

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042219\
 Data File : VV010420.D
 Acq On : 22 Apr 2019 18:30
 Operator : SY/MD
 Sample : K2456-02
 Misc : 5.01G/10mL/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GAHQ2

Quant Time: Apr 23 07:00:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:57:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	1325	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	360	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	203	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	557	30.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	122.04%
7) Chloroethane-d5	1.59	69	616	43.38	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	173.52%#
10) 1,1-Dichloroethene-d2	2.14	63	1086	31.86	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	127.44%#
20) 2-Butanone-d5	3.96	46	44	10.31	ug/L	0.04
Spiked Amount	50.000	Range	20 - 135	Recovery	=	20.62%
24) Chloroform-d	4.41	84	913	28.20	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	112.80%
26) 1,2-Dichloroethane-d4	5.08	65	306	15.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	61.60%#
29) Benzene-d6	5.11	84	631	37.96	ug/L	0.02
Spiked Amount	25.000	Range	20 - 135	Recovery	=	151.84%#
33) 1,2-Dichloropropane-d6	6.12	67	539	109.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	439.80%#
37) Toluene-d8	7.37	98	395	23.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.28%
38) trans-1,3-Dichloropropene-	0.00	79	0	0.00	ug/L	
Spiked Amount	25.000	Range	30 - 135	Recovery	=	0.00%#
39) 2-Hexanone-d5	0.00	63	0	0.00	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.00%#
48) 1,1,2,2-Tetrachloroethane-	10.27	84	337	70.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	282.20%#
61) 1,2-Dichlorobenzene-d4	11.67	152	102	13.22	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	52.88%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.26	50	110	6.560	ug/L #	43
6) Bromomethane	1.54	94	91	8.811	ug/L	32
8) Chloroethane	1.57	64	66	5.925	ug/L #	43
12) 1,1-Dichloroethene	2.36	96	45	2.697	ug/L #	1
13) Acetone	2.17	43	43	9.399	ug/L #	41
15) Methyl Acetate	2.24	43	55	8.077	ug/L #	51
16) Methylene chloride	2.54	84	185	9.521	ug/L	84
21) 2-Butanone	4.22	43	41	8.409	ug/L #	51
22) cis-1,2-Dichloroethene	3.84	96	55	3.306	ug/L #	1
43) 4-Methyl-2-pentanone	7.56	43	44	15.129	ug/L #	1
44) Toluene	7.44	91	98	5.096	ug/L	78
49) 2-Hexanone	8.13	43	42	20.341	ug/L #	42
53) Ethylbenzene	9.06	91	143	6.360	ug/L #	42
54) m,p-Xylene	9.18	106	75	8.509	ug/L #	47
55) o-xylene	9.59	106	234	26.653	ug/L	69
56) Styrene	9.62	104	131	9.044	ug/L #	29
59) 1,2,3-Trichloropropane	11.03	75	158	46.866	ug/L #	39

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GAHQ2

Quant Time: Apr 23 07:00:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 06:57:14 2019
Response via : Initial Calibration

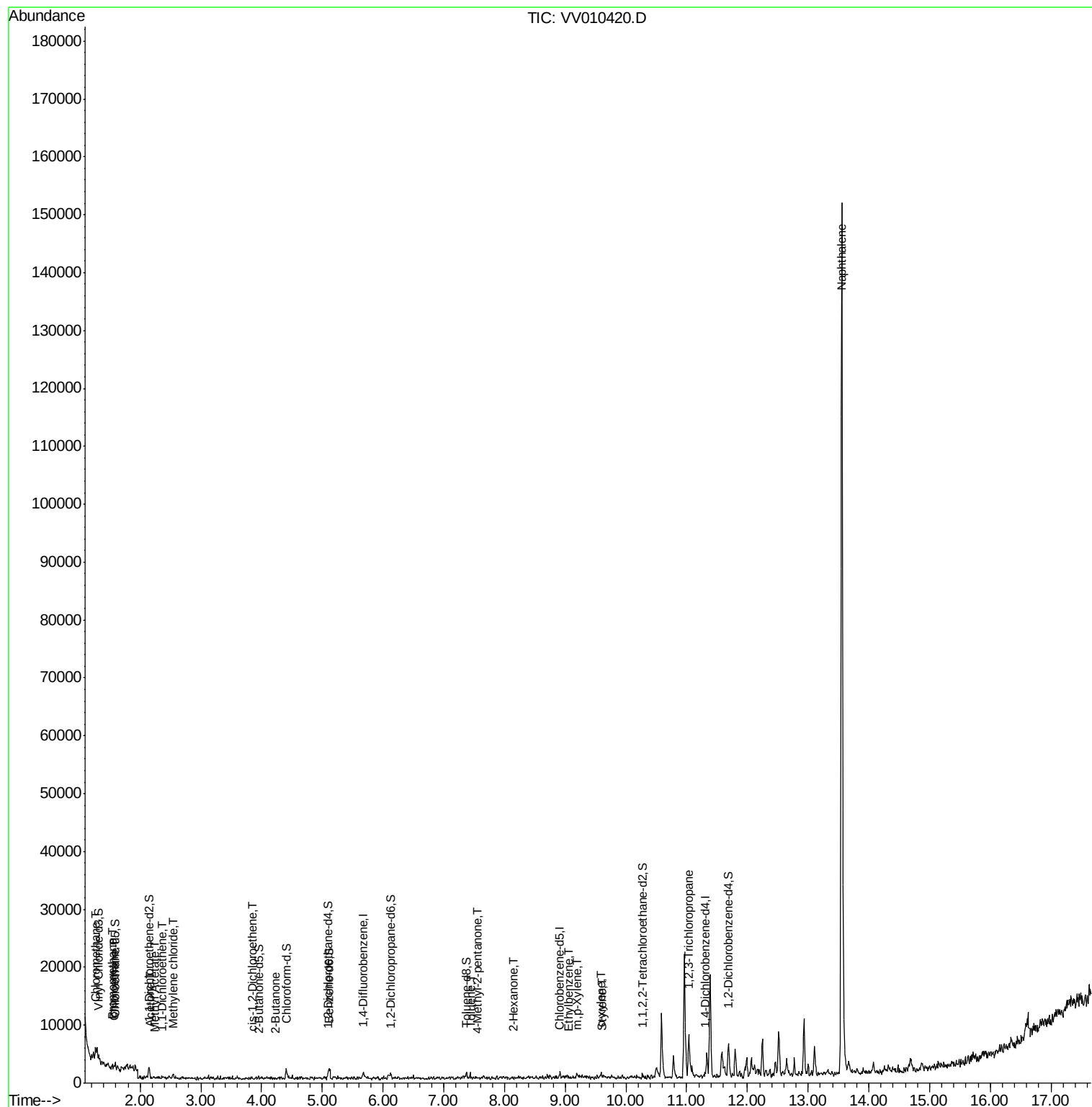
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.55	128	127528	11087.360	ug/L	99

