

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081420\
 Data File : VW016196.D
 Acq On : 14 Aug 2020 16:59
 Operator : SY/VA
 Sample : L3645-02
 Misc : 4.56G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-3

Quant Time: Aug 17 08:12:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W081420S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 08:01:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	69784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	120680	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	107477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	46538	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	36220	53.22	ug/l	0.00
Spiked Amount						
			Recovery	=	106.44%	
35) Dibromofluoromethane	7.88	113	35762	48.03	ug/l	0.00
Spiked Amount						
			Recovery	=	96.06%	
50) Toluene-d8	10.32	98	144957	50.29	ug/l	0.00
Spiked Amount						
			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	12.62	95	59830	58.07	ug/l	0.00
Spiked Amount						
			Recovery	=	116.14%	

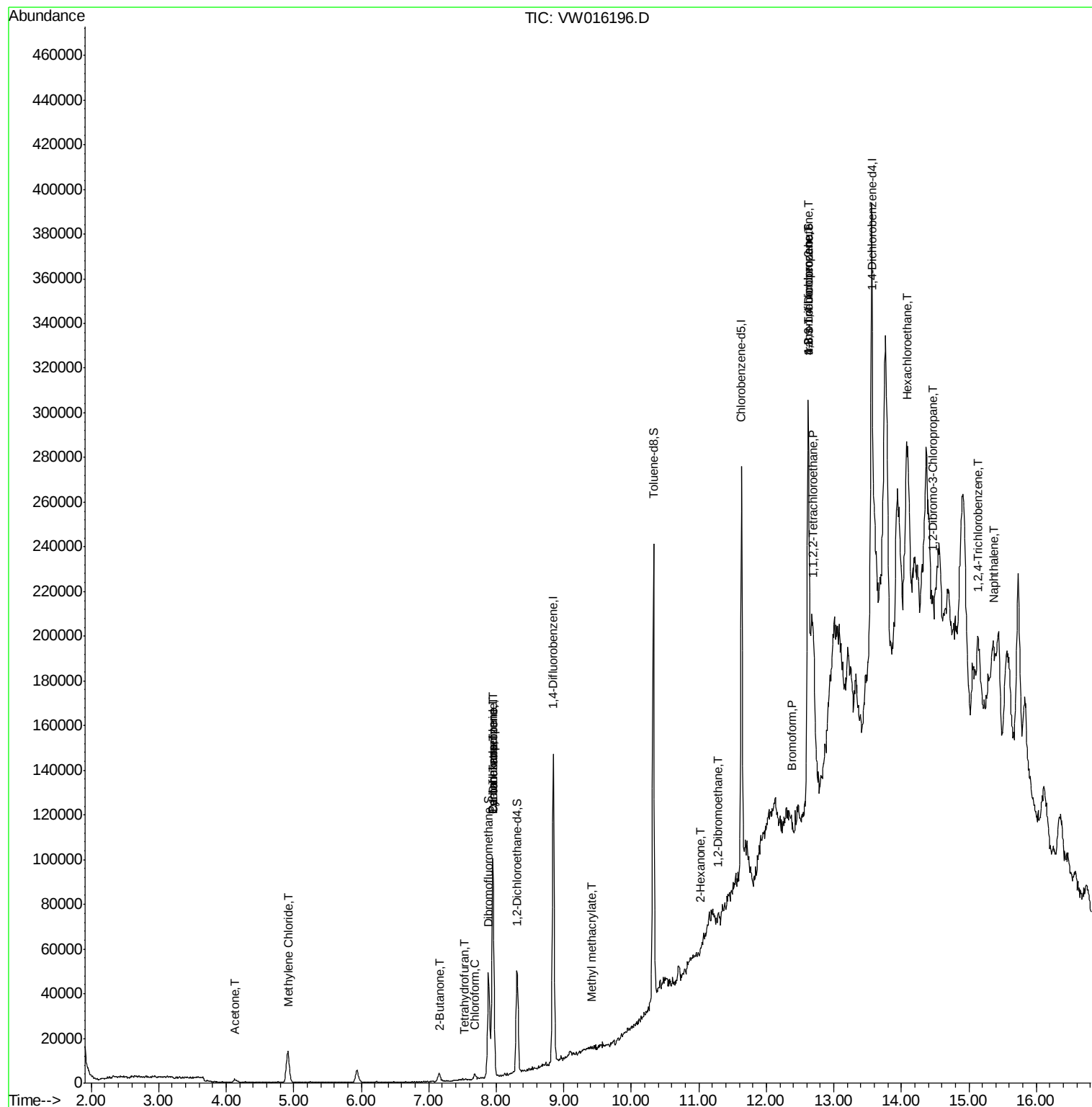
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	2688	20.618	ug/l	97
20) Methylene Chloride	4.92	84	11445	10.199	ug/l	92
25) 2-Butanone	7.17	43	279	1.597	ug/l #	44
29) Tetrahydrofuran	7.53	42	142	1.360	ug/l #	31
30) Chloroform	7.68	83	2497	1.784	ug/l	96
31) Cyclohexane	7.95	56	1638	1.319	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	5691	4.787	ug/l #	52
38) Carbon Tetrachloride	7.95	117	7450	6.279	ug/l #	18
48) Methyl methacrylate	9.42	41	373	1.046	ug/l #	22
59) 2-Hexanone	11.03	43	285	1.074	ug/l	69
61) 1,2-Dibromoethane	11.29	107	696	1.217	ug/l	97
71) Bromoform	12.37	173	455	1.320	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.69	83	30063	50.661	ug/l #	29
76) 1,2,3-Trichloropropane	12.62	75	23430	54.743	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	23430	131.309	ug/l #	17
90) Hexachloroethane	14.09	117	1157	1.890	ug/l	67
92) 1,2-Dibromo-3-Chloropropan	14.46	75	193	2.116	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.14	180	859	1.052	ug/l #	1
95) Naphthalene	15.38	128	408	3.799	ug/l #	1

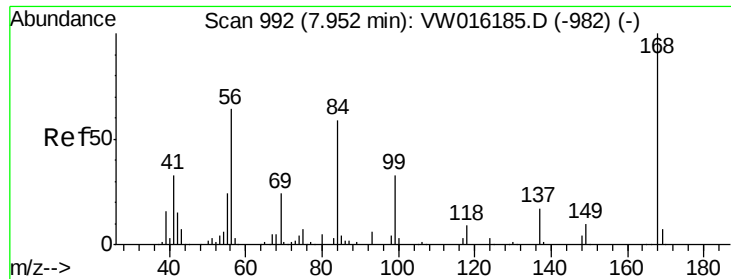
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 17 08:01:41 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampled :

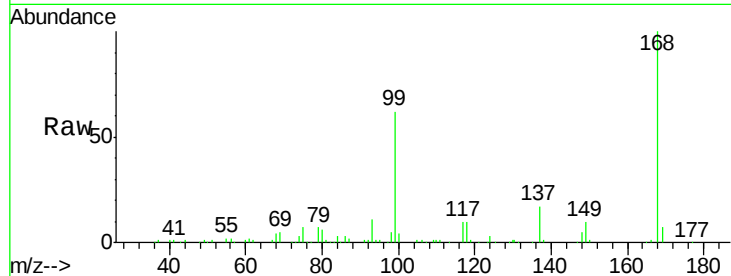
SB-3

Tgt Ion:168 Resp: 69784

Ion Ratio Lower Upper

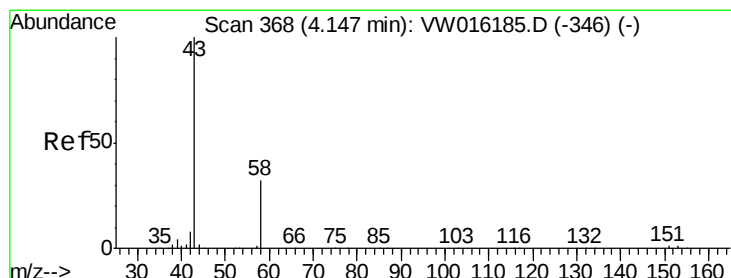
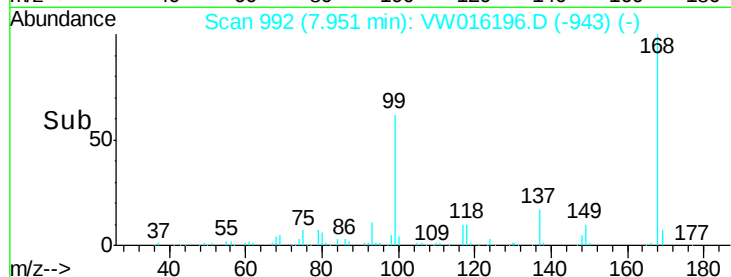
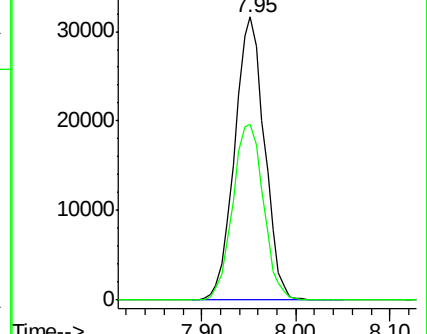
168 100

99 62.2 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 20.618 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW016196.D

