

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
 Data File : VW009266.D
 Acq On : 20 Mar 2019 04:40
 Operator : SY/VA
 Sample : K1984-03
 Misc : 4.48G/5ML/MSVOA W/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-11(6-7)

Quant Time: Mar 20 08:22:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 07:22:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	73504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	119609	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	112066	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	50887	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	53754	68.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.50%	
35) Dibromofluoromethane	7.88	113	41200	54.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.60%	
50) Toluene-d8	10.32	98	145527	52.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.56%	
62) 4-Bromofluorobenzene	12.62	95	52702	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	

Target Compounds

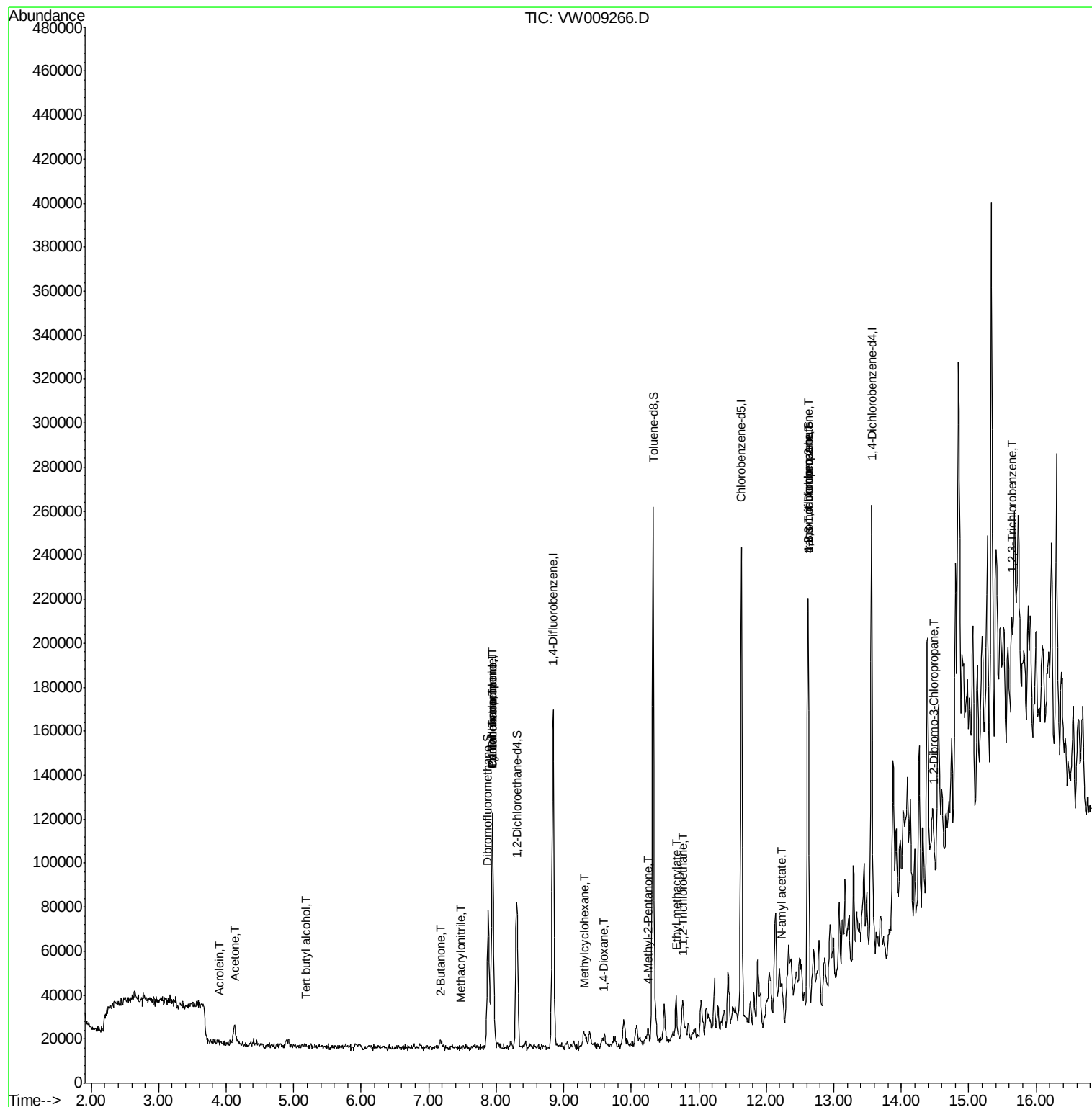
					Qvalue	
2) Dichlorodifluoromethane	1.96	85	20	Below Cal	#	41
11) Tert butyl alcohol	5.18	59	203	4.472	ug/l #	70
13) Acrolein	3.89	56	127	3.428	ug/l #	15
16) Acetone	4.12	43	16334	101.828	ug/l	94
25) 2-Butanone	7.18	43	4809	20.923	ug/l #	69
31) Cyclohexane	7.95	56	2127	1.658	ug/l #	40
36) 1,1-Dichloropropene	7.95	75	6194	5.204	ug/l #	51
38) Carbon Tetrachloride	7.95	117	7072	5.614	ug/l #	17
39) Methylcyclohexane	9.30	83	1483	1.077	ug/l #	71
41) Methacrylonitrile	7.47	41	436	1.489	ug/l #	40
49) 1,4-Dioxane	9.59	88	25	3.572	ug/l #	1
51) 4-Methyl-2-Pentanone	10.24	43	688	1.214	ug/l	88
55) 1,1,2-Trichloroethane	10.76	97	5535	9.060	ug/l #	20
56) Ethyl methacrylate	10.66	69	2307	3.171	ug/l #	1
74) N-amyl acetate	12.23	43	3852	4.342	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	27681	57.886	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	27681	142.036	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.48	75	131	1.150	ug/l #	31
96) 1,2,3-Trichlorobenzene	15.63	180	906	1.011	ug/l	92

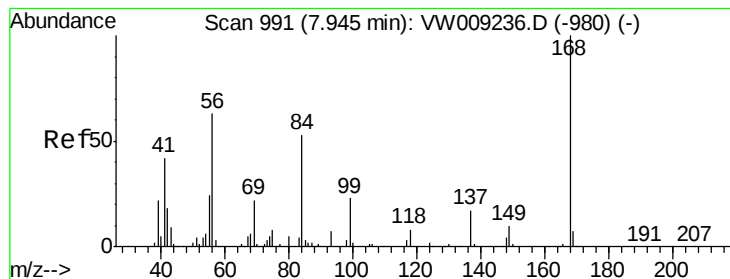
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 20 07:22:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

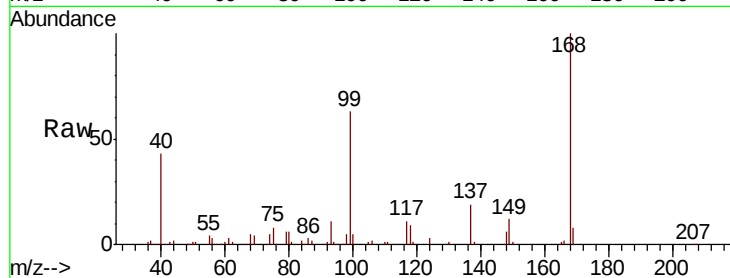
SB-11(6-7)

Tot Ion:168 Resp: 73504

Ion Ratio Lower Upper

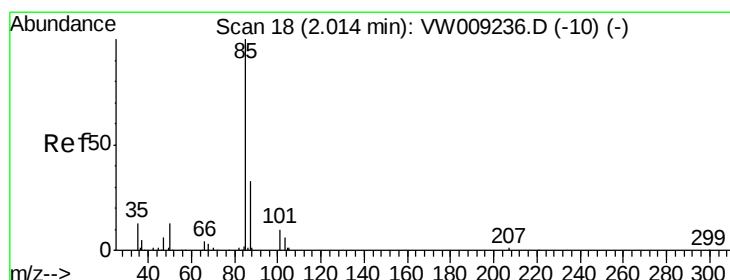
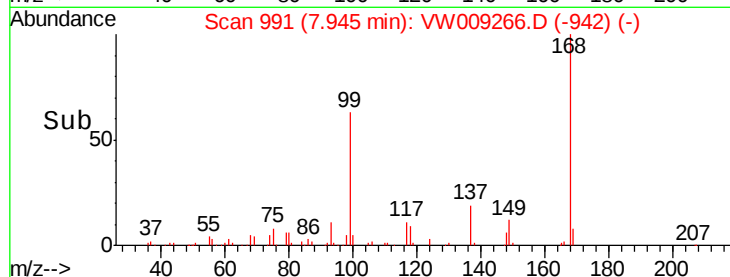
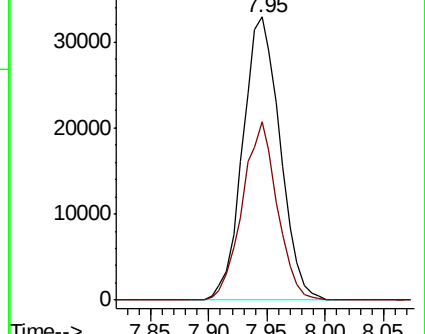
168 100