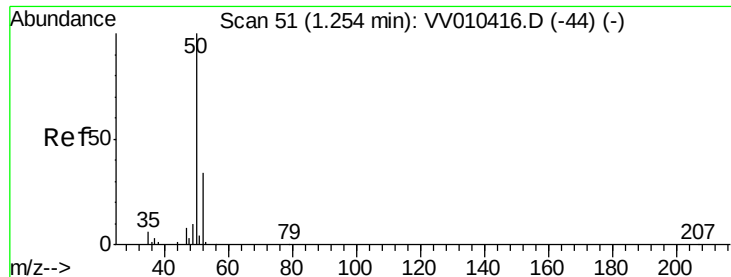
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV042219\
Data File : VV010420.D
Acq On : 22 Apr 2019 18:30
Operator : SY/MD
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Quant Time: Apr 23 07:00:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 06:57:14 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 6.560 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampleId :

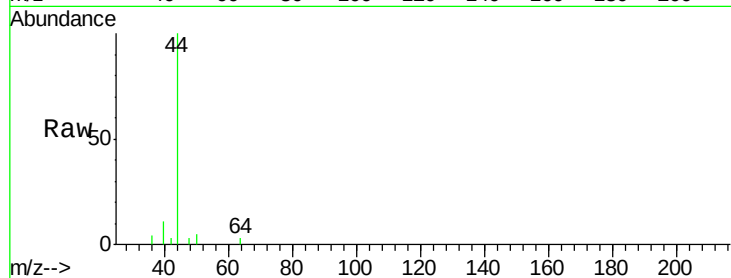
GAHQ2

Tot Ion: 50 Resp: 110

Ion Ratio Lower Upper

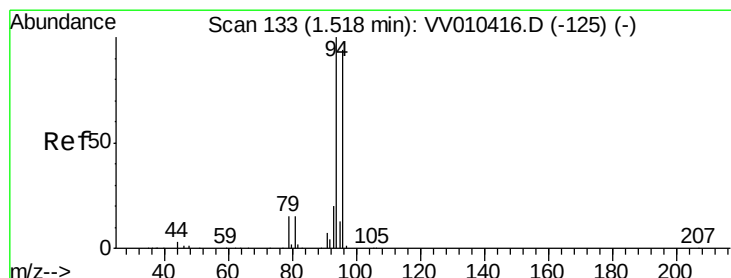
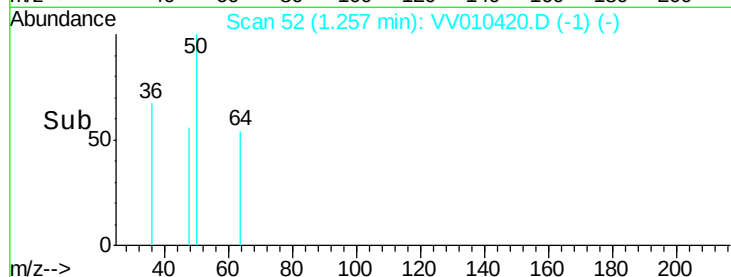
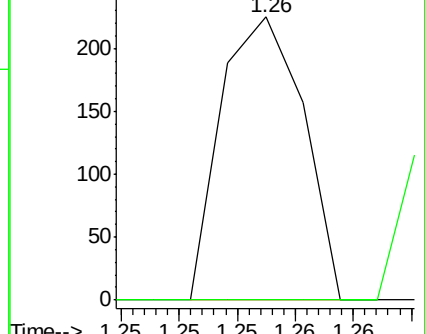
50 100

52 0.0 22.3 41.5#



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



#6

Bromomethane

Concen: 8.811 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.02 min

Lab File: VV010420.D

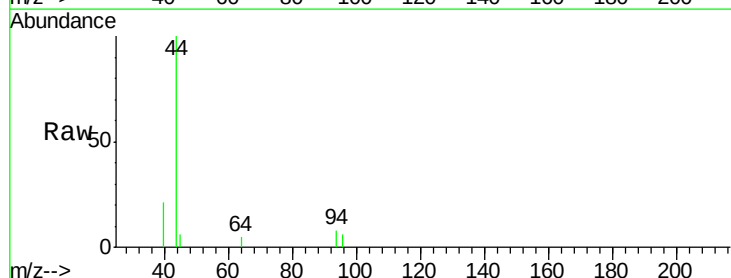
Acq: 22 Apr 2019 18:30

Tgt Ion: 94 Resp: 91

Ion Ratio Lower Upper

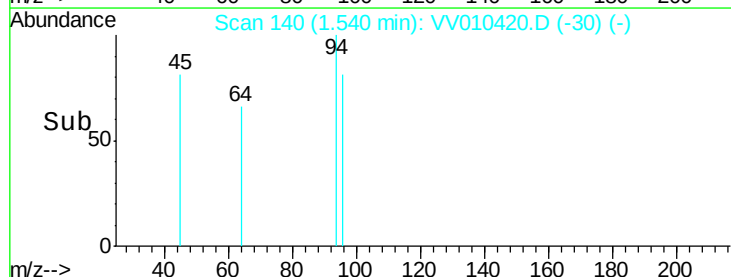
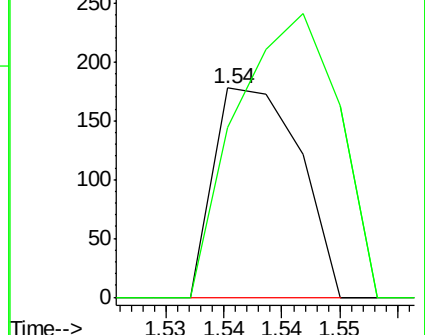
94 100

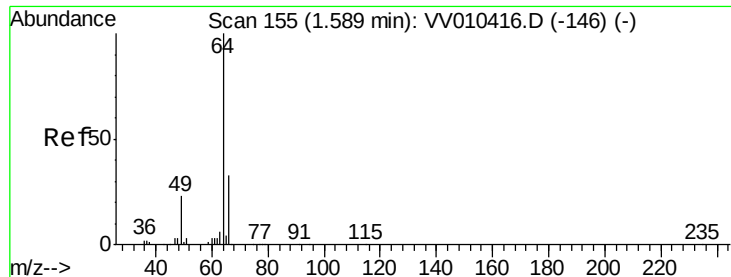
96 160.4 9.5 180.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.925 ug/L

RT: 1.57 min Scan# 150

Delta R.T. -0.02 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampled :

