

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW042219\
 Data File : VW010079.D
 Acq On : 22 Apr 2019 12:47
 Operator : SY/VA
 Sample : K2455-01
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GAHQ3RE

Quant Time: Apr 23 06:08:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041519S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:06:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	3838	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	2303	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	298	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	1337	36.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	147.44%
7) Chloroethane-d5	2.90	69	1563	42.55	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	170.20%#
10) 1,1-Dichloroethene-d2	4.03	63	2145	21.32	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.28%
20) 2-Butanone-d5	7.07	46	195	9.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	19.88%#
24) Chloroform-d	7.65	84	3387	30.52	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	122.08%
26) 1,2-Dichloroethane-d4	8.31	65	1490	21.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.56%
29) Benzene-d6	8.27	84	4968	39.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	157.00%#
33) 1,2-Dichloropropane-d6	9.29	67	1703	42.24	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	168.96%#
37) Toluene-d8	10.32	98	3024	26.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.76%
38) trans-1,3-Dichloropropene-	10.59	79	175	9.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	36.64%
39) 2-Hexanone-d5	10.93	63	146	16.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	32.68%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	872	23.13	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.52%
61) 1,2-Dichlorobenzene-d4	13.56	152	298	26.60	ug/L	-0.30
Spiked Amount	25.000	Range	75 - 120	Recovery	=	106.40%

Target Compounds

					Qvalue
3) Chloromethane	2.21	50	64	1.304 ug/L #	1
5) Vinyl chloride	2.25	62	47	1.018 ug/L #	41
8) Chloroethane	2.97	64	31	0.935 ug/L #	44
13) Acetone	4.12	43	381	21.838 ug/L	61
15) Methyl Acetate	4.67	43	132	3.749 ug/L #	56
16) Methylene chloride	4.90	84	175	2.518 ug/L #	55
17) Methyl tert-butyl Ether	5.42	73	75	1.106 ug/L #	1
18) trans-1,2-Dichloroethene	5.32	96	53	1.011 ug/L #	1
21) 2-Butanone	6.90	43	157	6.872 ug/L	77
22) cis-1,2-Dichloroethene	6.92	96	69	1.212 ug/L #	1
30) Cyclohexane	7.95	56	47	0.903 ug/L #	1
35) Trichloroethene	8.84	95	55	1.559 ug/L #	6
36) Methylcyclohexane	9.28	83	173	3.053 ug/L #	14
40) 1,2-Dichloropropane	9.29	63	56	1.561 ug/L #	87
42) cis-1,3-Dichloropropene	10.07	75	49	0.886 ug/L #	16
45) trans-1,3-Dichloropropene	10.85	75	43	0.880 ug/L #	43
49) 2-Hexanone	10.98	43	89	4.239 ug/L #	41

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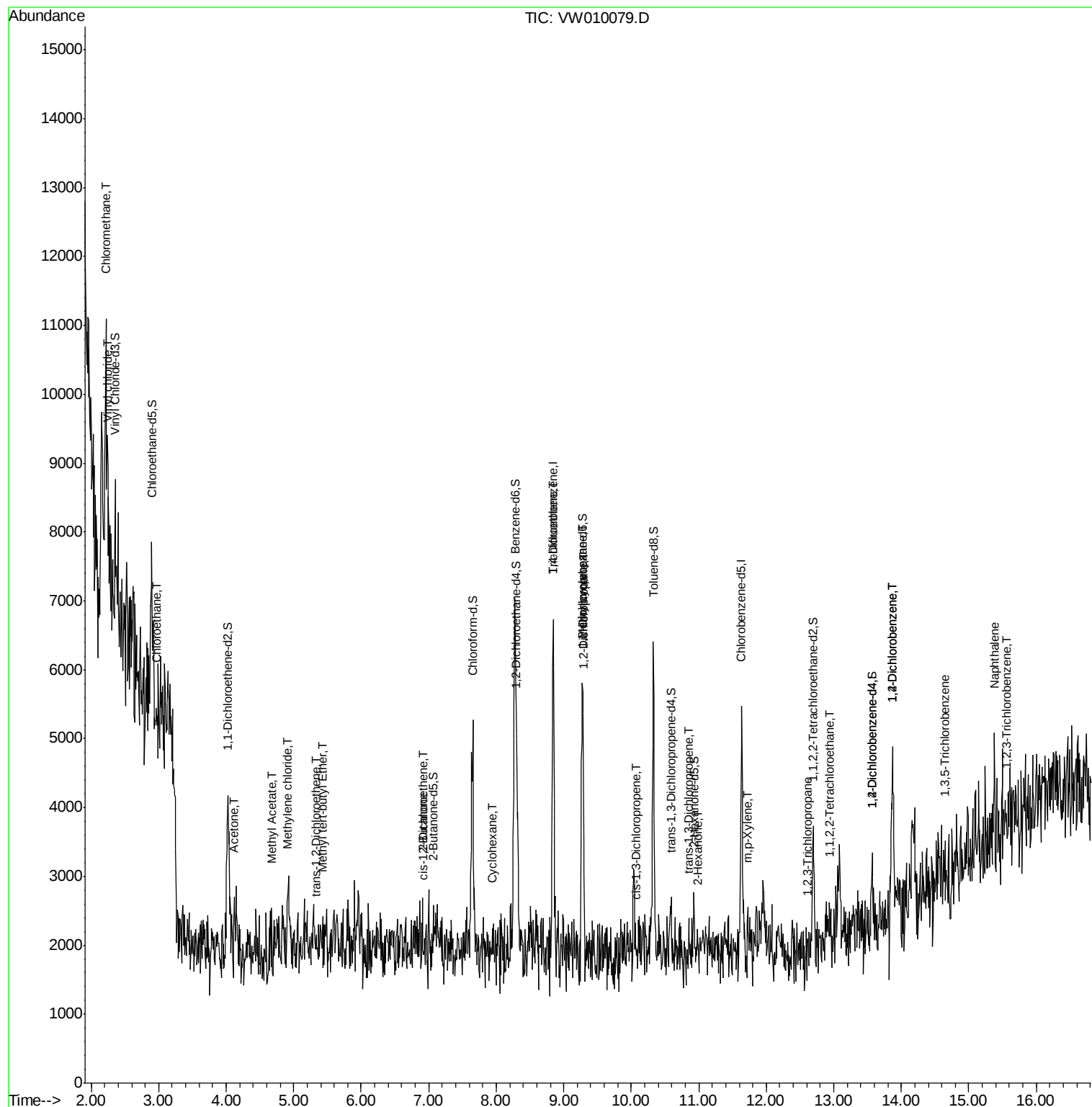
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) m,p-Xylene	11.73	106	49	0.833	ug/L #	1
58) 1,1,2,2-Tetrachloroethane	12.93	83	125	3.396	ug/L #	69
59) 1,2,3-Trichloropropane	12.60	75	88	3.194	ug/L	97
64) 1,4-Dichlorobenzene	13.87	146	50	2.584	ug/L #	8
65) 1,2-Dichlorobenzene	13.87	146	50	2.830	ug/L #	12
67) 1,3,5-Trichlorobenzene	14.65	180	53	4.019	ug/L #	37
69) Naphthalene	15.38	128	970	41.833	ug/L #	69
70) 1,2,3-Trichlorobenzene	15.56	180	19	1.843	ug/L #	12

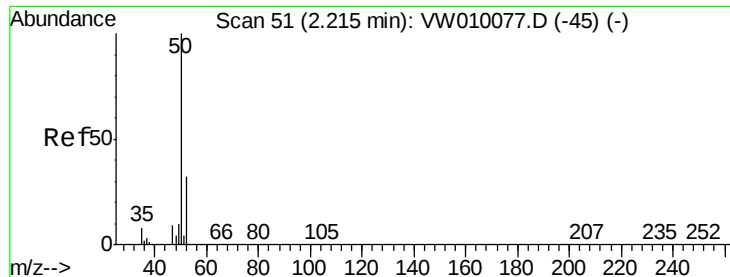
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW042219\
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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampled :
GAHQ3RE

Quant Time: Apr 23 06:08:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041519S.M
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QLast Update : Tue Apr 23 06:06:04 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.304 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

MSVOA_W

ClientSampleId :

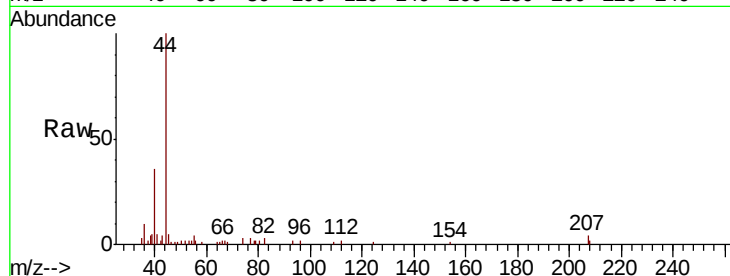
GAHQ3RE

Tgt Ion: 50 Resp: 64

Ion Ratio Lower Upper

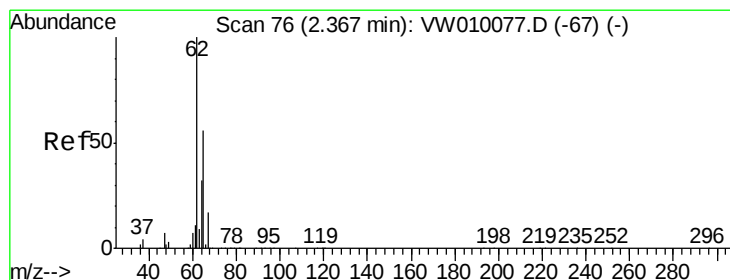
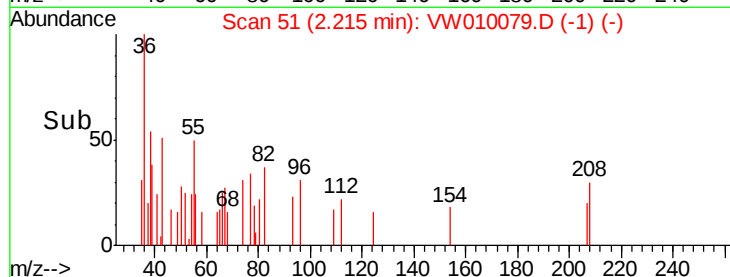
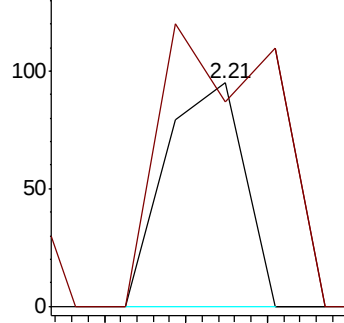
50 100