99 62.9 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.96 min Scan# 10

Delta R.T. -0.05 min

Lab File: VW009266.D

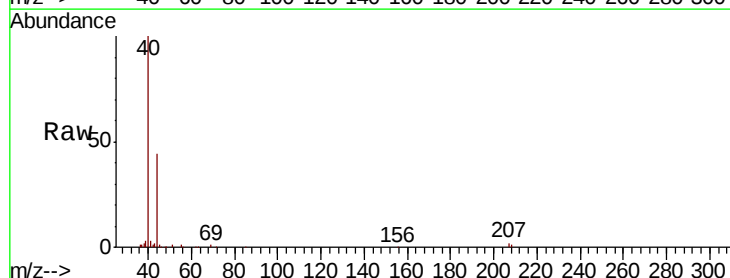
Acq: 20 Mar 2019 04:40

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

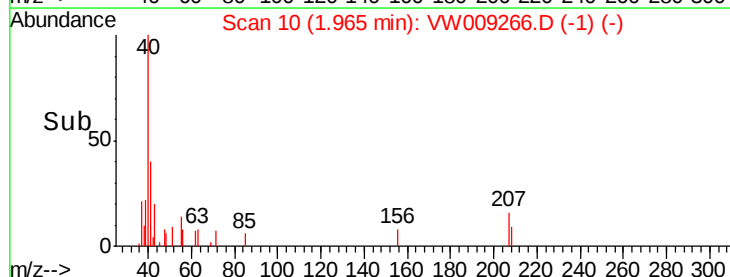
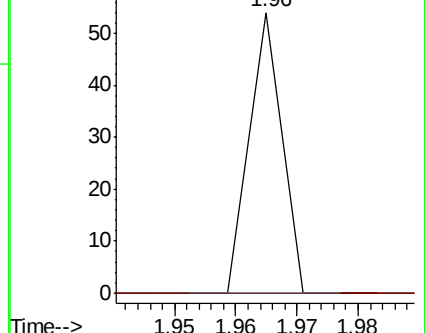
85 100

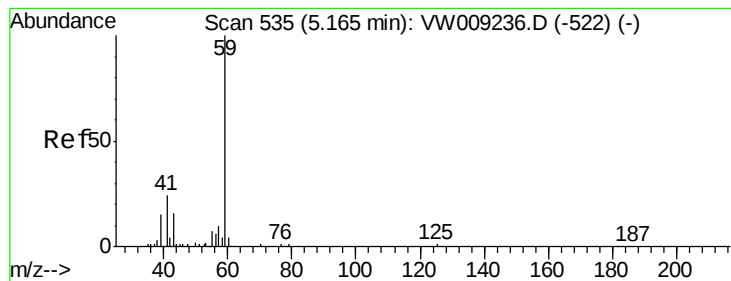
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW



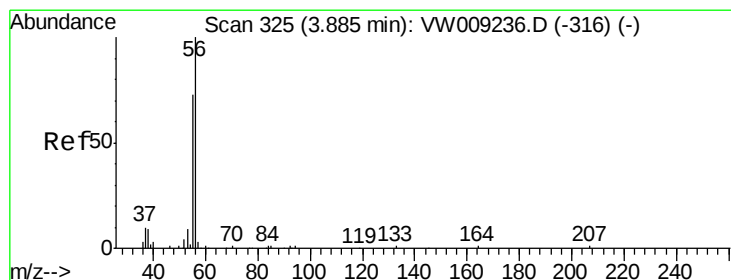
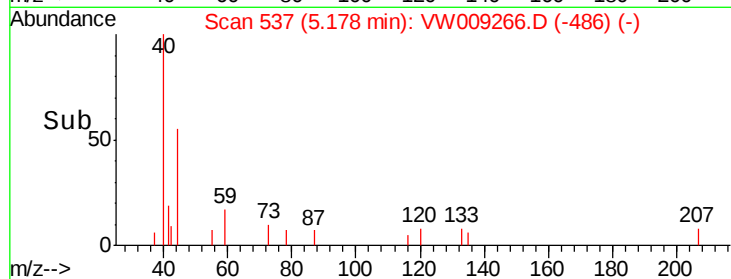
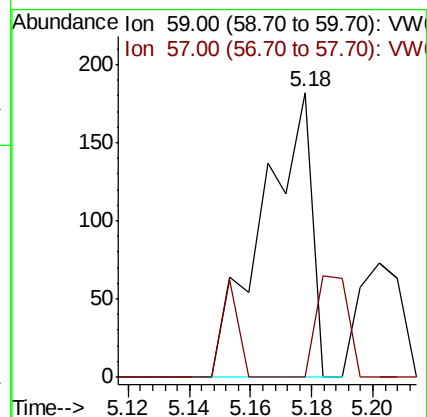
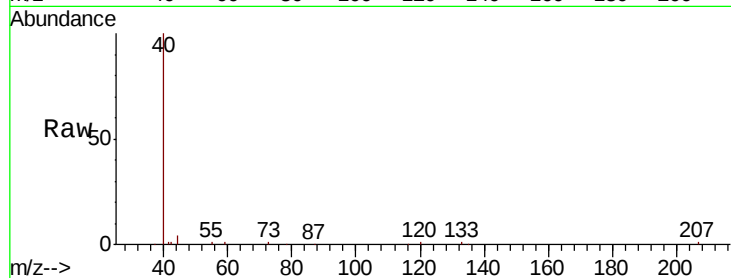


#11

Tert butyl alcohol
Concen: 4.472 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.01 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

Instrument :
MSVOA_W
ClientSampled :
SB-11(6-7)

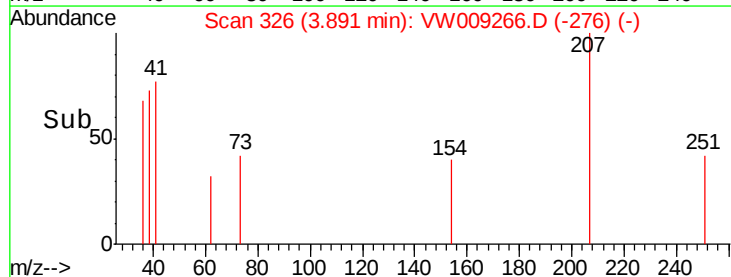
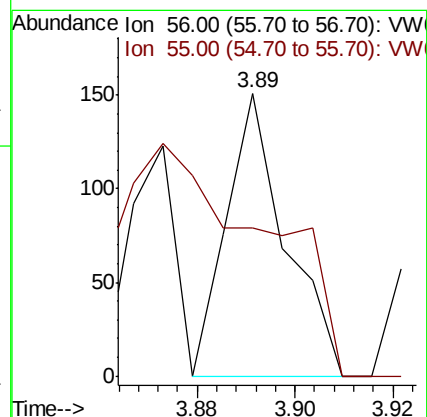
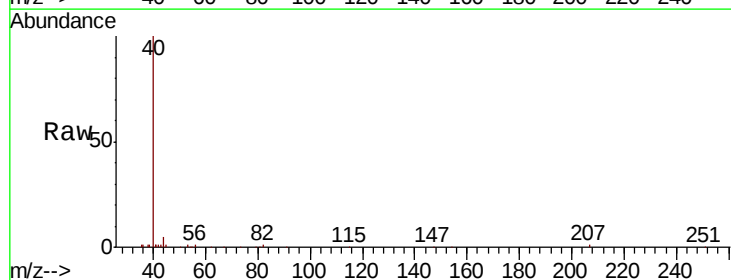
Tot Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
57 23.2 9.4 14.0#

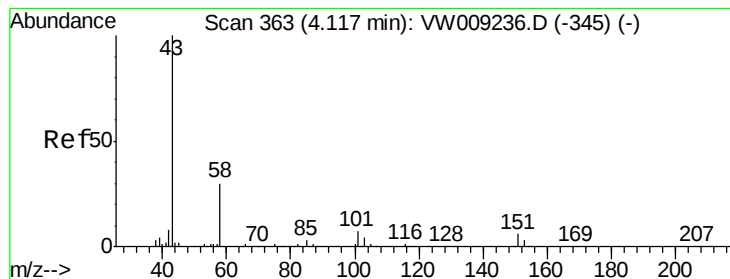


#13

Acrolein
Concen: 3.428 ug/l
RT: 3.89 min Scan# 326
Delta R.T. 0.01 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

Tgt Ion: 56 Resp: 127
Ion Ratio Lower Upper
56 100
55 0.0 55.2 82.8#





#16

Acetone

Concen: 101.828 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampled :

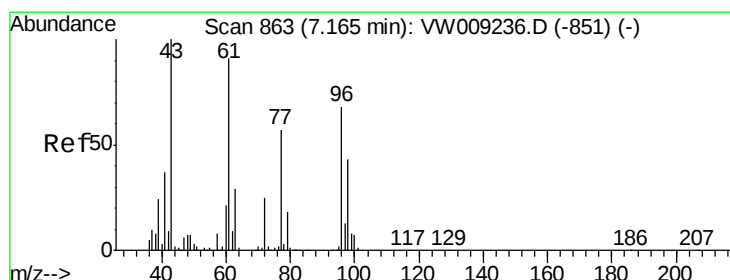
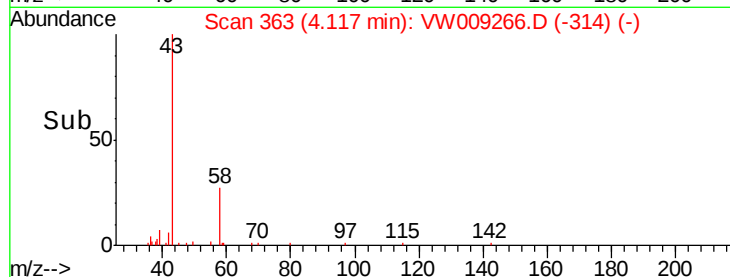
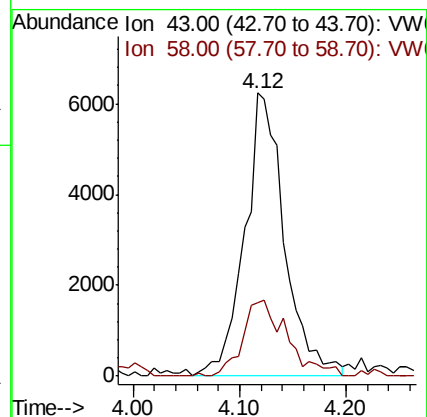
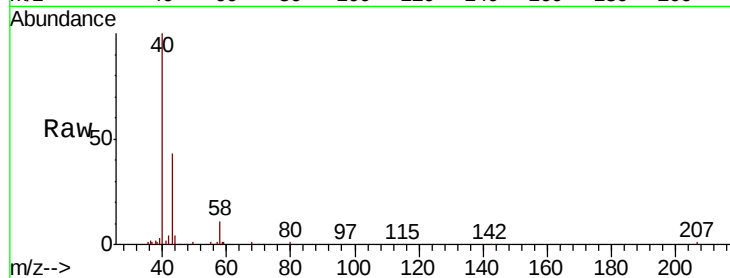
SB-11(6-7)

