

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW011119\
 Data File : VW008229.D
 Acq On : 12 Jan 2019 08:54
 Operator : SY/VA
 Sample : K1122-03
 Misc : 6.78G/5ML/MSVOA_W/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-3I(4-4.5)

Quant Time: Jan 14 10:40:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	89075	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	159582	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	137686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	52874	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	50875	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
35) Dibromofluoromethane	7.88	113	50404	54.15	ug/l	0.00
Spiked Amount			Recovery	=	108.30%	
50) Toluene-d8	10.32	98	199765	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	12.62	95	59214	42.29	ug/l	0.00
Spiked Amount			Recovery	=	84.58%	

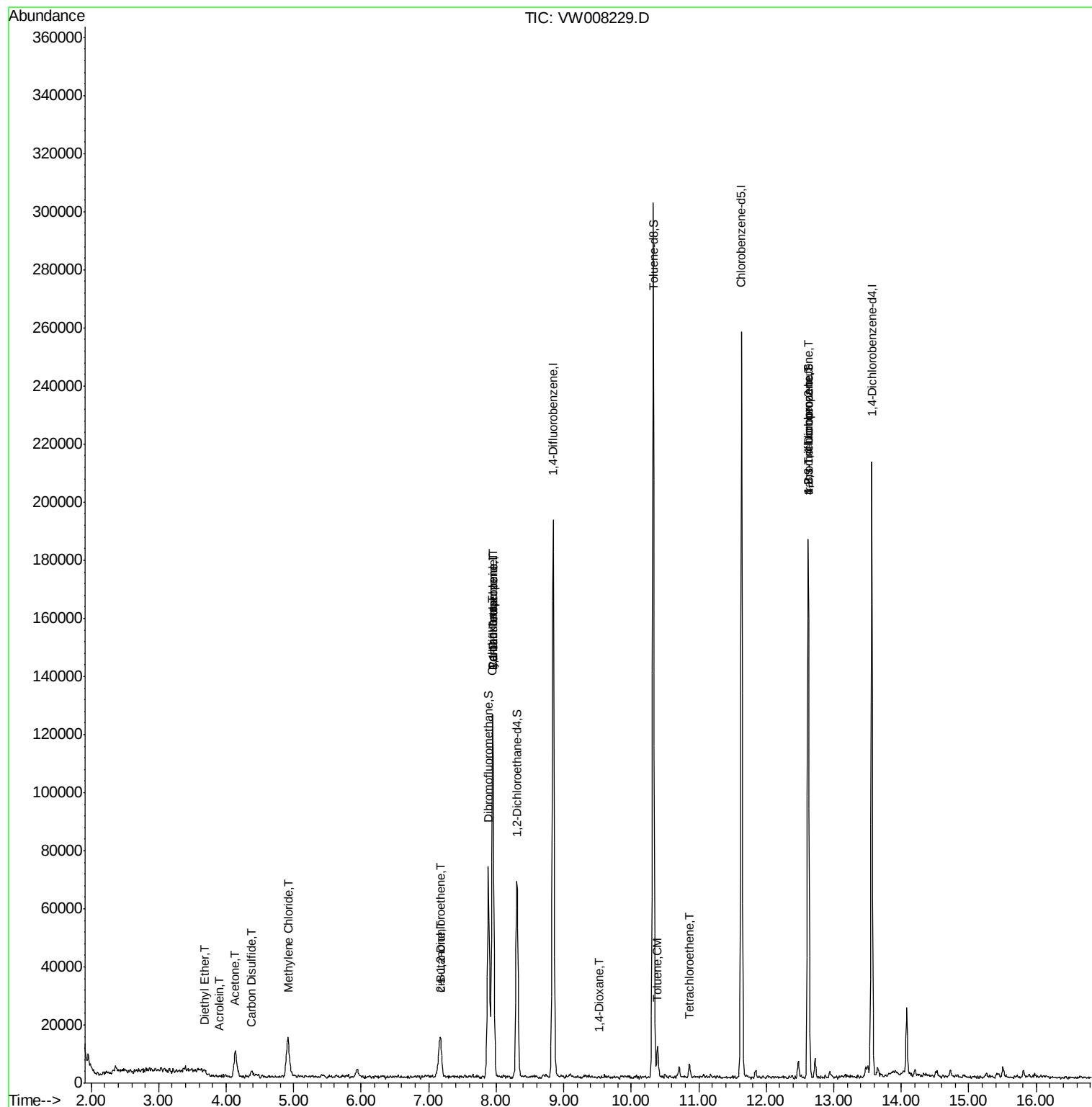
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1145	2.024	ug/l	75
11) Tert butyl alcohol	5.24	59	181	Below Cal	#	100
13) Acrolein	3.90	56	222	1.845	ug/l #	60
16) Acetone	4.14	43	17527	83.295	ug/l	90
17) Carbon Disulfide	4.37	76	3743	1.228	ug/l #	88
20) Methylene Chloride	4.92	84	10518	6.486	ug/l #	79
25) 2-Butanone	7.18	43	3996	14.346	ug/l #	85
27) cis-1,2-Dichloroethene	7.17	96	6034	5.217	ug/l	90
31) Cyclohexane	7.94	56	2254	1.070	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	7503	4.564	ug/l #	49
38) Carbon Tetrachloride	7.95	117	9371	6.228	ug/l #	16
49) 1,4-Dioxane	9.52	88	55	6.299	ug/l #	11
52) Toluene	10.39	92	4381	1.539	ug/l	98
64) Tetrachloroethene	10.86	164	934	1.042	ug/l #	82
76) 1,2,3-Trichloropropane	12.62	75	29933	62.101	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	29933	144.615	ug/l #	10

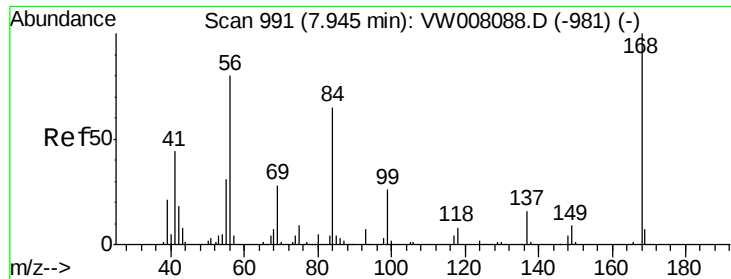
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampleId :

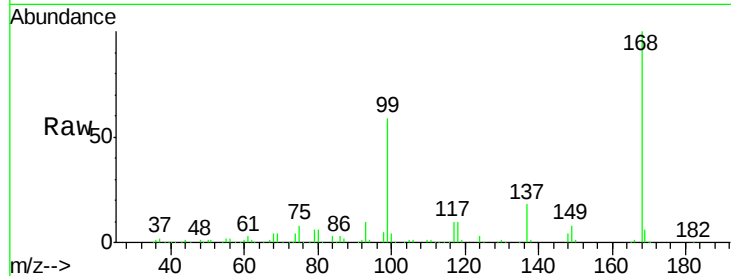
SB-3I(4-4.5)

Tgt Ion:168 Resp: 89075

Ion Ratio Lower Upper

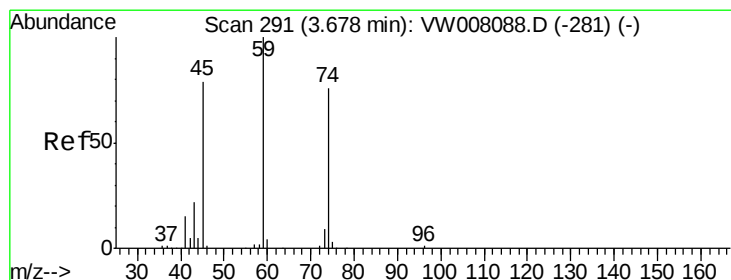
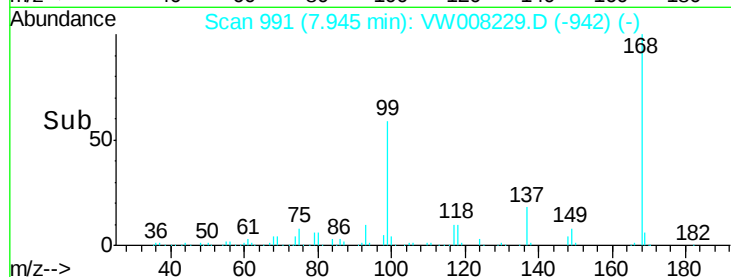
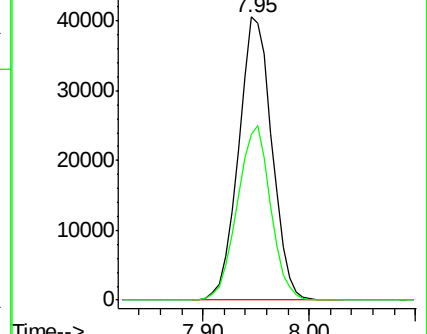
168 100

