.52	1215.210	5	50.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	50.00000
8	Hexane	0.00	ND	5	50.00000
9	1,1-Dichloroethane	0.00	ND	5	50.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	50.00000
11	2-Butanone	0.00	ND	5	50.00000
12	Chloroform	0.00	ND	5	50.00000
13	Tetrahydrofuran	0.00	ND	5	50.00000
14	1,1,1-Trichloroethane	0.00	ND	5	50.00000
15	Carbon tetrachloride	0.00	ND	5	50.00000
17	Benzene	0.00	ND	5	50.00000
18	1,2-Dichloroethane	0.00	ND	5	50.00000
19	Trichloroethene	0.00	ND	5	50.00000
20	1,2-Dichloropropane	0.00	ND	5	50.00000
21	Bromodichloromethane	0.00	ND	5	50.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	50.00000
24	4-Methyl-2-pentanone	3.76	ND	5	50.00000
26	Toluene	0.00	ND	5	50.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	50.00000
28	1,1,2-Trichloroethane	0.00	ND	5	50.00000
29	Tetrachloroethene	0.00	ND	5	50.00000
30	2-Hexanone	2.42	ND	5	50.00000
31	Dibromochloromethane	0.00	ND	5	50.00000
32	1,2-Dibromoethane	0.00	ND	5	50.00000
33	Chlorobenzene	0.00	ND	5	50.00000
34	Ethylbenzene	8.49	84.870	5	50.00000
35	m- &/or p-Xylene	37.64	376.360	5	50.00000
36	o-Xylene	9.33	93.320	5	50.00000
37	Styrene	3.49	ND	5	50.00000
38	Bromoform	0.00	ND	5	50.00000
39	1,4-Dichlorobenzene-d4	250.00	2500.000	5	50.00000
41	4-Bromofluorobenzene	48.74	487.392	5	50.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	50.00000
43	n-Propylbenzene	0.09	ND	5	50.00000
44	1,3,5-Trimethylbenzene	0.00	ND	5	50.00000
45	1,2,4-Trimethylbenzene	0.00	ND	5	50.00000
46	Isobutylbenzene	1.51	ND	5	50.00000
47	1,3-Dichlorobenzene	0.00	ND	5	50.00000
48	1,4-Dichlorobenzene	0.00	ND	5	50.00000
49	1,2-Dichlorobenzene	0.00	ND	5	50.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	50.00000
51	1,2,4-Trichlorobenzene	0.00	ND	5	50.00000
52	Hexachlorobutadiene	0.00	ND	5	50.00000
53	Naphthalene	0.00	ND	5	50.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:20 AM

AMH VP1262 07/24/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_033.D
Acq On : 29 Jun 2017 10:03 pm
Operator : AH
Sample : NE39210
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 24 11:20:05 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

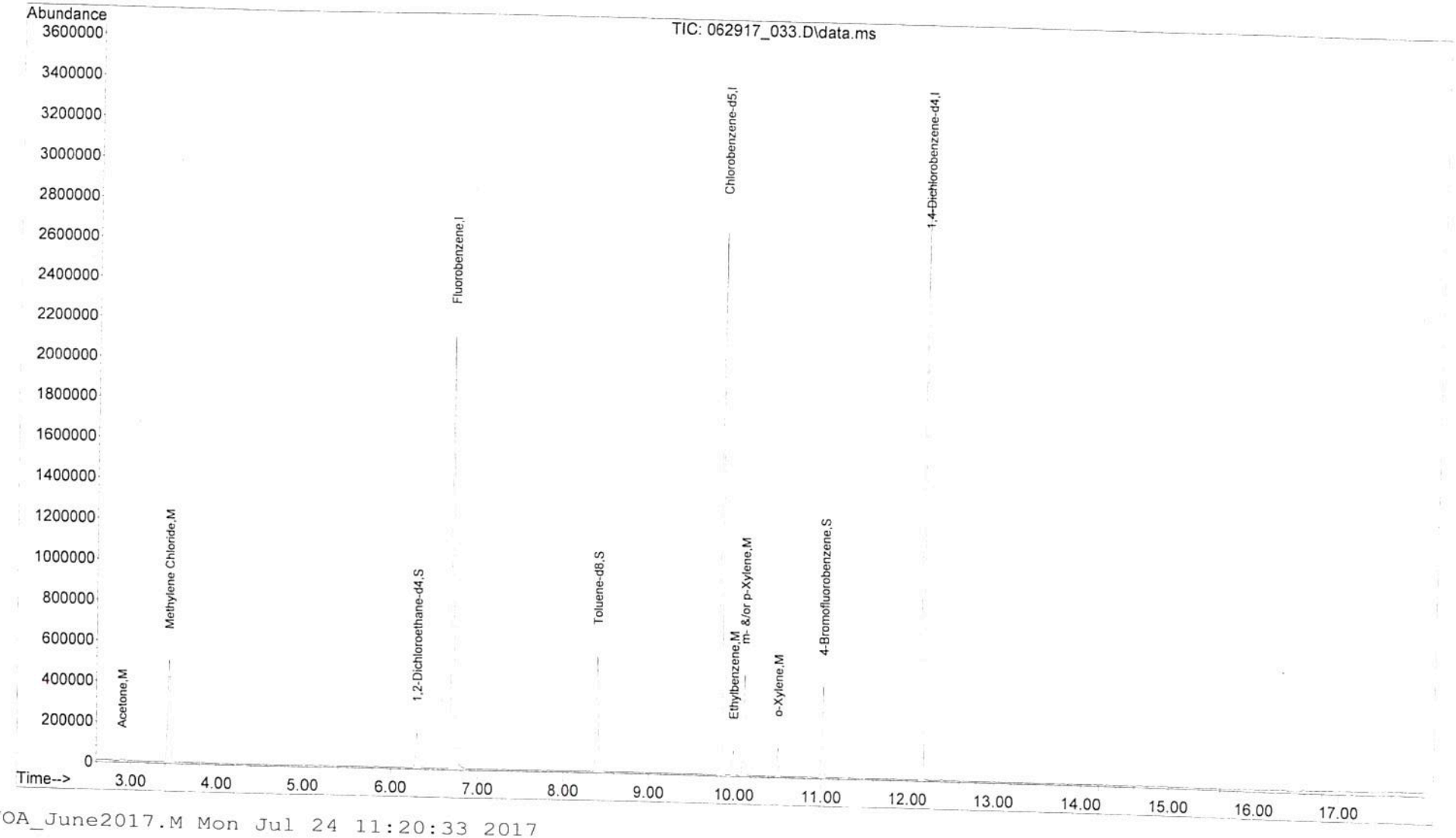
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1942380	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1439709	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	756492	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	114583	51.14 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.28%		
25) Toluene-d8	8.40	98	365742	50.19 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.38%		
41) 4-Bromofluorobenzene	11.01	174	116916	48.74 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.48%		
Target Compounds					Qvalue
4) Acetone	2.90	58	2072m	14.72 ng	
6) Methylene Chloride	3.44	84	261525	121.52 ng	89
34) Ethylbenzene	9.99	91	83359	8.49 ng	100
35) m- &/or p-Xylene	10.11	106	138735	37.64 ng	94
36) o-Xylene	10.50	106	34911	9.33 ng	99

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

AMM VP1262 07/24/2017

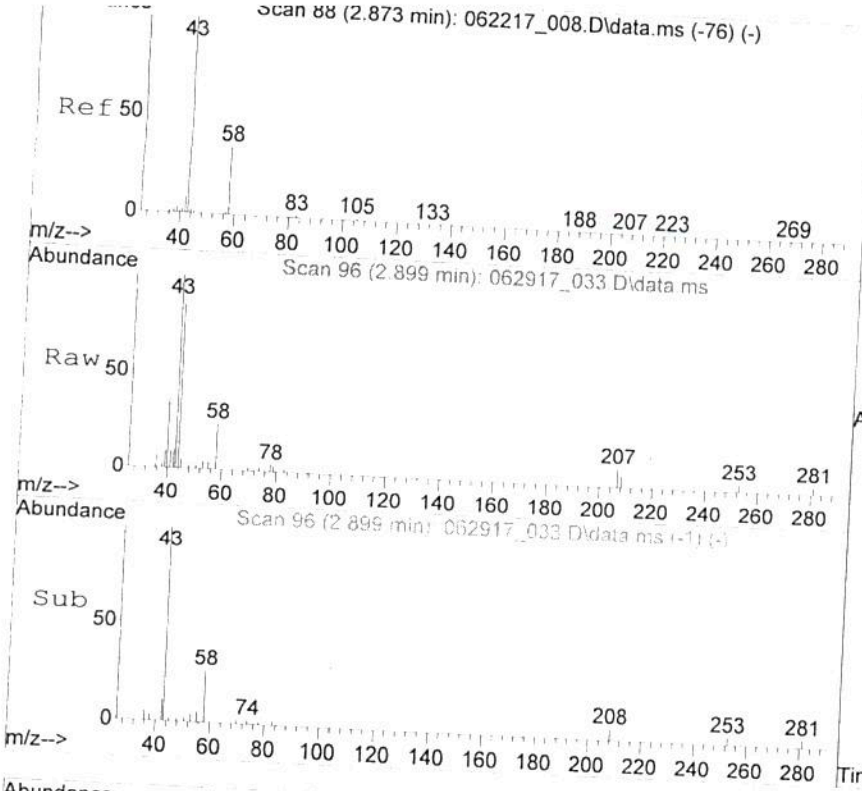
Data Path : D:\Data\Angie\VP1262\
Data File : 062917_033.D
Acq On : 29 Jun 2017 10:03 pm
Operator : AH
Sample : NE39210
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 24 11:20:05 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Mon Jul 24 11:20:33 2017