Tot Ion: 43 Resp: 16334

Ion Ratio Lower Upper

43 100

58 26.1 23.6 35.4



#25

2-Butanone

Concen: 20.923 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW009266.D

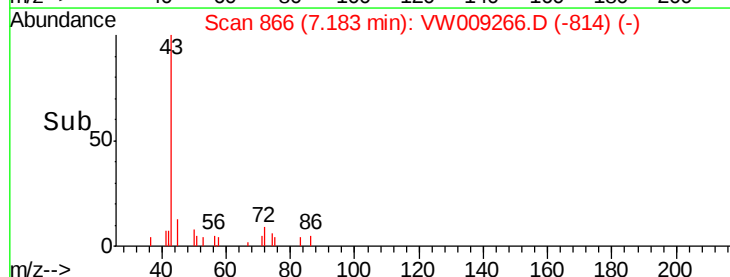
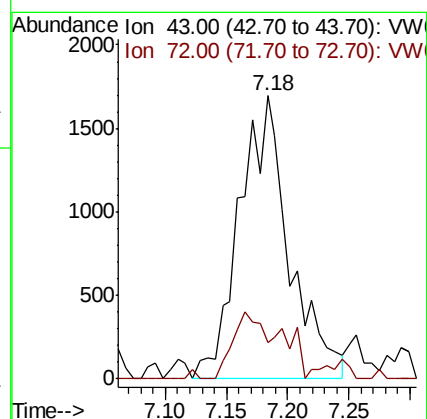
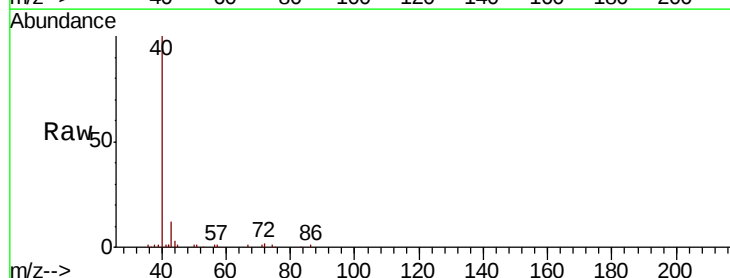
Acq: 20 Mar 2019 04:40

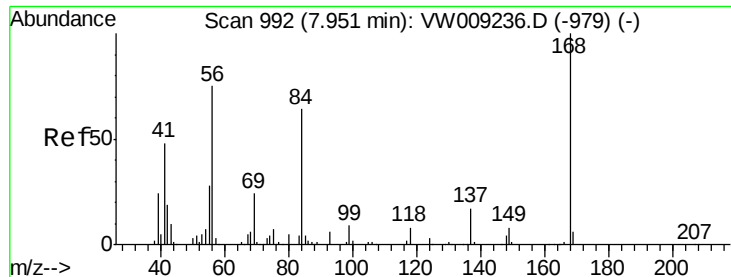
Tgt Ion: 43 Resp: 4809

Ion Ratio Lower Upper

43 100

72 9.6 20.0 30.0#





#31

Cyclohexane

Concen: 1.658 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

SB-11(6-7)

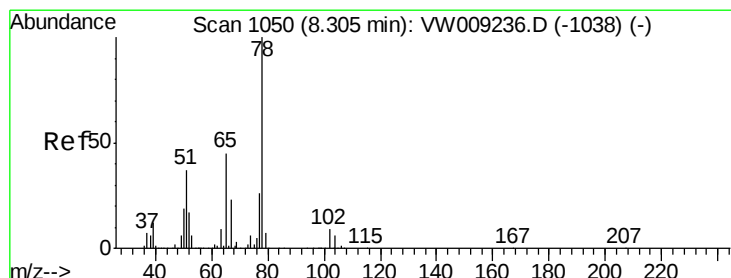
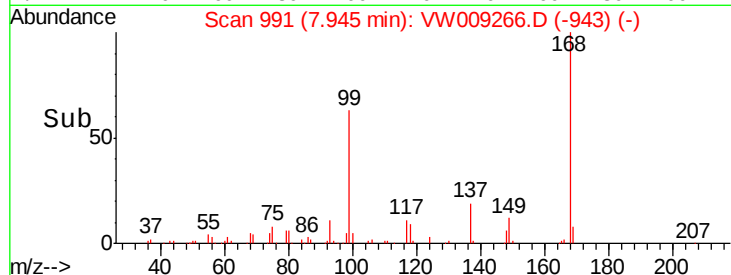
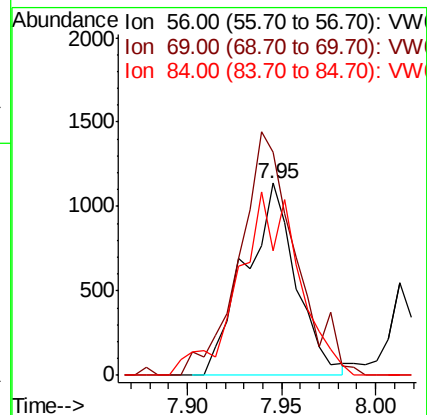
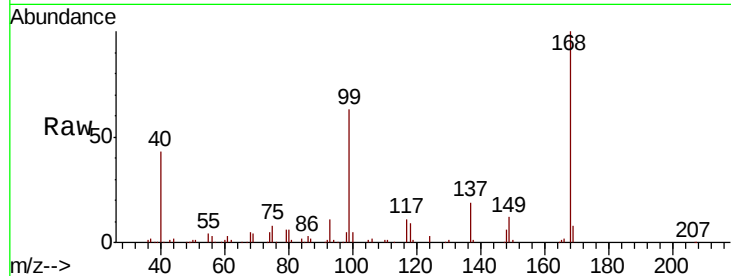
Tot Ion: 56 Resp: 2127

Ion Ratio Lower Upper

56 100

69 111.3 26.1 39.1#

84 59.1 68.6 103.0#



#33

1,2-Dichloroethane-d4

Concen: 68.753 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009266.D

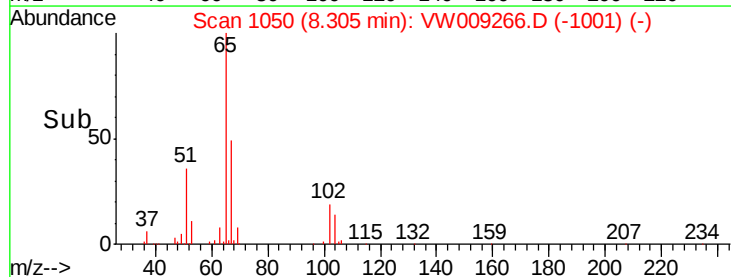
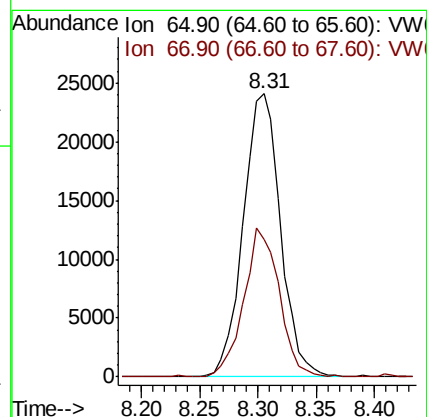
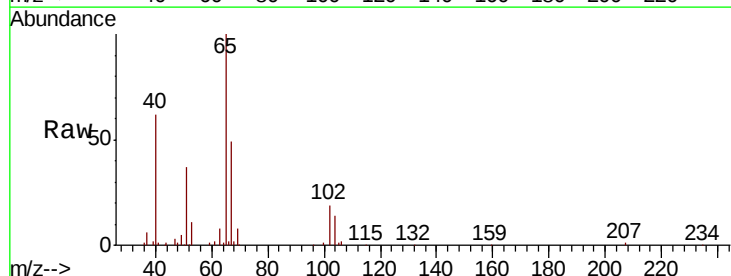
Acq: 20 Mar 2019 04:40

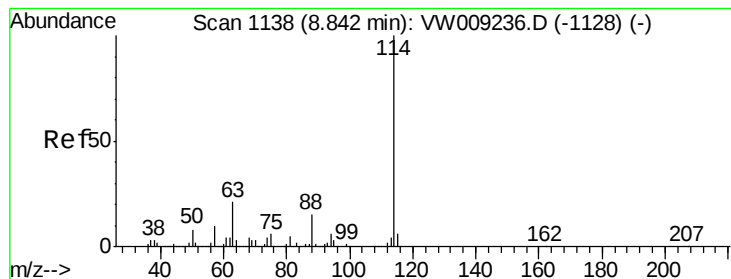
Tgt Ion: 65 Resp: 53754

Ion Ratio Lower Upper

65 100

67 50.1 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

SB-11(6-7)