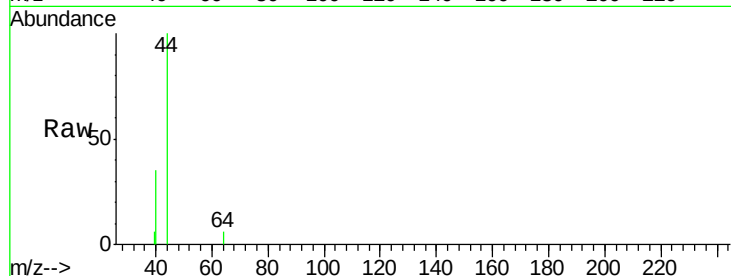
GAHQ2

Tot Ion: 64 Resp: 66

Ion Ratio Lower Upper

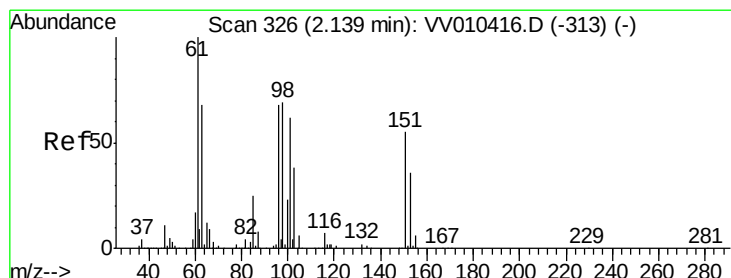
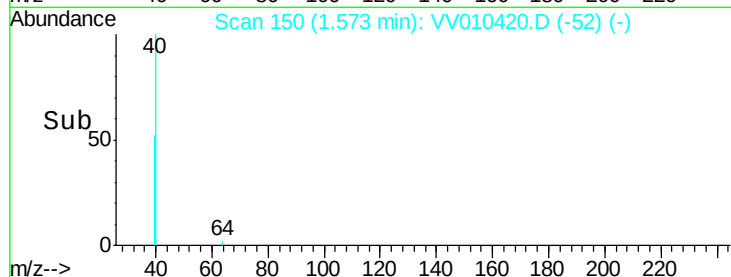
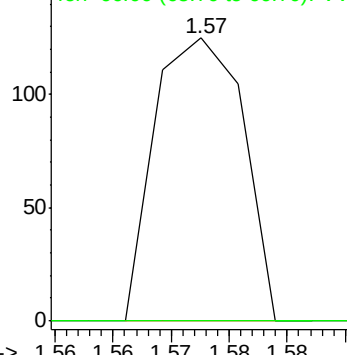
64 100

66 0.0 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0



#12

1,1-Dichloroethene

Concen: 2.697 ug/L

RT: 2.36 min Scan# 395

Delta R.T. 0.22 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

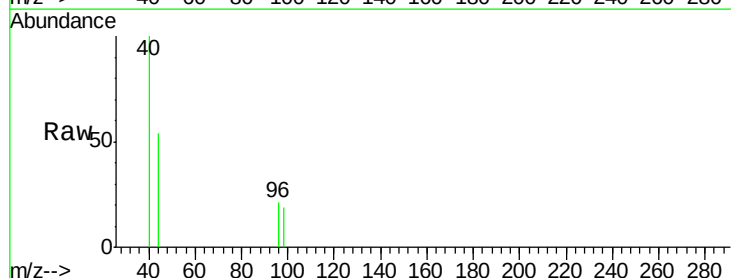
Tgt Ion: 96 Resp: 45

Ion Ratio Lower Upper

96 100

61 0.0 105.3 195.5#

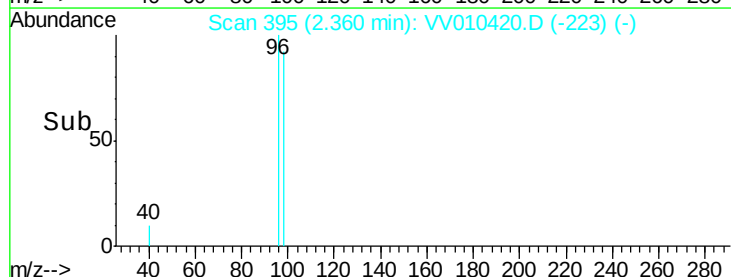
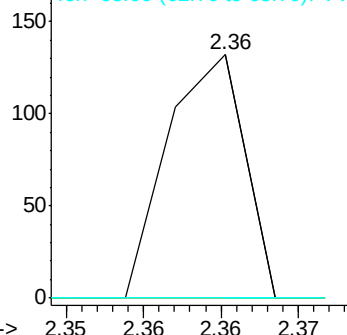
63 0.0 87.8 163.2#

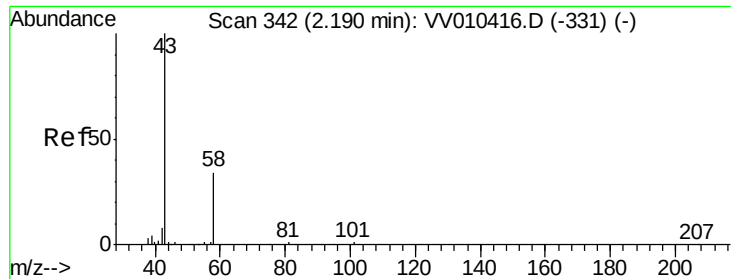


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 9.399 ug/L

RT: 2.17 min Scan# 335

Delta R.T. -0.02 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampled :

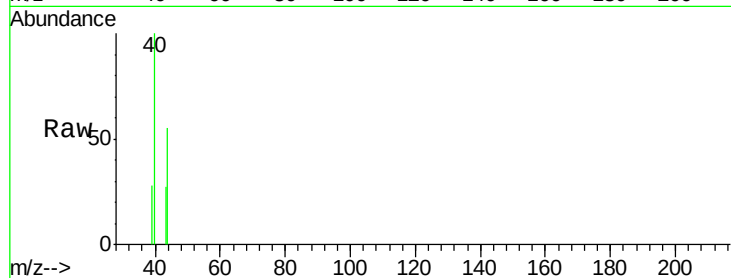
GAHQ2

Tot Ion: 43 Resp: 43

Ion Ratio Lower Upper

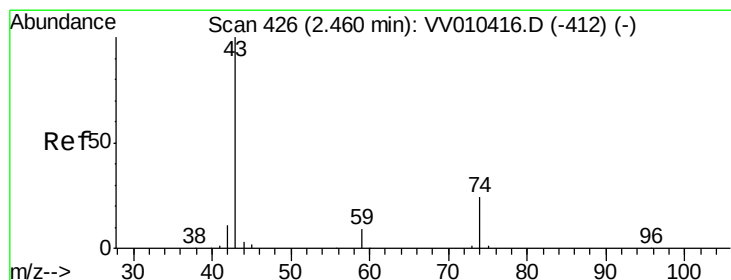
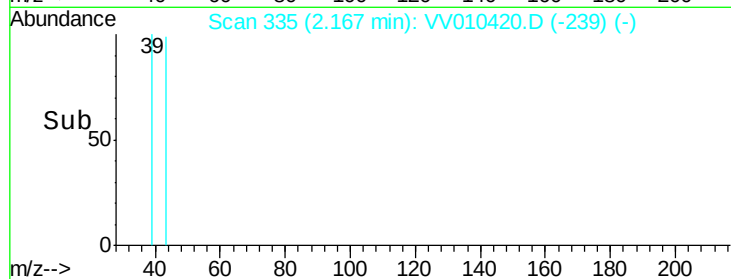
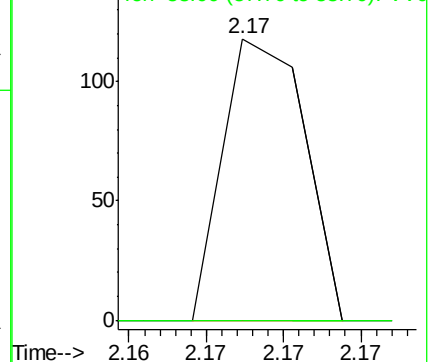
43 100