99 58.6 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.024 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW008229.D

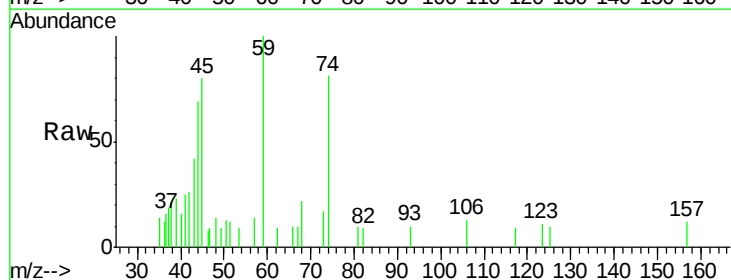
Acq: 12 Jan 2019 08:54

Tgt Ion: 74 Resp: 1145

Ion Ratio Lower Upper

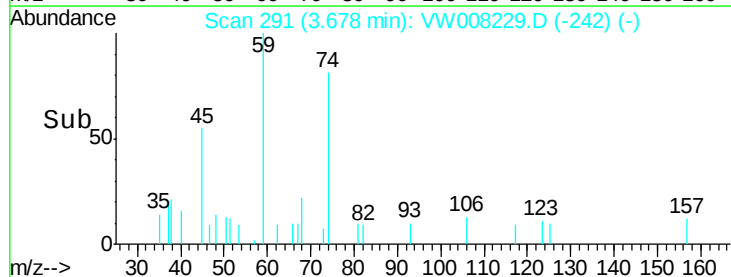
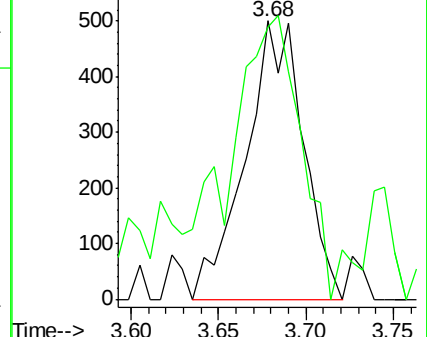
74 100

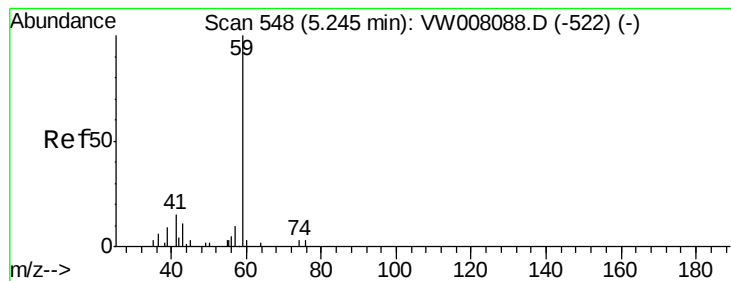
45 130.2 52.4 157.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



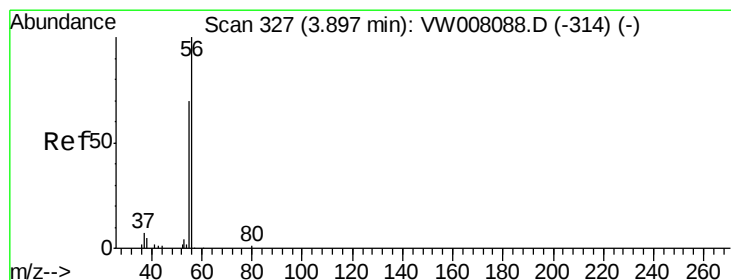
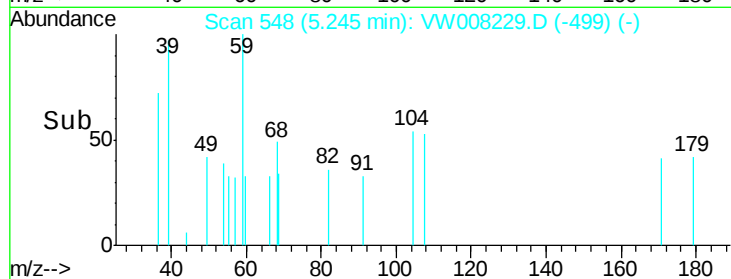
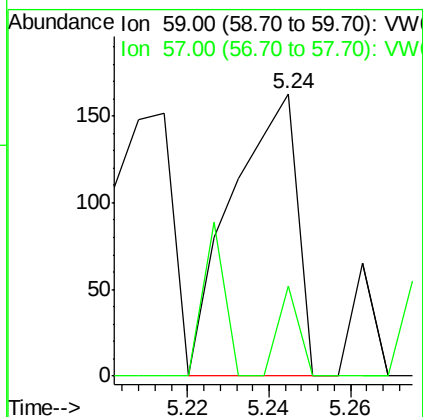
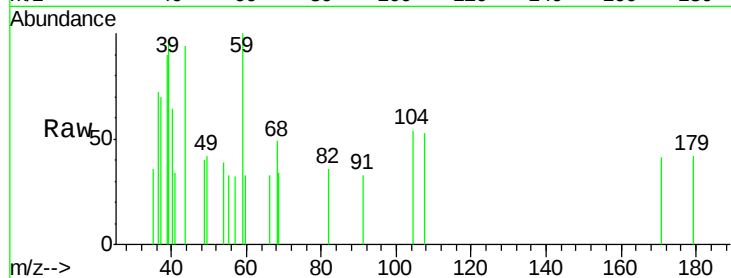


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.24 min Scan# 548
 Delta R.T. 0.00 min
 Lab File: VW008229.D
 Acq: 12 Jan 2019 08:54

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-3I(4-4.5)

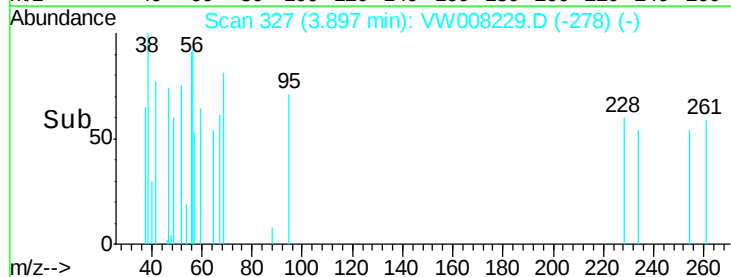
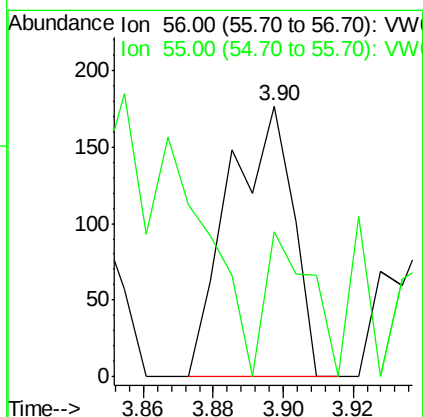
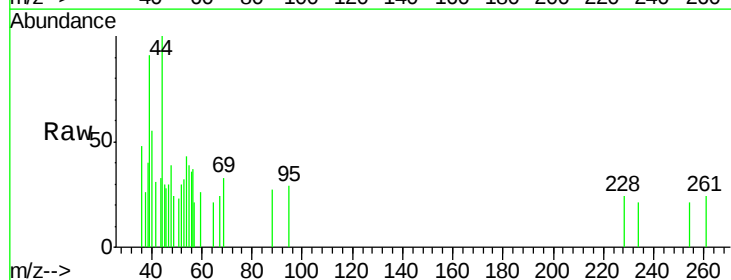
Tgt Ion: 59 Resp: 181
 Ion Ratio Lower Upper
 59 100
 57 10.5 0.0 0.0#

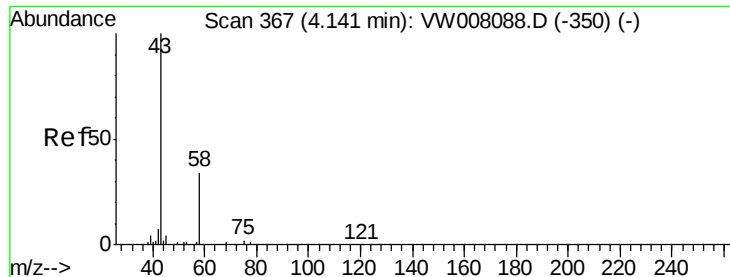


#13

Acrolein
 Concen: 1.845 ug/l
 RT: 3.90 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VW008229.D
 Acq: 12 Jan 2019 08:54

Tgt Ion: 56 Resp: 222
 Ion Ratio Lower Upper
 56 100
 55 37.4 56.6 84.8#





#16

Acetone

Concen: 83.295 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampled :

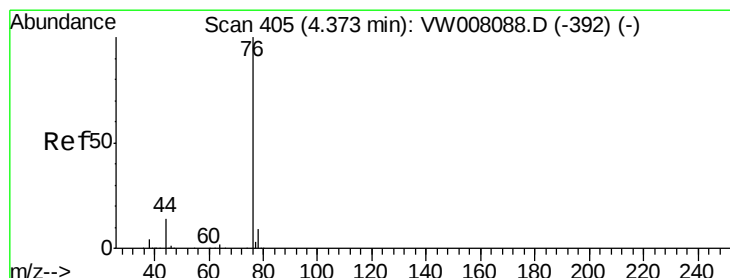
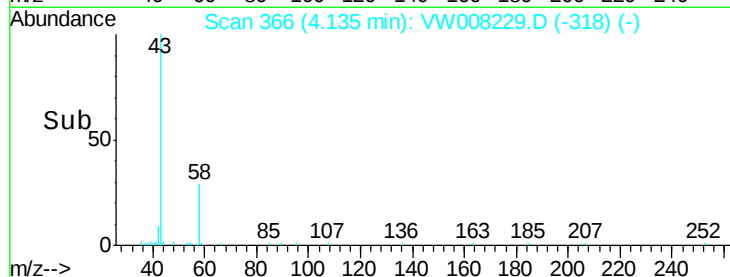
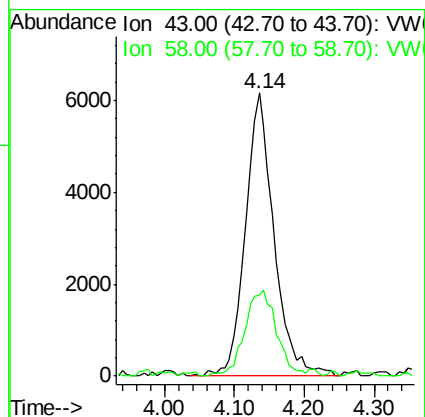
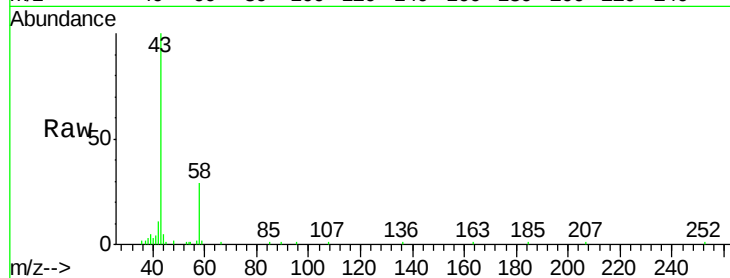
SB-3I(4-4.5)

Tgt Ion: 43 Resp: 17527

Ion Ratio Lower Upper

43 100

58 28.9 27.5 41.3



#17

Carbon Disulfide

Concen: 1.228 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW008229.D

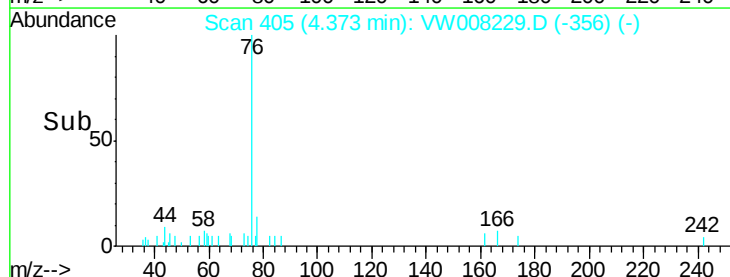
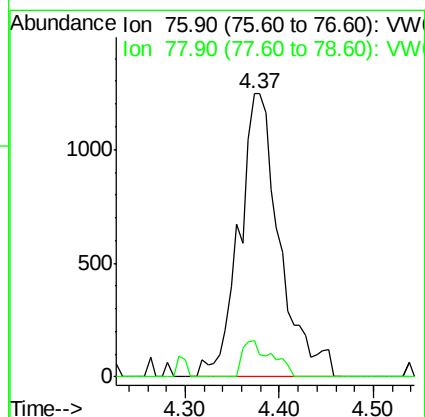
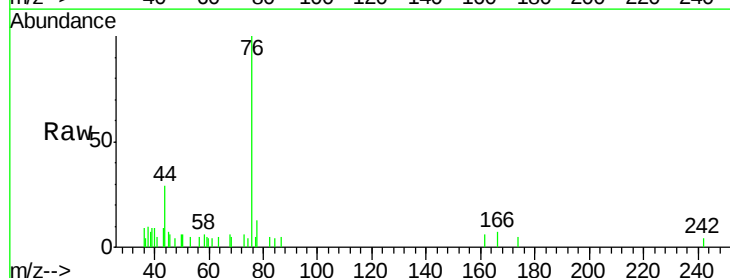
Acq: 12 Jan 2019 08:54

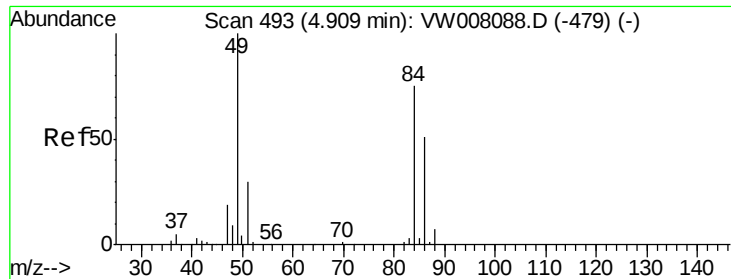
Tgt Ion: 76 Resp: 3743

Ion Ratio Lower Upper

76 100

78 13.0 7.0 10.6#

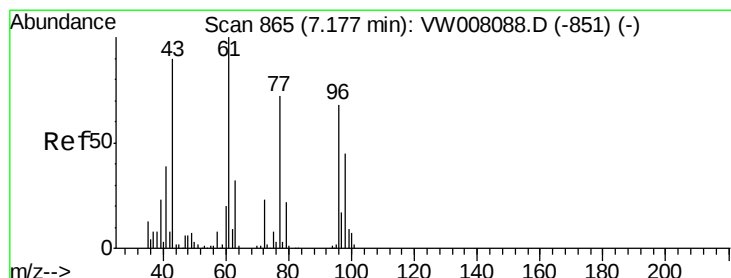
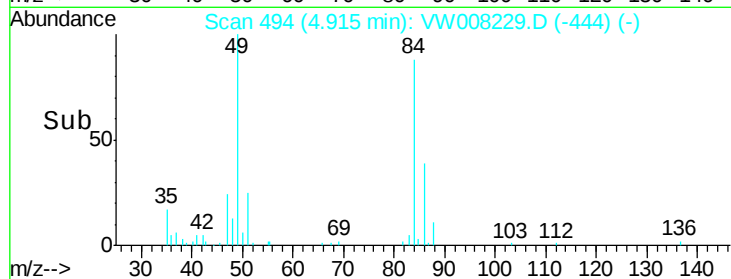
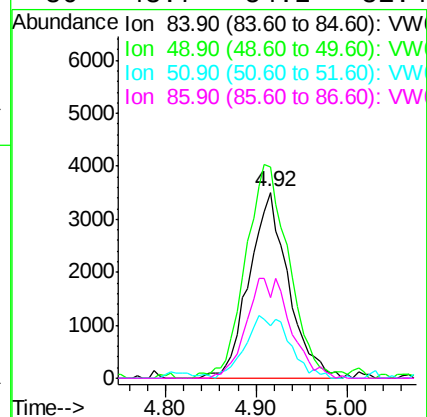
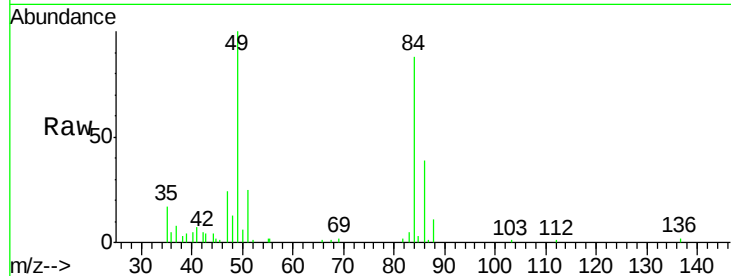




#20
Methylene Chloride
Concen: 6.486 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW008229.D
Acq: 12 Jan 2019 08:54