52 91.6 22.7 42.1#



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW



#5

Vinyl chloride

Concen: 1.018 ug/L

RT: 2.25 min Scan# 56

Delta R.T. -0.12 min

Lab File: VW010079.D

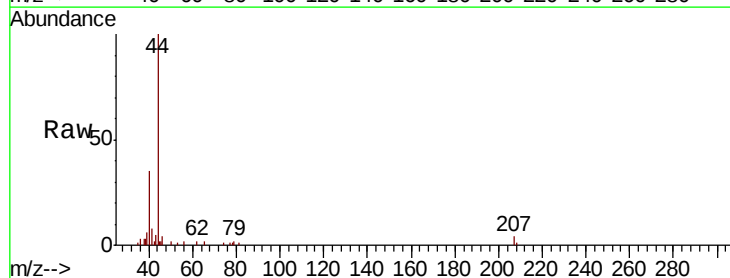
Acq: 22 Apr 2019 12:47

Tgt Ion: 62 Resp: 47

Ion Ratio Lower Upper

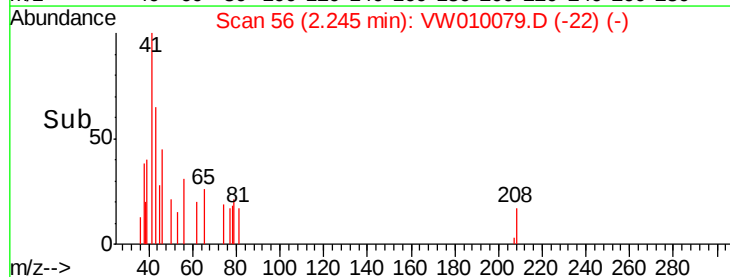
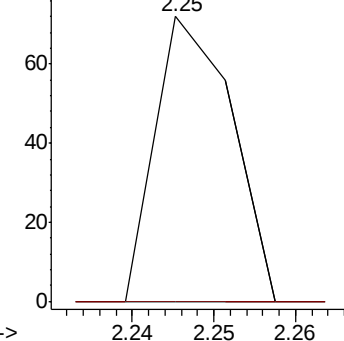
62 100

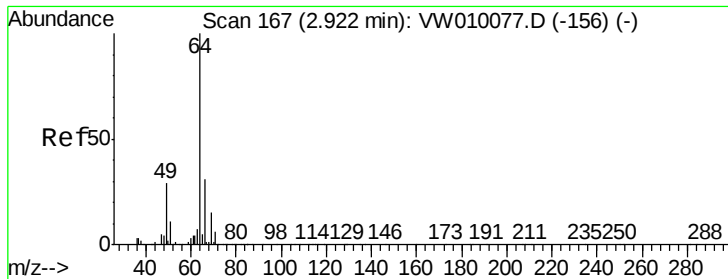
64 0.0 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW





#8

Chloroethane

Concen: 0.935 ug/L

RT: 2.97 min Scan# 175

Delta R.T. 0.05 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

MSVOA_W

ClientSampleId :

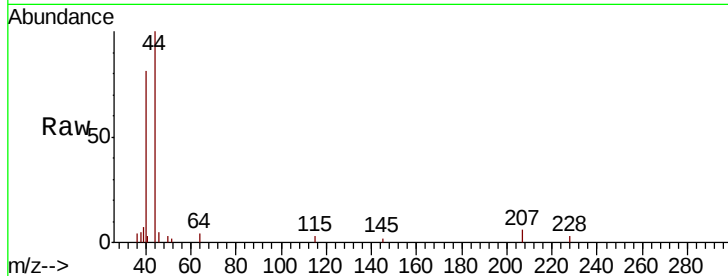
GAHQ3RE

Tgt Ion: 64 Resp: 31

Ion Ratio Lower Upper

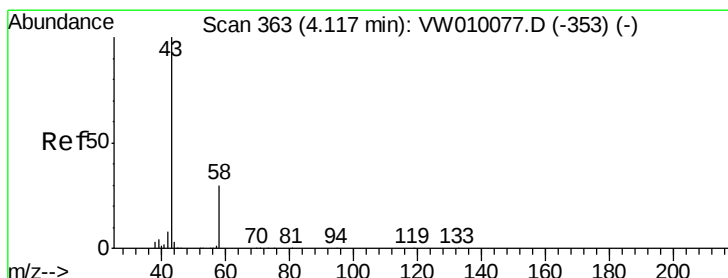
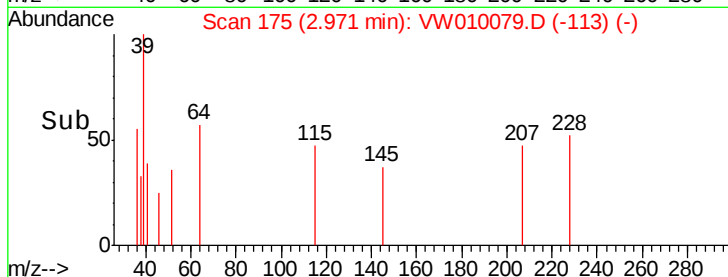
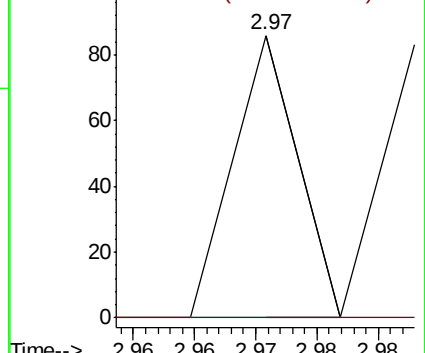
64 100

66 0.0 21.7 40.3#



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#13

Acetone

Concen: 21.838 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010079.D

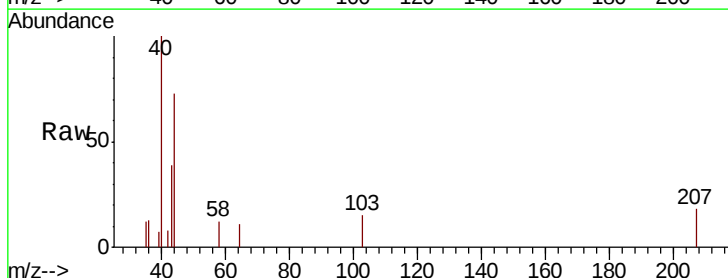
Acq: 22 Apr 2019 12:47

Tgt Ion: 43 Resp: 381

Ion Ratio Lower Upper

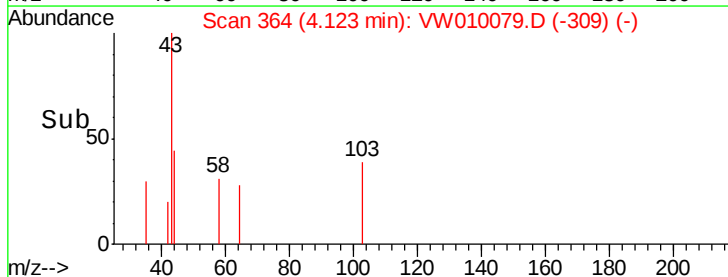
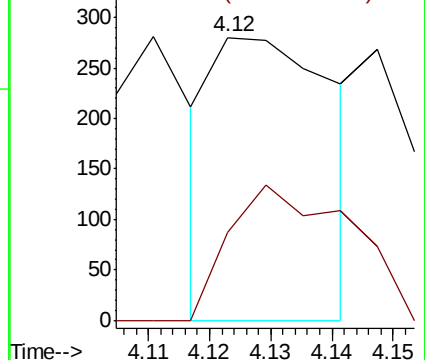
43 100

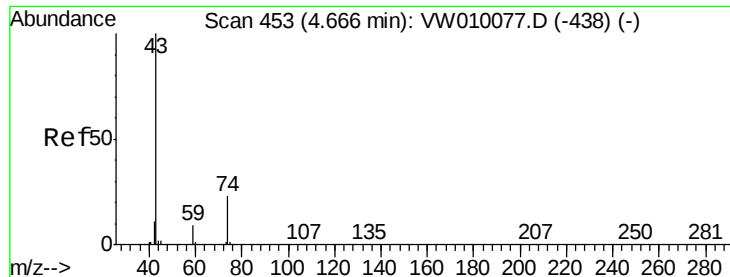
58 48.6 0.0 56.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