58 0.0 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#15

Methyl Acetate

Concen: 8.077 ug/L

RT: 2.24 min Scan# 357

Delta R.T. -0.22 min

Lab File: VV010420.D

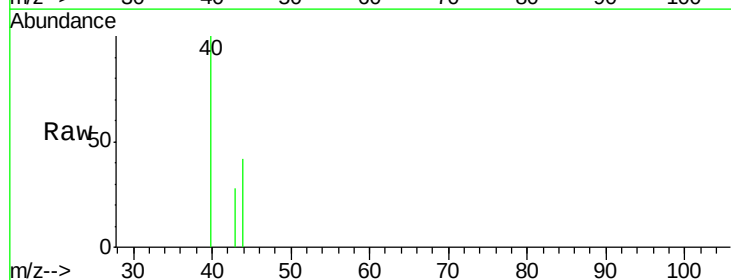
Acq: 22 Apr 2019 18:30

Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

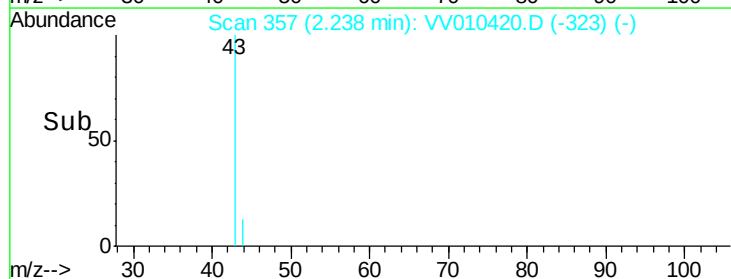
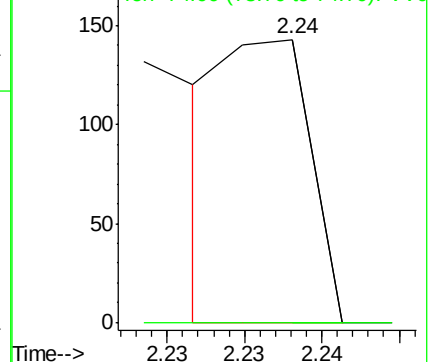
43 100

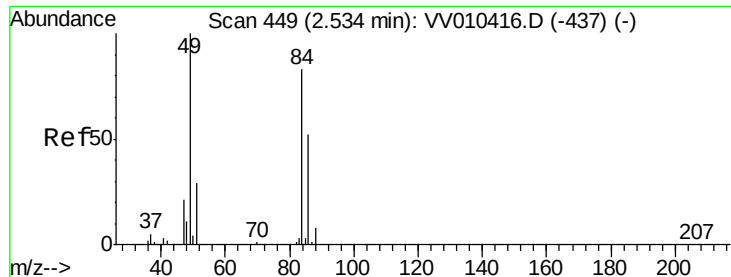
74 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

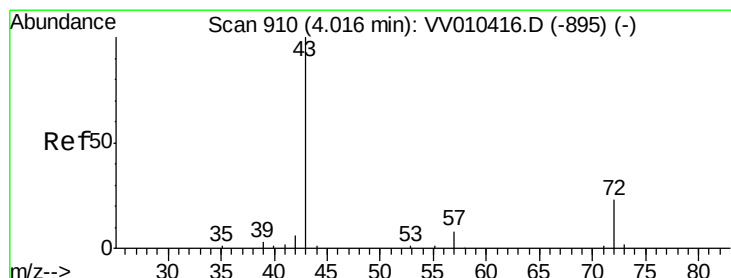
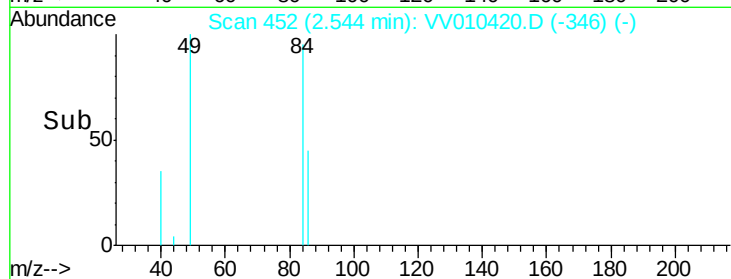
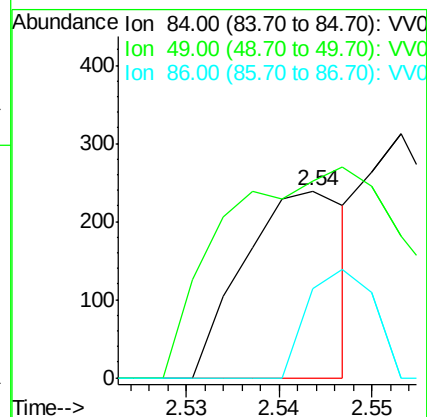
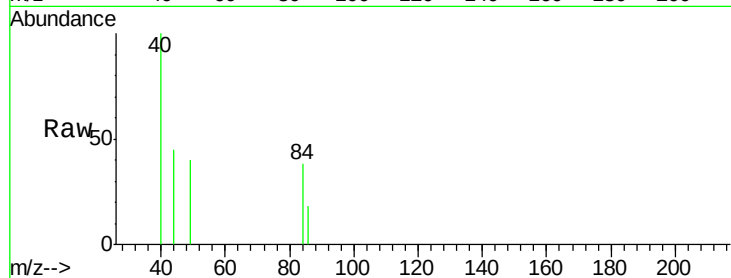




#16
Methylene chloride
Concen: 9.521 ug/L
RT: 2.54 min Scan# 452
Delta R.T. 0.01 min
Lab File: VV010420.D
Acq: 22 Apr 2019 18:30