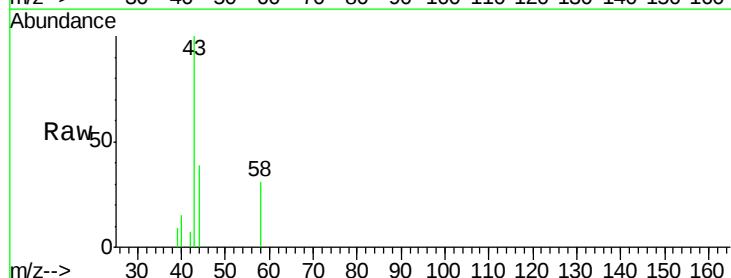
Acq: 14 Aug 2020 16:59

Tgt Ion: 43 Resp: 2688

Ion Ratio Lower Upper

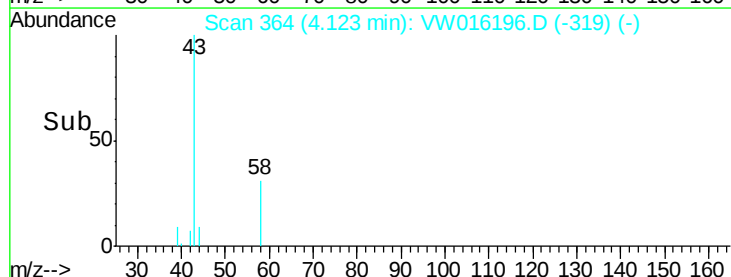
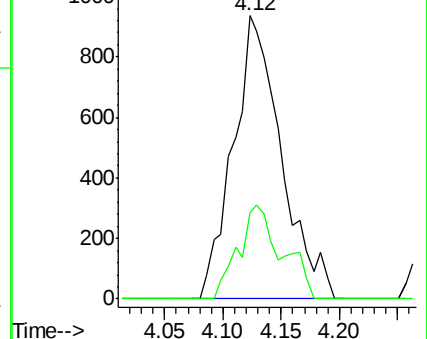
43 100

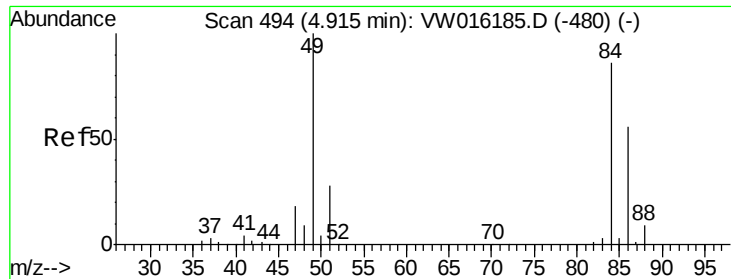
58 30.7 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

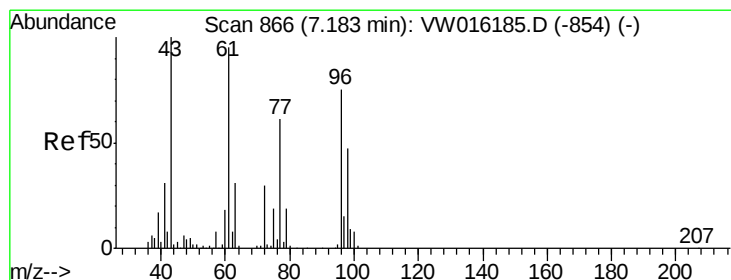
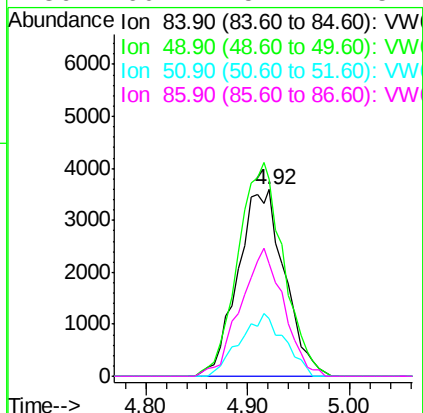
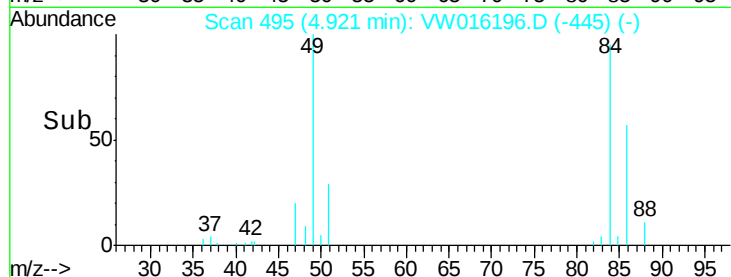
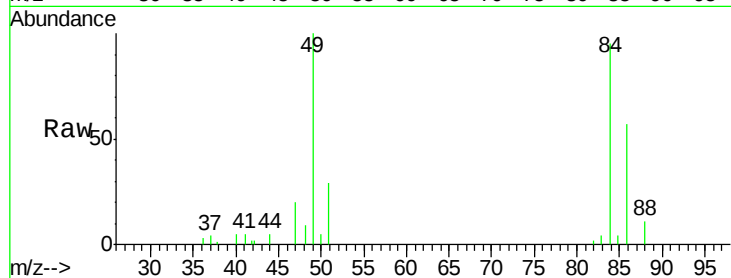




#20
Methylene Chloride
Concen: 10.199 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

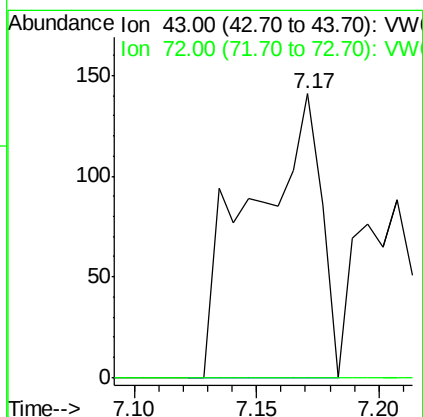
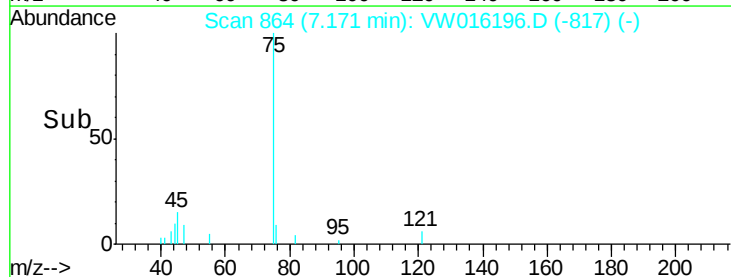
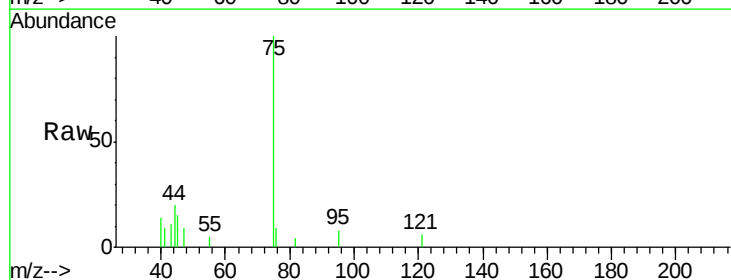
Instrument :
MSVOA_W
ClientSampled :
SB-3

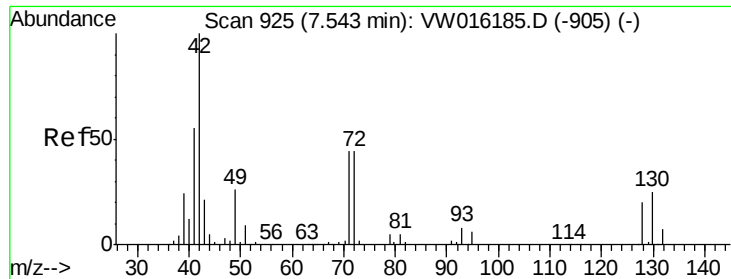
Tgt Ion: 84 Resp: 11445
Ion Ratio Lower Upper
84 100
49 105.8 93.4 140.2
51 31.1 26.6 40.0
86 60.4 52.2 78.2



#25
2-Butanone
Concen: 1.597 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