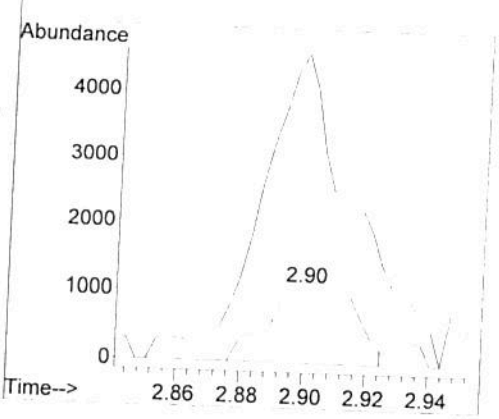
MH UP1262 07/24/2017

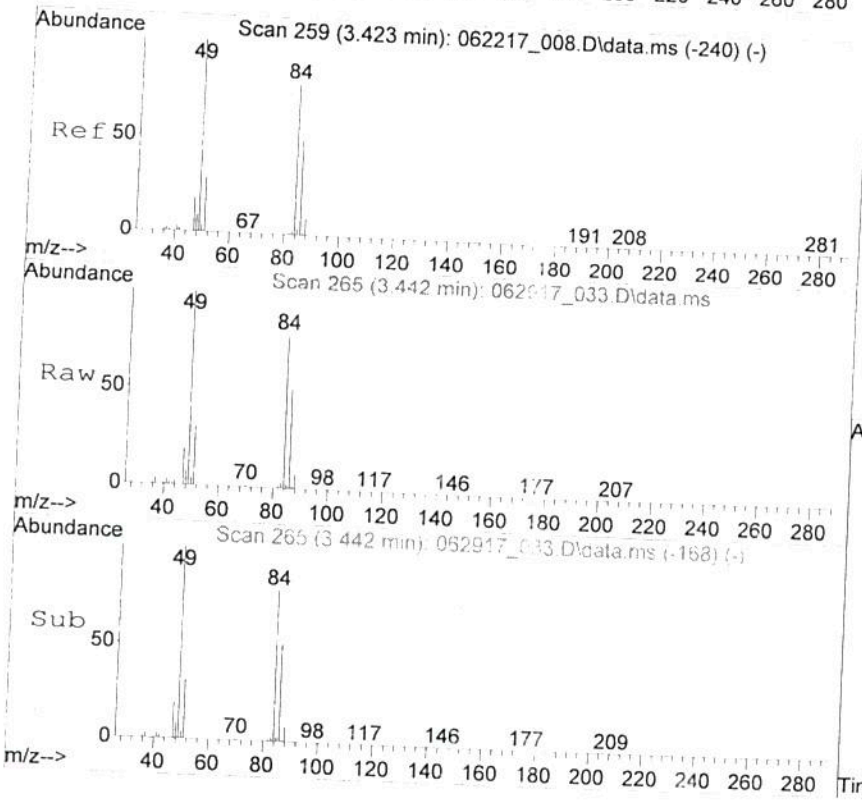


#4
Acetone
Concen: 14.72 ng m
RT: 2.90 min Scan# 96
Delta R.T. -0.003 min
Lab File: 062917_033.D
Acq: 29 Jun 2017 10:03 pm

Tgt Ion: 58 Resp: 2072

Ion	Ratio	Lower	Upper
58	100		
43	437.5	277.1	415.7#

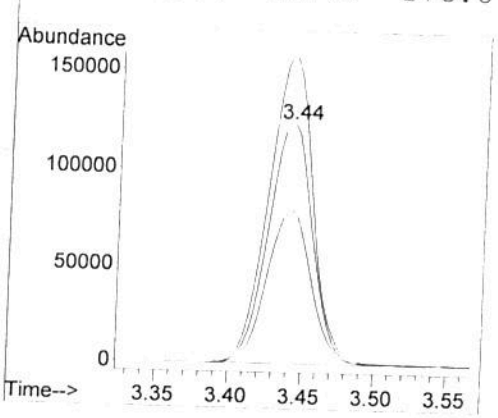


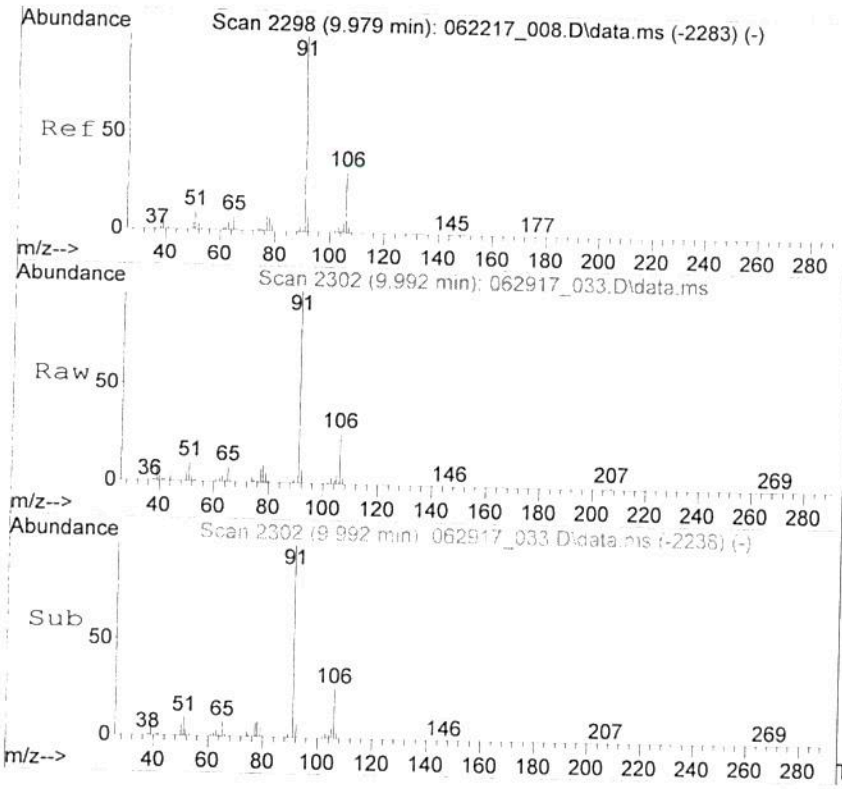


#6
Methylene Chloride
Concen: 121.52 ng
RT: 3.44 min Scan# 265
Delta R.T. -0.003 min
Lab File: 062917_033.D
Acq: 29 Jun 2017 10:03 pm