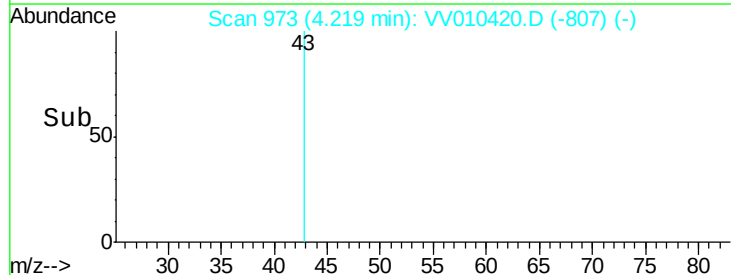
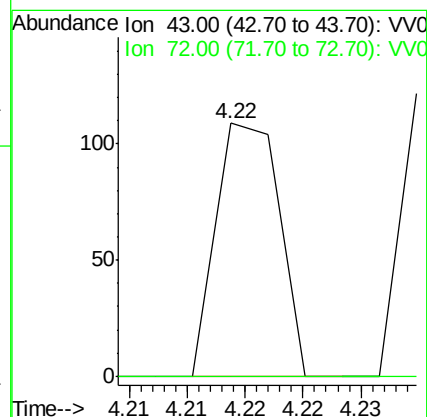
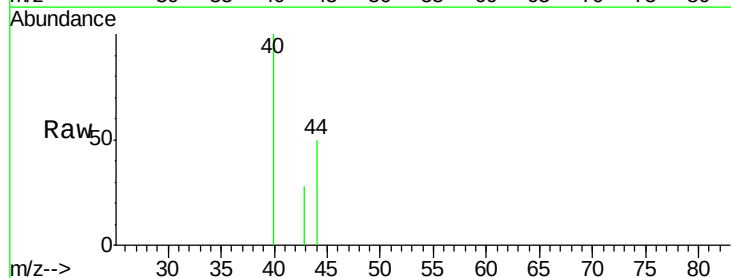
Instrument :
MSVOA_V
ClientSampled :
GAHQ2

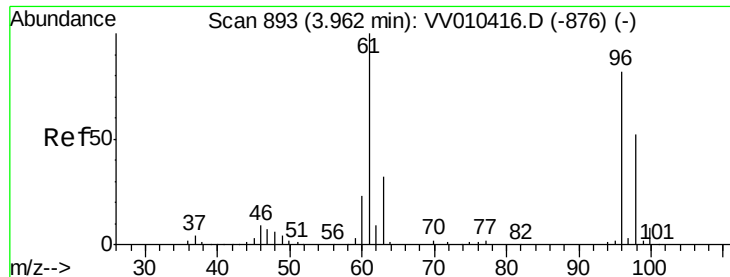
Tot Ion: 84 Resp: 185
Ion Ratio Lower Upper
84 100
49 105.0 85.0 158.0
86 47.7 43.9 81.5



#21
2-Butanone
Concen: 8.409 ug/L
RT: 4.22 min Scan# 973
Delta R.T. 0.20 min
Lab File: VV010420.D
Acq: 22 Apr 2019 18:30

Tgt Ion: 43 Resp: 41
Ion Ratio Lower Upper
43 100
72 0.0 12.2 36.4#



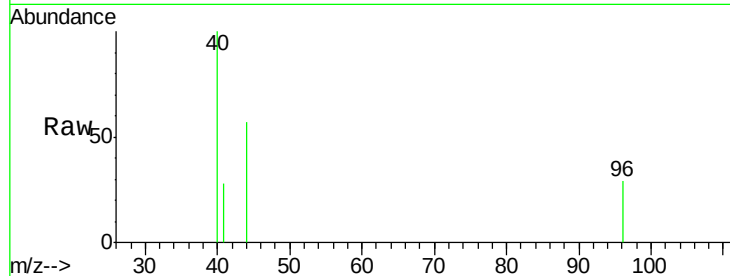


#22

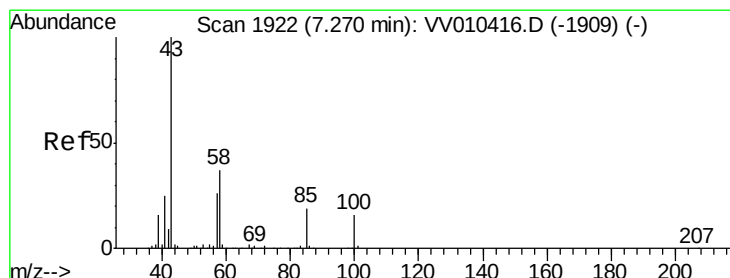
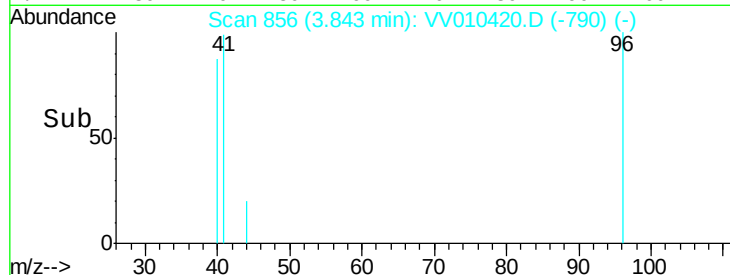
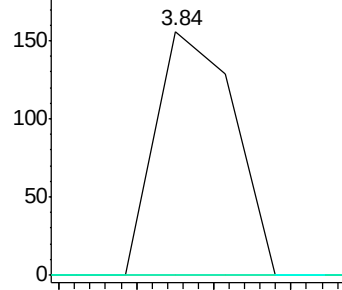
cis-1,2-Dichloroethene
Concen: 3.306 ug/L
RT: 3.84 min Scan# 856
Delta R.T. -0.12 min
Lab File: VV010420.D
Acq: 22 Apr 2019 18:30

Instrument :
MSVOA_V
ClientSampleId :
GAHQ2

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	86.7	161.1#
98	0.0	43.5	80.7#



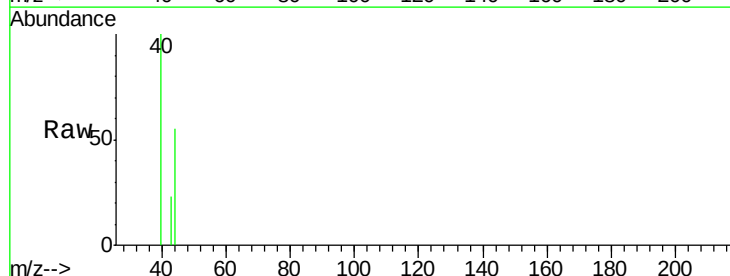
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



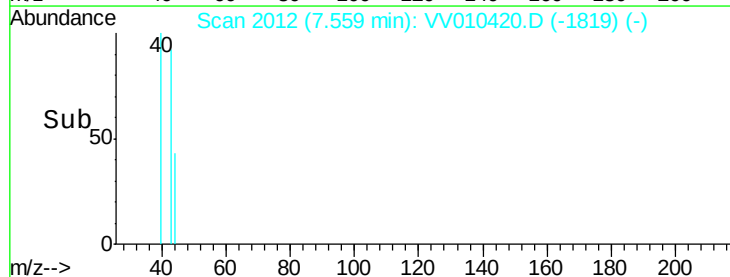
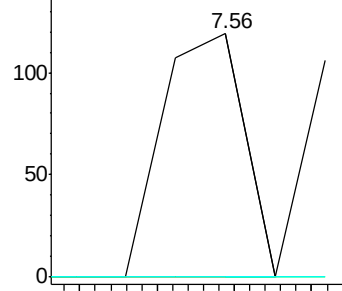
#43