Tgt Ion: 43 Resp: 279
Ion Ratio Lower Upper
43 100
72 0.0 24.2 36.2#

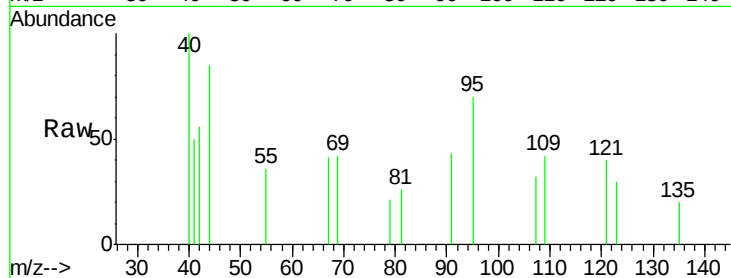




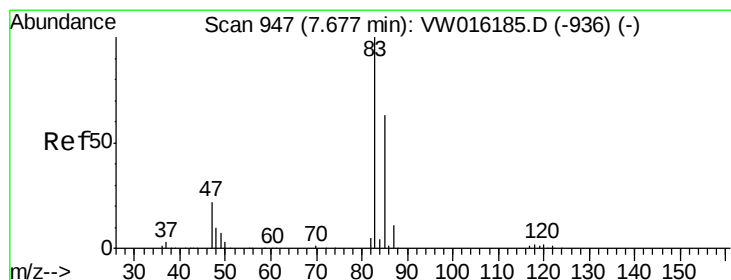
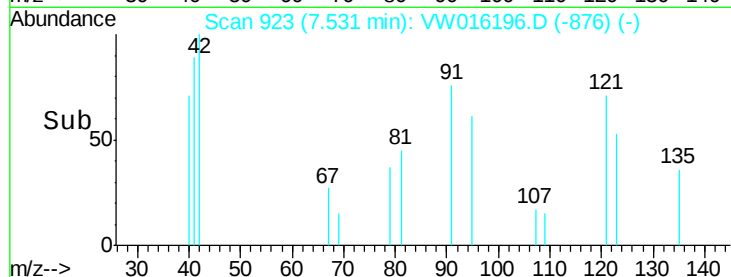
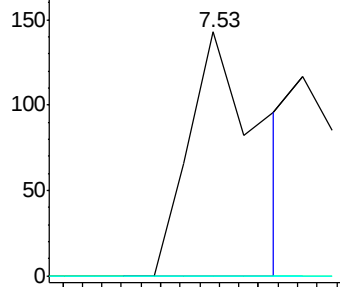
#29
Tetrahydrofuran
Concen: 1.360 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.01 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

Instrument :
MSVOA_W
ClientSampled :
SB-3

Tgt Ion: 42 Resp: 142
Ion Ratio Lower Upper
42 100
72 0.0 37.4 56.2#
71 0.0 35.6 53.4#

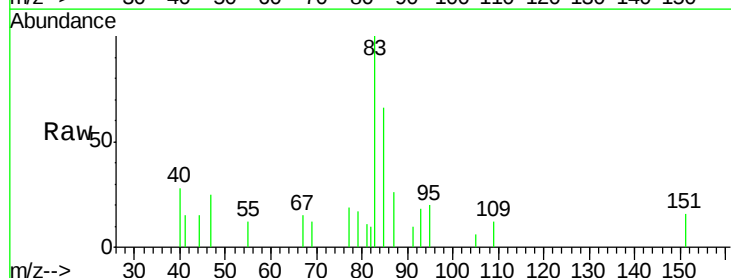


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

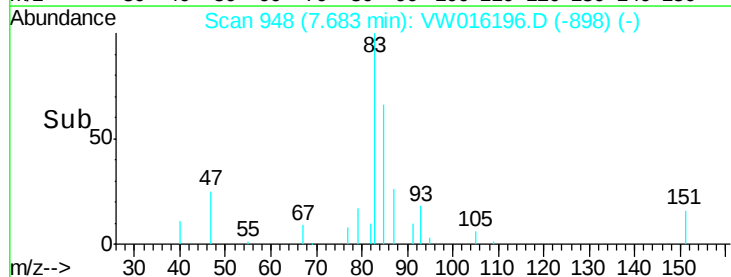
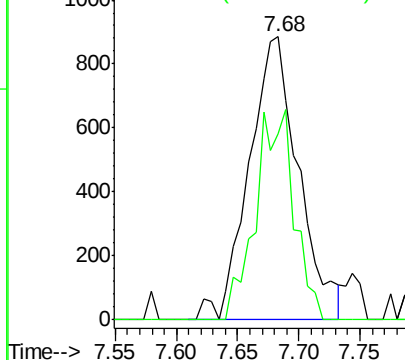


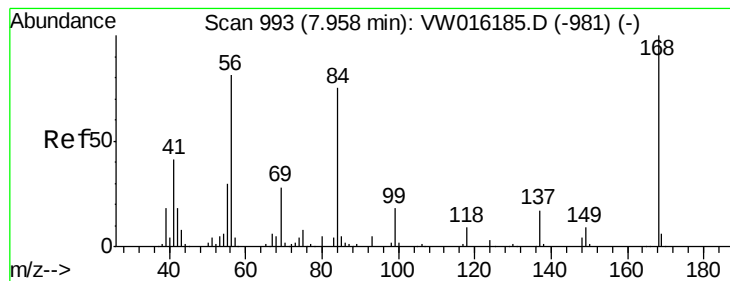
#30
Chloroform
Concen: 1.784 ug/l
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

Tgt Ion: 83 Resp: 2497
Ion Ratio Lower Upper
83 100
85 65.8 50.0 75.0



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 1.319 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampled :

SB-3

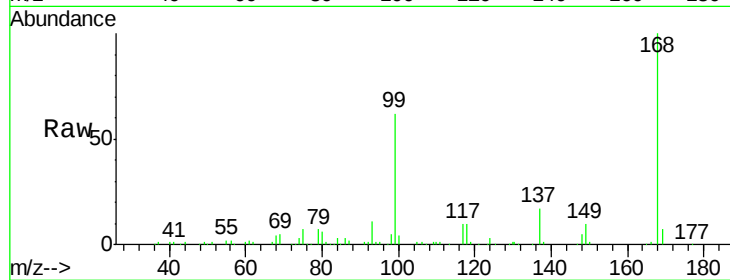
Tgt Ion: 56 Resp: 1638

Ion Ratio Lower Upper

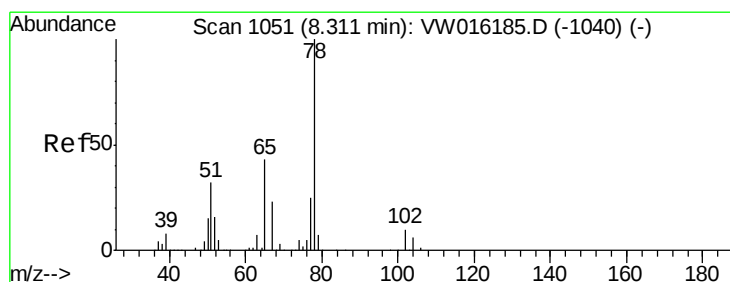
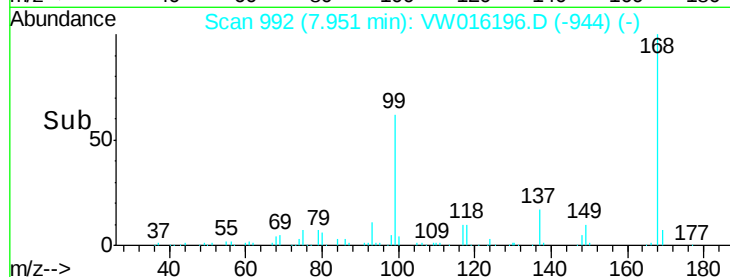
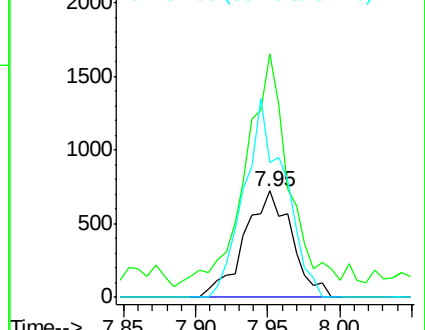
56 100

69 213.7 27.3 40.9#

84 127.4 73.5 110.3#



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



#33

1,2-Dichloroethane-d4

Concen: 53.223 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW016196.D

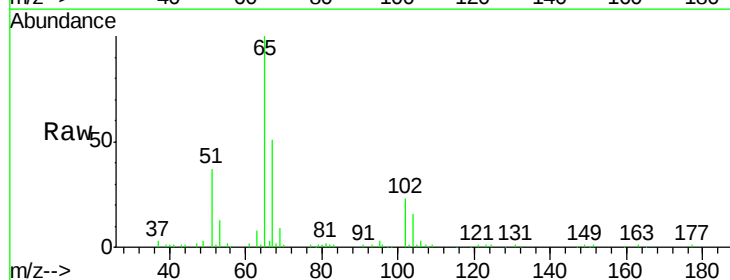
Acq: 14 Aug 2020 16:59

Tgt Ion: 65 Resp: 36220

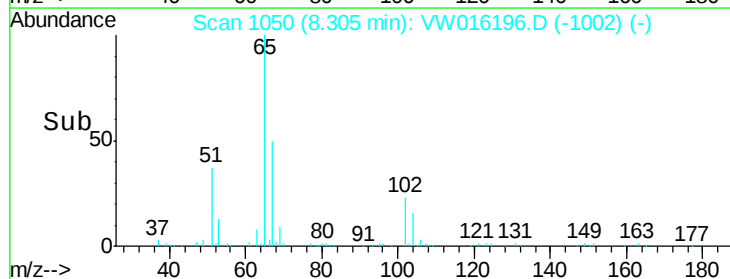
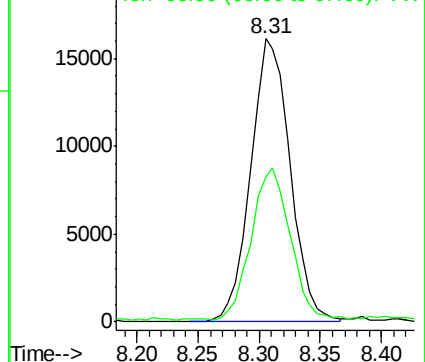
Ion Ratio Lower Upper