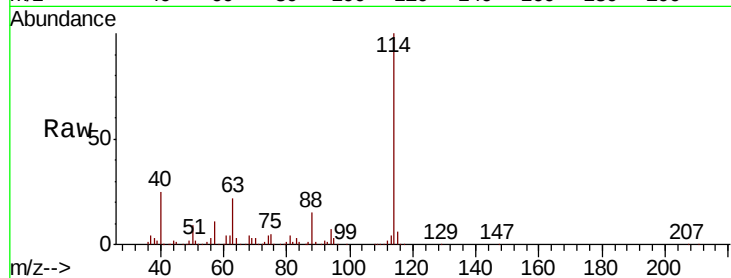
Tot Ion:114 Resp: 119609

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.2

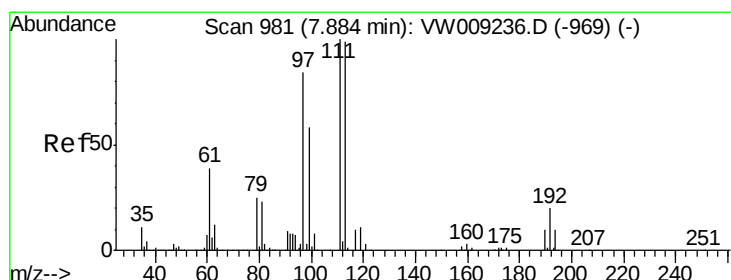
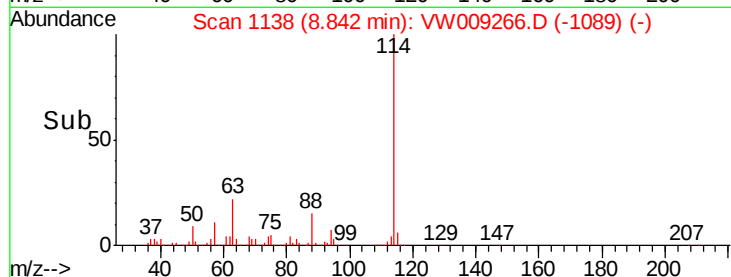
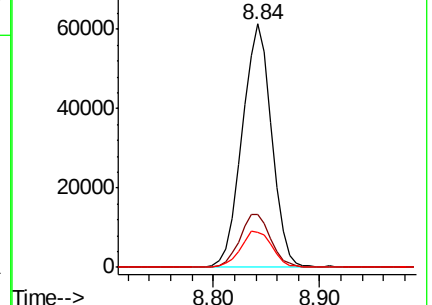
88 14.6 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 54.301 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

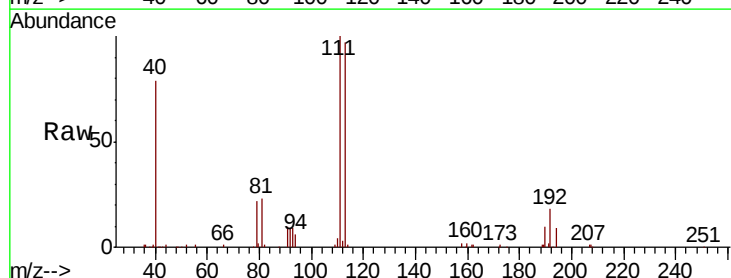
Tgt Ion:113 Resp: 41200

Ion Ratio Lower Upper

113 100

111 103.9 82.6 124.0

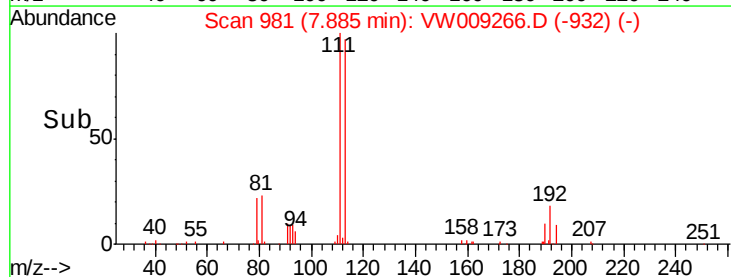
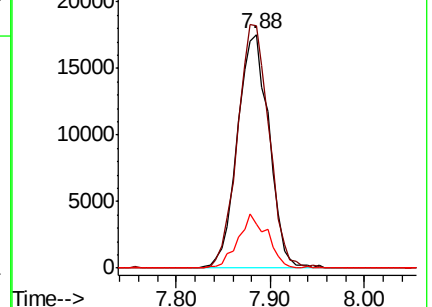
192 21.4 16.4 24.6

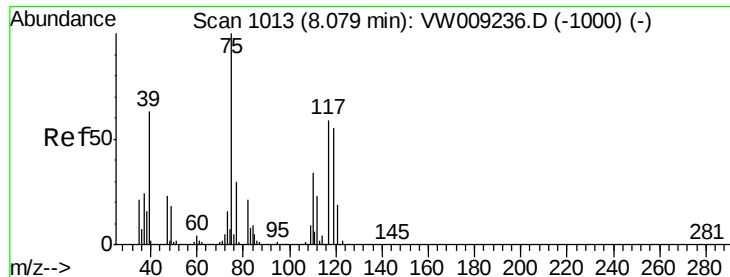


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

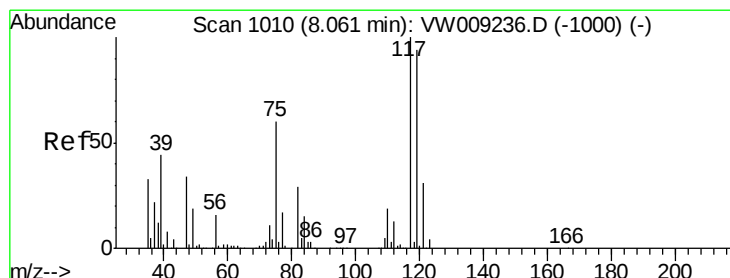
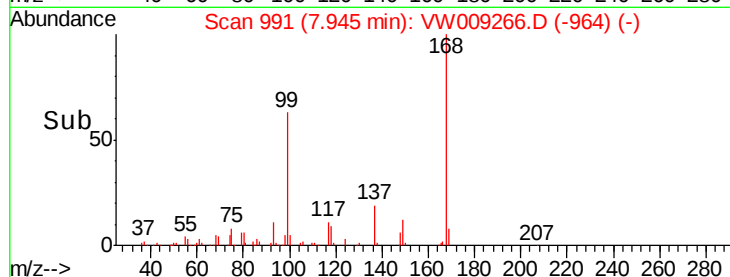
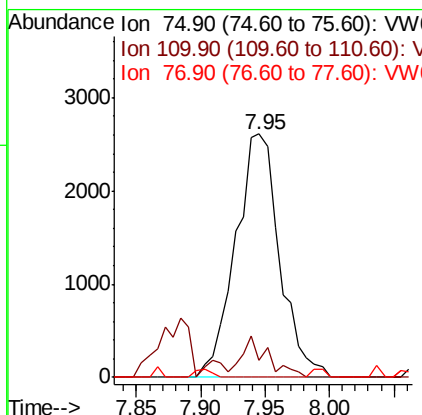
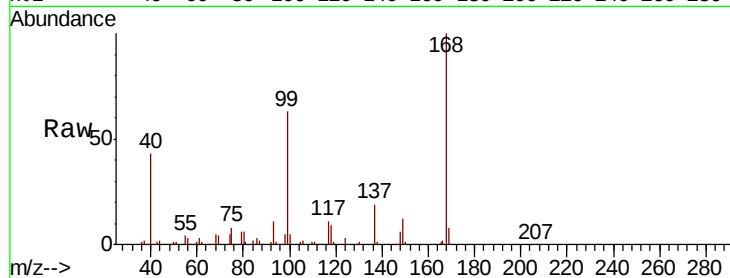




#36
 1,1-Dichloropropene
 Concen: 5.204 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009266.D
 Acq: 20 Mar 2019 04:40

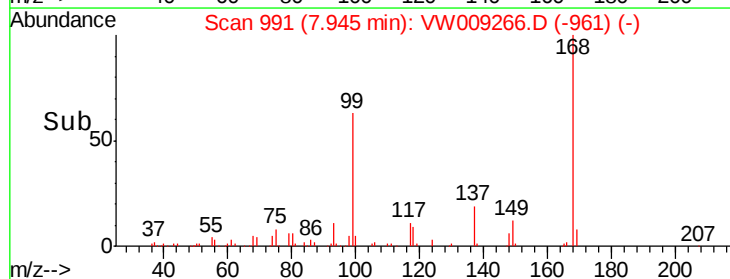
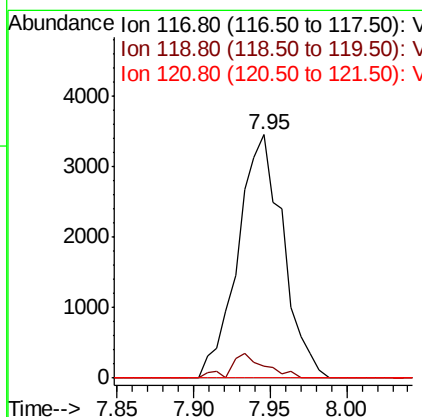
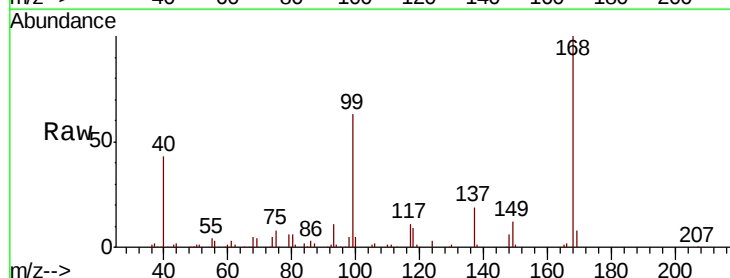
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-11(6-7)

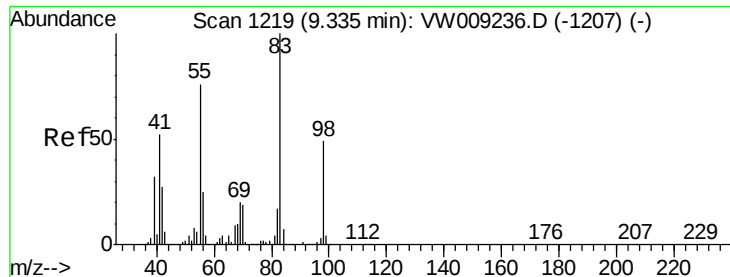
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	16.8	50.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.614 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW009266.D
 Acq: 20 Mar 2019 04:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	75.4	113.0#
121	0.0	24.9	37.3#