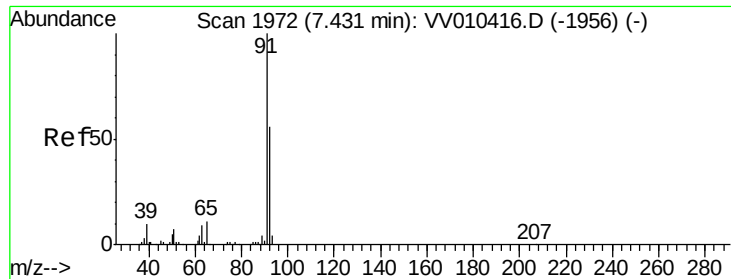
4-Methyl-2-pentanone
Concen: 15.129 ug/L
RT: 7.56 min Scan# 2012
Delta R.T. 0.29 min
Lab File: VV010420.D
Acq: 22 Apr 2019 18:30

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.2#
100	154.5	12.9	19.3#



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 100.00 (99.70 to 100.70): VV0





#44

Toluene

Concen: 5.096 ug/L

RT: 7.44 min Scan# 1974

Delta R.T. 0.01 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampled :

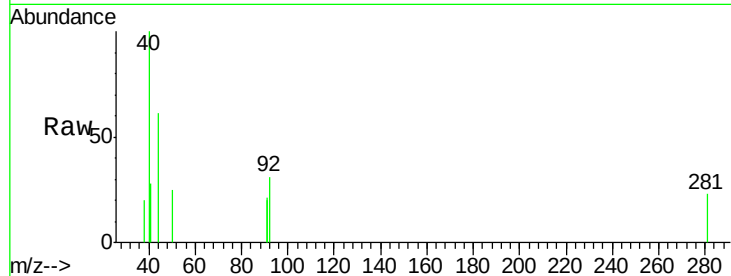
GAHQ2

Tot Ion: 91 Resp: 98

Ion Ratio Lower Upper

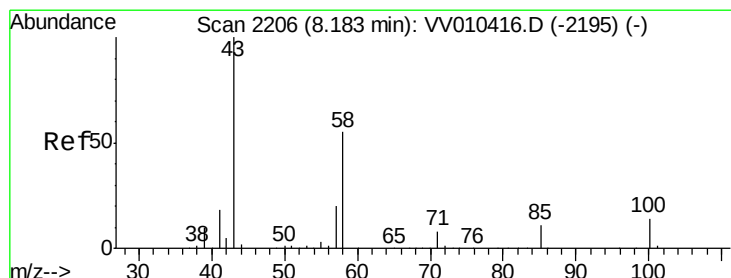
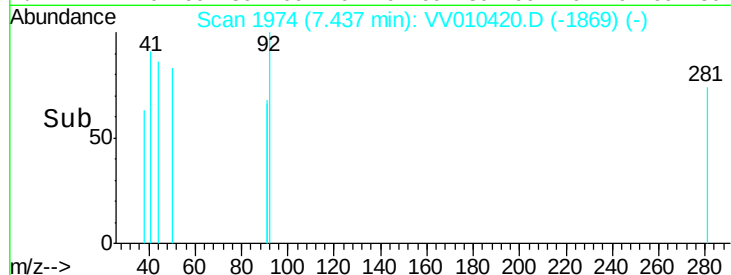
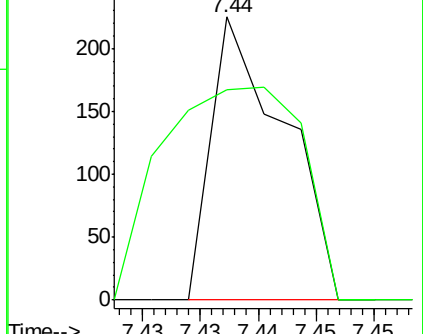
91 100

92 74.2 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#49

2-Hexanone

Concen: 20.341 ug/L

RT: 8.13 min Scan# 2190

Delta R.T. -0.05 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Tgt Ion: 43 Resp: 42

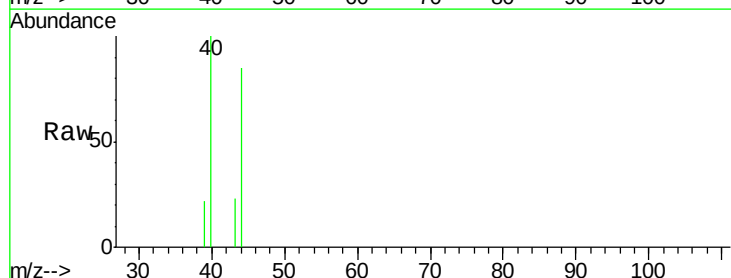
Ion Ratio Lower Upper

43 100

58 0.0 37.6 56.4#

57 0.0 15.8 23.8#

100 0.0 9.2 13.8#

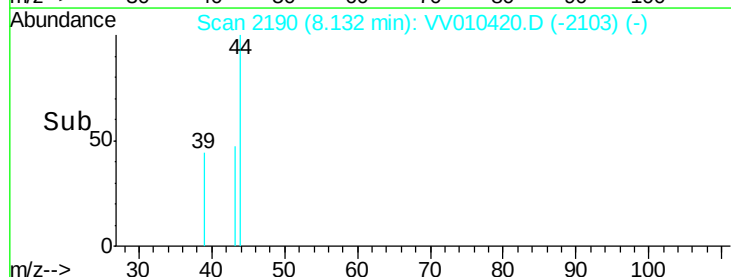
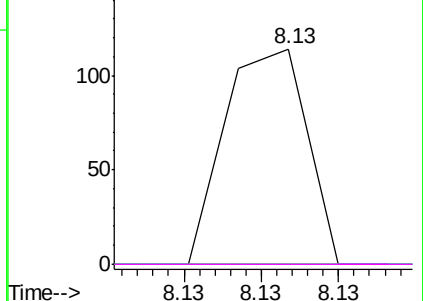


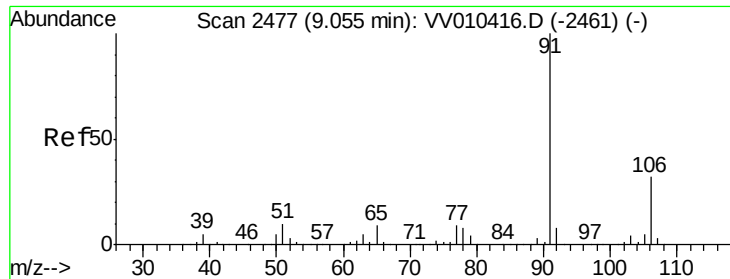
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#53

Ethylbenzene

Concen: 6.360 ug/L

RT: 9.06 min Scan# 2479

Delta R.T. 0.01 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampled :