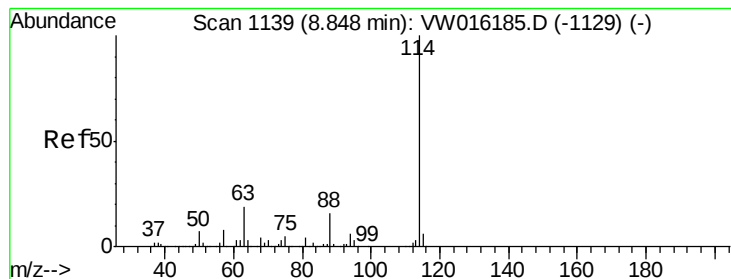
65 100

67 52.8 0.0 105.6



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: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampleId :

SB-3

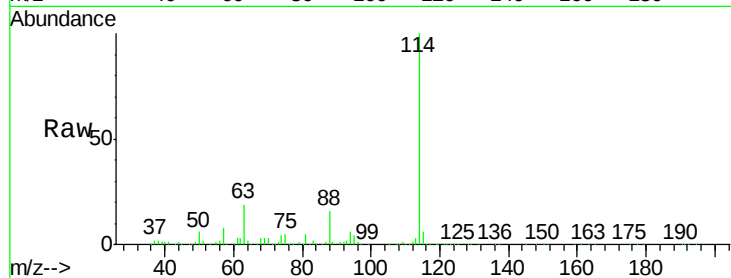
Tgt Ion:114 Resp: 120680

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.4

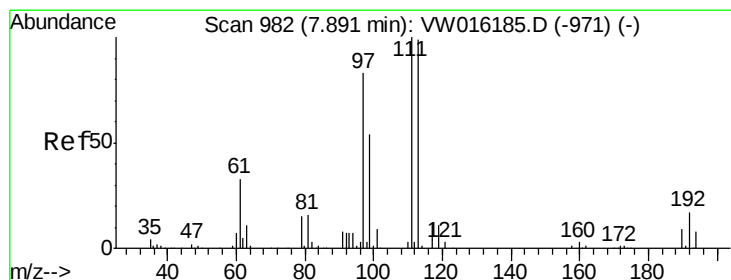
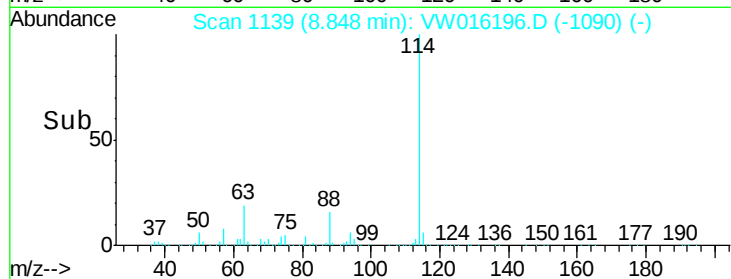
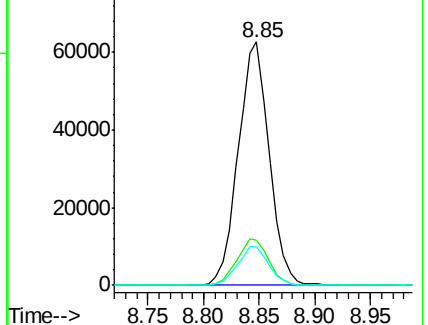
88 15.7 0.0 32.8



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: 48.028 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

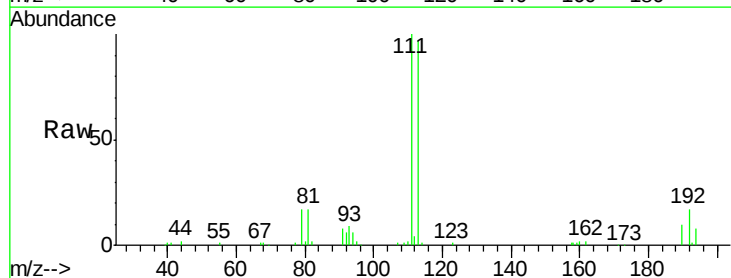
Tgt Ion:113 Resp: 35762

Ion Ratio Lower Upper

113 100

111 102.1 83.5 125.3

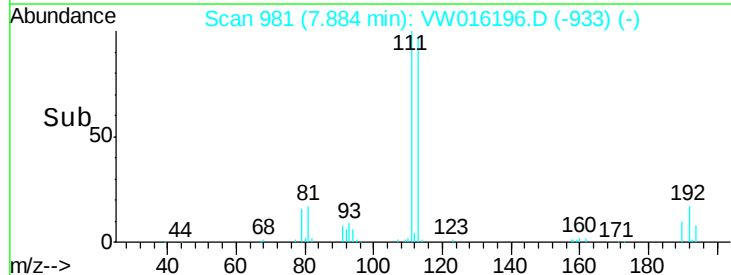
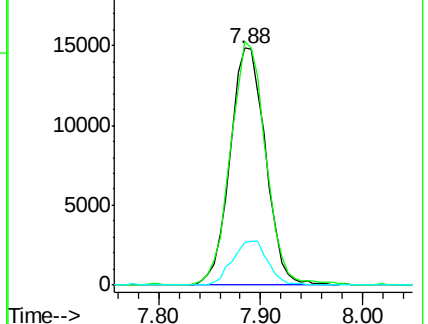
192 18.6 14.3 21.5

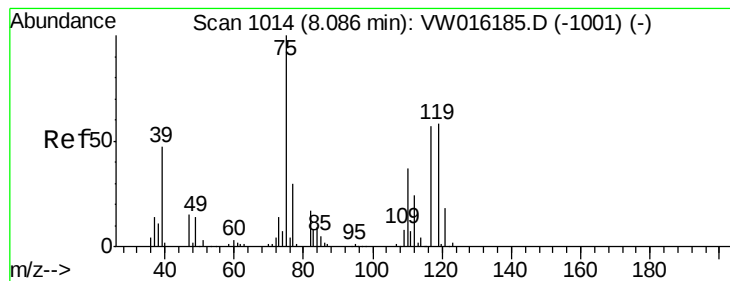


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.787 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

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ClientSampleId :

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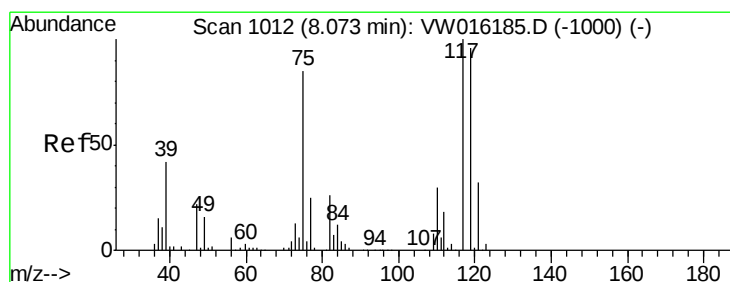
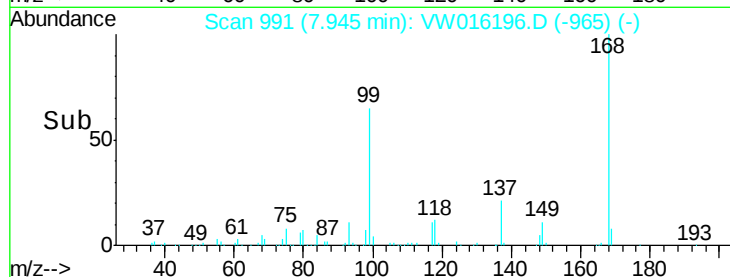
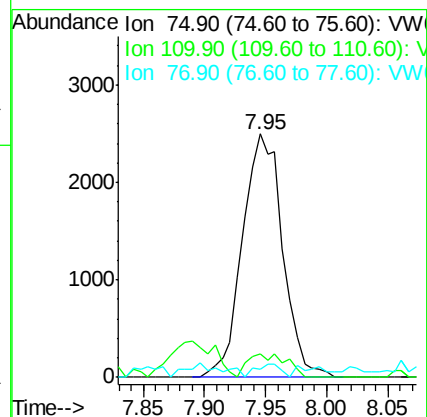
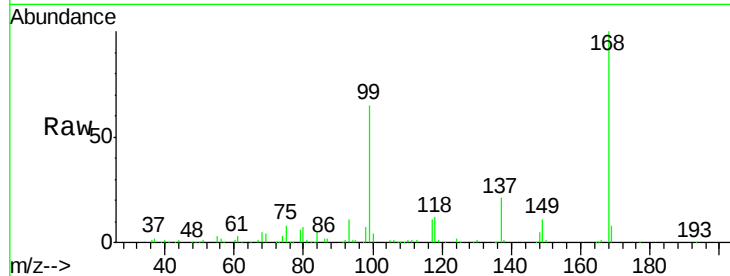
Tgt Ion: 75 Resp: 5691

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.3#

77 3.4 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.279 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