Tgt Ion: 84 Resp: 261525

Ion	Ratio	Lower	Upper
84	100		
86	64.0	50.7	76.1
49	128.0	117.4	176.0

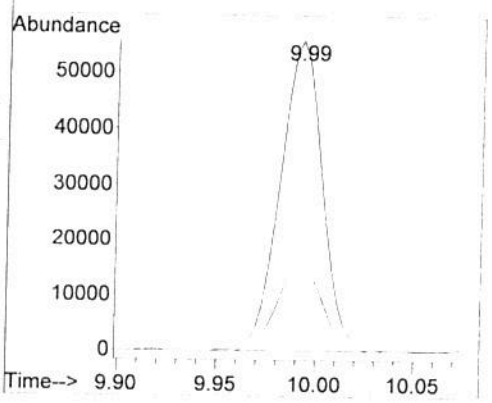


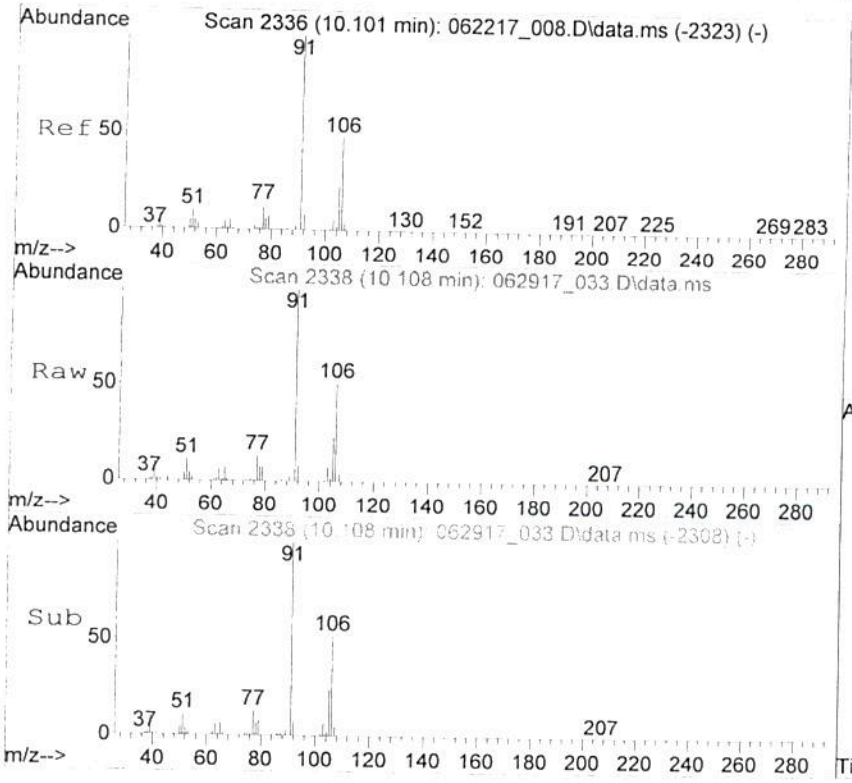


#34
Ethylbenzene
Concen: 8.49 ng
RT: 9.99 min Scan# 2302
Delta R.T. -0.003 min
Lab File: 062917_033.D
Acq: 29 Jun 2017 10:03 pm

Tgt Ion: 91 Resp: 83359

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.0

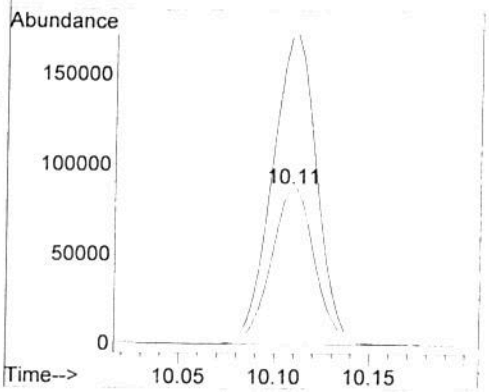




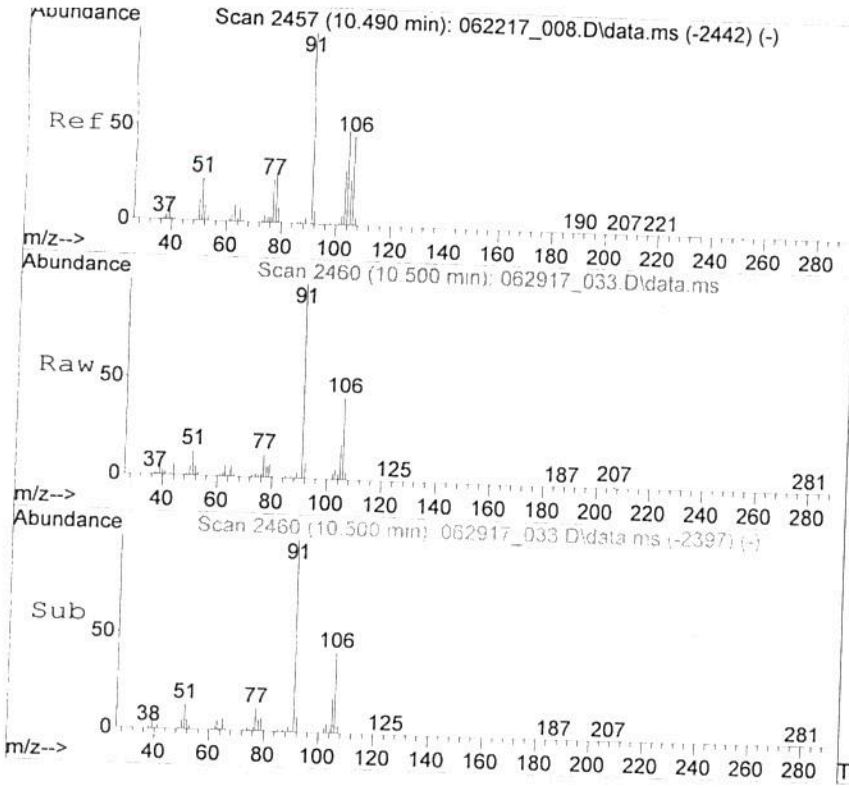
#35
m- &/or p-Xylene
Concen: 37.64 ng
RT: 10.11 min Scan# 2338
Delta R.T. -0.012 min
Lab File: 062917_033.D
Acq: 29 Jun 2017 10:03 pm

Tgt Ion:106 Resp: 138735

Ion	Ratio	Lower	Upper
106	100		
91	202.7	170.2	255.2



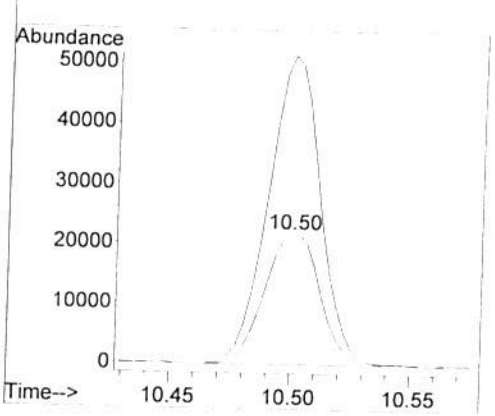
ANH VP1262 07/24/2017



#36
o-Xylene
Concen: 9.33 ng
RT: 10.50 min Scan# 2460
Delta R.T. -0.006 min
Lab File: 062917_033.D
Acq: 29 Jun 2017 10:03 pm

Tgt Ion:106 Resp: 34911

Ion	Ratio	Lower	Upper
106	100		
91	221.3	175.1	262.7



AMH UP1262 07/24/2017

D:\Data\Angie\VP1262\062917_034.D

Project Number:	VP1262		
Operator:	AH		
Date Acquired:	6/29/2017 22:27	uL purged =	1.00
Data File Name:	**062917_034.D**		
Sample Name:	NE39214		

mL of Sample in 50 mL water=	**0.010**	**Total Volume (mL) =**	**50.0**
		Total Purge Vol (mL)=	**5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	Limit of Quantitation mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	5.00000
3	1,1-Dichloroethene	0.00	ND	5	5.00000
4	Acetone	66.79	66.785	10	10.00000
5	Carbon disulfide	0.00	ND	5	5.00000
6	Methylene Chloride	69.23	69.230	5	5.00000
7	trans-1,2-Dichloroethene	0.00	ND	5	5.00000
8	Hexane	0.00	ND	5	5.00000
9	1,1-Dichloroethane	0.00	ND	5	5.00000
10	cis-1,2-Dichloroethene	0.00	ND	5	5.00000
11	2-Butanone	0.00	ND	5	5.00000
12	Chloroform	0.00	ND	5	5.00000
13	Tetrahydrofuran	0.00	ND	5	5.00000
14	1,1,1-Trichloroethane	0.00	ND	5	5.00000
15	Carbon tetrachloride	0.00	ND	5	5.00000
17	Benzene	0.00	ND	5	5.00000
18	1,2-Dichloroethane	0.00	ND	5	5.00000
19	Trichloroethene	0.00	ND	5	5.00000
20	1,2-Dichloropropane	0.00	ND	5	5.00000
21	Bromodichloromethane	0.00	ND	5	5.00000
23	cis-1,3-Dichloropropene	0.00	ND	5	5.00000
24	4-Methyl-2-pentanone	3.41	ND	5	5.00000
26	Toluene	0.44	ND	5	5.00000
27	trans-1,3-Dichloropropene	0.00	ND	5	5.00000
28	1,1,2-Trichloroethane	0.00	ND	5	5.00000
29	Tetrachloroethene	0.00	ND	5	5.00000
30	2-Hexanone	0.00	ND	5	5.00000
31	Dibromochloromethane	0.00	ND	5	5.00000
32	1,2-Dibromoethane	0.00	ND	5	5.00000
33	Chlorobenzene	0.00	ND	5	5.00000
34	Ethylbenzene	34.56	34.557	5	5.00000
35	m- &/or p-Xylene	145.40	145.395	5	5.00000
36	o-Xylene	43.65	43.649	5	5.00000
37	Styrene	4.71	ND	5	5.00000
38	Bromoform	0.00	ND	5	5.00000
39	1,4-Dichlorobenzene-d4	250.00	250.000	5	5.00000
41	4-Bromofluorobenzene	48.63	48.628	5	5.00000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	5.00000
43	n-Propylbenzene	0.00	ND	5	5.00000
44	1,3,5-Trimethylbenzene	0.00	ND	5	5.00000
45	1,2,4-Trimethylbenzene	0.00	ND	5	5.00000
46	Isobutylbenzene	1.48	ND	5	5.00000
47	1,3-Dichlorobenzene	0.00	ND	5	5.00000
48	1,4-Dichlorobenzene	0.00	ND	5	5.00000
49	1,2-Dichlorobenzene	0.00	ND	5	5.00000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	5.00000
51	1,2,4-Trichlorobenzene	0.00	ND	5	5.00000
52	Hexachlorobutadiene	0.00	ND	5	5.00000
53	Naphthalene	0.00	ND	5	5.00000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:21 AM