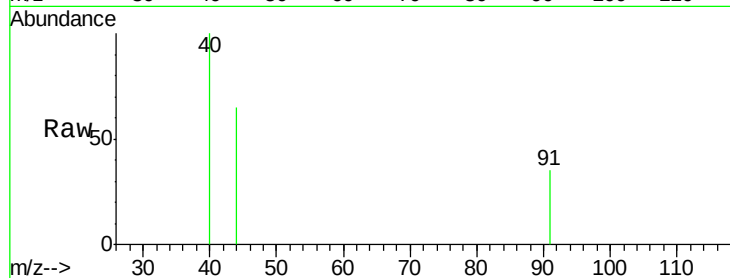
GAHQ2

Tot Ion: 91 Resp: 143

Ion Ratio Lower Upper

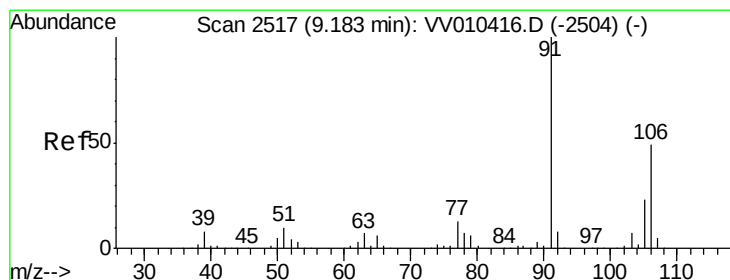
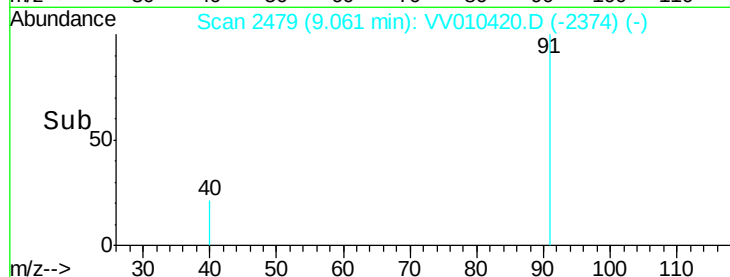
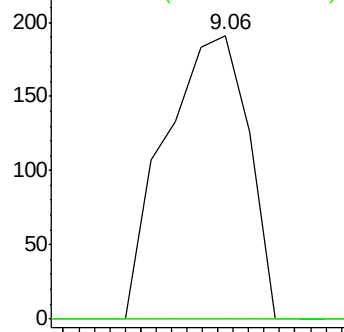
91 100

106 0.0 22.5 41.9#



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 8.509 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.01 min

Lab File: VV010420.D

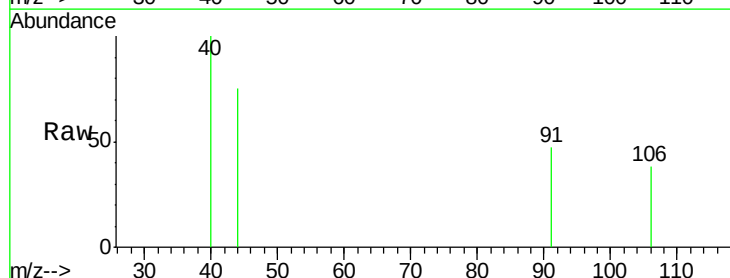
Acq: 22 Apr 2019 18:30

Tgt Ion: 106 Resp: 75

Ion Ratio Lower Upper

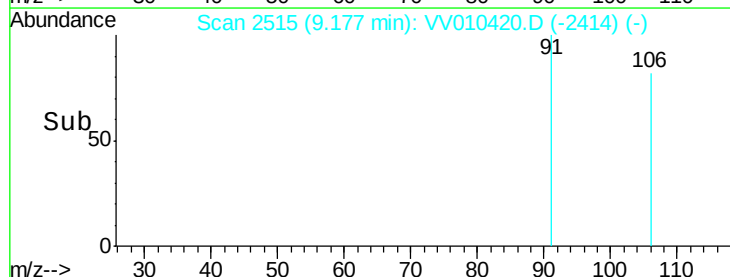
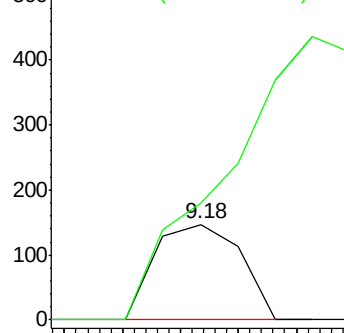
106 100

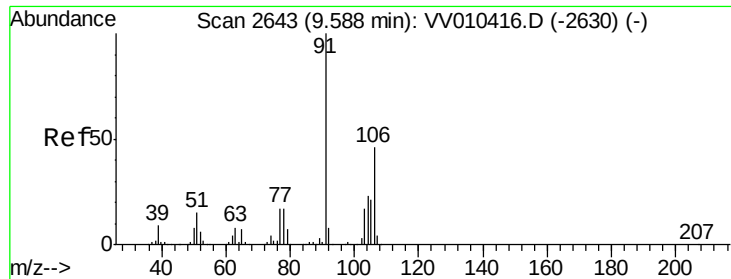
91 122.4 142.5 264.7#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

o-xylene

Concen: 26.653 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampled :

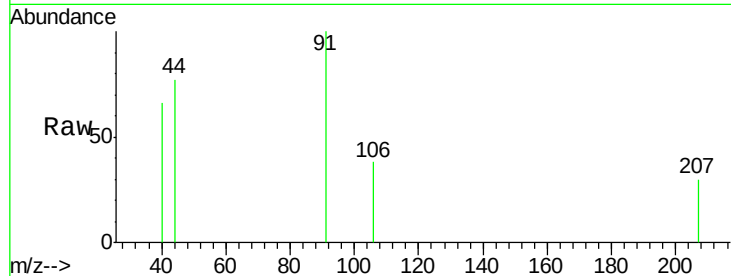
GAHQ2

Tot Ion:106 Resp: 234

Ion Ratio Lower Upper

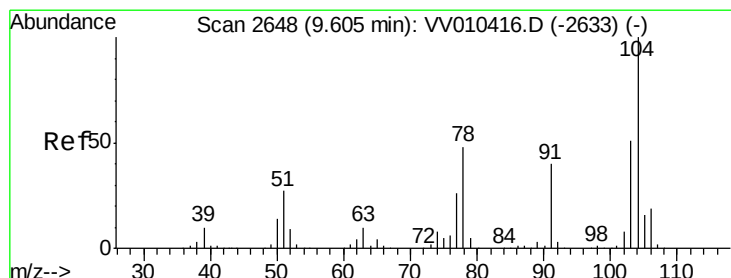
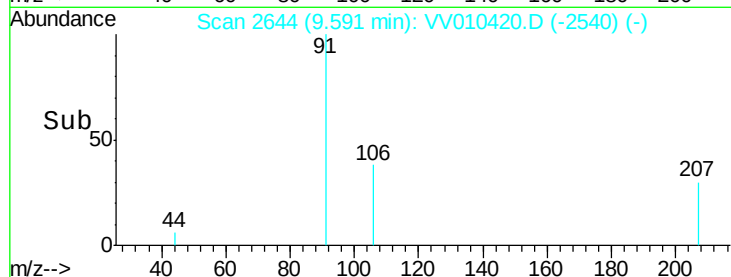
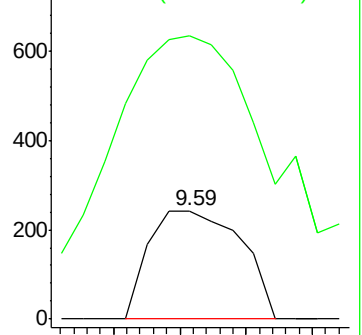
106 100