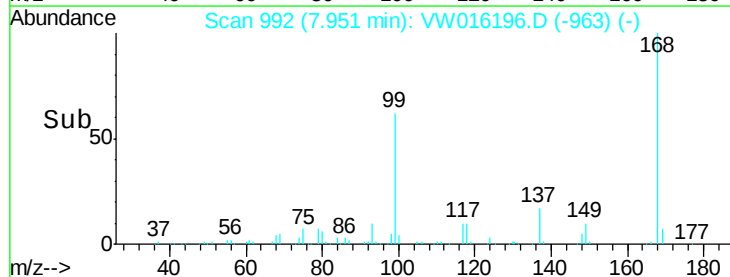
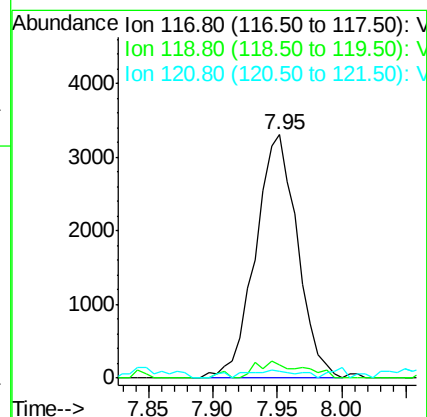
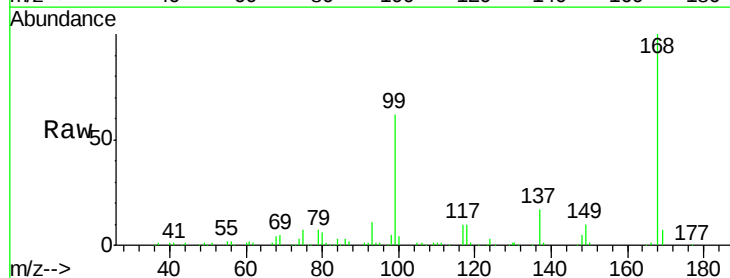
Tgt Ion: 117 Resp: 7450

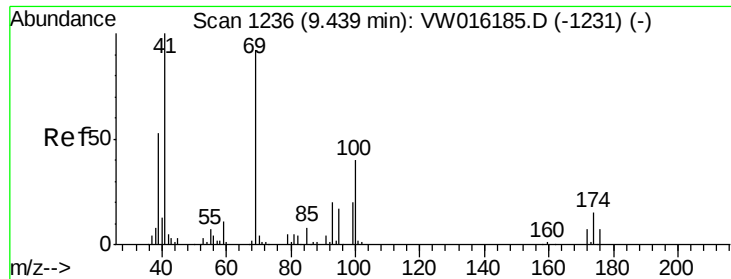
Ion Ratio Lower Upper

117 100

119 5.6 76.6 115.0#

121 2.6 25.4 38.0#

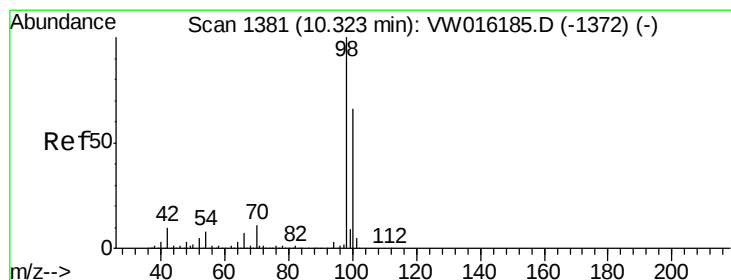
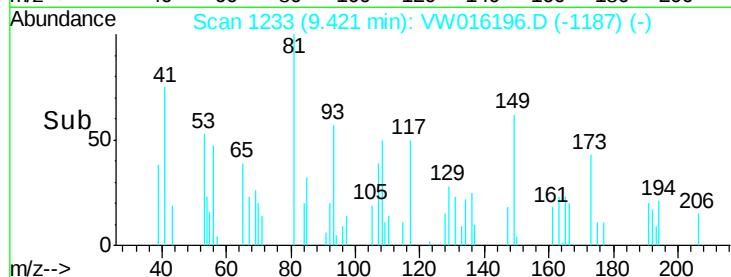
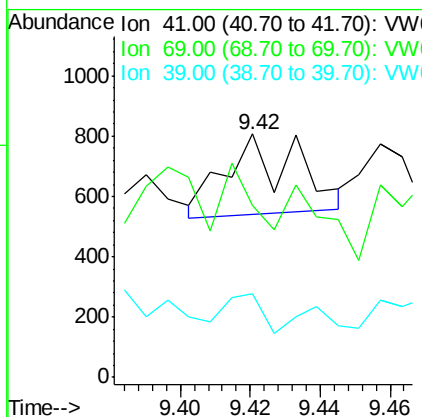
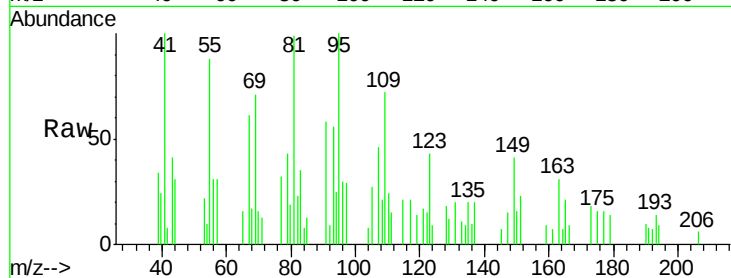




#48
Methyl methacrylate
Concen: 1.046 ug/l
RT: 9.42 min Scan# 1233
Delta R.T. -0.02 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

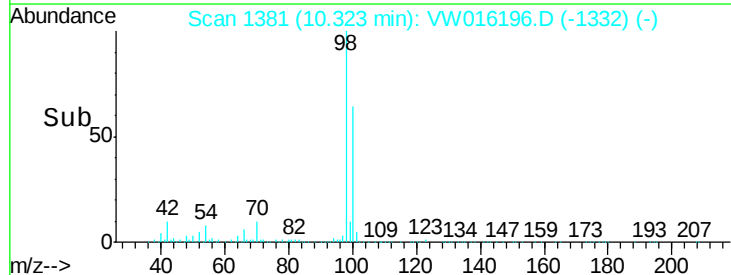
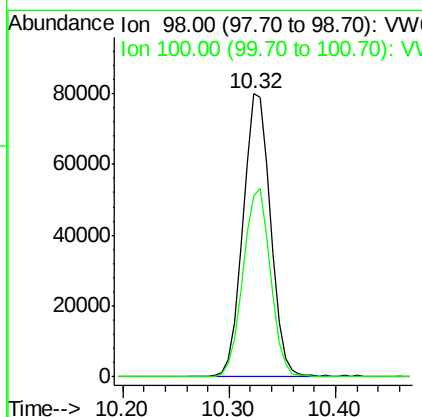
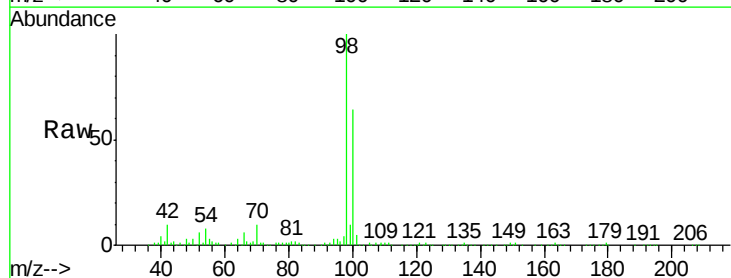
Instrument :
MSVOA_W
ClientSampled :
SB-3

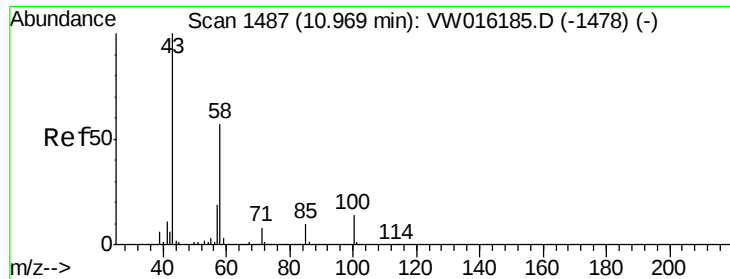
Tgt Ion: 41 Resp: 373
Ion Ratio Lower Upper
41 100
69 0.0 77.4 116.0#
39 24.7 42.2 63.2#



#50
Toluene-d8
Concen: 50.293 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

Tgt Ion: 98 Resp: 144957
Ion Ratio Lower Upper
98 100
100 66.5 53.5 80.3





#59

2-Hexanone

Concen: 1.074 ug/l

RT: 11.03 min Scan# 1497

Delta R.T. 0.06 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampled :