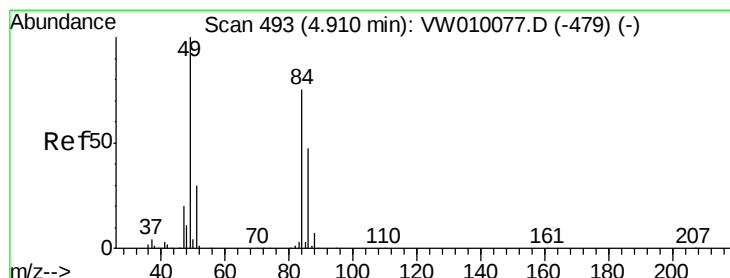
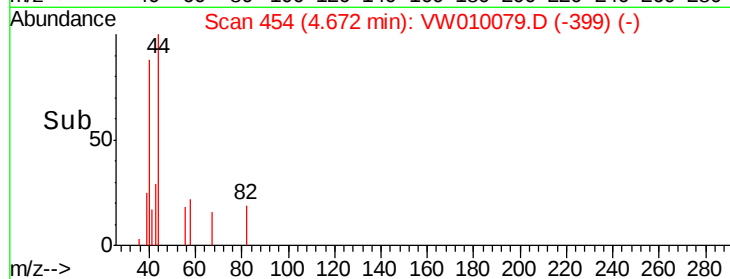
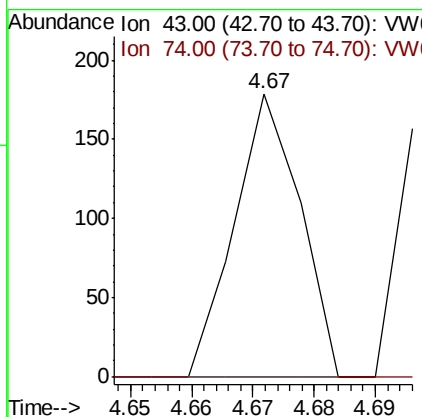
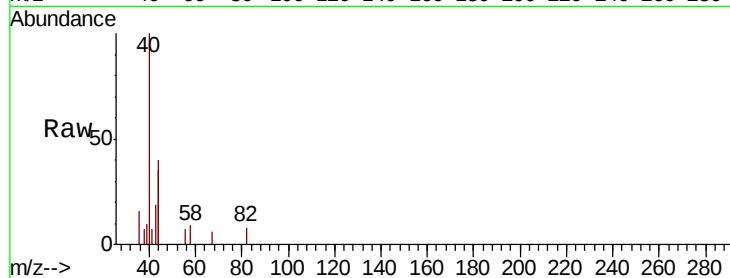




#15
Methyl Acetate
Concen: 3.749 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW010079.D
Acq: 22 Apr 2019 12:47

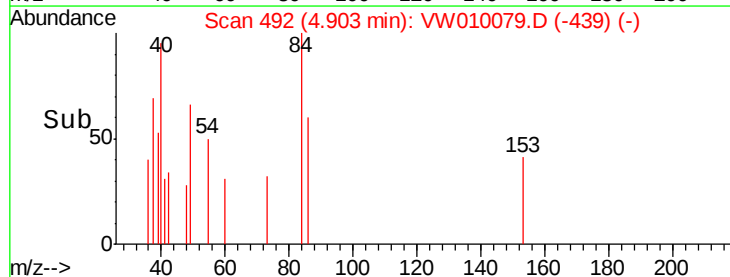
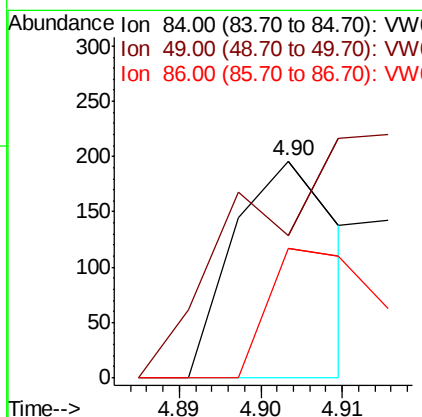
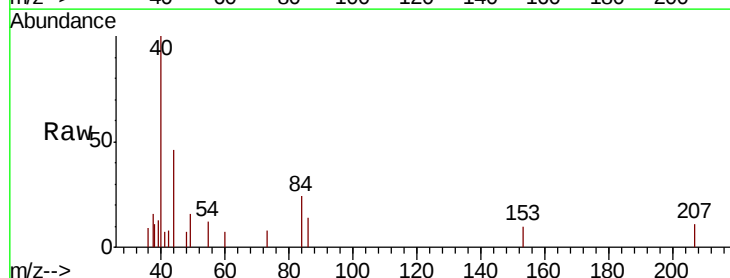
Instrument :
MSVOA_W
ClientSampleId :
GAHQ3RE

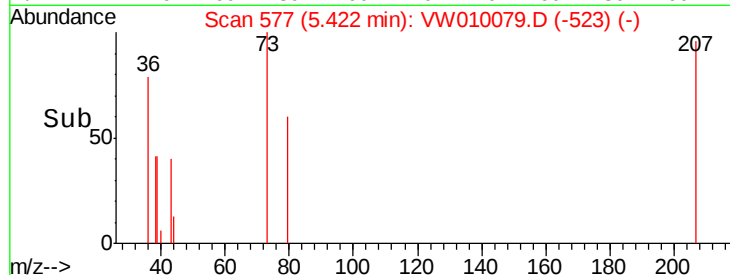
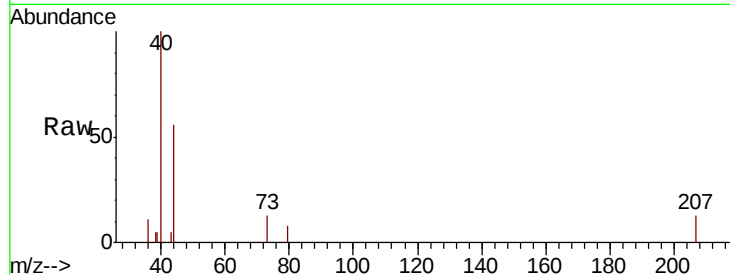
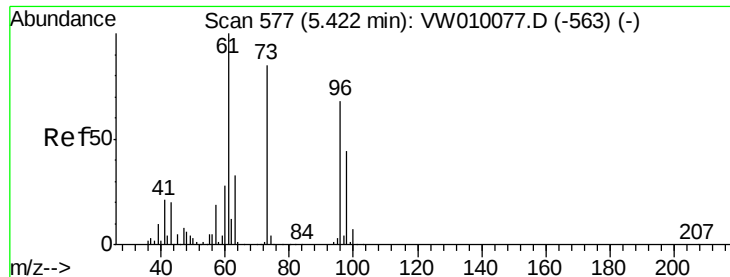
Tgt Ion: 43 Resp: 132
Ion Ratio Lower Upper
43 100
74 0.0 16.2 24.4#



#16
Methylene chloride
Concen: 2.518 ug/L
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW010079.D
Acq: 22 Apr 2019 12:47

Tgt Ion: 84 Resp: 175
Ion Ratio Lower Upper
84 100
49 65.8 100.7 187.1#
86 59.7 43.8 81.3

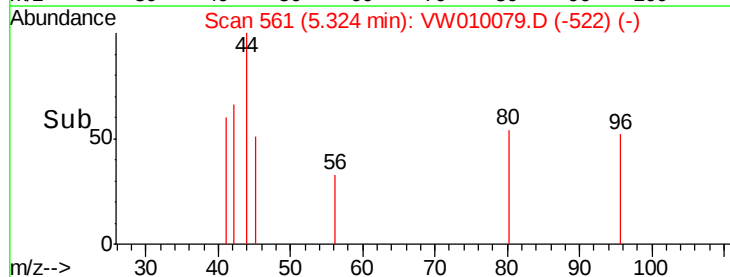
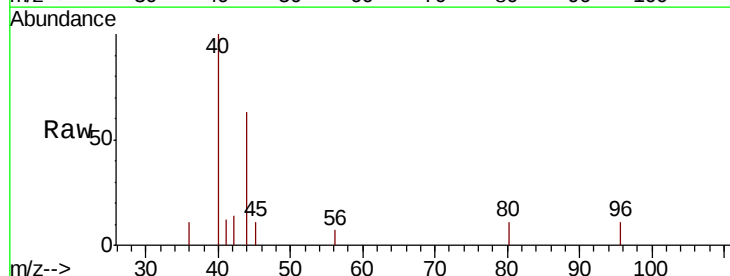
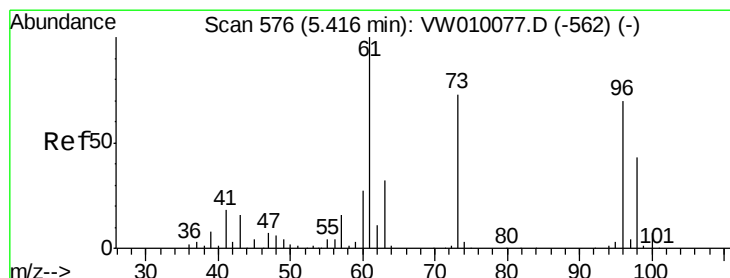
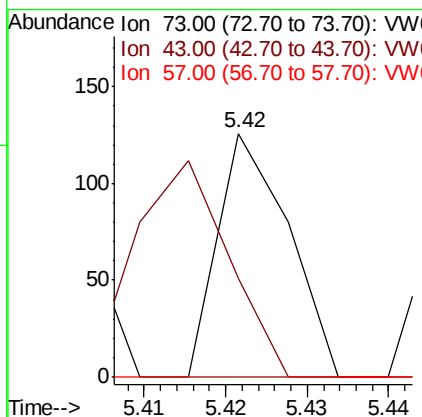