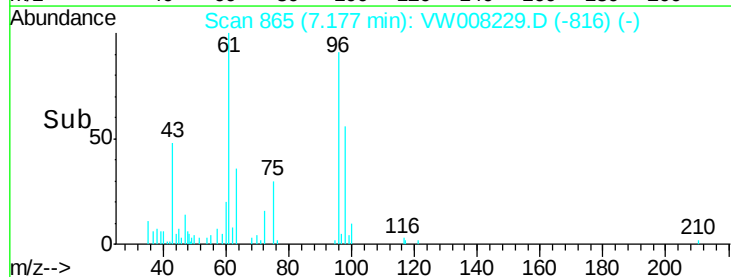
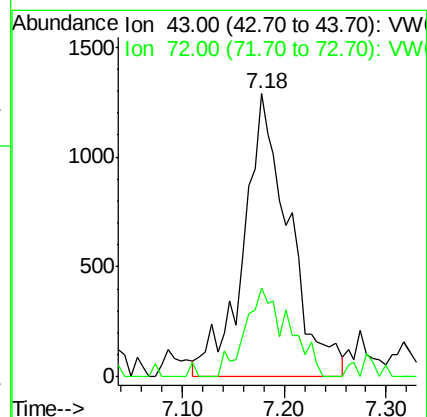
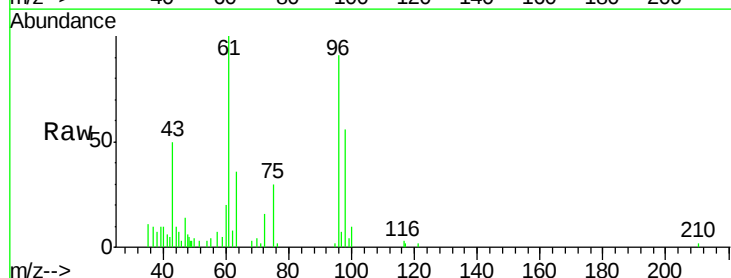
Instrument :
MSVOA_W
ClientSampled :
SB-3I(4-4.5)

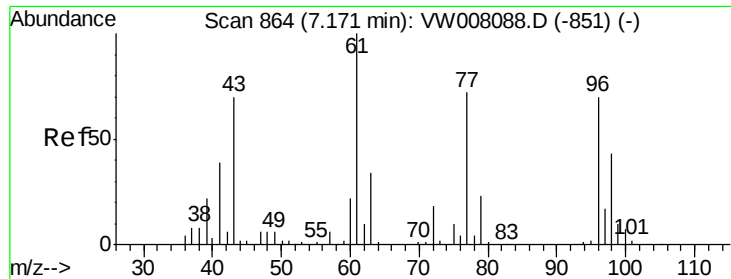
Tgt Ion: 84 Resp: 10518
Ion Ratio Lower Upper
84 100
49 113.4 107.1 160.7
51 28.3 32.4 48.6#
86 43.7 54.2 81.4#



#25
2-Butanone
Concen: 14.346 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.00 min
Lab File: VW008229.D
Acq: 12 Jan 2019 08:54

Tgt Ion: 43 Resp: 3996
Ion Ratio Lower Upper
43 100
72 33.0 20.5 30.7#

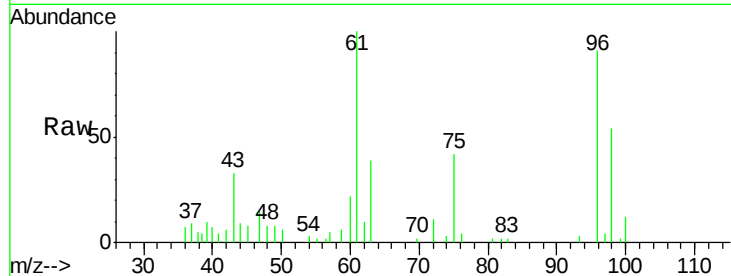




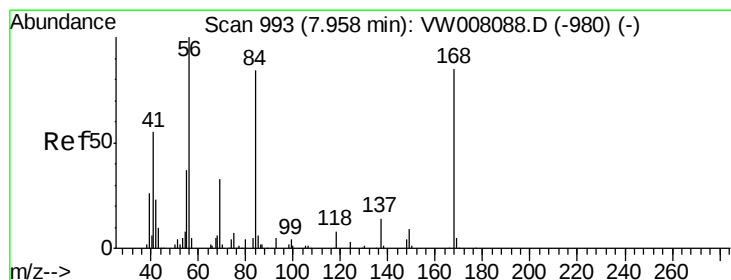
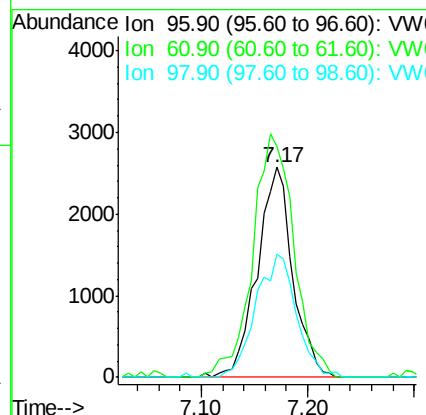
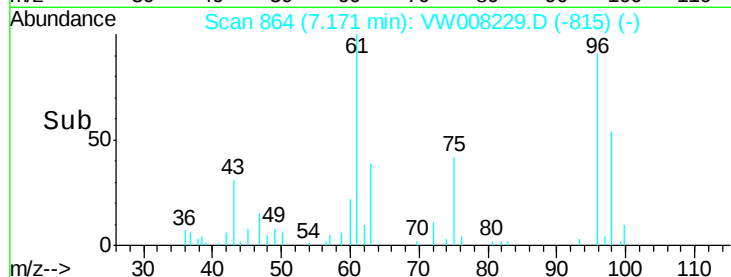
#27
 cis-1,2-Dichloroethene
 Concen: 5.217 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW008229.D
 Acq: 12 Jan 2019 08:54

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-3I(4-4.5)

Tgt Ion: 96 Resp: 6034
 Ion Ratio Lower Upper
 96 100
 61 133.8 0.0 300.4
 98 66.6 0.0 128.4

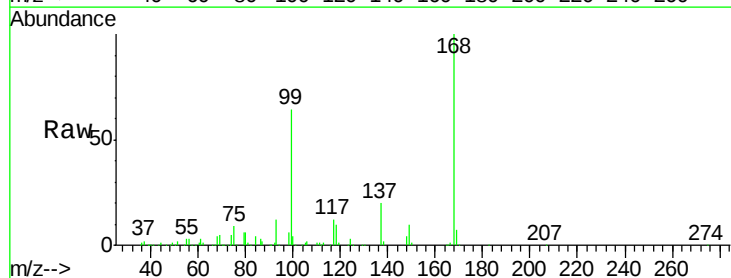


Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW

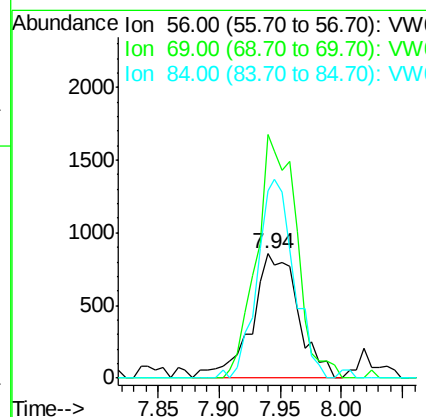
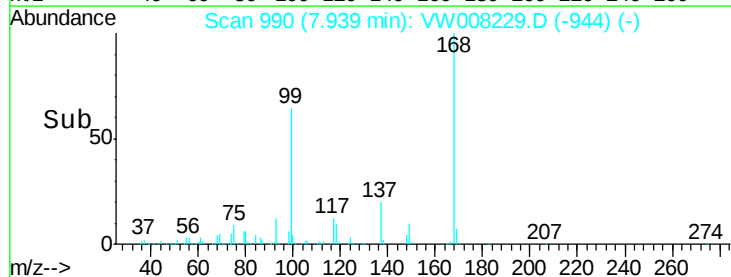


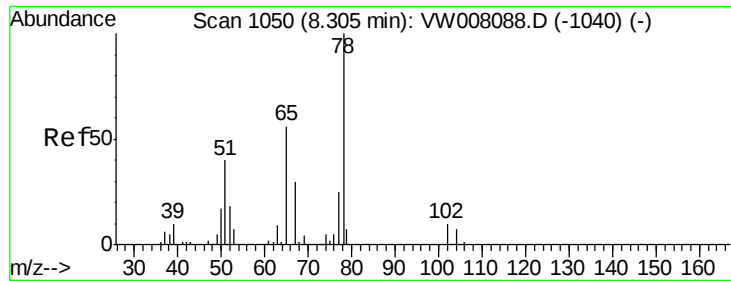
#31
 Cyclohexane
 Concen: 1.070 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.02 min
 Lab File: VW008229.D
 Acq: 12 Jan 2019 08:54

Tgt Ion: 56 Resp: 2254
 Ion Ratio Lower Upper
 56 100
 69 195.6 26.2 39.4#
 84 150.5 67.4 101.2#



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





#33

1,2-Dichloroethane-d4

Concen: 50.818 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampleId :

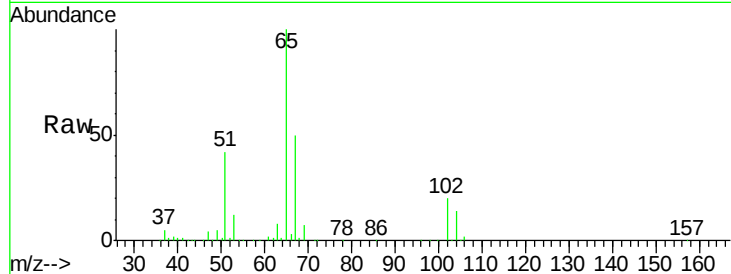
SB-3I(4-4.5)