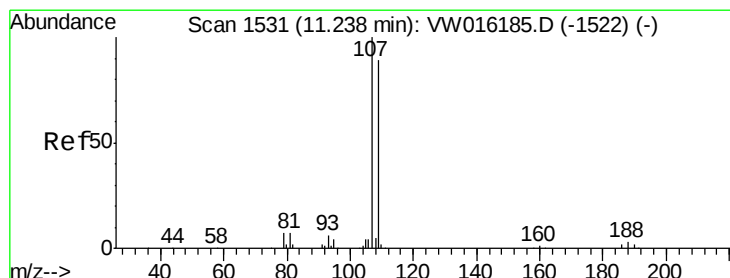
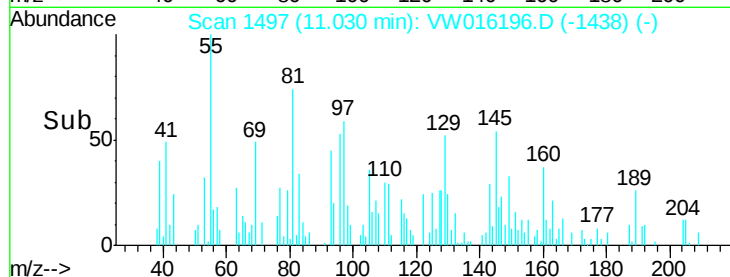
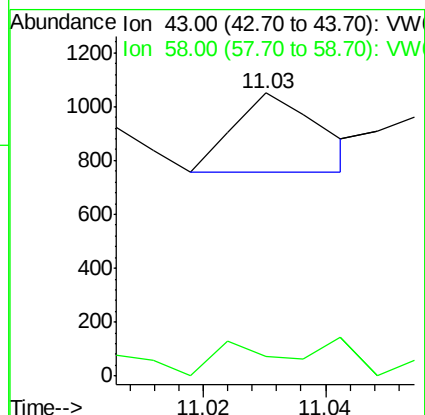
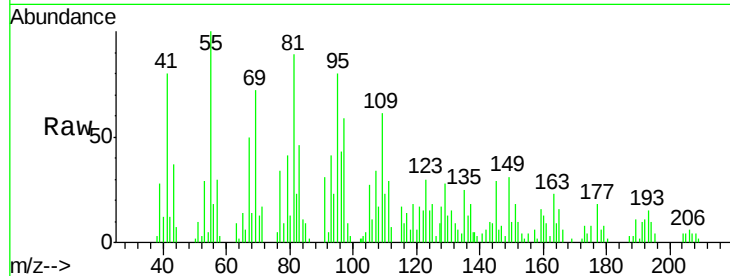
SB-3

Tgt Ion: 43 Resp: 285

Ion Ratio Lower Upper

43 100

58 34.4 28.8 86.5



#61

1,2-Dibromoethane

Concen: 1.217 ug/l

RT: 11.29 min Scan# 1539

Delta R.T. 0.05 min

Lab File: VW016196.D

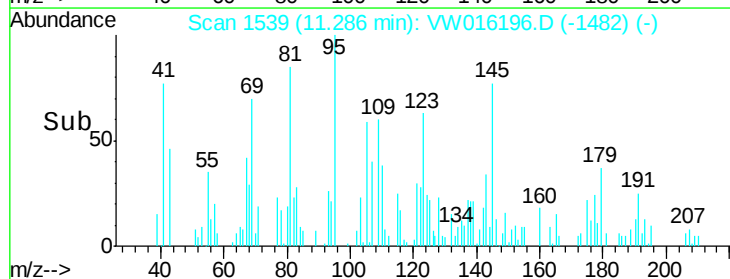
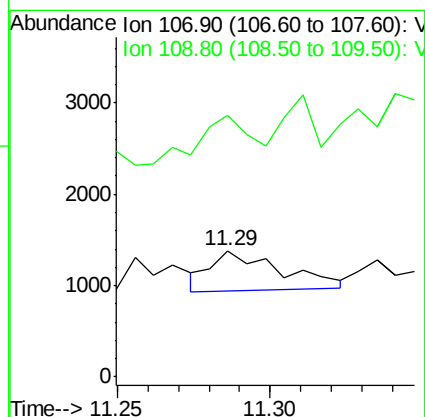
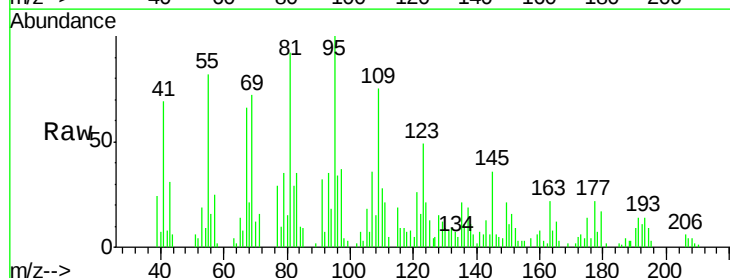
Acq: 14 Aug 2020 16:59

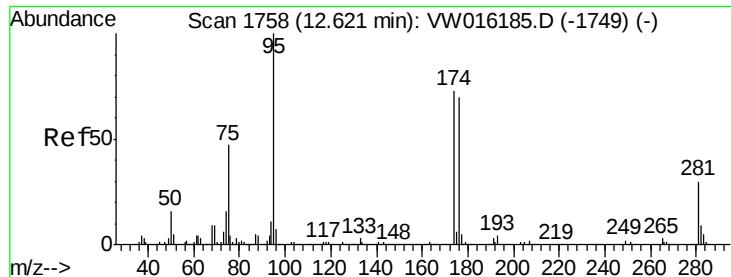
Tgt Ion: 107 Resp: 696

Ion Ratio Lower Upper

107 100

109 90.5 74.7 112.1





#62

4-Bromofluorobenzene

Concen: 58.072 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampleId :

SB-3

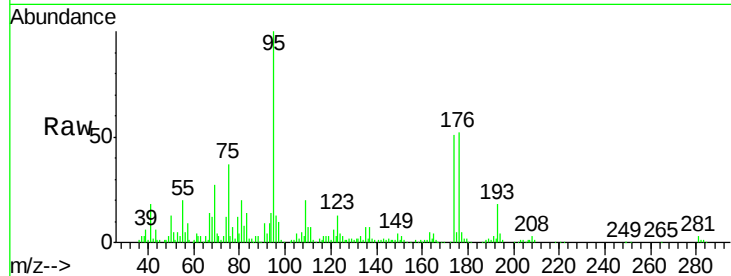
Tgt Ion: 95 Resp: 59830

Ion Ratio Lower Upper

95 100

174 57.5 0.0 145.6

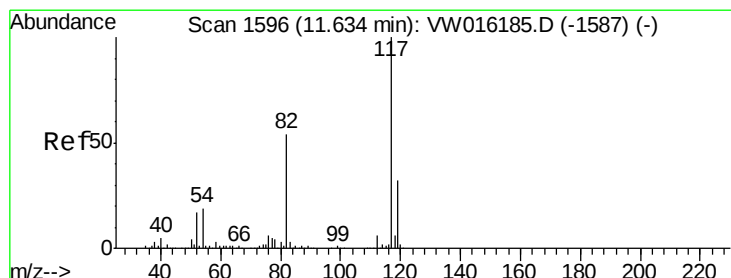
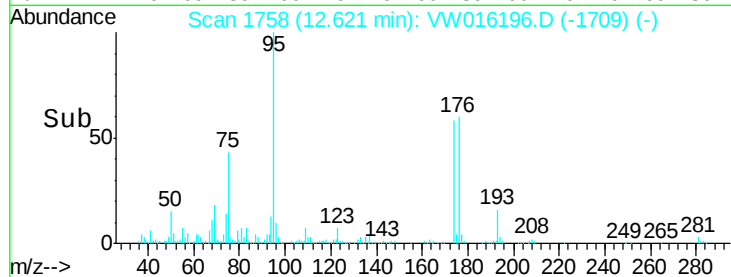
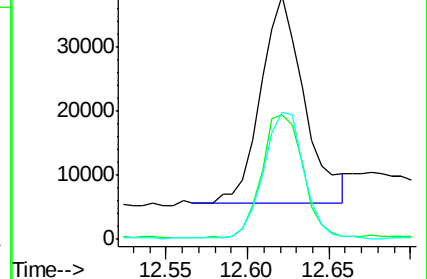
176 56.6 0.0 137.8



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: VW016196.D

Acq: 14 Aug 2020 16:59

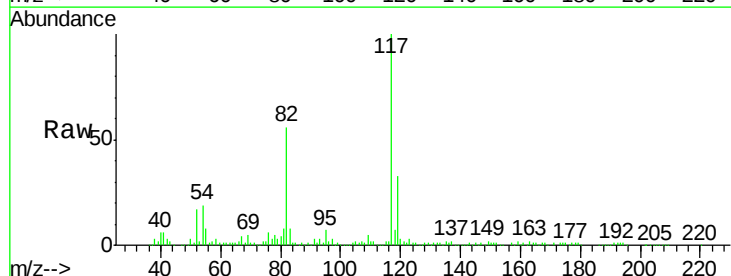
Tgt Ion: 117 Resp: 107477

Ion Ratio Lower Upper

117 100

82 54.7 43.6 65.4

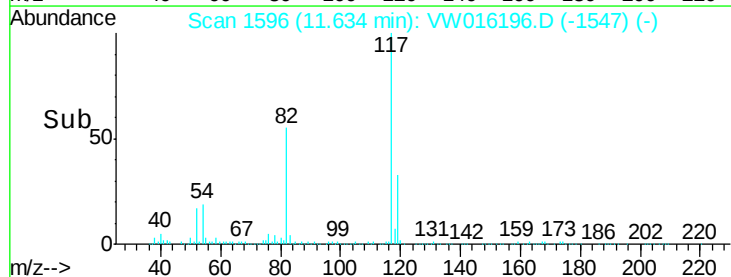
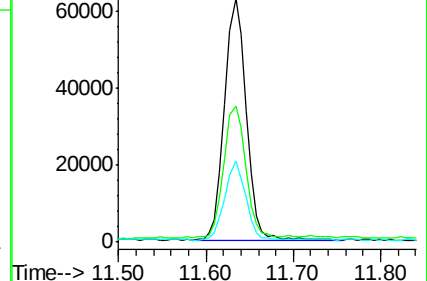
119 32.7 25.4 38.0