AMH VP1262 7/24/17

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_034.D
Acq On : 29 Jun 2017 10:27 pm
Operator : AH
Sample : NE39214
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 05 14:42:22 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

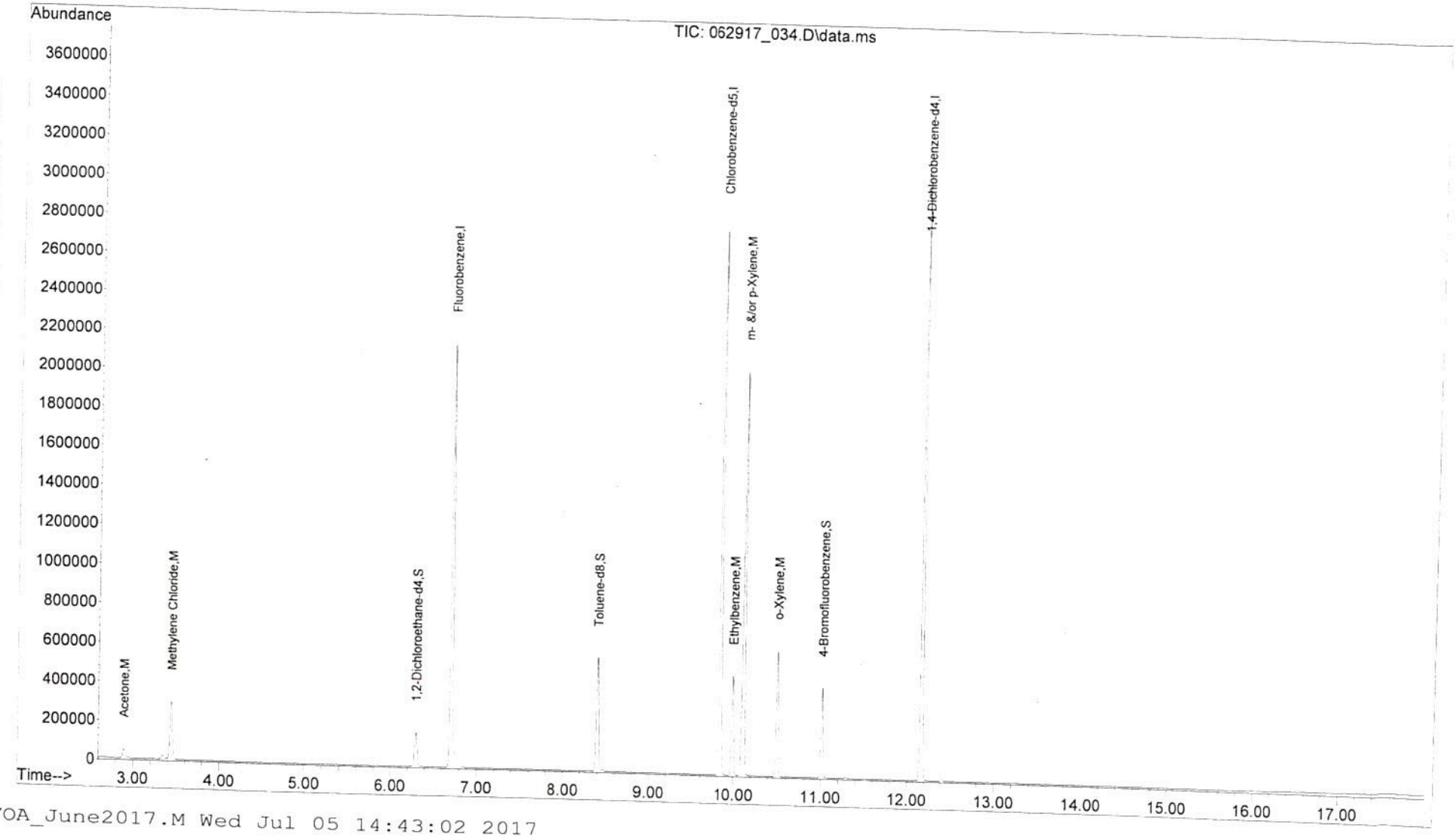
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1960433	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1471541	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	765155	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	117800	52.09 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.18%		
25) Toluene-d8	8.40	98	368733	49.51 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.02%		
41) 4-Bromofluorobenzene	11.01	174	117985	48.63 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.26%		
Target Compounds					Qvalue
4) Acetone	2.89	58	19232	66.78 ng	94
6) Methylene Chloride	3.44	84	150374	69.23 ng	91
34) Ethylbenzene	9.99	91	346924	34.56 ng	98
35) m- &/or p-Xylene	10.11	106	563293	145.40 ng	95
36) o-Xylene	10.50	106	166900	43.65 ng	95

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

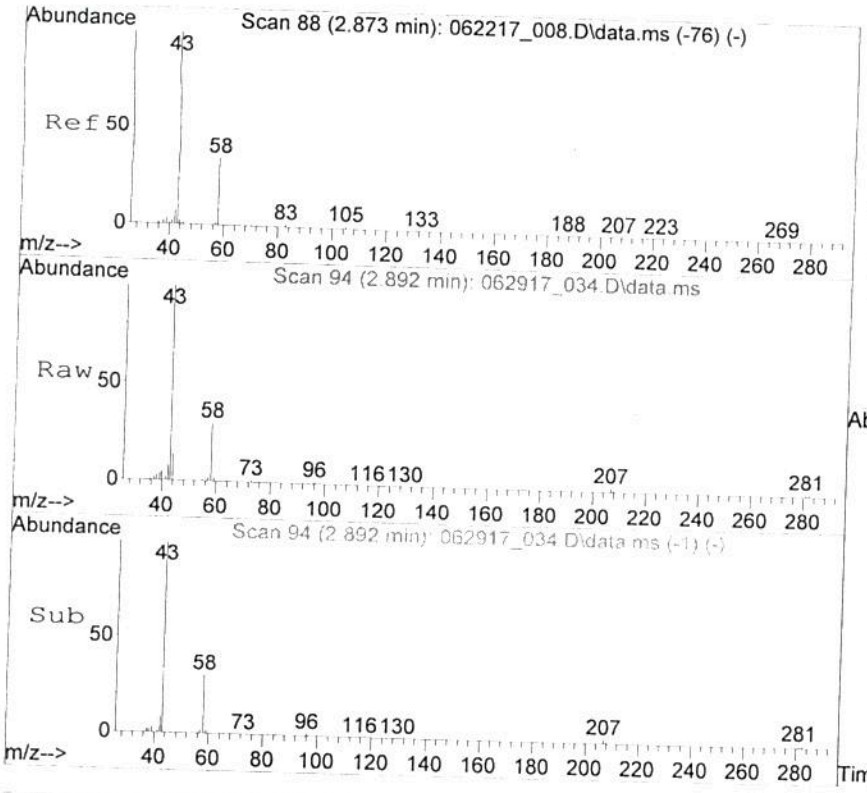
AMH VP1262 07/20/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_034.D
Acq On : 29 Jun 2017 10:27 pm
Operator : AH
Sample : NE39214
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 05 14:42:22 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