Tgt Ion: 65 Resp: 50875

Ion Ratio Lower Upper

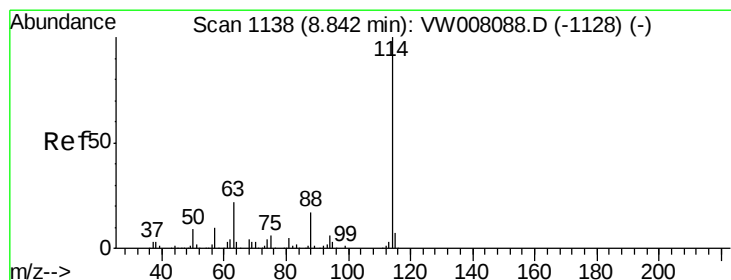
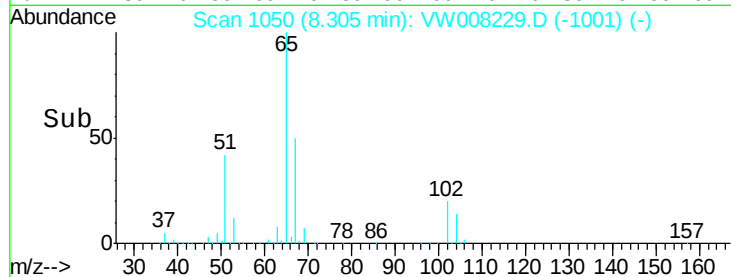
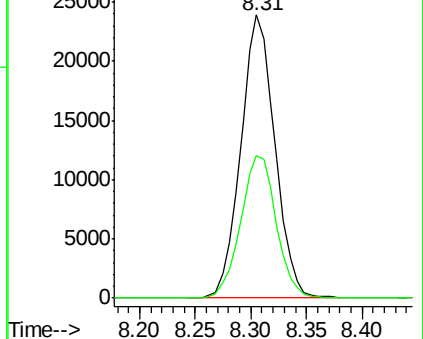
65 100

67 52.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

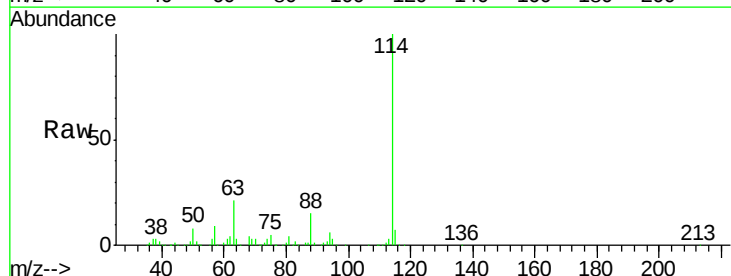
Tgt Ion: 114 Resp: 159582

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.4

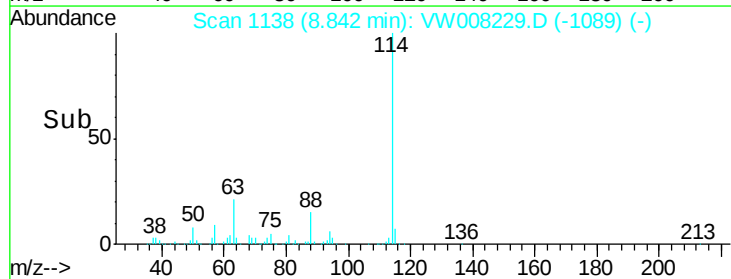
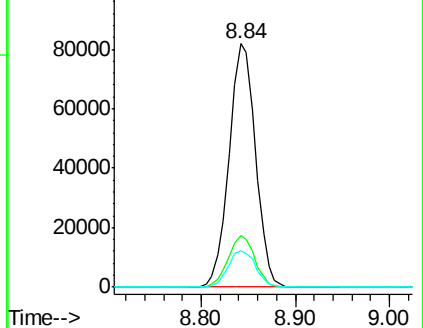
88 15.1 0.0 33.4

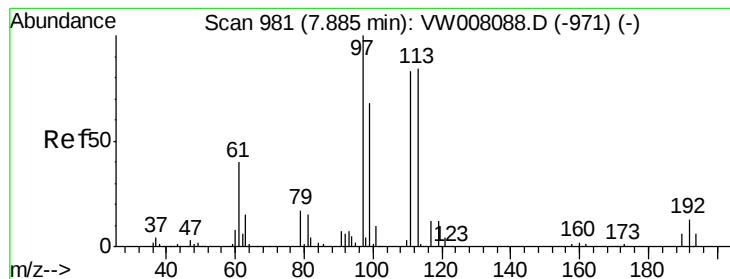


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 54.155 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampled :

SB-3I(4-4.5)

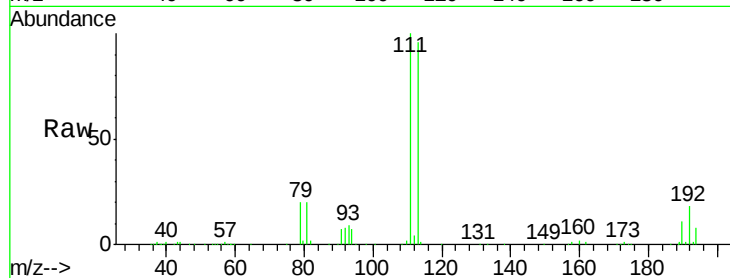
Tgt Ion:113 Resp: 50404

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

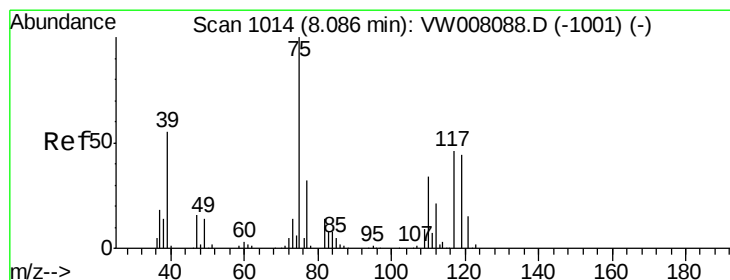
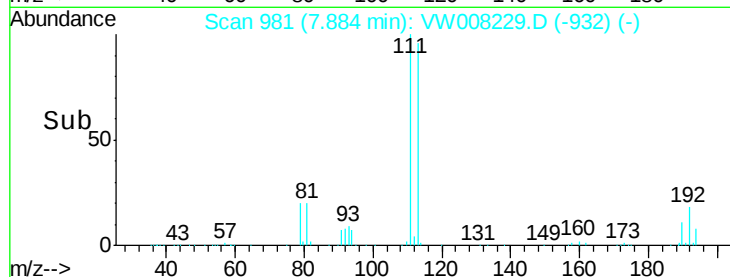
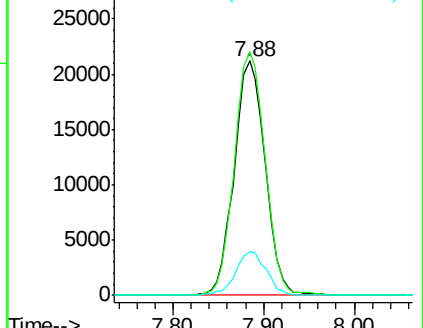
192 18.5 12.8 19.2



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: 4.564 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

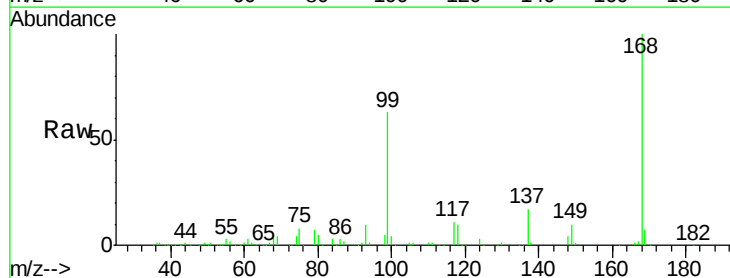
Tgt Ion: 75 Resp: 7503

Ion Ratio Lower Upper

75 100

110 8.3 17.1 51.3#

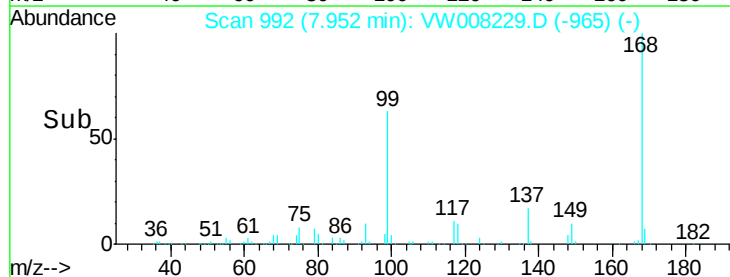
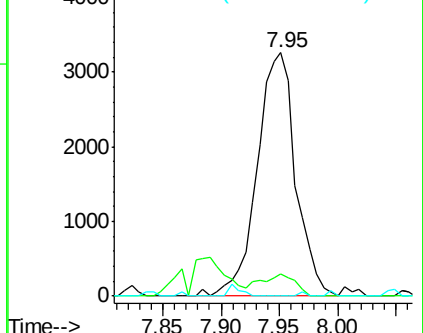
77 0.3 25.5 38.3#