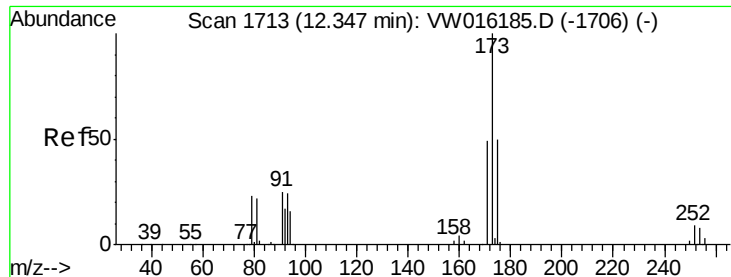


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#71

Bromoform

Concen: 1.320 ug/l

RT: 12.37 min Scan# 1716

Delta R.T. 0.02 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampleId :

SB-3

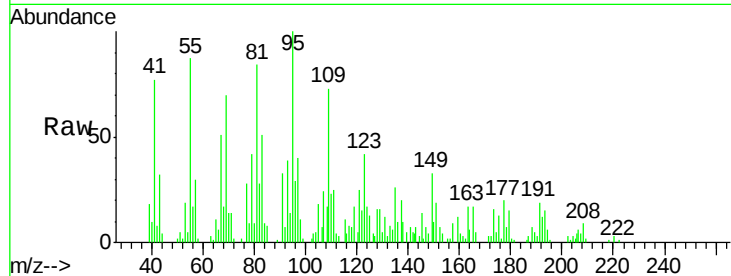
Tgt Ion:173 Resp: 455

Ion Ratio Lower Upper

173 100

175 162.6 24.7 74.1#

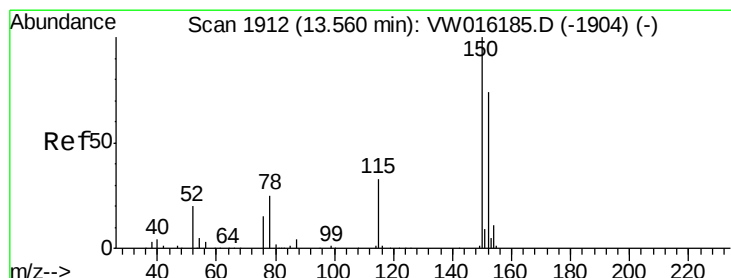
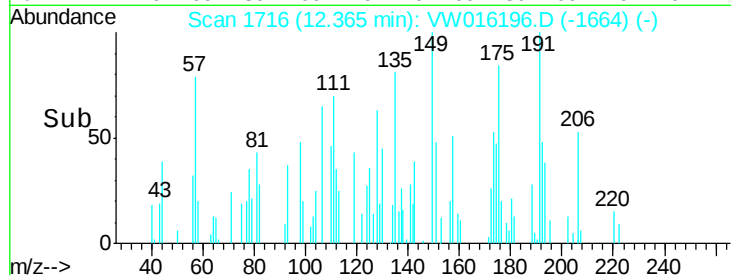
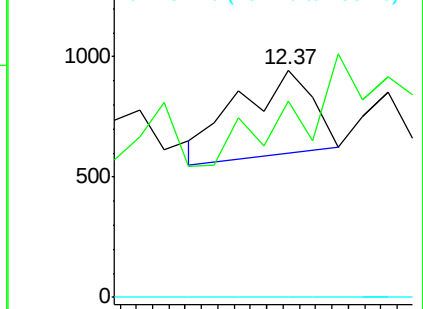
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VW016196.D

Acq: 14 Aug 2020 16:59

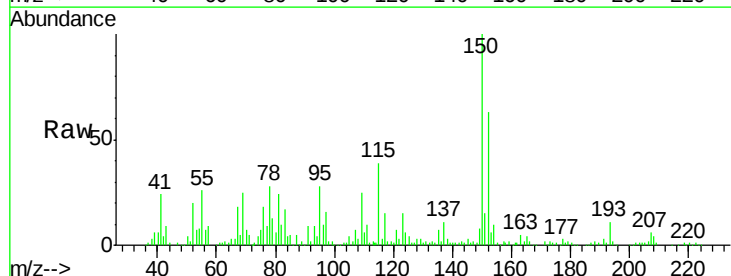
Tgt Ion:152 Resp: 46538

Ion Ratio Lower Upper

152 100

115 57.2 30.9 92.5

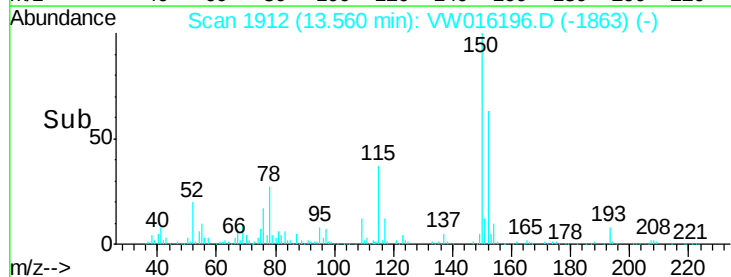
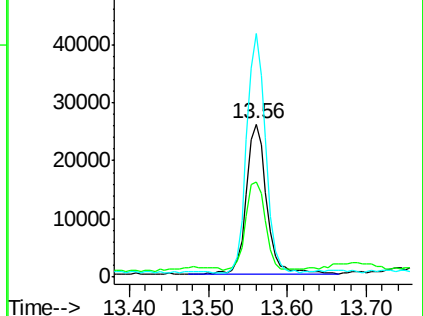
150 145.9 0.0 337.8

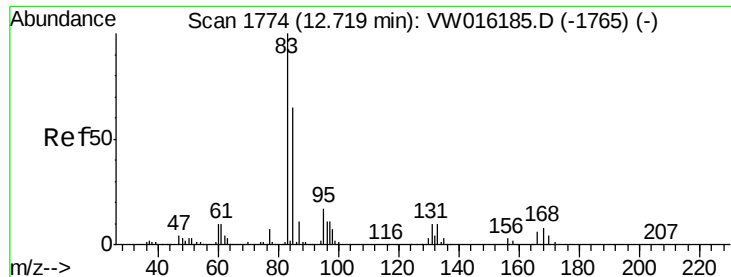


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 50.661 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.03 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampled :

SB-3

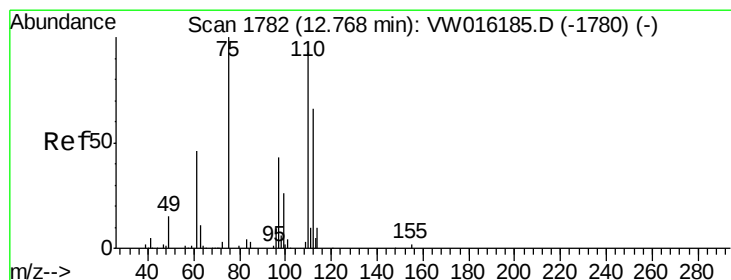
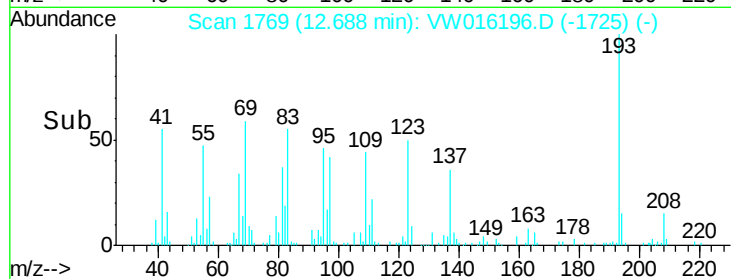
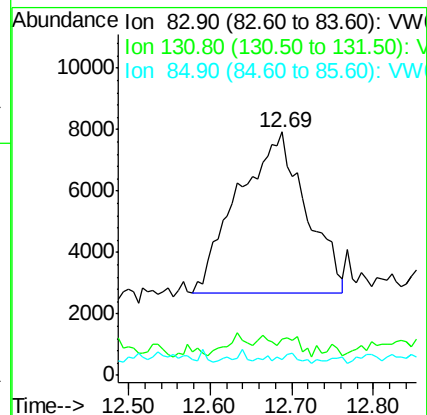
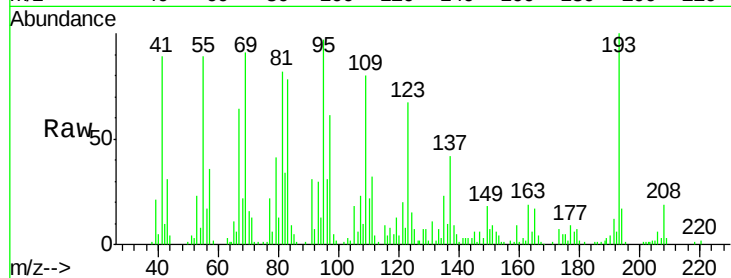
Tgt Ion: 83 Resp: 30063