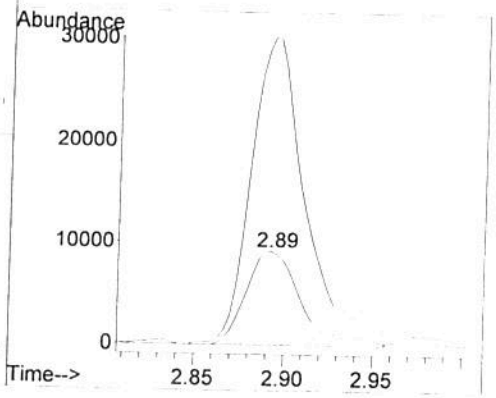
AH VP1262 07/26/2017

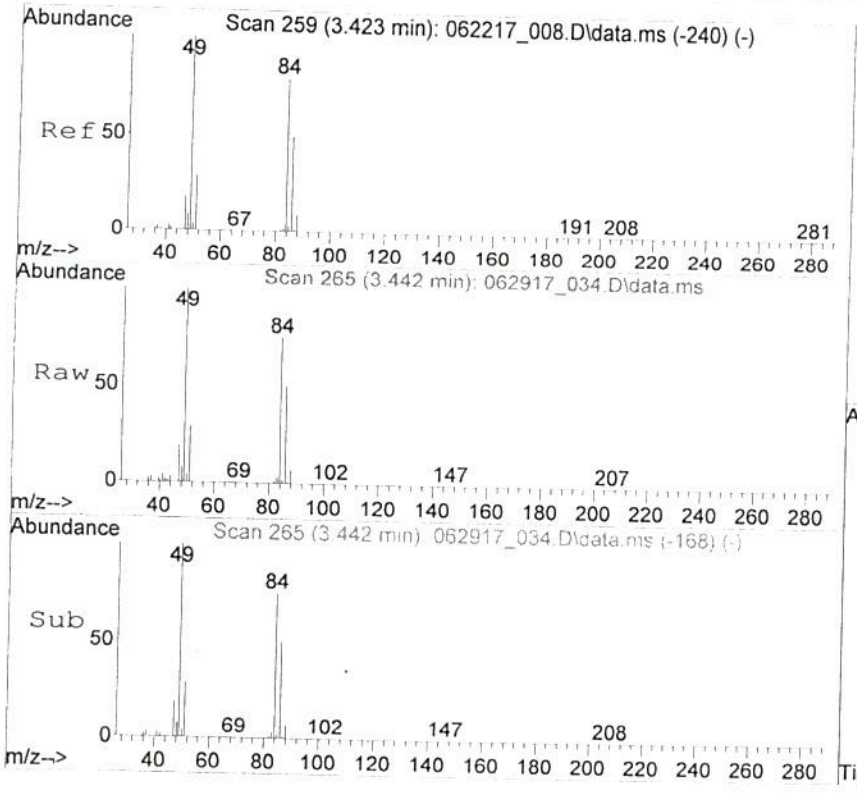


#4
Acetone
Concen: 66.78 ng
RT: 2.89 min Scan# 94
Delta R.T. -0.010 min
Lab File: 062917_034.D
Acq: 29 Jun 2017 10:27 pm

Tgt Ion: 58 Resp: 19232

Ion	Ratio	Lower	Upper
58	100		
43	334.4	277.1	415.7

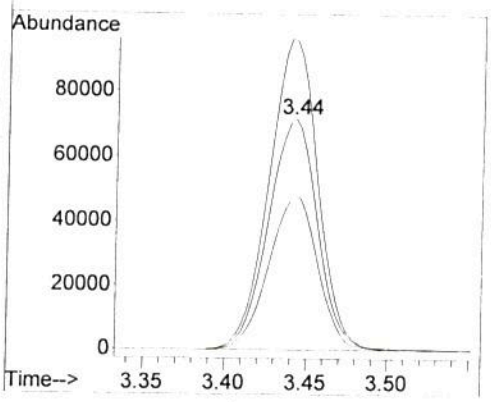




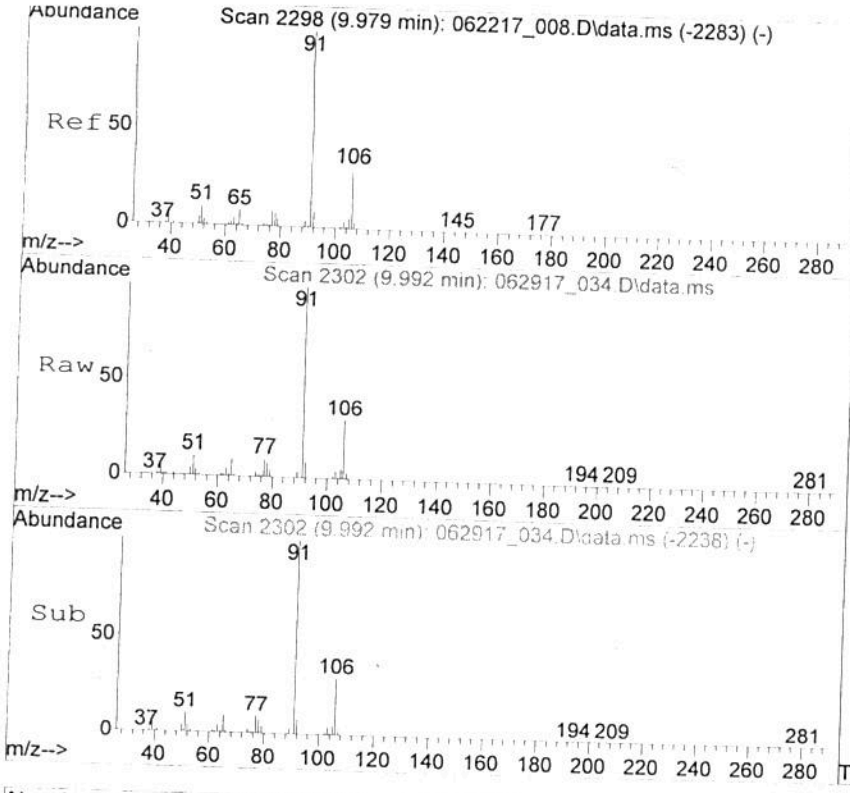
#6
Methylene Chloride
Concen: 69.23 ng
RT: 3.44 min Scan# 265
Delta R.T. -0.003 min
Lab File: 062917_034.D
Acq: 29 Jun 2017 10:27 pm

Tgt Ion: 84 Resp: 150374

Ion	Ratio	Lower	Upper
84	100		
86	66.9	50.7	76.1
49	133.7	117.4	176.0



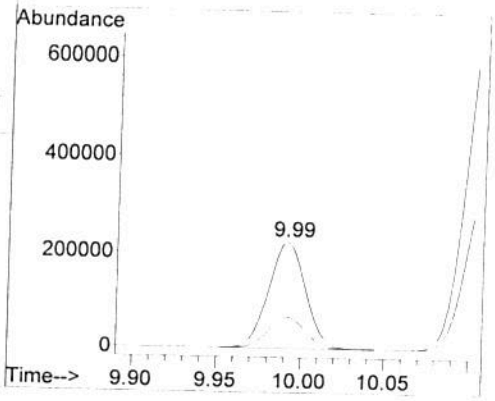
AMH UP1262 07/20/2017

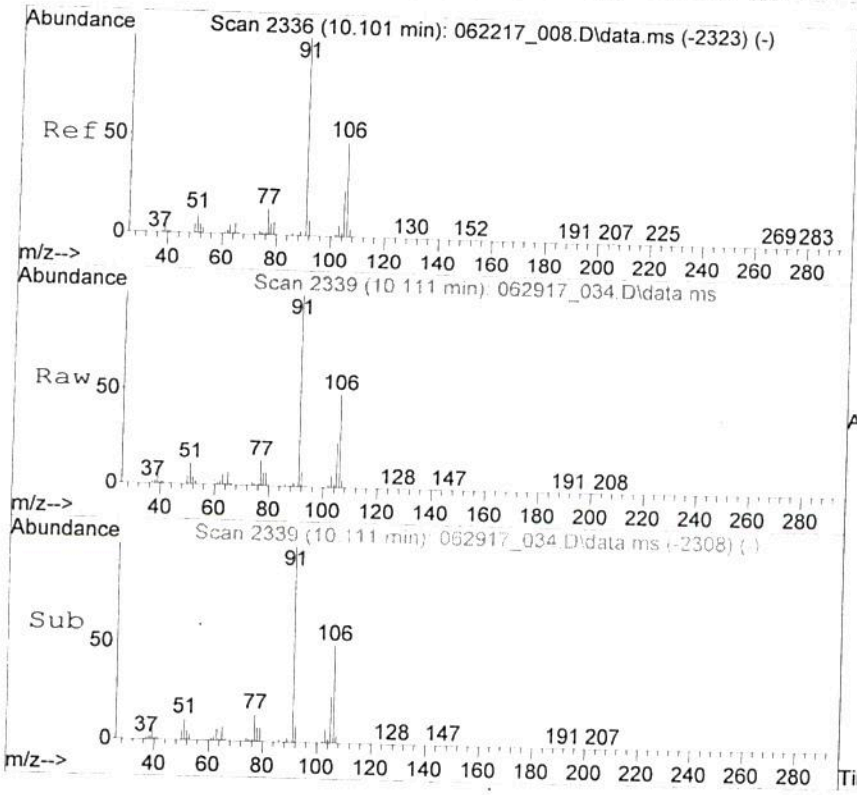


#34
Ethylbenzene
Concen: 34.56 ng
RT: 9.99 min Scan# 2302
Delta R.T. -0.003 min
Lab File: 062917_034.D
Acq: 29 Jun 2017 10:27 pm