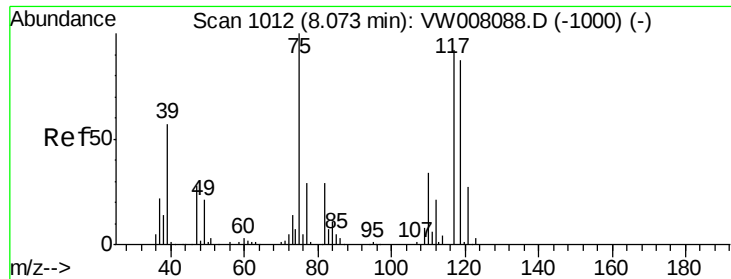


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

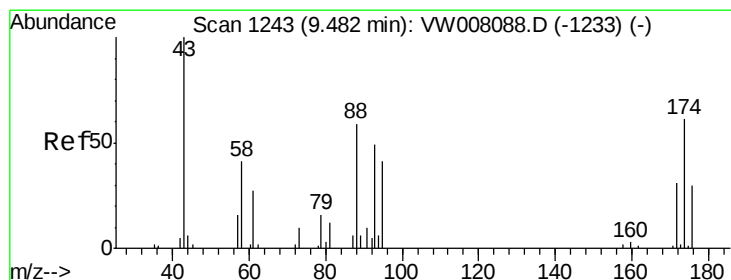
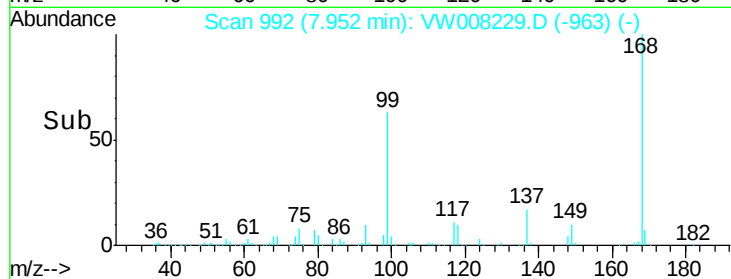
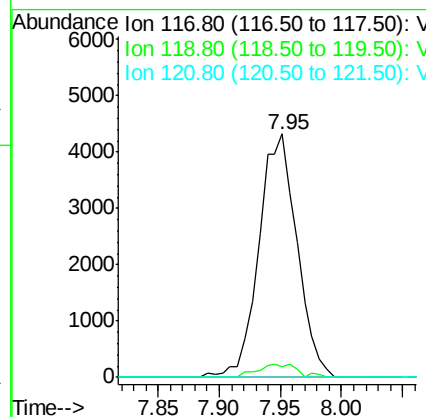
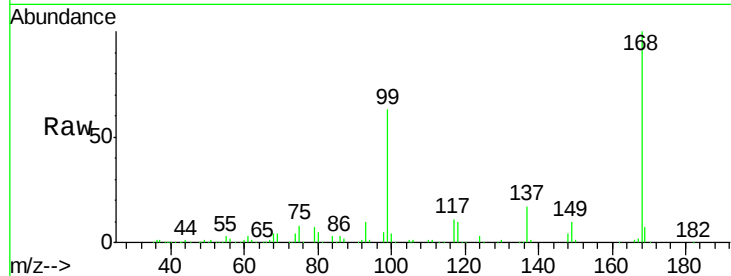




#38
Carbon Tetrachloride
Concen: 6.228 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008229.D
Acq: 12 Jan 2019 08:54

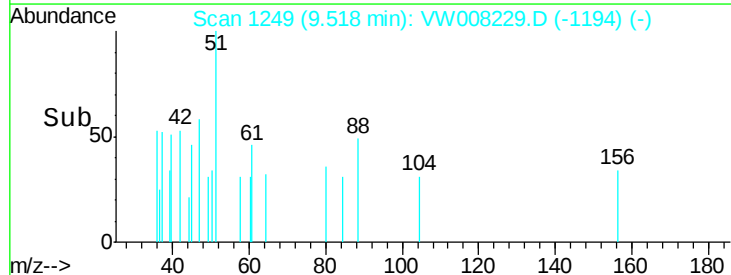
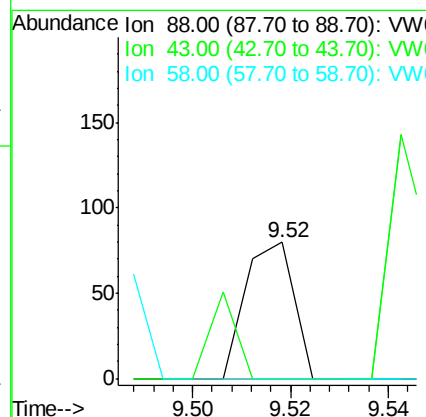
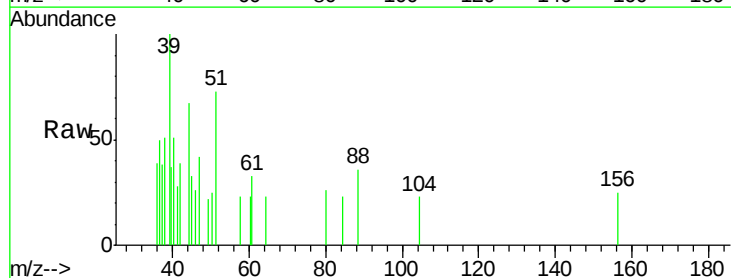
Instrument :
MSVOA_W
ClientSampled :
SB-3I(4-4.5)

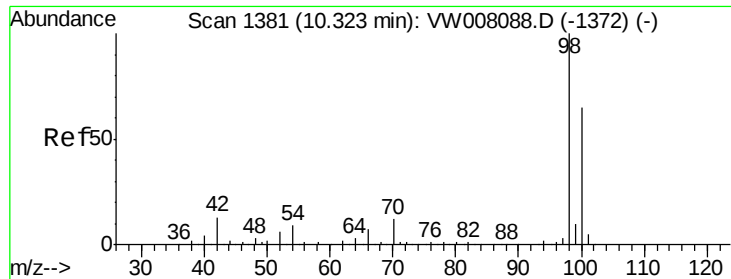
Tgt Ion:117 Resp: 9371
Ion Ratio Lower Upper
117 100
119 4.3 75.8 113.8#
121 0.0 23.7 35.5#



#49
1,4-Dioxane
Concen: 6.299 ug/l
RT: 9.52 min Scan# 1249
Delta R.T. 0.04 min
Lab File: VW008229.D
Acq: 12 Jan 2019 08:54

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 34.5 0.0 0.0#
58 0.0 61.7 92.5#

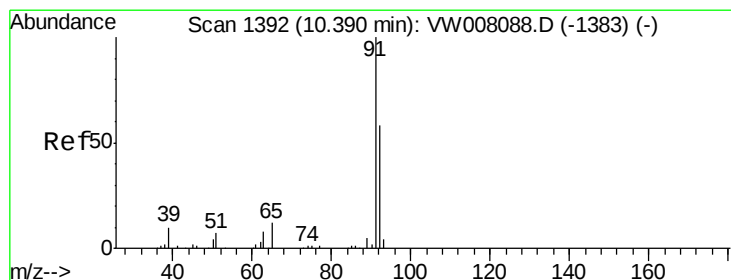
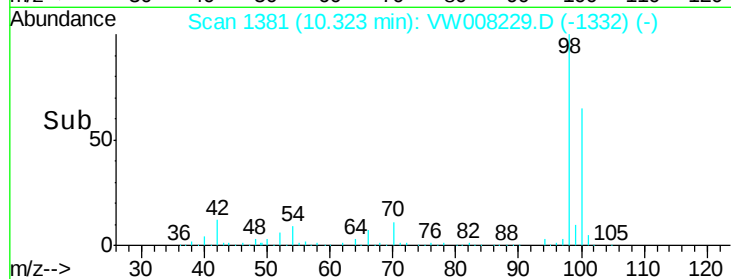
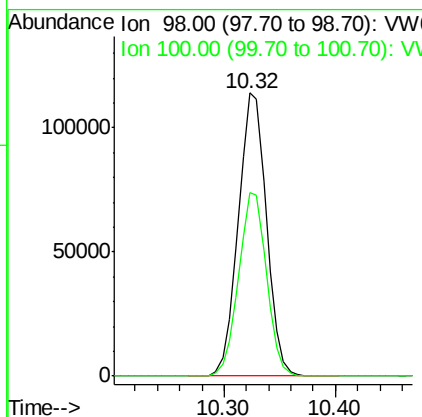
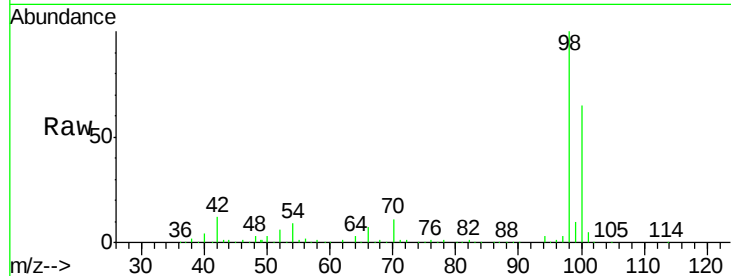