#17
Methyl tert-butyl Ether
Concen: 1.106 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW010079.D
Acq: 22 Apr 2019 12:47

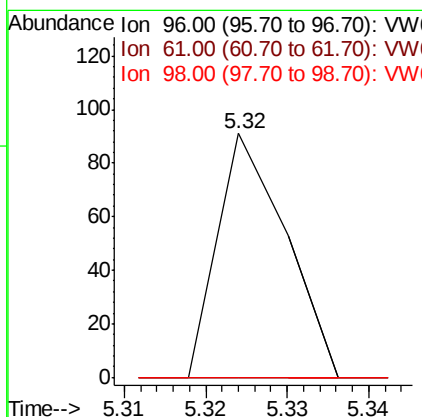
Instrument :
MSVOA_W
ClientSampleId :
GAHQ3RE

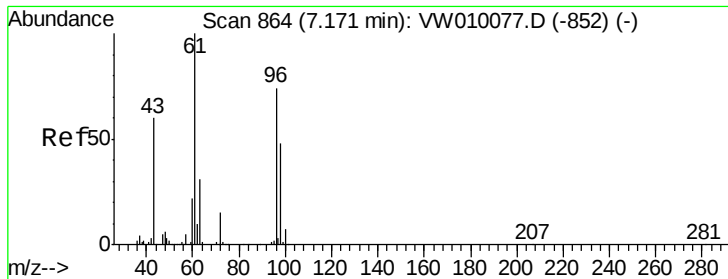
Tgt Ion: 73 Resp: 75
Ion Ratio Lower Upper
73 100
43 118.7 19.4 29.0#
57 0.0 18.6 28.0#



#18
trans-1,2-Dichloroethene
Concen: 1.011 ug/L
RT: 5.32 min Scan# 561
Delta R.T. -0.09 min
Lab File: VW010079.D
Acq: 22 Apr 2019 12:47

Tgt Ion: 96 Resp: 53
Ion Ratio Lower Upper
96 100
61 0.0 104.9 194.9#
98 0.0 44.1 81.9#





#21

2-Butanone

Concen: 6.872 ug/L

RT: 6.90 min Scan# 820

Delta R.T. -0.27 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

MSVOA_W

ClientSampleId :

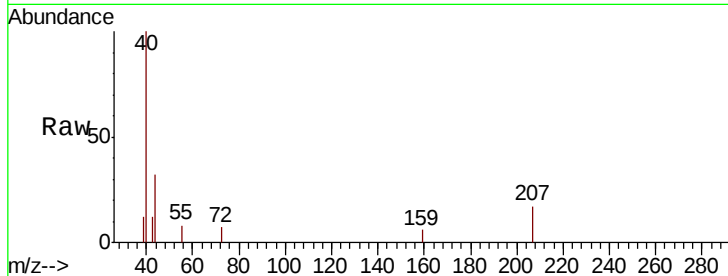
GAHQ3RE

Tgt Ion: 43 Resp: 157

Ion Ratio Lower Upper

43 100

72 35.0 11.9 35.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

6.90

150

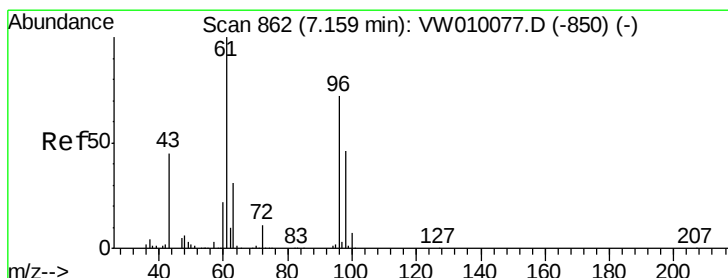
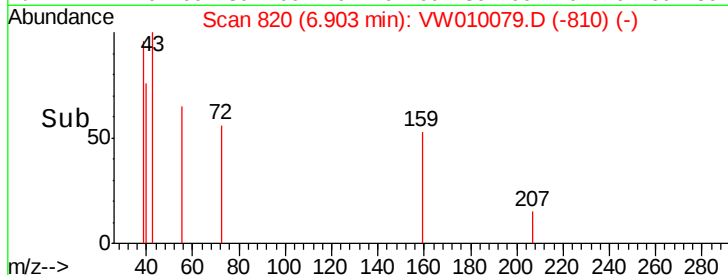
100

50

0

6.88 6.90 6.92

Time-->



#22

cis-1,2-Dichloroethene

Concen: 1.212 ug/L

RT: 6.92 min Scan# 823

Delta R.T. -0.24 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

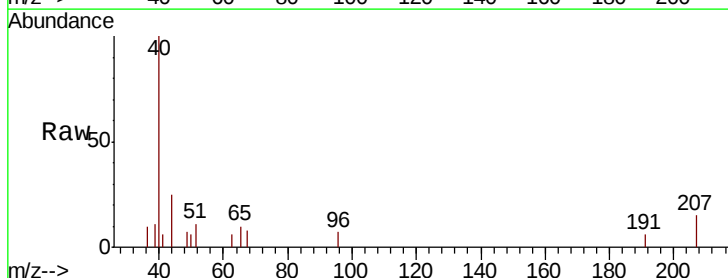
Tgt Ion: 96 Resp: 69

Ion Ratio Lower Upper

96 100

61 0.0 94.7 175.9#

98 0.0 42.8 79.6#



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW

80

60

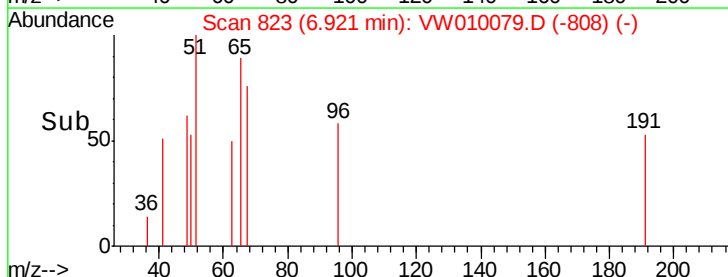
40

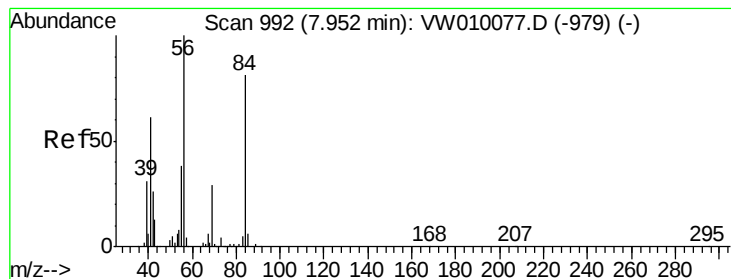
20

0

6.91 6.92 6.93 6.94

Time-->





#30

Cyclohexane

Concen: 0.903 ug/L

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

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ClientSampleId :

GAHQ3RE

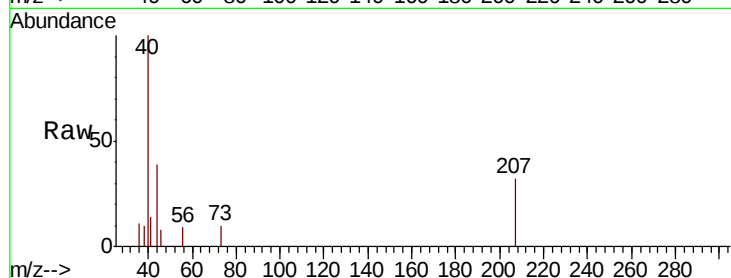
Tgt Ion: 56 Resp: 47

Ion Ratio Lower Upper

56 100

69 129.8 23.4 35.0#

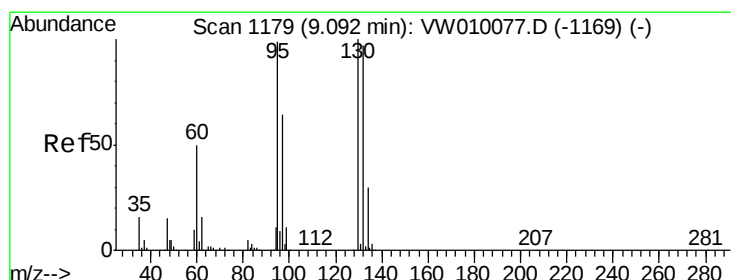
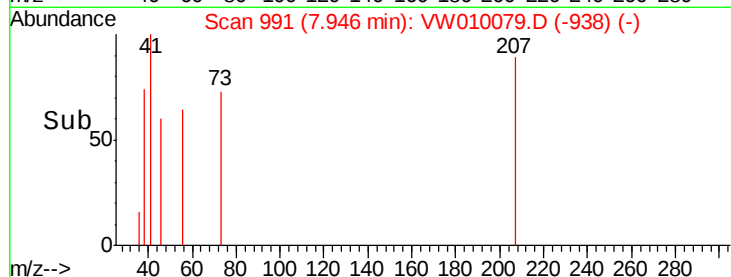
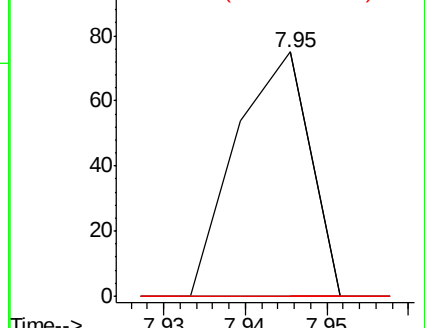
84 161.7 65.5 98.3#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#35