Tgt Ion: 91 Resp: 346924

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.4	35.0

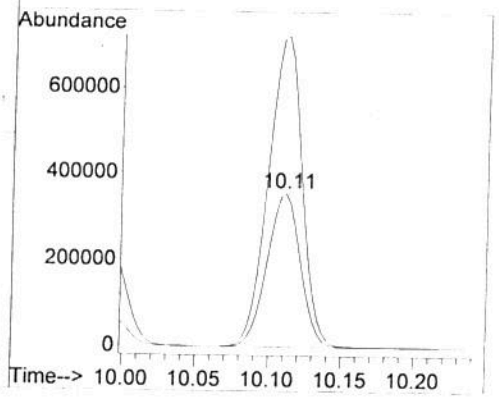




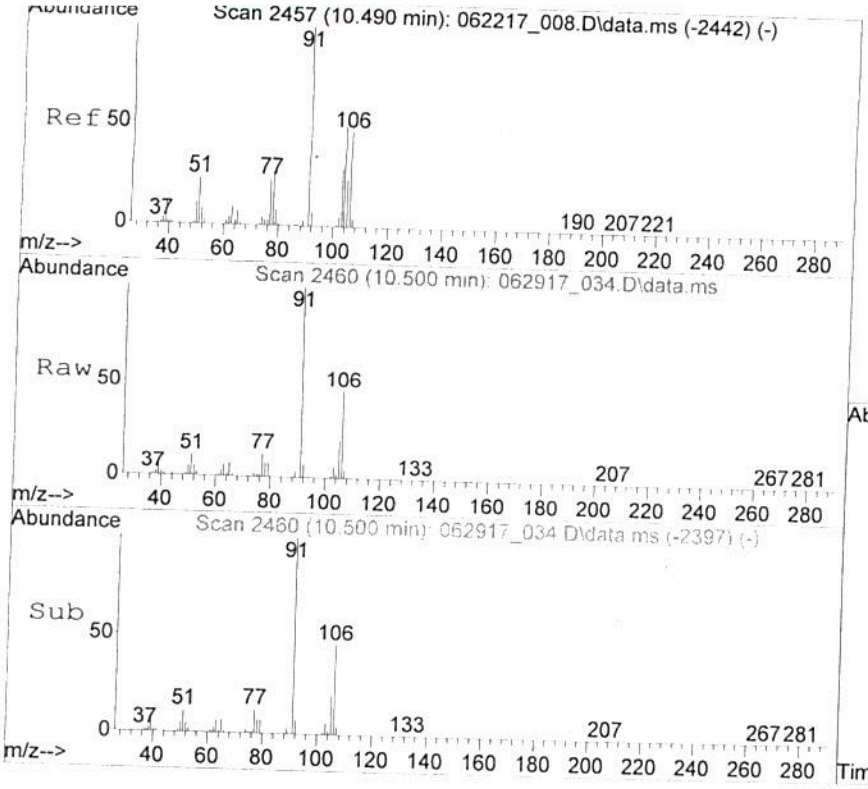
#35
m- &/or p-Xylene
Concen: 145.40 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_034.D
Acq: 29 Jun 2017 10:27 pm

Tgt Ion:106 Resp: 563293

Ion	Ratio	Lower	Upper
106	100		
91	205.5	170.2	255.2



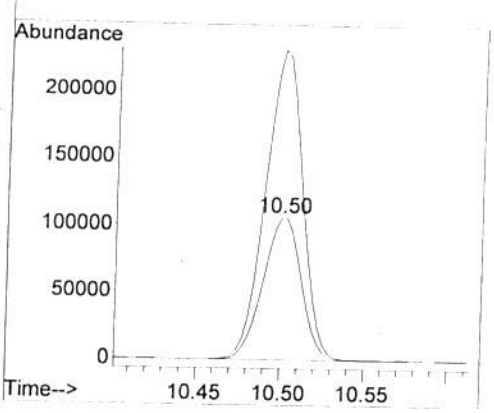
AMH UP1282 07/20/2017



#36
o-Xylene
Concen: 43.65 ng
RT: 10.50 min Scan# 2460
Delta R.T. -0.006 min
Lab File: 062917_034.D
Acq: 29 Jun 2017 10:27 pm

Tgt Ion:106 Resp: 166900

Ion	Ratio	Lower	Upper
106	100		
91	211.4	175.1	262.7



AMH UP1262 07/20/2017

D:\Data\Angie\VP1262\062917_035.D

Project Number:	VP1262
Operator:	AH
Date Acquired:	6/29/2017 22:52
Data File Name:	**062917_035.D**
Sample Name:	NE39218

uL purged = **100.00**

mL of Sample in 50 mL water= **1.000** **Total Volume (mL) =** **50.0** **Total Purge Vol (mL)=** **5.000**

	COMPOUND	Amount ng	Concentration mg/L	Limit of Quantitation ng	Limit of Quantitation mg/L
2	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	ND	5	0.05000
3	1,1-Dichloroethene	0.00	ND	5	0.05000
4	Acetone	16.94	0.169	10	0.10000
5	Carbon disulfide	0.00	ND	5	0.05000
6	Methylene Chloride	3.56	ND	5	0.05000
7	trans-1,2-Dichloroethene	0.00	ND	5	0.05000
8	Hexane	0.00	ND	5	0.05000
9	1,1-Dichloroethane	0.00	ND	5	0.05000
10	cis-1,2-Dichloroethene	0.00	ND	5	0.05000
11	2-Butanone	0.00	ND	5	0.05000
12	Chloroform	0.00	ND	5	0.05000
13	Tetrahydrofuran	0.00	ND	5	0.05000
14	1,1,1-Trichloroethane	0.00	ND	5	0.05000
15	Carbon tetrachloride	0.00	ND	5	0.05000
17	Benzene	0.20	ND	5	0.05000
18	1,2-Dichloroethane	0.00	ND	5	0.05000
19	Trichloroethene	2.06	ND	5	0.05000
20	1,2-Dichloropropane	0.00	ND	5	0.05000
21	Bromodichloromethane	0.00	ND	5	0.05000
23	cis-1,3-Dichloropropene	0.00	ND	5	0.05000
24	4-Methyl-2-pentanone	3.71	ND	5	0.05000
26	Toluene	7.79	0.078	5	0.05000
27	trans-1,3-Dichloropropene	0.00	ND	5	0.05000
28	1,1,2-Trichloroethane	0.00	ND	5	0.05000
29	Tetrachloroethene	0.00	ND	5	0.05000
30	2-Hexanone	0.00	ND	5	0.05000
31	Dibromochloromethane	0.00	ND	5	0.05000
32	1,2-Dibromoethane	0.00	ND	5	0.05000
33	Chlorobenzene	0.00	ND	5	0.05000
34	Ethylbenzene	2.12	ND	5	0.05000
35	m- &/or p-Xylene	11.42	0.114	5	0.05000
36	o-Xylene	3.25	ND	5	0.05000
37	Styrene	0.00	ND	5	0.05000
38	Bromoform	0.00	ND	5	0.05000
39	1,4-Dichlorobenzene-d4	250.00	2.500	5	0.05000
41	4-Bromofluorobenzene	48.18	0.482	5	0.05000
42	1,1,2,2-Tetrachloroethane	0.00	ND	5	0.05000
43	n-Propylbenzene	0.00	ND	5	0.05000
44	1,3,5-Trimethylbenzene	0.00	ND	5	0.05000
45	1,2,4-Trimethylbenzene	0.00	ND	5	0.05000
46	Isobutylbenzene	1.54	ND	5	0.05000
47	1,3-Dichlorobenzene	0.00	ND	5	0.05000
48	1,4-Dichlorobenzene	0.00	ND	5	0.05000
49	1,2-Dichlorobenzene	0.00	ND	5	0.05000
50	1,2-Dibromo-3-chloropropane	0.00	ND	5	0.05000
51	1,2,4-Trichlorobenzene	0.00	ND	5	0.05000
52	Hexachlorobutadiene	0.00	ND	5	0.05000
53	Naphthalene	3.35	ND	5	0.05000

Conc=((Sample amt (ng)/Total Purge Volume (mL))*(Total Volume (mL)/Sample Volume (mL)))*(1mL/1000uL) ng/uL=mg/L

C:\msdchem\custrpt\VP1262AH_MG_L.CRT

7/24/2017 11:23 AM

AHH VP1262 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_035.D
Acq On : 29 Jun 2017 10:52 pm
Operator : AH
Sample : NE39218
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 24 11:22:47 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