#50
Toluene-d8
Concen: 51.146 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW008229.D
Acq: 12 Jan 2019 08:54

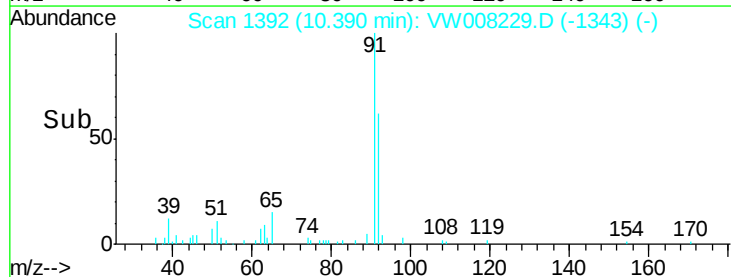
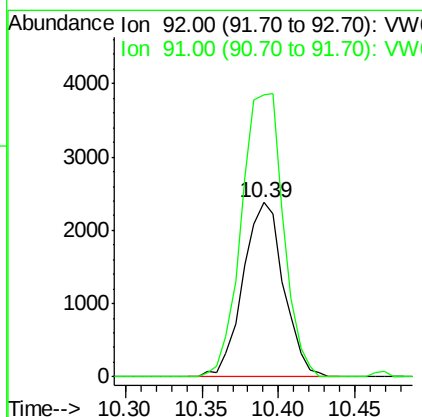
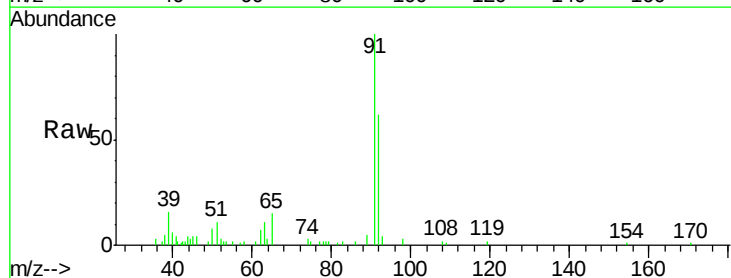
Instrument :
MSVOA_W
ClientSampleId :
SB-3I(4-4.5)

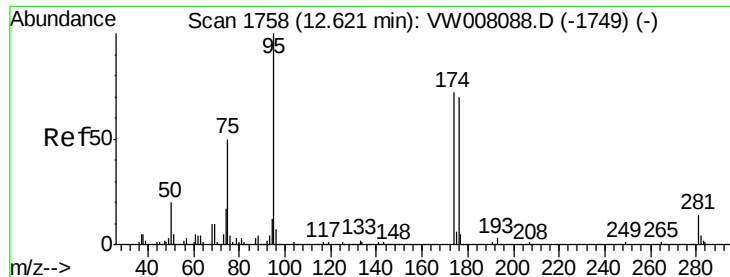
Tgt Ion: 98 Resp: 199765
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5



#52
Toluene
Concen: 1.539 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW008229.D
Acq: 12 Jan 2019 08:54

Tgt Ion: 92 Resp: 4381
Ion Ratio Lower Upper
92 100
91 168.3 137.0 205.4





#62

4-Bromofluorobenzene

Concen: 42.289 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampleId :

SB-3I(4-4.5)

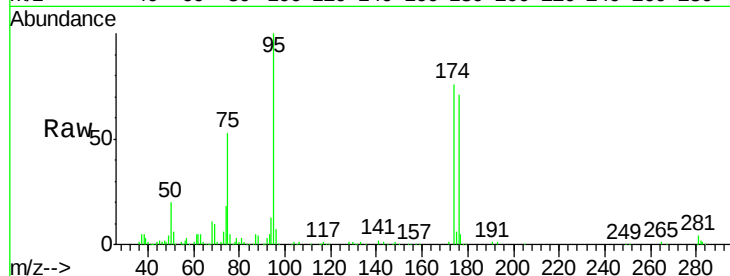
Tgt Ion: 95 Resp: 59214

Ion Ratio Lower Upper

95 100

174 76.3 0.0 143.0

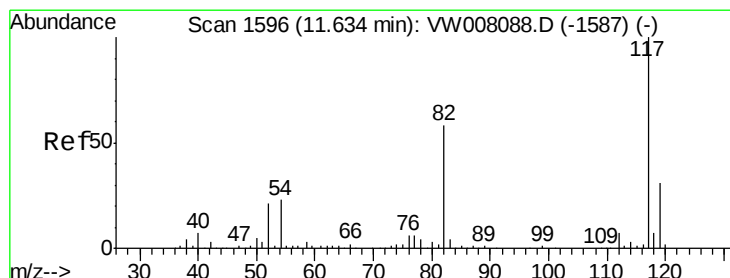
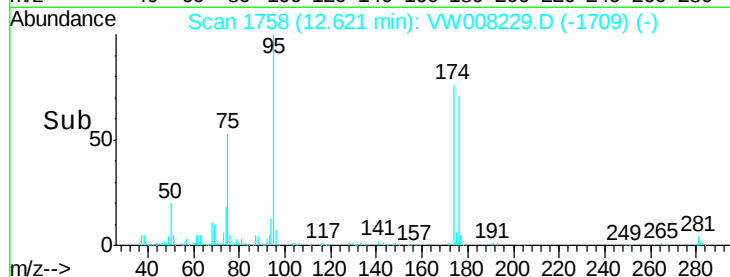
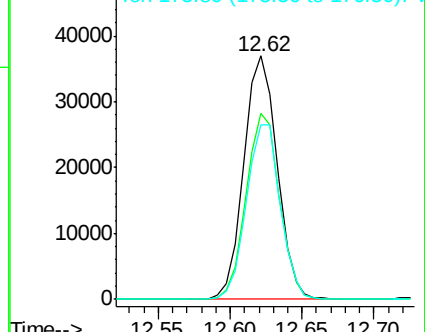
176 72.5 0.0 140.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

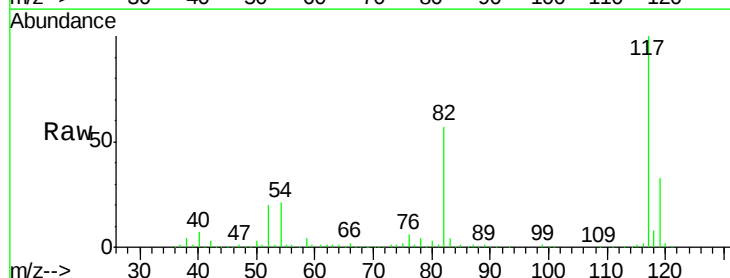
Tgt Ion: 117 Resp: 137686

Ion Ratio Lower Upper

117 100

82 57.3 46.4 69.6

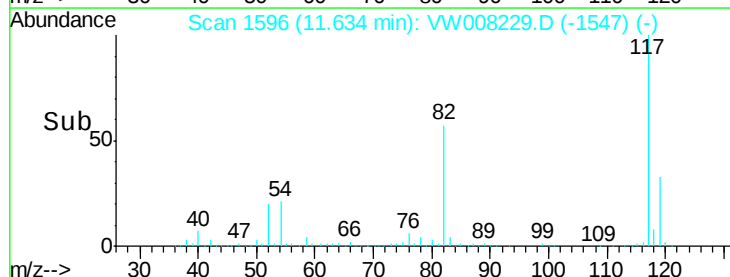
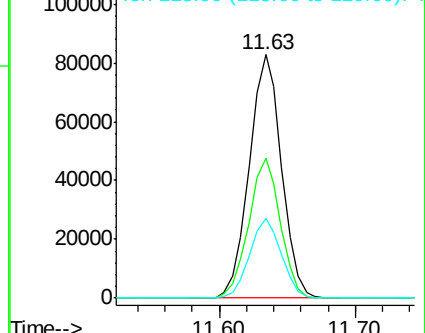
119 32.7 24.7 37.1