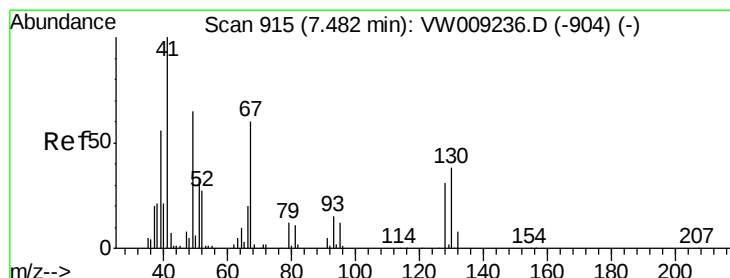
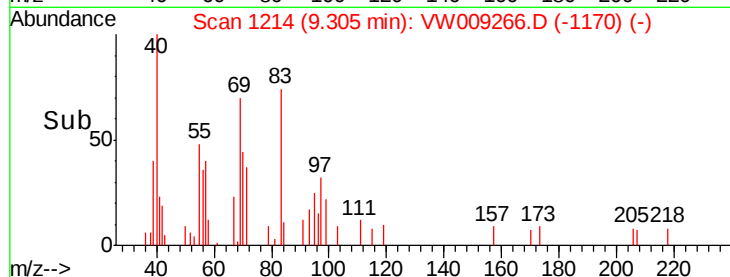
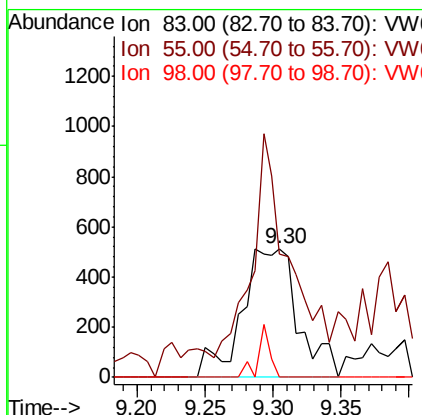
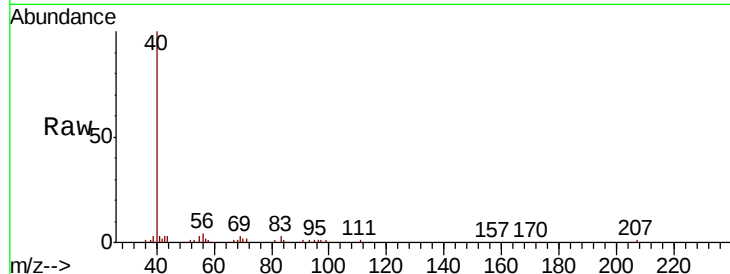




#39
Methylcyclohexane
Concen: 1.077 ug/l
RT: 9.30 min Scan# 1214
Delta R.T. -0.03 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

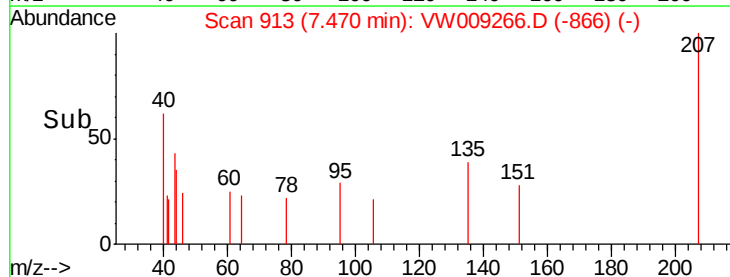
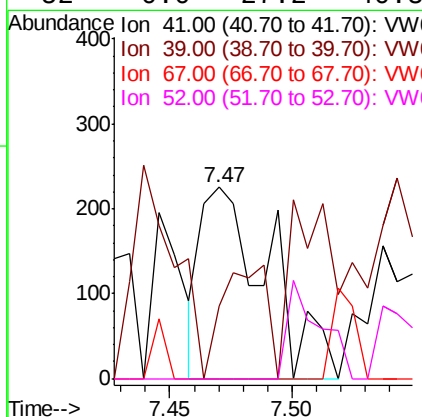
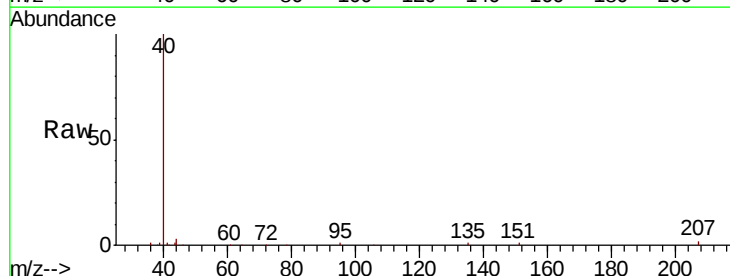
Instrument :
MSVOA_W
ClientSampleId :
SB-11(6-7)

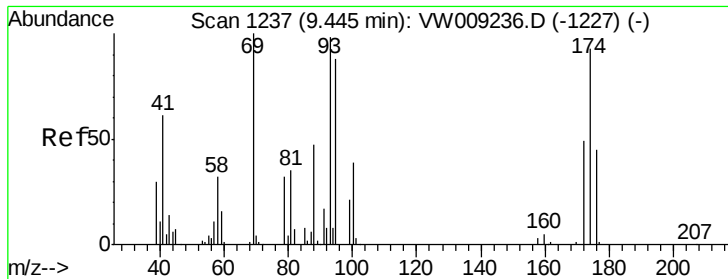
Tot Ion: 83 Resp: 1483
Ion Ratio Lower Upper
83 100
55 74.6 61.1 91.7
98 0.0 39.0 58.4#



#41
Methacrylonitrile
Concen: 1.489 ug/l
RT: 7.47 min Scan# 913
Delta R.T. -0.01 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

Tgt Ion: 41 Resp: 436
Ion Ratio Lower Upper
41 100
39 38.8 52.5 78.7#
67 0.0 56.6 84.8#
52 0.0 27.2 40.8#

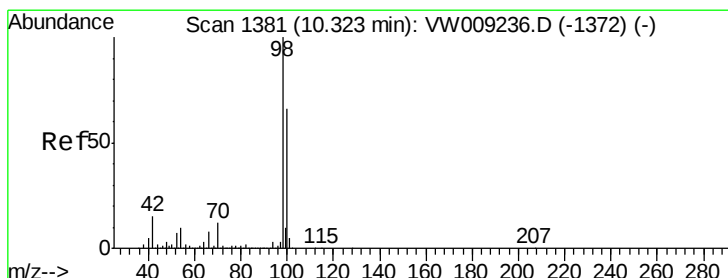
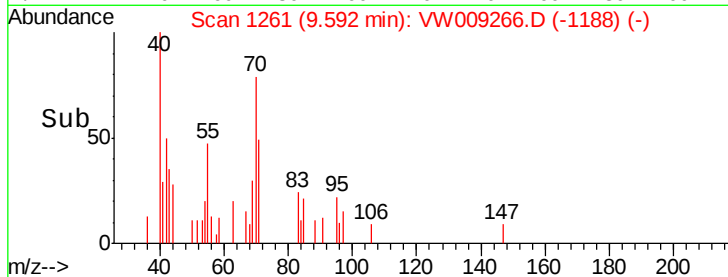
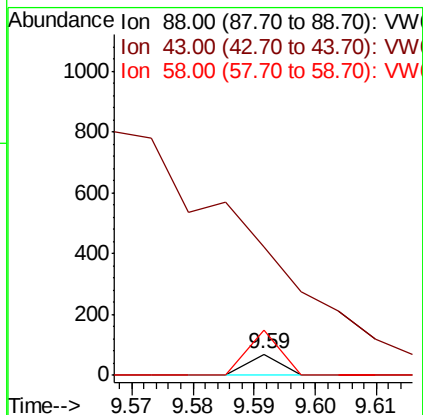
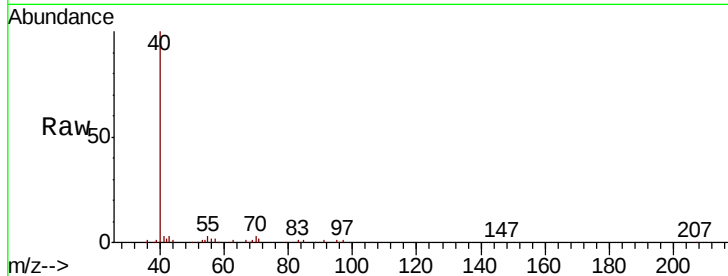




#49
1,4-Dioxane
Concen: 3.572 ug/l
RT: 9.59 min Scan# 1261
Delta R.T. 0.15 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

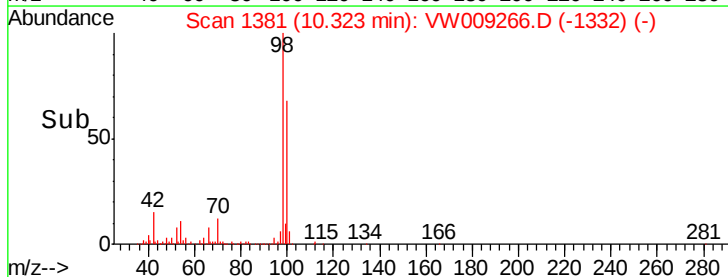
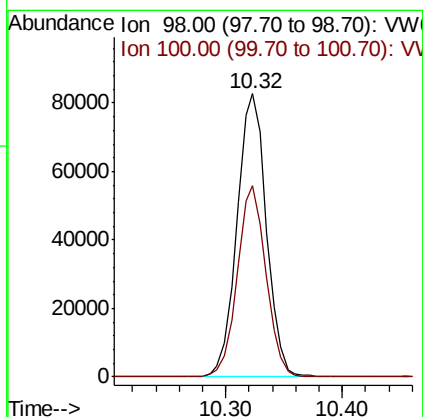
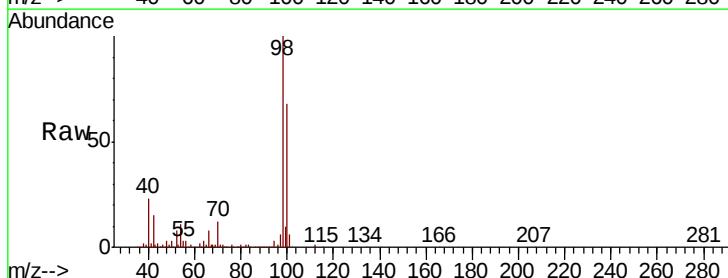
Instrument :
MSVOA_W
ClientSampled :
SB-11(6-7)