Trichloroethene

Concen: 1.559 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.25 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Tgt Ion: 95 Resp: 55

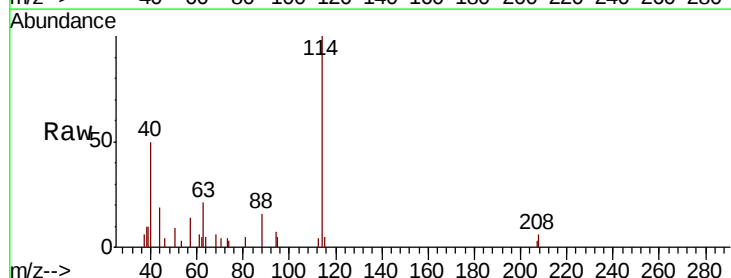
Ion Ratio Lower Upper

95 100

97 0.0 45.3 84.1#

132 0.0 65.6 121.8#

130 0.0 68.5 127.3#

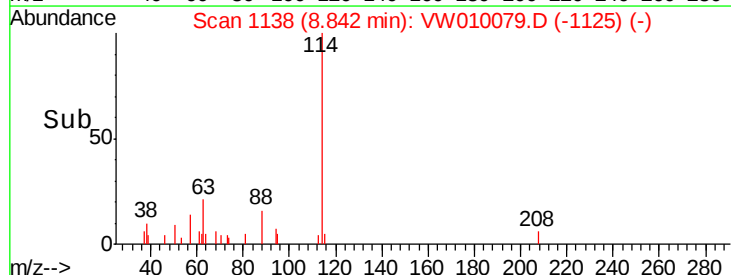
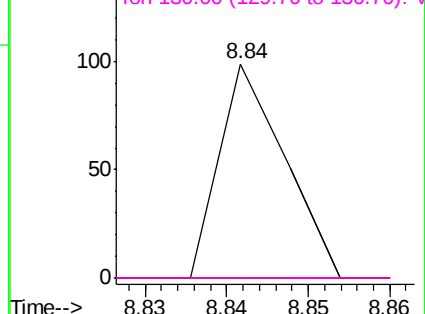


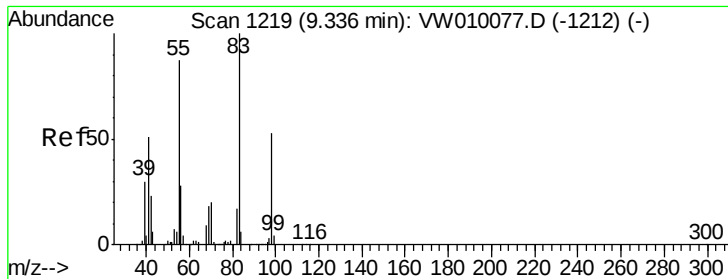
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

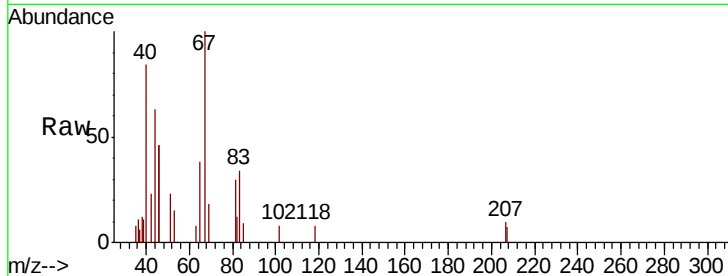




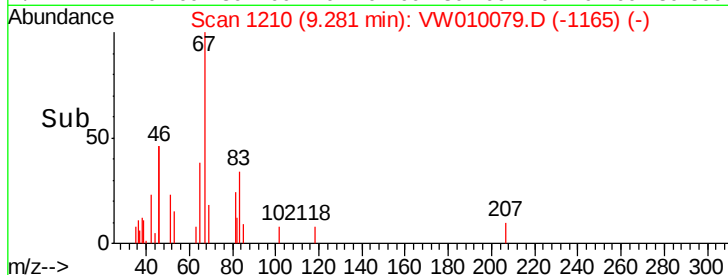
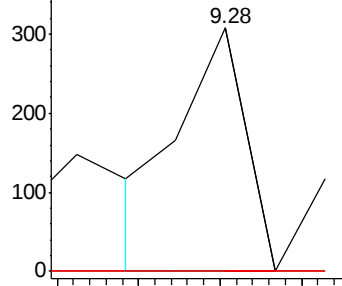
#36
Methylcyclohexane
Concen: 3.053 ug/L
RT: 9.28 min Scan# 1210
Delta R.T. -0.05 min
Lab File: VW010079.D
Acq: 22 Apr 2019 12:47

Instrument :
MSVOA_W
ClientSampleId :
GAHQ3RE

Tgt Ion: 83 Resp: 173
Ion Ratio Lower Upper
83 100
55 0.0 68.4 102.6#
98 0.0 40.0 60.0#

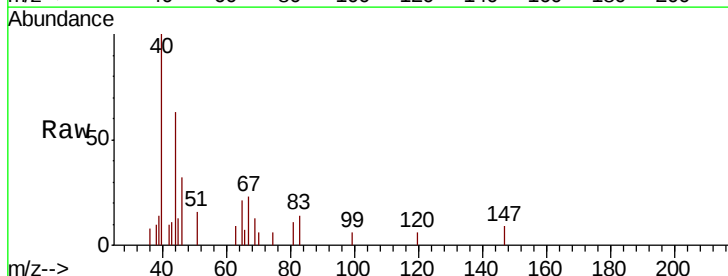
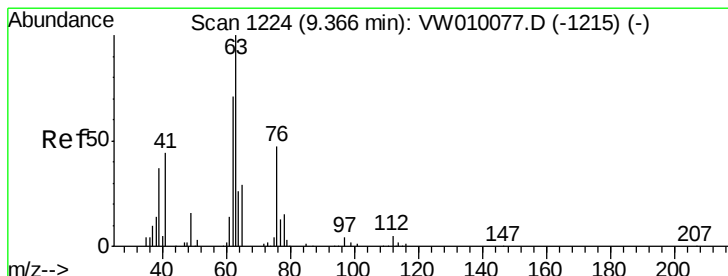


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

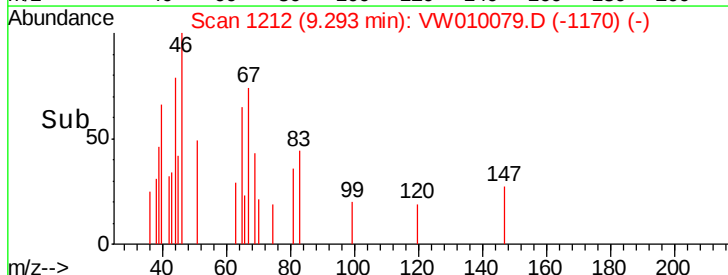
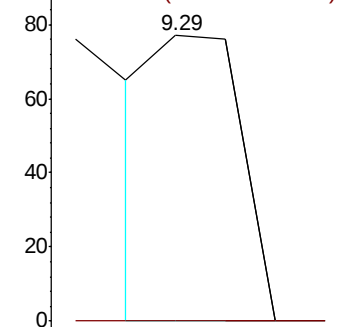


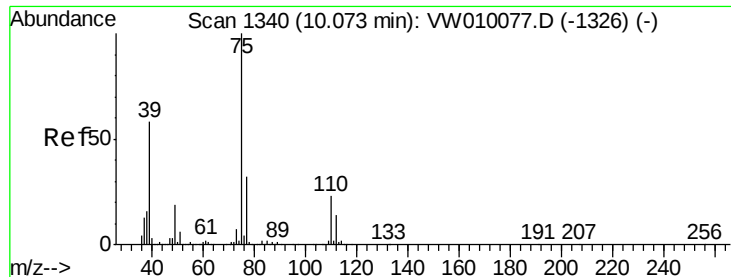
#40
1,2-Dichloropropane
Concen: 1.561 ug/L
RT: 9.29 min Scan# 1212
Delta R.T. -0.07 min
Lab File: VW010079.D
Acq: 22 Apr 2019 12:47

Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.2#



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 112.00 (111.70 to 112.70): V





#42

cis-1,3-Dichloropropene

Concen: 0.886 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

MSVOA_W

ClientSampleId :