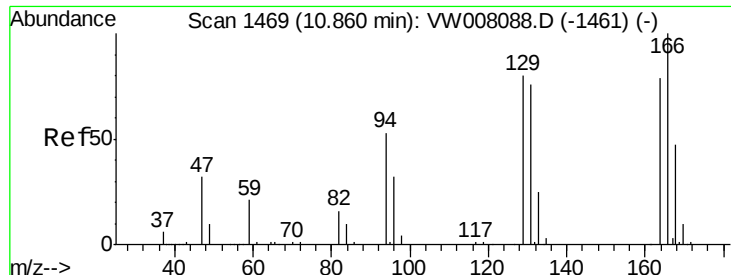


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#64

Tetrachloroethene

Concen: 1.042 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampleId :

SB-3I(4-4.5)

Tgt Ion:164 Resp: 934

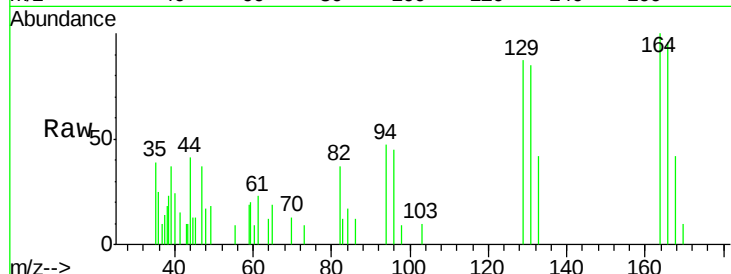
Ion Ratio Lower Upper

164 100

166 95.7 100.7 151.1#

129 86.8 81.0 121.4

131 84.9 76.1 114.1

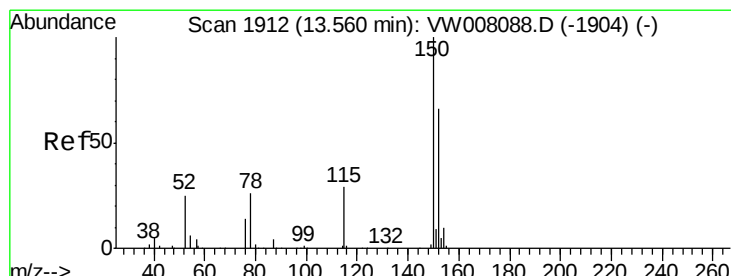
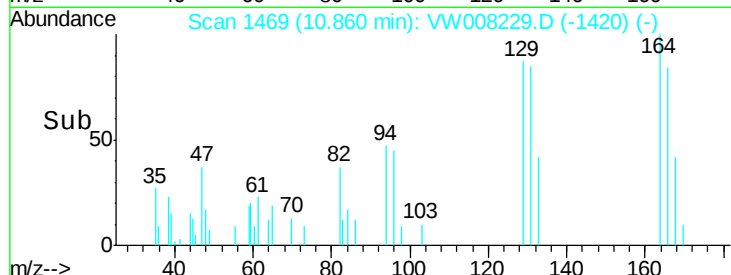
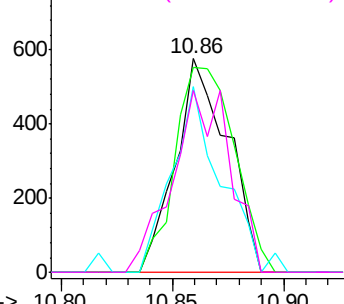


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

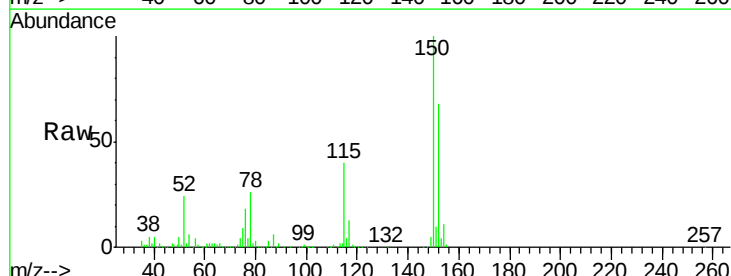
Tgt Ion:152 Resp: 52874

Ion Ratio Lower Upper

152 100

115 60.3 30.8 92.4

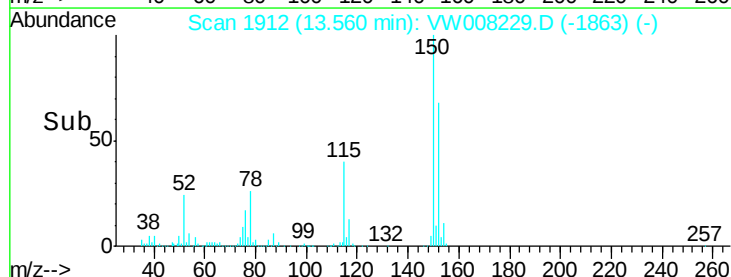
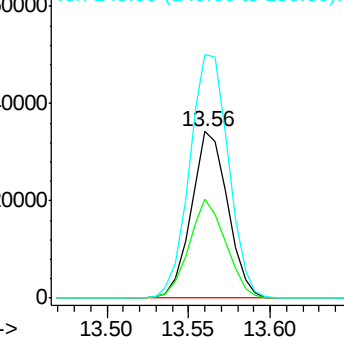
150 156.8 0.0 350.2

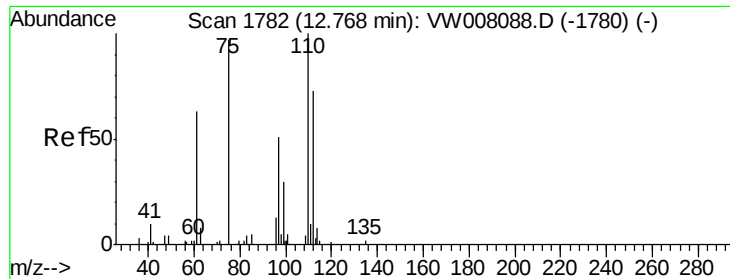


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 62.101 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Instrument :

MSVOA_W

ClientSampled :

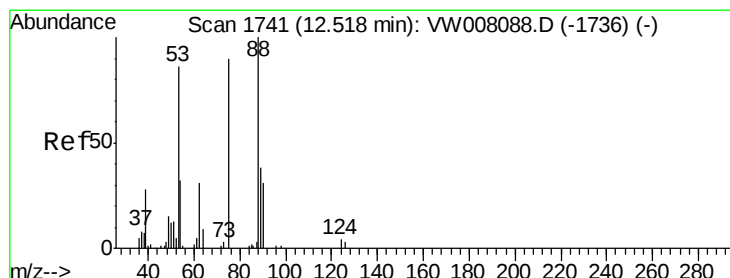
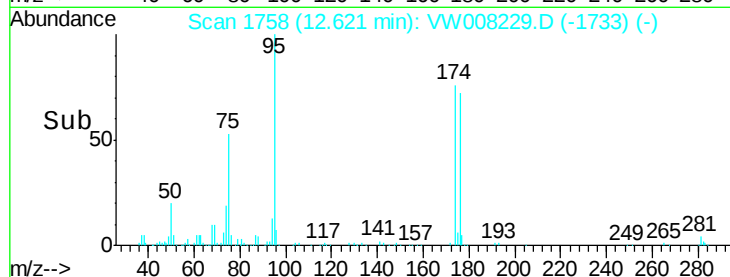
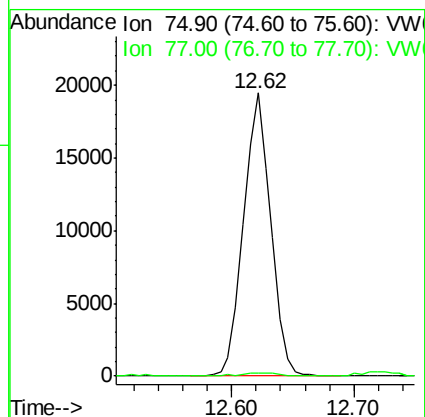
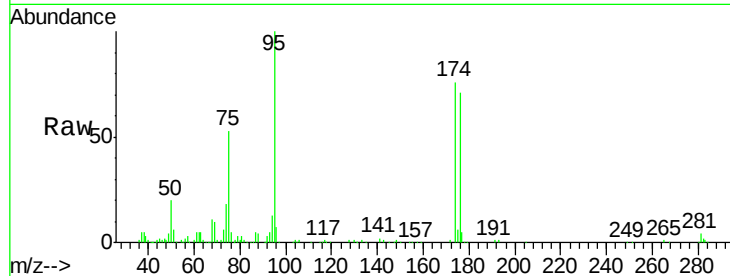
SB-3I(4-4.5)

Tgt Ion: 75 Resp: 29933

Ion Ratio Lower Upper

75 100

77 1.5 179.4 538.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 144.615 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008229.D

Acq: 12 Jan 2019 08:54

Tgt Ion: 75 Resp: 29933

Ion Ratio Lower Upper

75 100

53 0.1 78.8 118.2#

89 0.2 35.4 53.2#