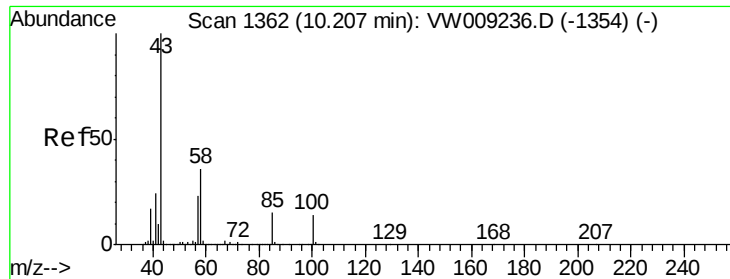
Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 29.7 44.5#
58 220.0 58.1 87.1#



#50
Toluene-d8
Concen: 52.779 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

Tgt Ion: 98 Resp: 145527
Ion Ratio Lower Upper
98 100
100 65.8 52.6 79.0





#51

4-Methyl-2-Pentanone

Concen: 1.214 ug/l

RT: 10.24 min Scan# 1368

Delta R.T. 0.04 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

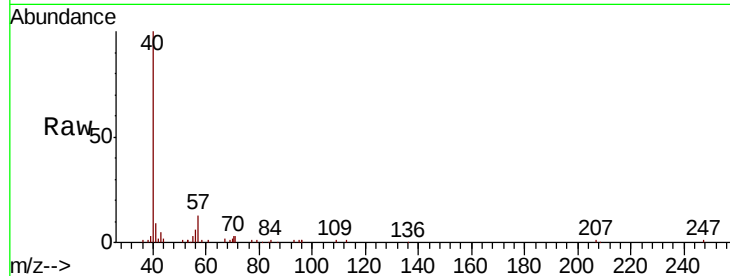
SB-11(6-7)

Tot Ion: 43 Resp: 688

Ion Ratio Lower Upper

43 100

58 42.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.24

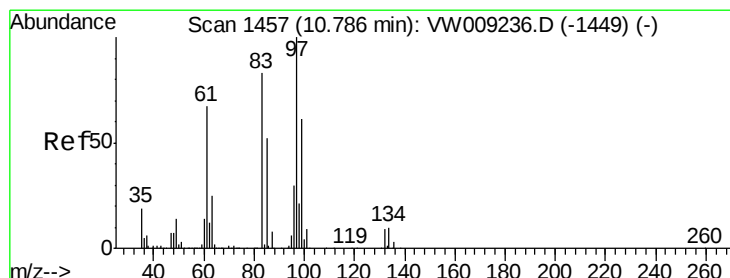
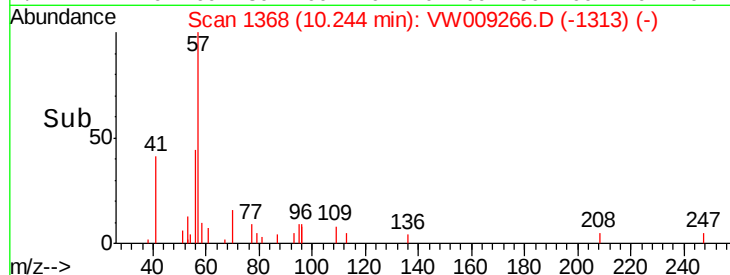
600

400

200

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 9.060 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Tgt Ion: 97 Resp: 5535

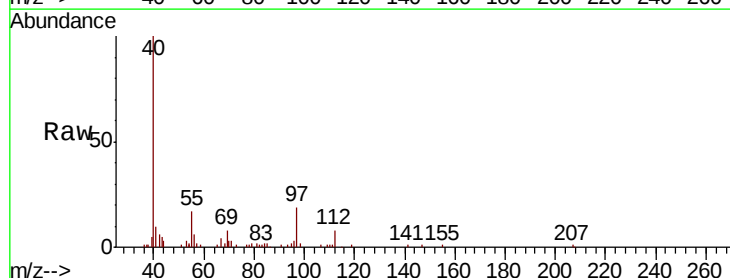
Ion Ratio Lower Upper

97 100

83 2.3 66.3 99.5#

85 6.2 41.4 62.2#

99 0.0 48.7 73.1#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

5000

4000

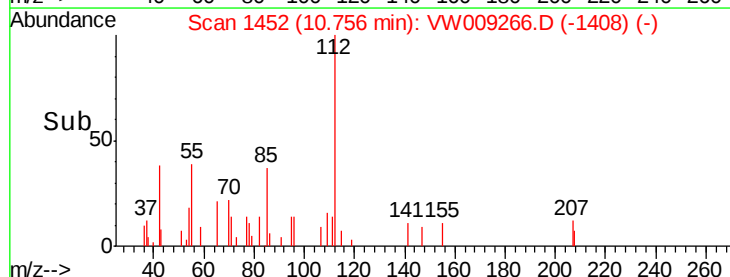
3000

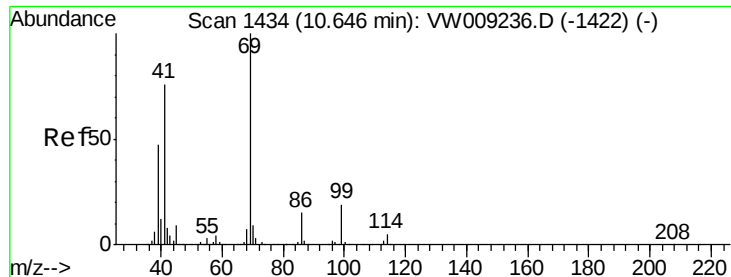
2000

1000

0

Time-->

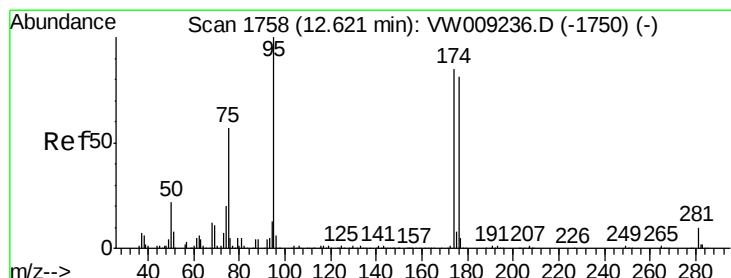
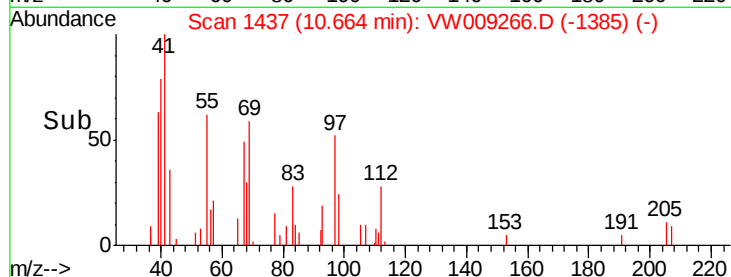
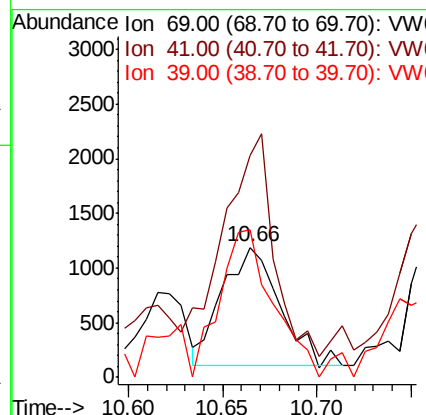
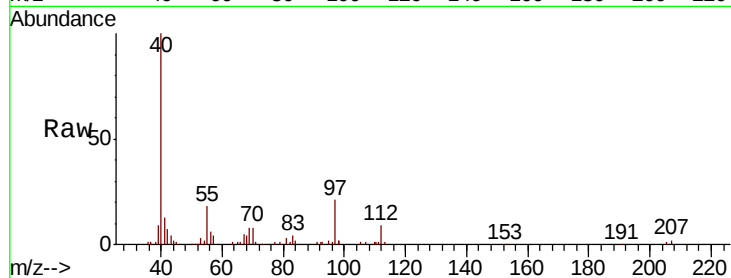




#56
Ethyl methacrylate
Concen: 3.171 ug/l
RT: 10.66 min Scan# 1437
Delta R.T. 0.02 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

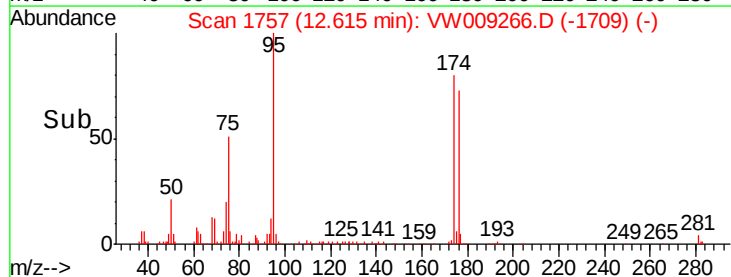
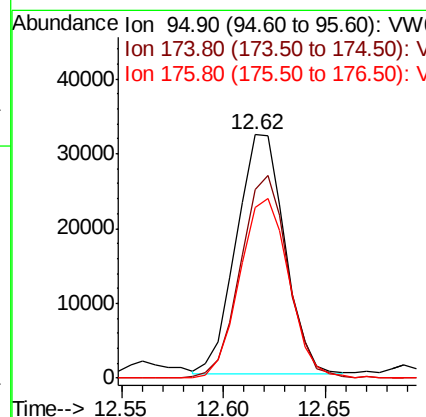
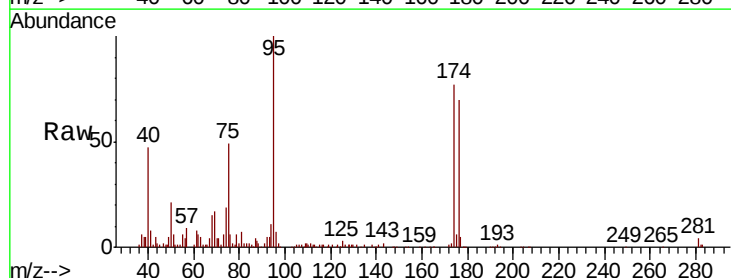
Instrument :
MSVOA_W
ClientSampleId :
SB-11(6-7)