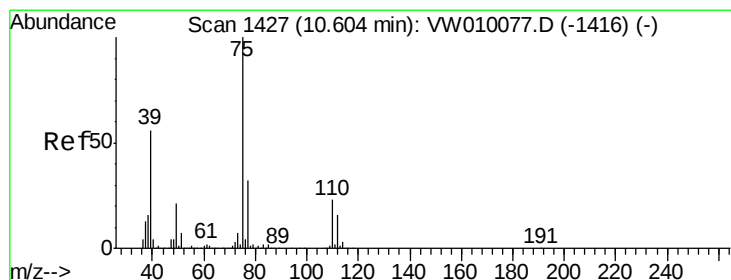
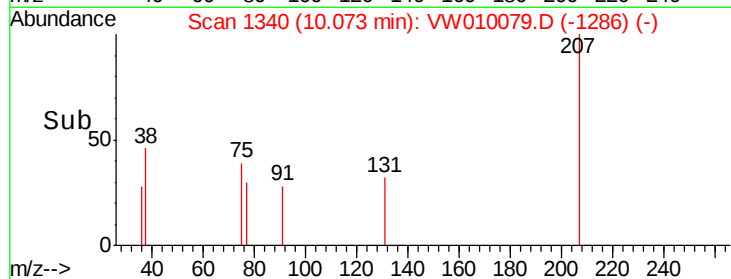
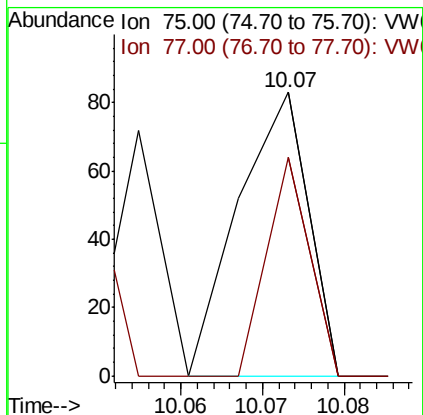
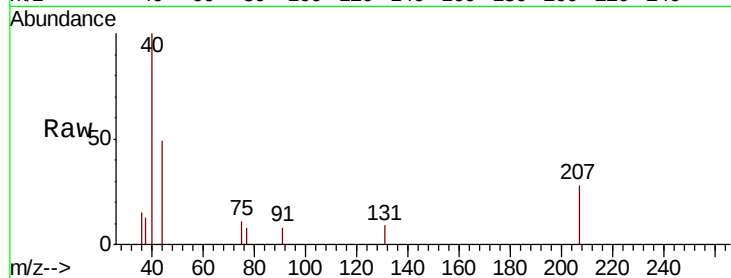
GAHQ3RE

Tgt Ion: 75 Resp: 49

Ion Ratio Lower Upper

75 100

77 77.1 21.8 40.4#



#45

trans-1,3-Dichloropropene

Concen: 0.880 ug/L

RT: 10.85 min Scan# 1468

Delta R.T. 0.25 min

Lab File: VW010079.D

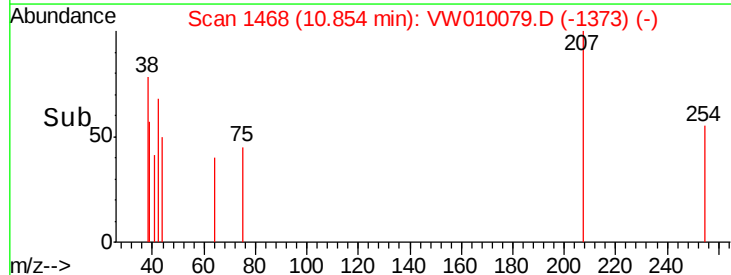
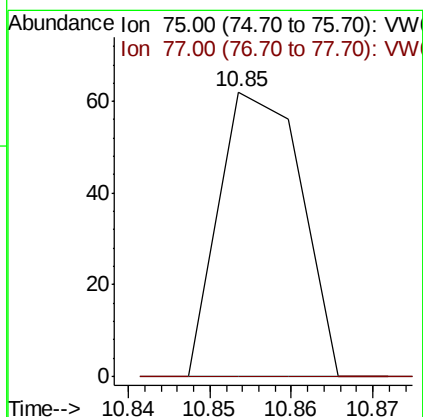
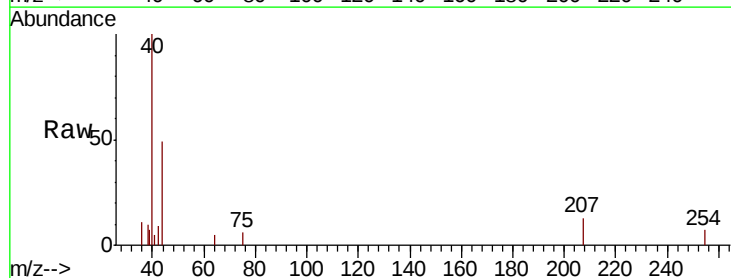
Acq: 22 Apr 2019 12:47

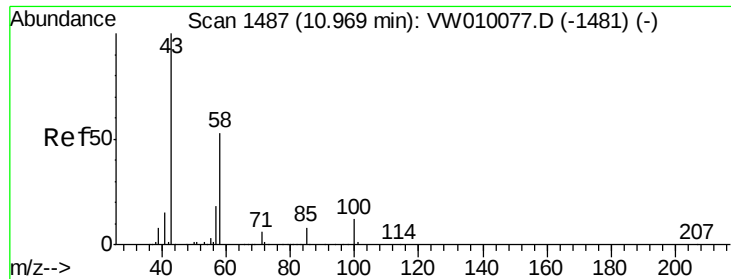
Tgt Ion: 75 Resp: 43

Ion Ratio Lower Upper

75 100

77 0.0 22.0 41.0#





#49

2-Hexanone

Concen: 4.239 ug/L

RT: 10.98 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

MSVOA_W

ClientSampleId :

GAHQ3RE

Tgt Ion: 43 Resp: 89

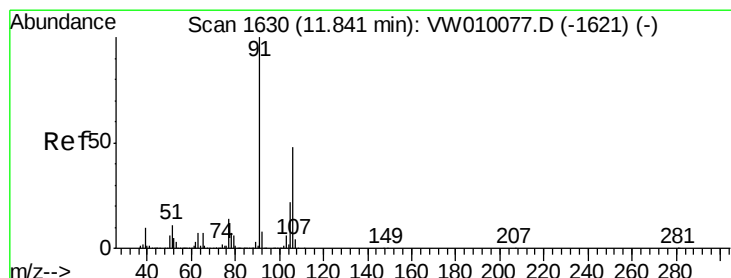
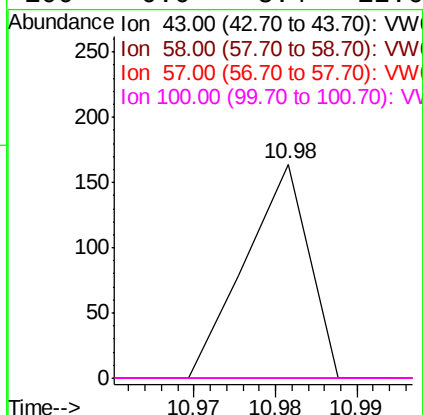
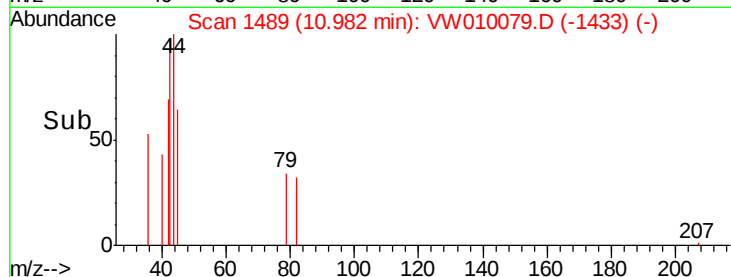
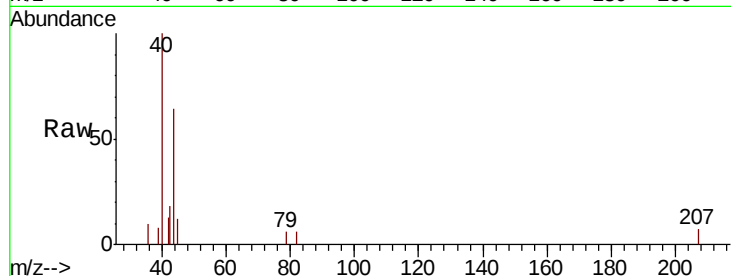
Ion Ratio Lower Upper

43 100

58 0.0 39.8 59.8#

57 0.0 14.1 21.1#

100 0.0 8.4 12.6#



#54

m,p-Xylene

Concen: 0.833 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.11 min

Lab File: VW010079.D

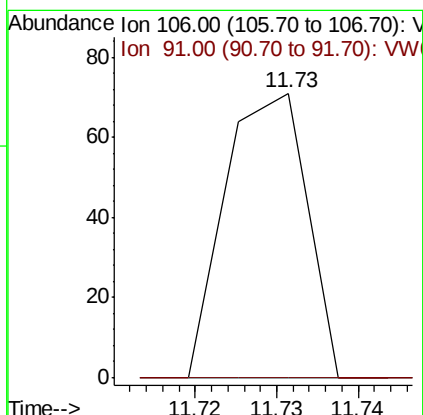
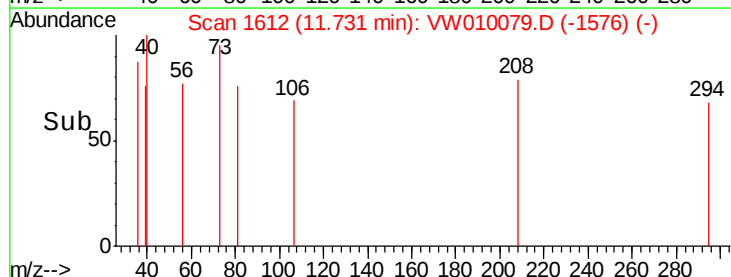
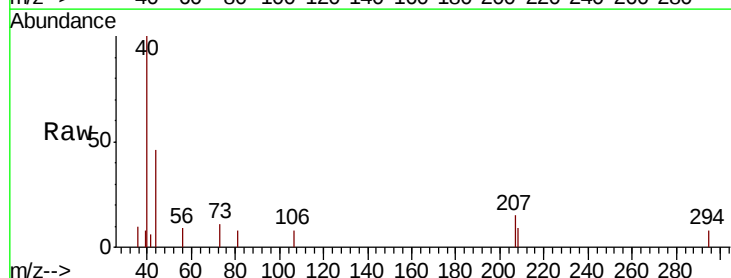
Acq: 22 Apr 2019 12:47