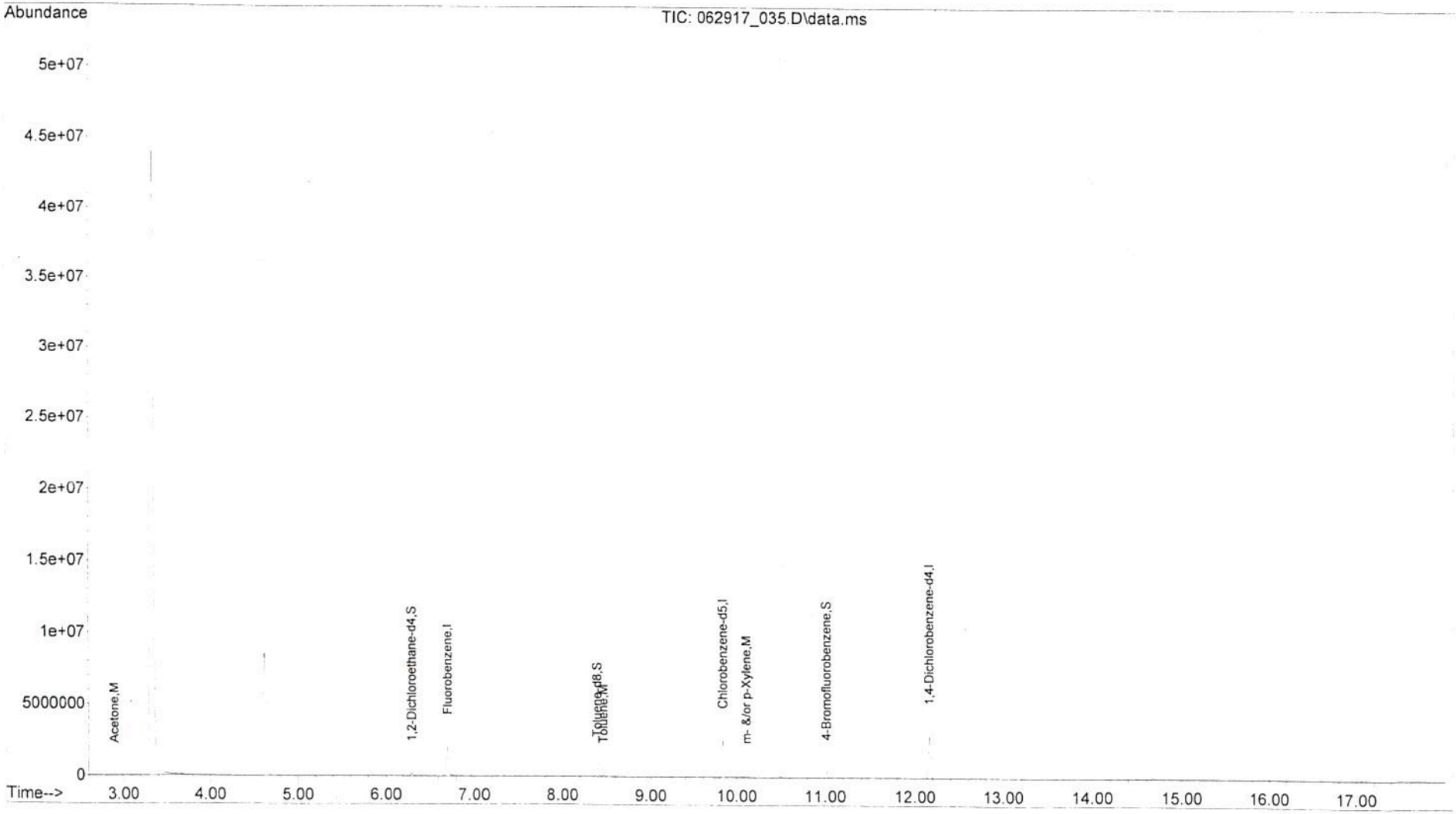
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.71	96	1848201	250.00 ng	0.02
22) Chlorobenzene-d5	9.84	117	1385007	250.00 ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	727746	250.00 ng	0.01
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	6.30	65	110781	51.96 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.92%		
25) Toluene-d8	8.40	98	349606	49.88 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.76%		
41) 4-Bromofluorobenzene	11.01	174	111189	48.18 ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.36%		
Target Compounds					Qvalue
4) Acetone	2.90	58	2662	16.94 ng	94
26) Toluene	8.46	92	38367	7.79 ng	97
35) m- &/or p-Xylene	10.11	106	36936	11.42 ng	98

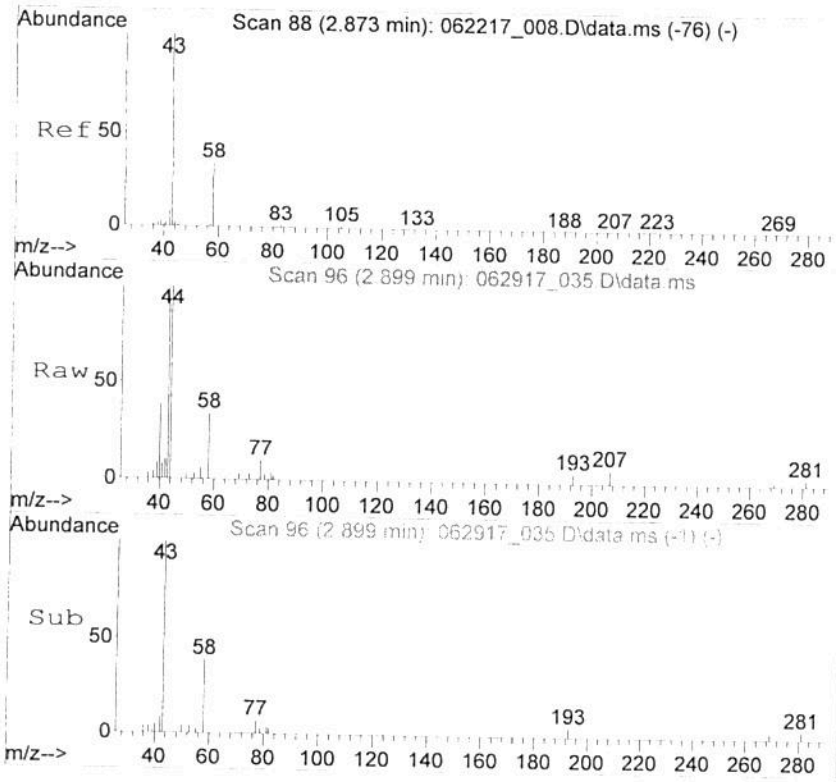
(#) = qualifier out of range (m) = manual integration (+) = signals summed

AMH VP1262 07/24/2017

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_035.D
Acq On : 29 Jun 2017 10:52 pm
Operator : AH
Sample : NE39218
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 24 11:22:47 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

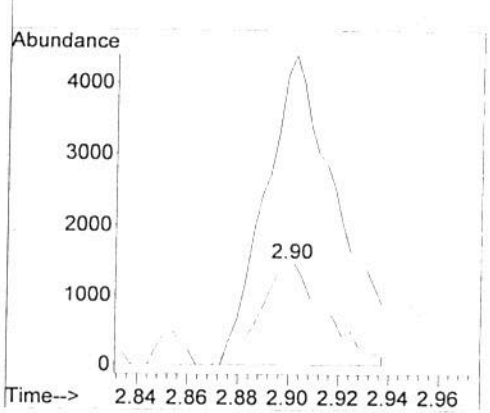


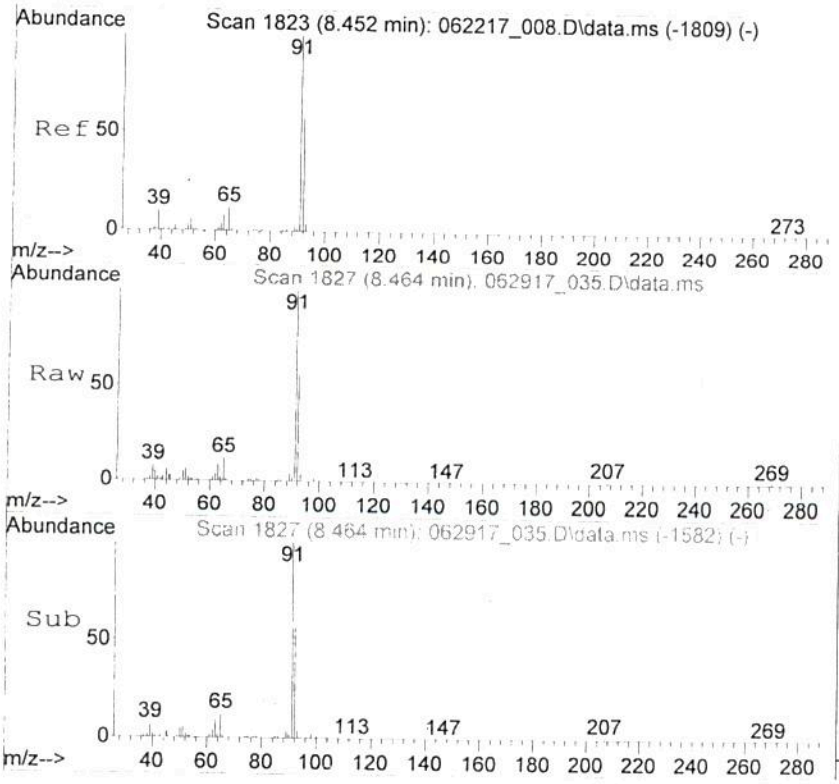


#4
Acetone
Concen: 16.94 ng
RT: 2.90 min Scan# 96
Delta R.T. -0.003 min
Lab File: 062917_035.D
Acq: 29 Jun 2017 10:52 pm