91 260.5 148.5 275.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 9.044 ug/L

RT: 9.62 min Scan# 2652

Delta R.T. 0.01 min

Lab File: VV010420.D

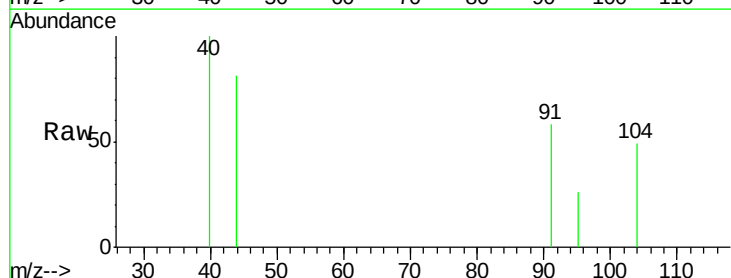
Acq: 22 Apr 2019 18:30

Tgt Ion:104 Resp: 131

Ion Ratio Lower Upper

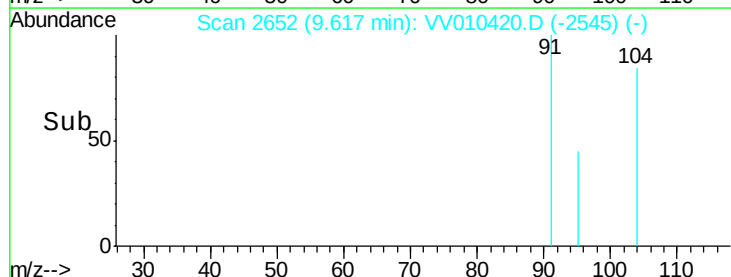
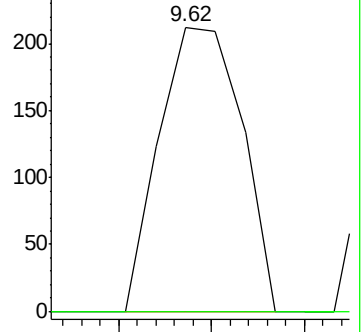
104 100

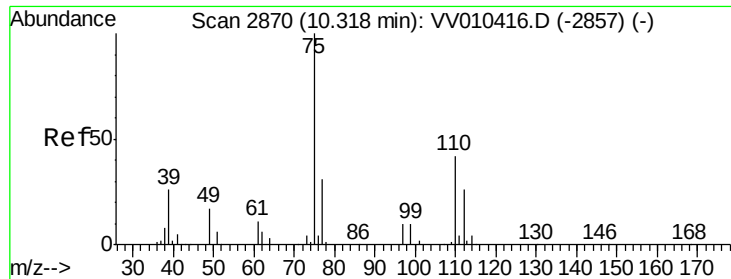
78 0.0 33.3 61.9#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#59

1,2,3-Trichloropropane

Concen: 46.866 ug/L

RT: 11.03 min Scan# 3092

Delta R.T. 0.71 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Instrument :

MSVOA_V

ClientSampleId :

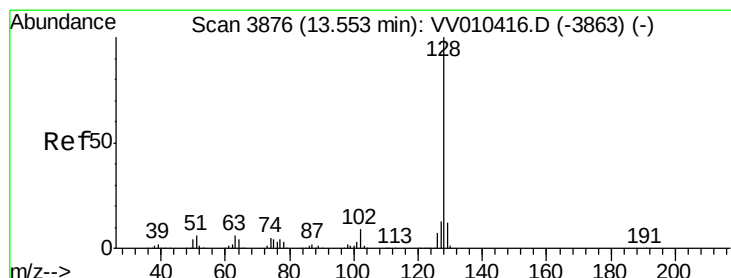
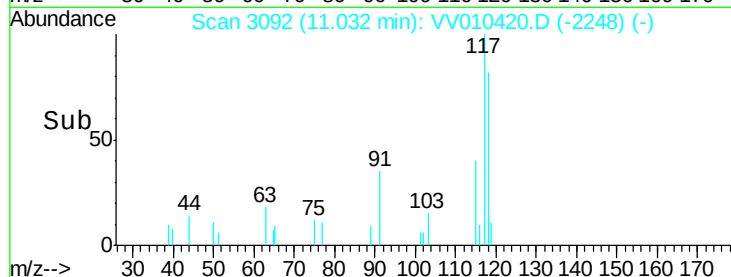
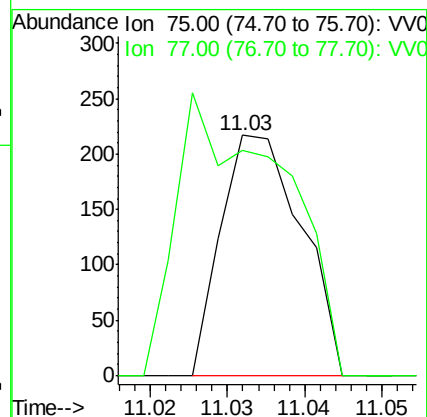
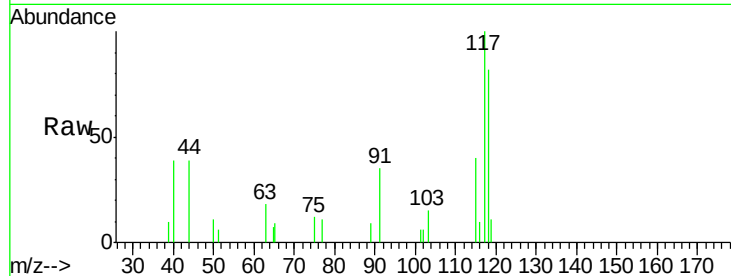
GAHQ2

Tot Ion: 75 Resp: 158

Ion Ratio Lower Upper

75 100

77 67.1 26.2 39.2#



#69

Naphthalene

Concen: 11087.360 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV010420.D

Acq: 22 Apr 2019 18:30

Tgt Ion:128 Resp: 127528

Ion Ratio Lower Upper

128 100

129 10.3 8.4 12.6

127 12.9 10.2 15.2