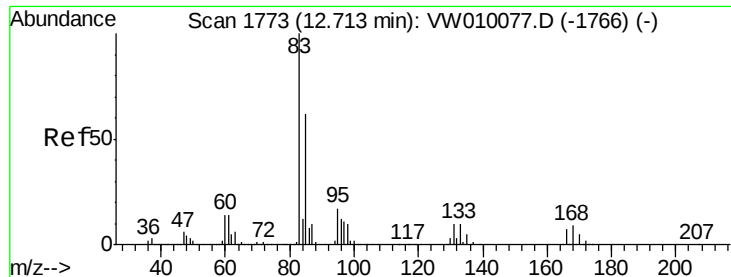
Tgt Ion: 106 Resp: 49

Ion Ratio Lower Upper

106 100

91 0.0 143.4 266.2#





#58

1,1,2,2-Tetrachloroethane

Concen: 3.396 ug/L

RT: 12.93 min Scan# 1809

Delta R.T. 0.22 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Instrument :

MSVOA_W

ClientSampleId :

GAHQ3RE

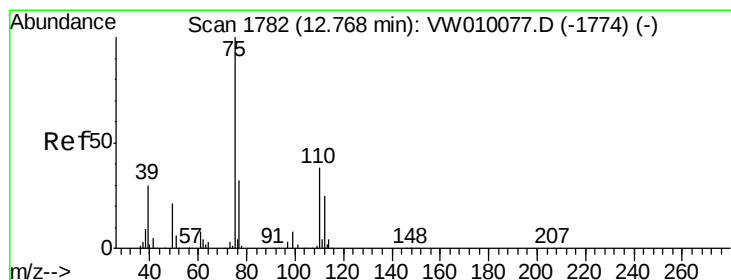
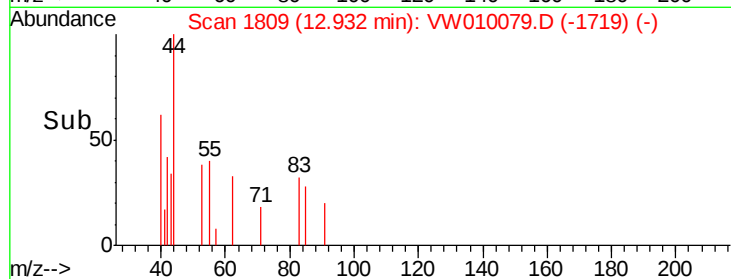
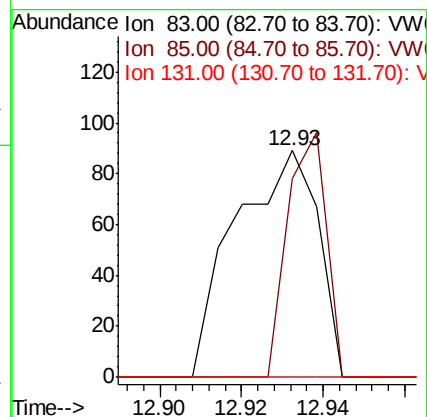
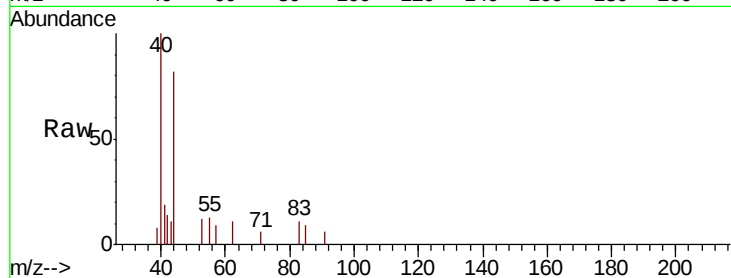
Tgt Ion: 83 Resp: 125

Ion Ratio Lower Upper

83 100

85 87.6 44.1 81.9#

131 0.0 8.3 12.5#



#59

1,2,3-Trichloropropane

Concen: 3.194 ug/L

RT: 12.60 min Scan# 1755

Delta R.T. -0.16 min

Lab File: VW010079.D

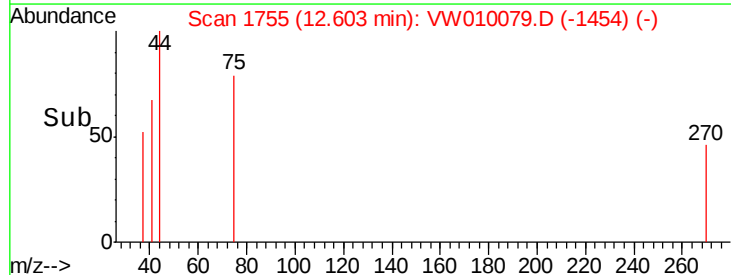
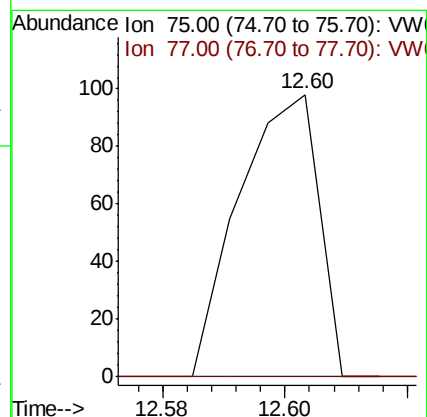
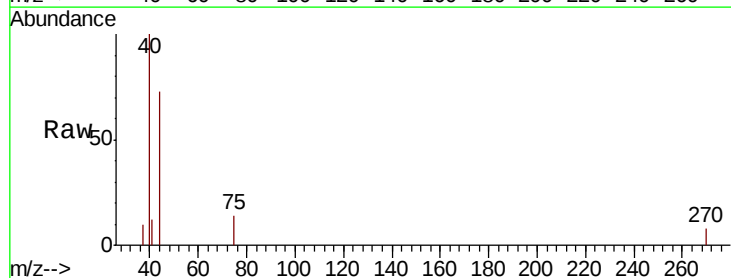
Acq: 22 Apr 2019 12:47

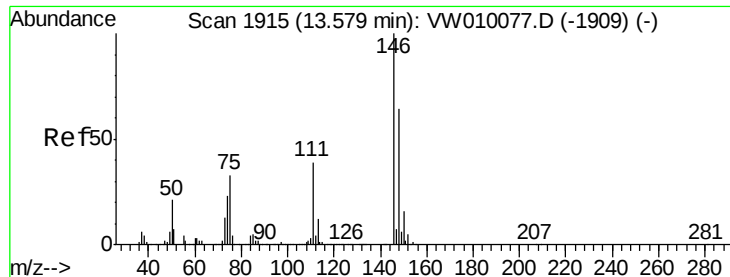
Tgt Ion: 75 Resp: 88

Ion Ratio Lower Upper

75 100

77 30.7 25.8 38.6





#64

1,4-Dichlorobenzene

Concen: 2.584 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.29 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

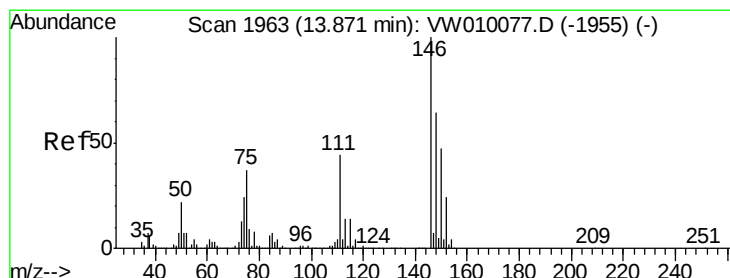
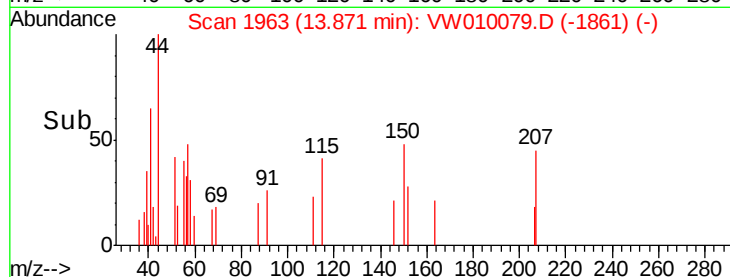
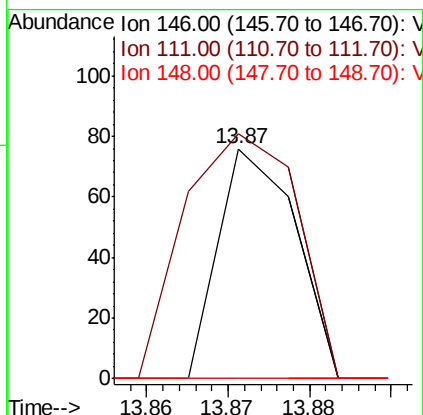
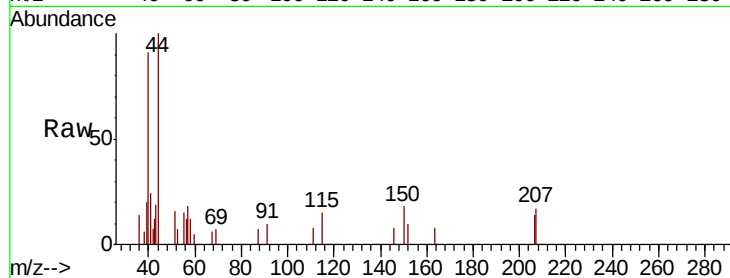
Instrument :