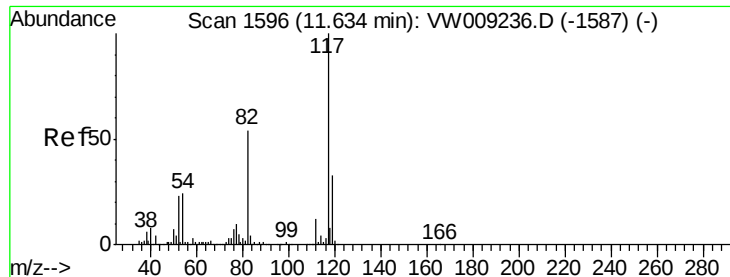
Tot Ion: 69 Resp: 2307
Ion Ratio Lower Upper
69 100
41 162.0 59.3 88.9#
39 115.5 36.2 54.2#



#62
4-Bromofluorobenzene
Concen: 52.057 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

Tgt Ion: 95 Resp: 52702
Ion Ratio Lower Upper
95 100
174 82.8 0.0 168.4
176 76.6 0.0 161.6

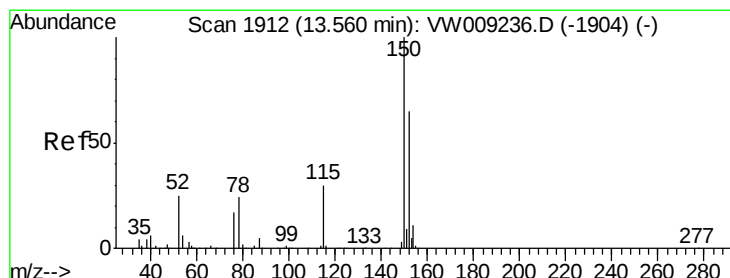
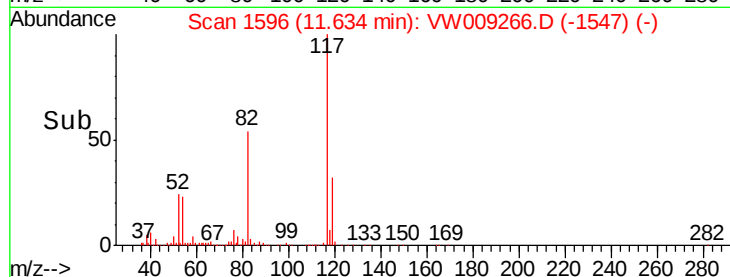
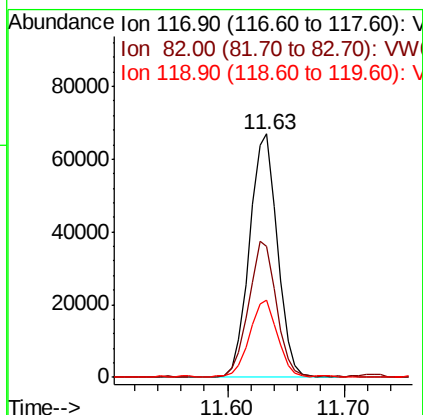
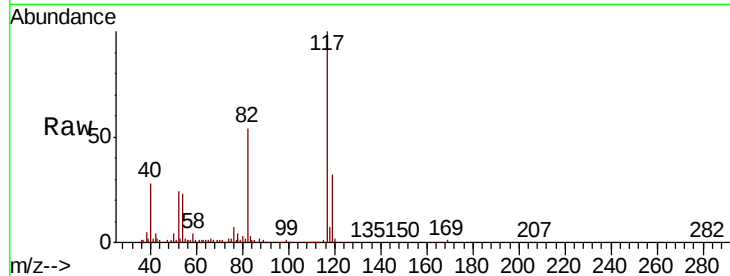




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

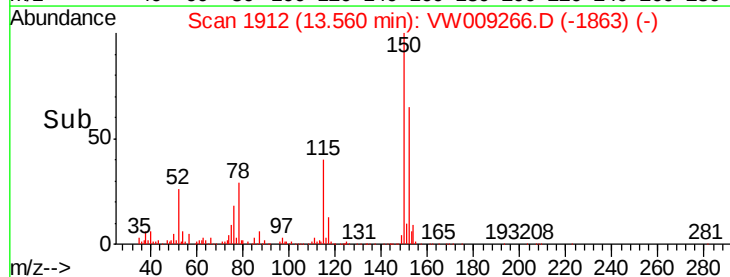
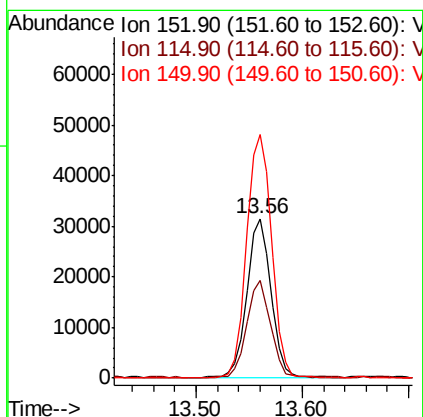
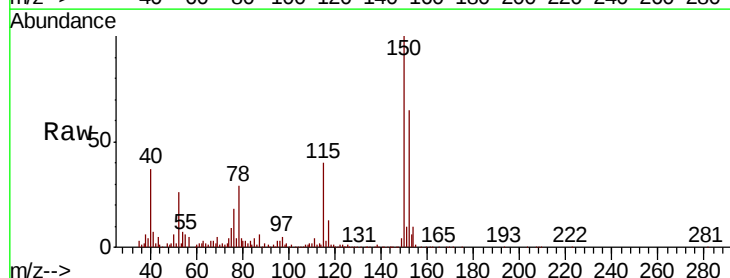
Instrument :
MSVOA_W
ClientSampleId :
SB-11(6-7)

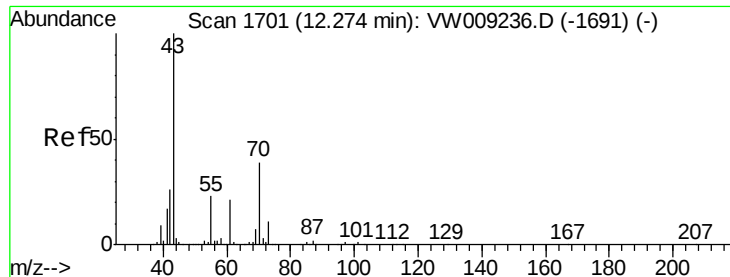
Tot Ion:117 Resp: 112066
Ion Ratio Lower Upper
117 100
82 53.5 43.6 65.4
119 31.3 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009266.D
Acq: 20 Mar 2019 04:40

Tgt Ion:152 Resp: 50887
Ion Ratio Lower Upper
152 100
115 58.9 29.6 88.8
150 156.4 0.0 349.2





#74

N-amvl acetate

Concen: 4.342 ug/l

RT: 12.23 min Scan# 1694

Delta R.T. -0.04 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

SB-11(6-7)

Tot Ion: 43 Resp: 3852

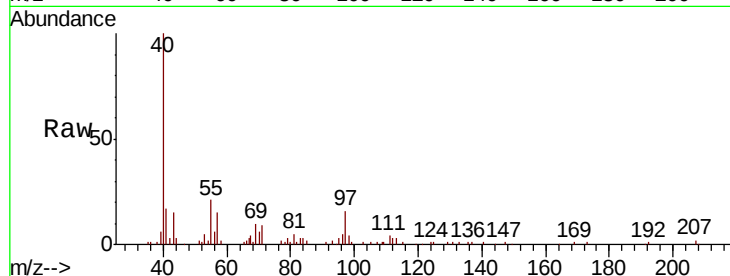
Ion Ratio Lower Upper

43 100

70 48.2 30.6 46.0#

55 135.0 19.3 28.9#

61 0.0 17.0 25.4#

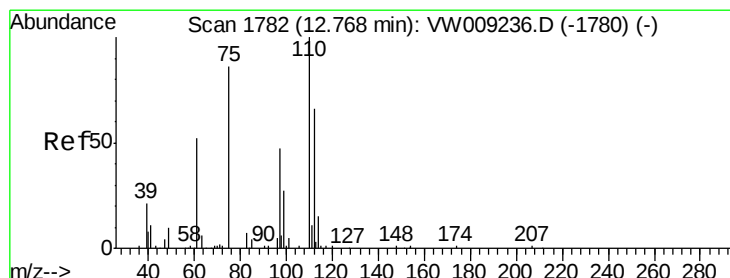
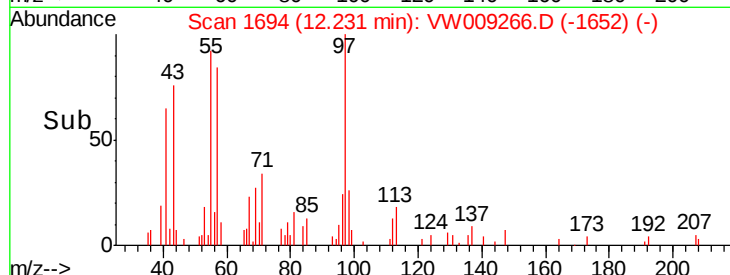
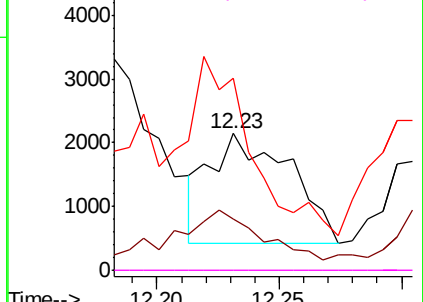