Tgt Ion: 58 Resp: 2662

Ion	Ratio	Lower	Upper
58	100		
43	334.3	277.1	415.7

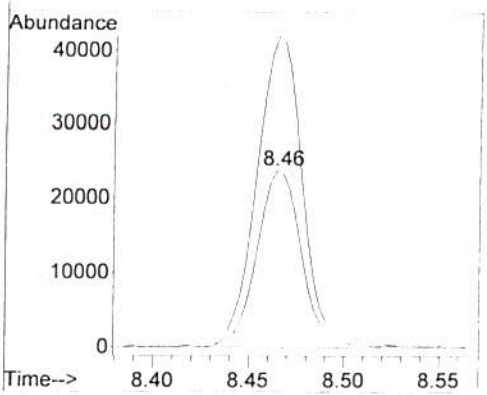




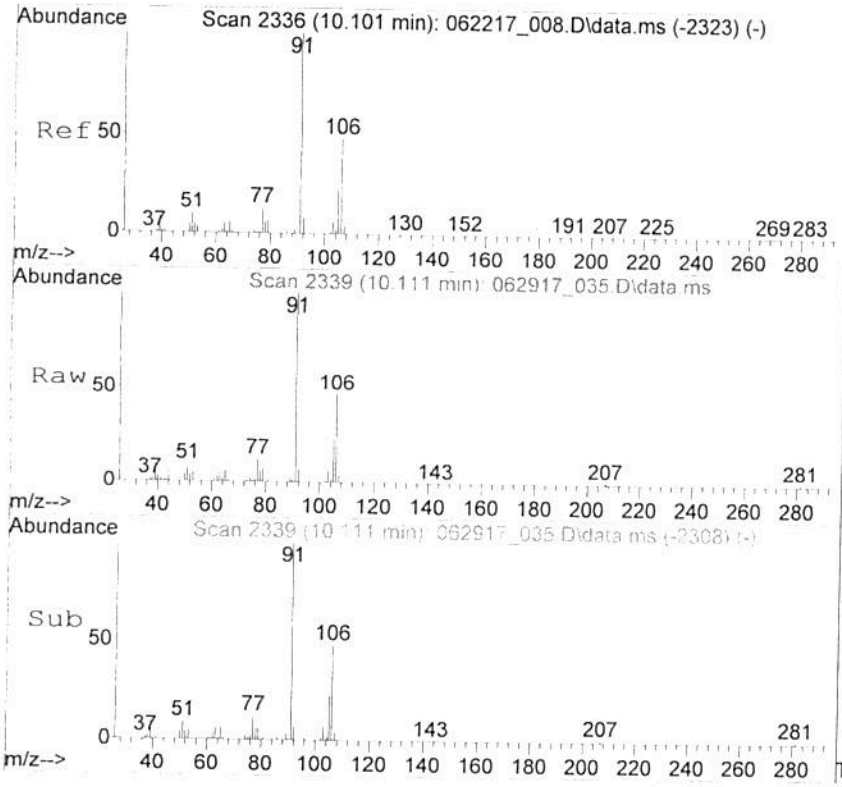
#26
Toluene
Concen: 7.79 ng
RT: 8.46 min Scan# 1827
Delta R.T. -0.003 min
Lab File: 062917_035.D
Acq: 29 Jun 2017 10:52 pm

Tgt Ion: 92 Resp: 38367

Ion	Ratio	Lower	Upper
92	100		
91	182.2	142.2	213.4



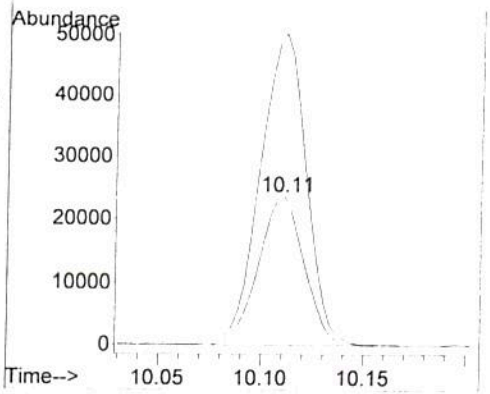
ANL UP1262 07/24/201



#35
m- &/or p-Xylene
Concen: 11.42 ng
RT: 10.11 min Scan# 2339
Delta R.T. -0.009 min
Lab File: 062917_035.D
Acq: 29 Jun 2017 10:52 pm

Tgt Ion:106 Resp: 36936

Ion	Ratio	Lower	Upper
106	100		
91	210.0	170.2	255.2



ANH UP1262 07/24/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_036.D
Acq On : 29 Jun 2017 11:17 pm
Operator : AH
Sample : NE39222
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 30 14:31:17 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.71	96	1907462	250.00	ng	0.02
22) Chlorobenzene-d5	9.84	117	1425521	250.00	ng	0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	737311	250.00	ng	0.01
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	6.30	65	113748	51.69	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.38%			
25) Toluene-d8	8.40	98	358679	49.72	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.44%			
41) 4-Bromofluorobenzene	11.01	174	119085	50.93	ng	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.86%			
Target Compounds						Qvalue
4) Acetone	2.91	58	1559	13.23	ng	98
30) 2-Hexanone	9.38	43	21439	14.23	ng #	43

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

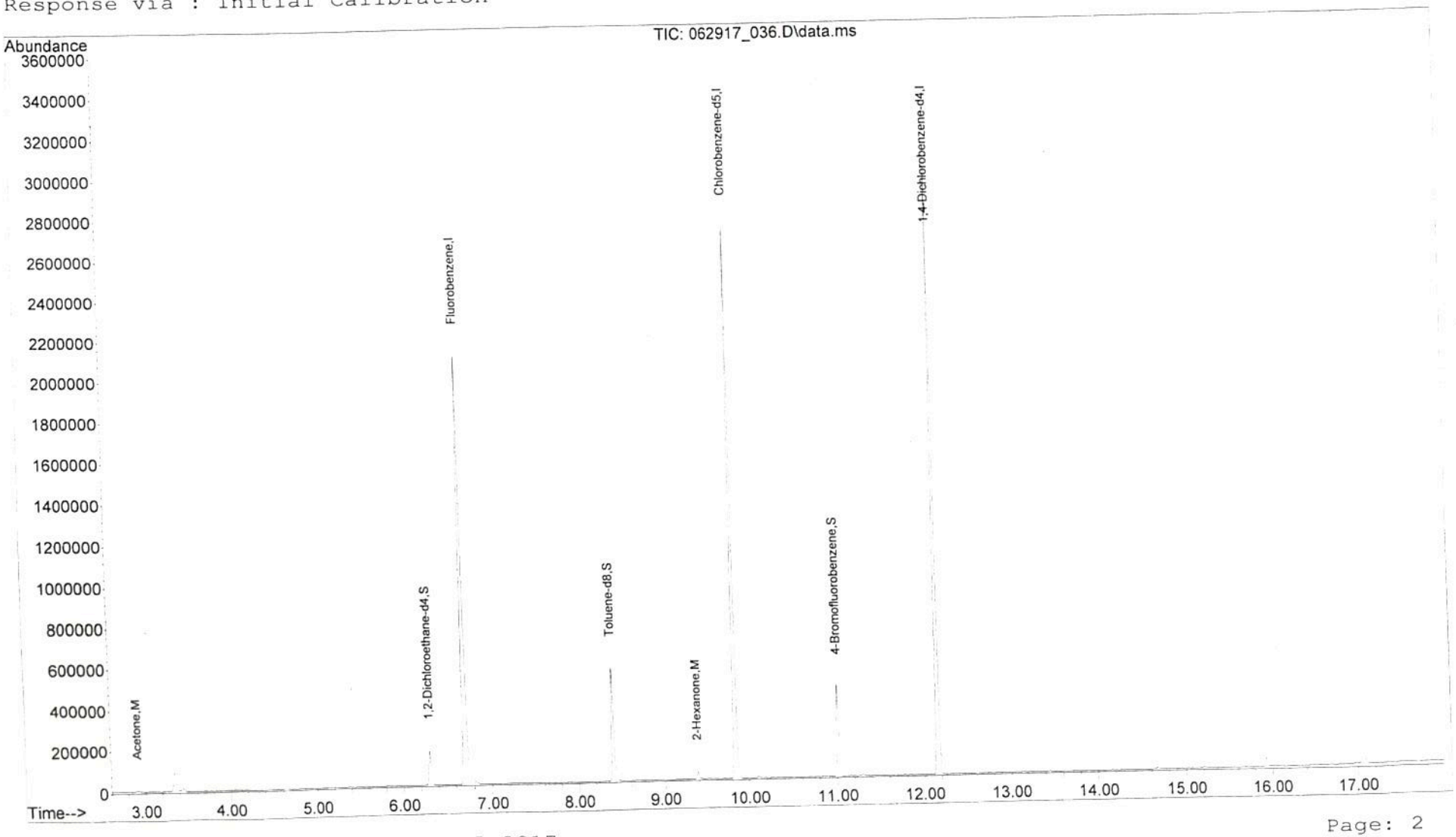
Data not used reanalyzed 5/30/17

AMH VP1262 07/20/2017

Quantitation Report (QT Reviewed)

Data Path : D:\Data\Angie\VP1262\
Data File : 062917_036.D
Acq On : 29 Jun 2017 11:17 pm
Operator : AH
Sample : NE39222
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 30 14:31:17 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration



VOA_June2017.M Wed Jul 05 14:49:55 2017

AHH VP1262 07/20/2017