MSVOA_W

ClientSampleId :

GAHQ3RE

Tgt Ion:	146	Resp:	50
Ion	Ratio	Lower	Upper
146	100		
111	106.6	28.0	52.0#
148	0.0	44.1	81.9#



#65

1,2-Dichlorobenzene

Concen: 2.830 ug/L

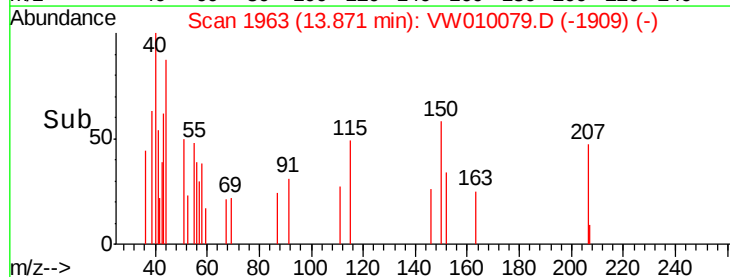
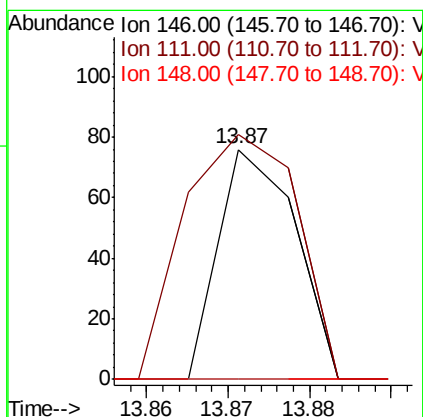
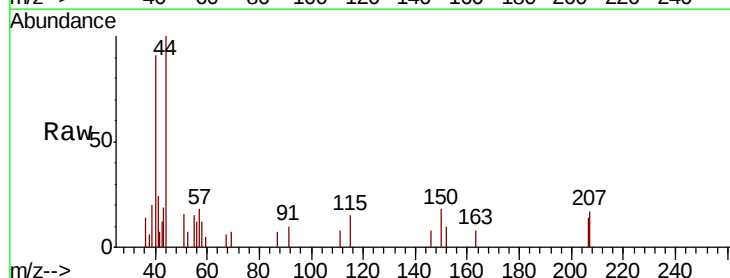
RT: 13.87 min Scan# 1963

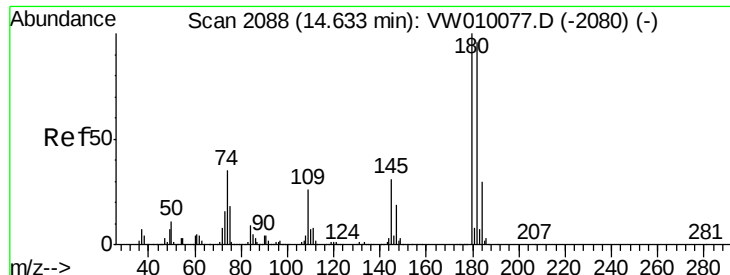
Delta R.T. -0.00 min

Lab File: VW010079.D

Acq: 22 Apr 2019 12:47

Tgt Ion:	146	Resp:	50
Ion	Ratio	Lower	Upper
146	100		
111	106.6	35.0	52.6#
148	0.0	50.4	75.6#

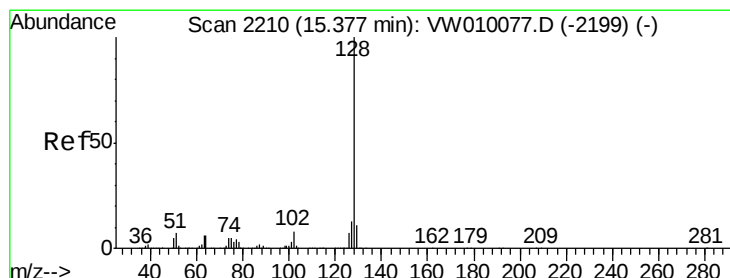
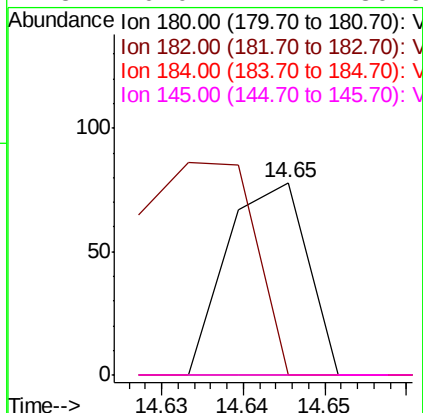
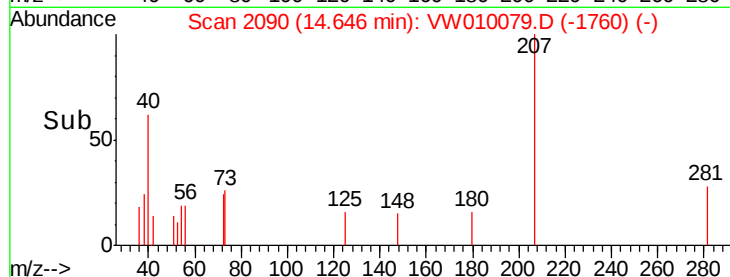
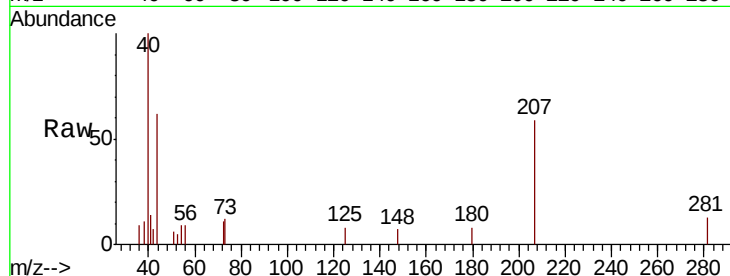




#67
 1,3,5-Trichlorobenzene
 Concen: 4.019 ug/L
 RT: 14.65 min Scan# 2090
 Delta R.T. 0.01 min
 Lab File: VW010079.D
 Acq: 22 Apr 2019 12:47

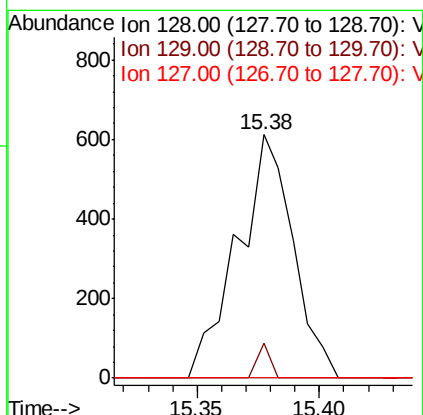
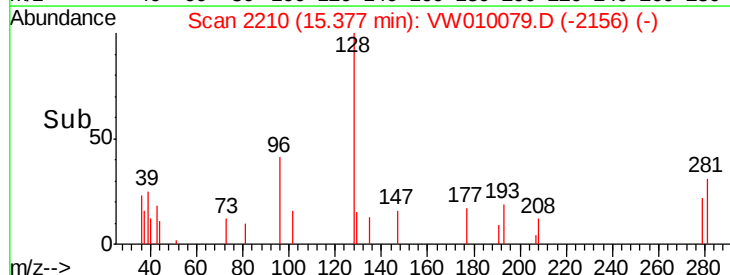
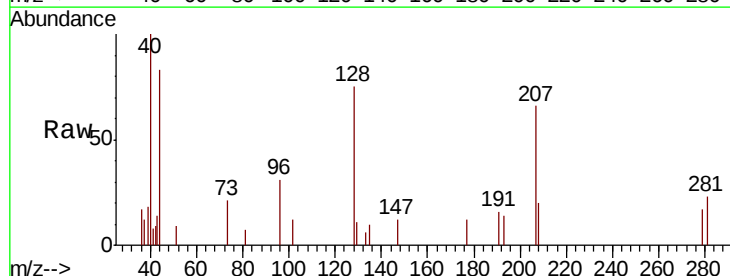
Instrument :
 MSVOA_W
 ClientSampleId :
 GAHQ3RE

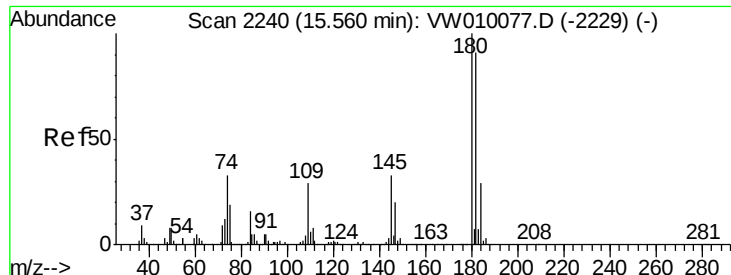
Tgt Ion	Ratio	Lower	Upper
180	100		
182	162.3	76.8	115.2#
184	0.0	24.0	36.0#
145	0.0	24.4	36.6#



#69
 Naphthalene
 Concen: 41.833 ug/L
 RT: 15.38 min Scan# 2210
 Delta R.T. -0.00 min
 Lab File: VW010079.D
 Acq: 22 Apr 2019 12:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.6	12.8#
127	0.0	10.6	16.0#





#70
 1,2,3-Trichlorobenzene
 Concen: 1.843 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW010079.D
 Acq: 22 Apr 2019 12:47

Instrument :
 MSVOA_W
 ClientSampleId :
 GAHQ3RE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.0	114.0#
145	0.0	26.3	39.5#