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 57.886 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009266.D

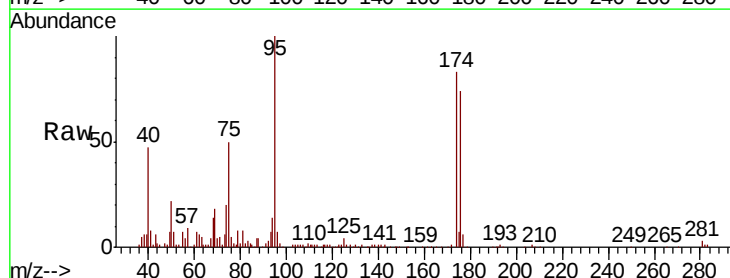
Acq: 20 Mar 2019 04:40

Tgt Ion: 75 Resp: 27681

Ion Ratio Lower Upper

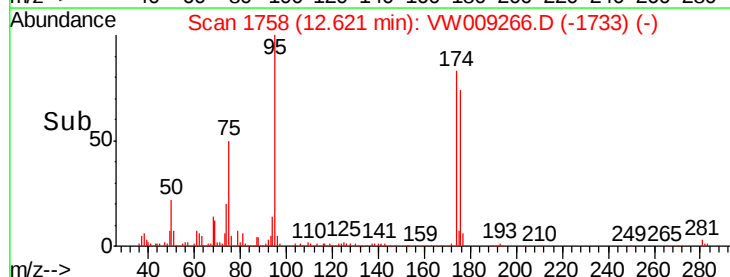
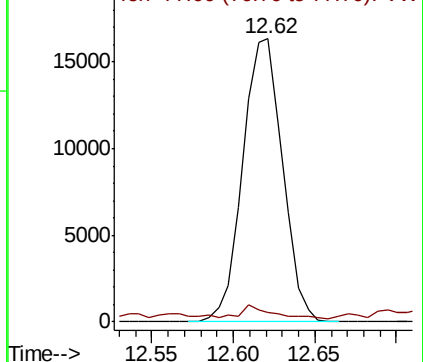
75 100

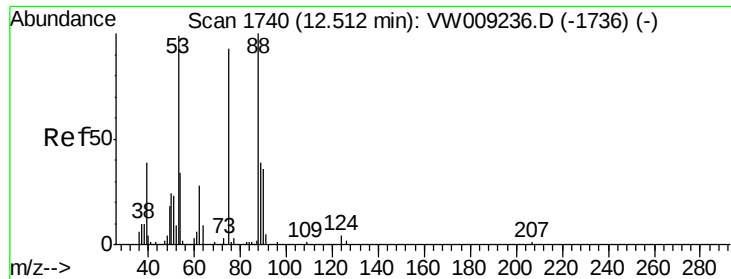
77 3.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 142.036 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

SB-11(6-7)

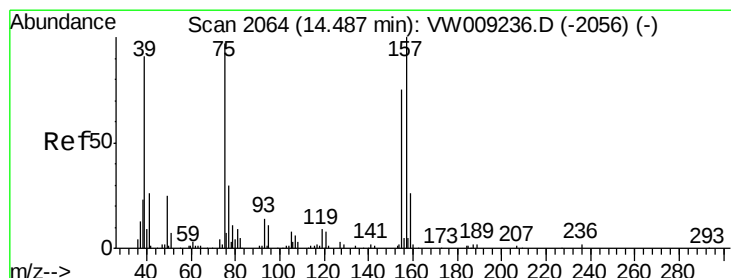
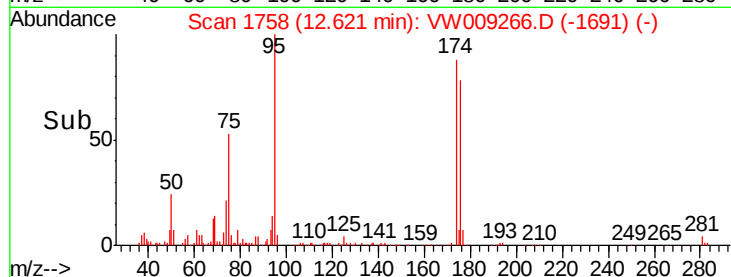
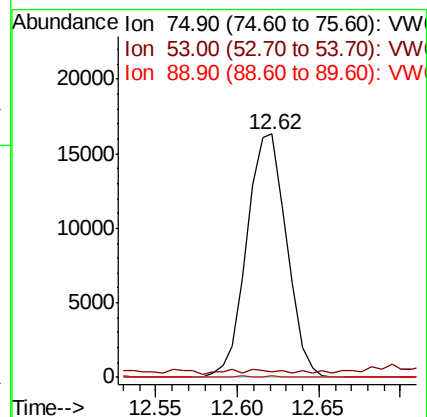
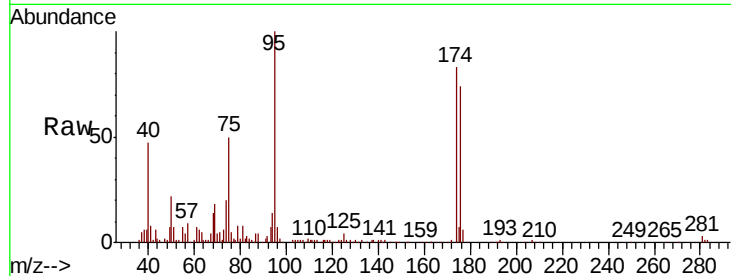
Tot Ion: 75 Resp: 27681

Ion Ratio Lower Upper

75 100

53 0.0 86.7 130.1#

89 0.2 36.4 54.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.150 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

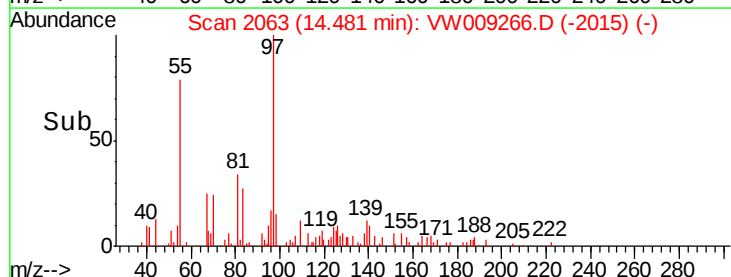
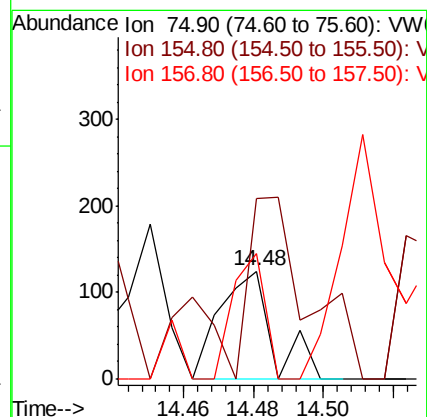
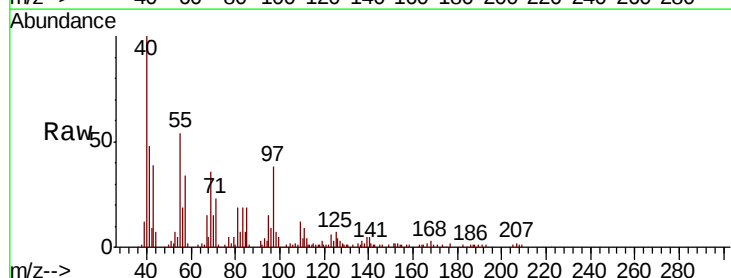
Tgt Ion: 75 Resp: 131

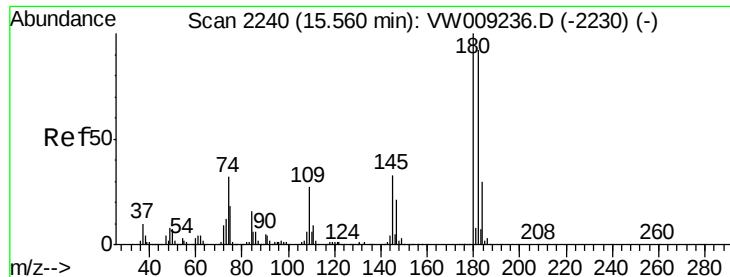
Ion Ratio Lower Upper

75 100

155 185.5 39.3 117.8#

157 71.8 49.5 148.5





#96

1,2,3-Trichlorobenzene

Concen: 1.011 ug/l

RT: 15.63 min Scan# 2252

Delta R.T. 0.07 min

Lab File: VW009266.D

Acq: 20 Mar 2019 04:40

Instrument :

MSVOA_W

ClientSampleId :

SB-11(6-7)

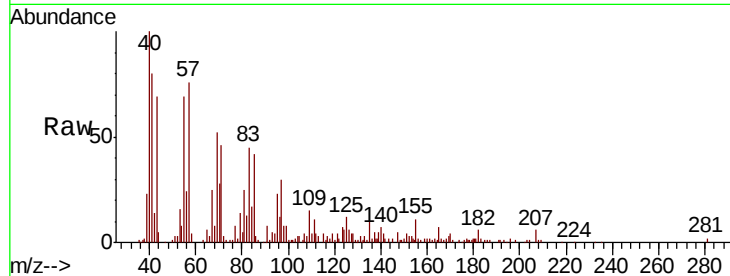
Tot Ion:180 Resp: 906

Ion Ratio Lower Upper

180 100

182 87.9 47.3 141.9

145 39.1 16.0 48.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