Ion Ratio Lower Upper

83 100

131 3.3 5.6 16.8#

85 1.1 31.3 93.9#



#76

1,2,3-Trichloropropane

Concen: 54.743 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW016196.D

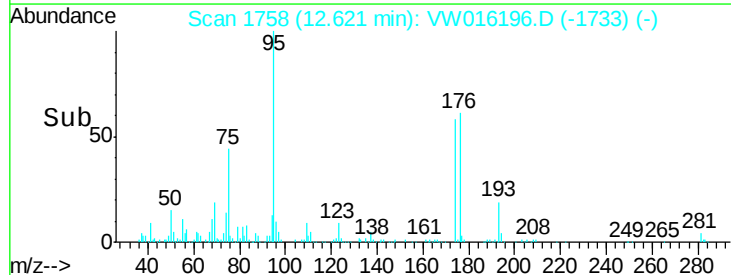
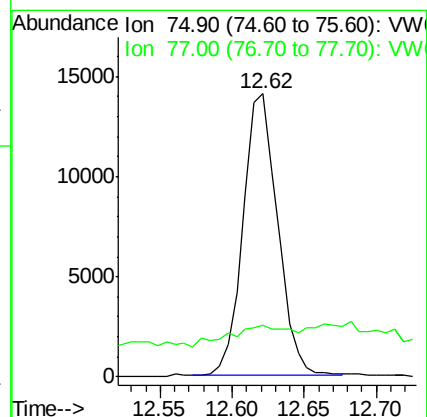
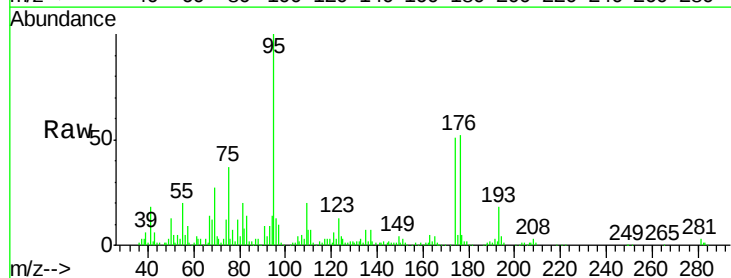
Acq: 14 Aug 2020 16:59

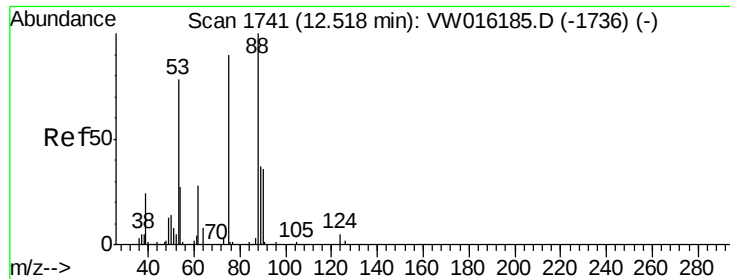
Tgt Ion: 75 Resp: 23430

Ion Ratio Lower Upper

75 100

77 13.4 173.6 520.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 131.309 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW016196.D

Acq: 14 Aug 2020 16:59

Instrument :

MSVOA_W

ClientSampled :

SB-3

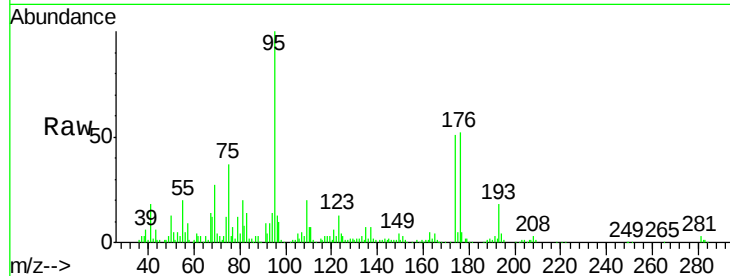
Tgt Ion: 75 Resp: 23430

Ion Ratio Lower Upper

75 100

53 6.9 74.6 111.8#

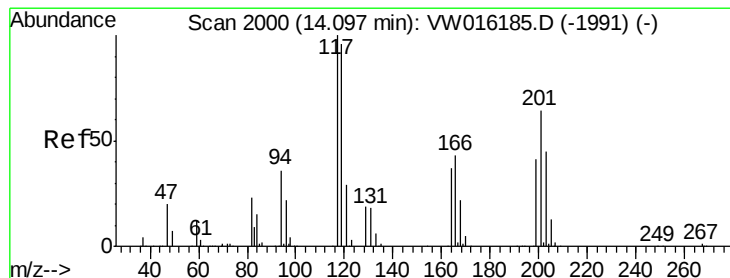
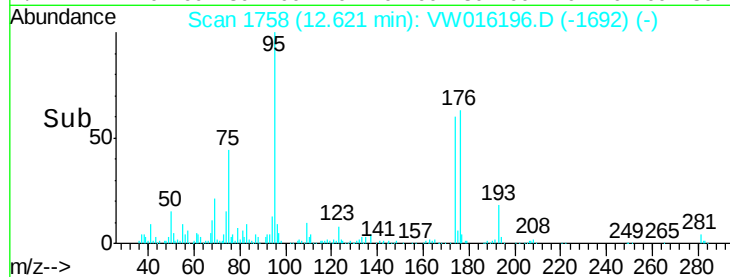
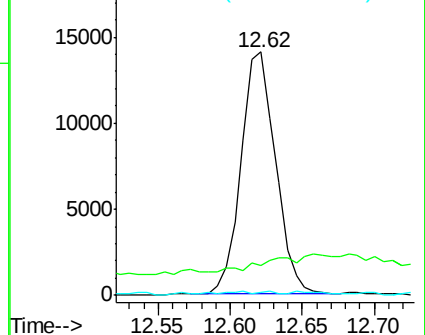
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#90

Hexachloroethane

Concen: 1.890 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.01 min

Lab File: VW016196.D

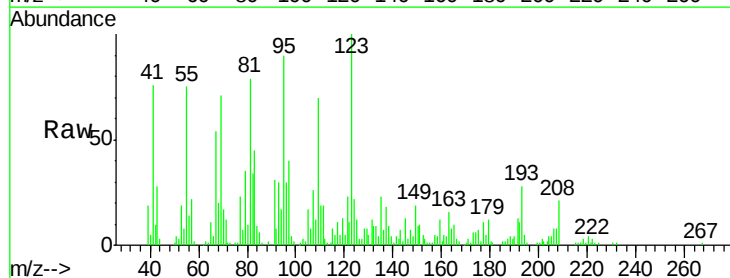
Acq: 14 Aug 2020 16:59

Tgt Ion: 117 Resp: 1157

Ion Ratio Lower Upper

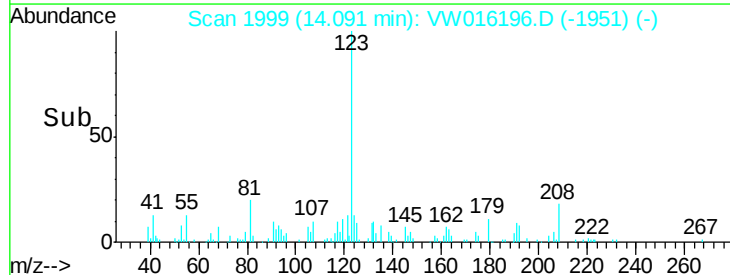
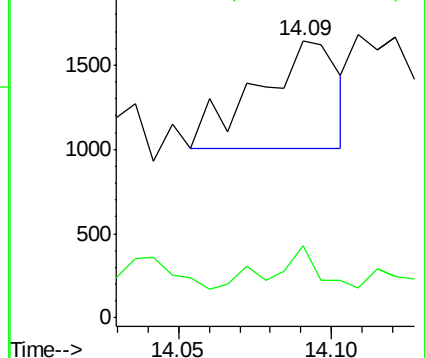
117 100

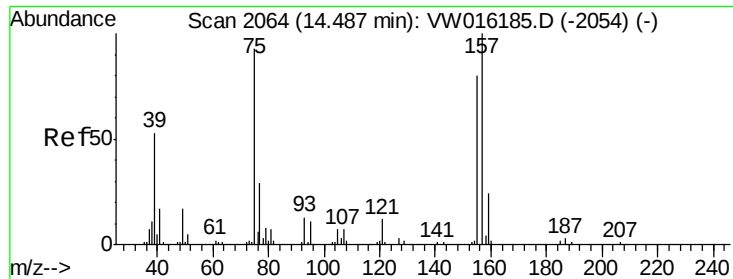
201 40.9 33.8 101.3



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

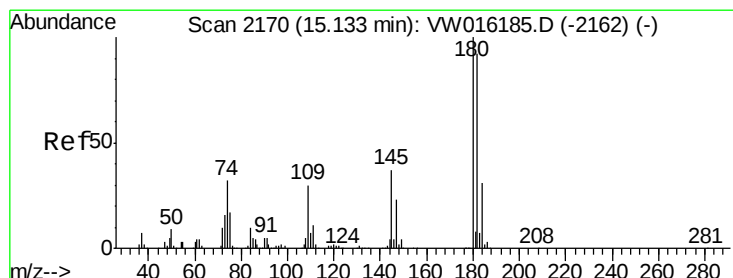
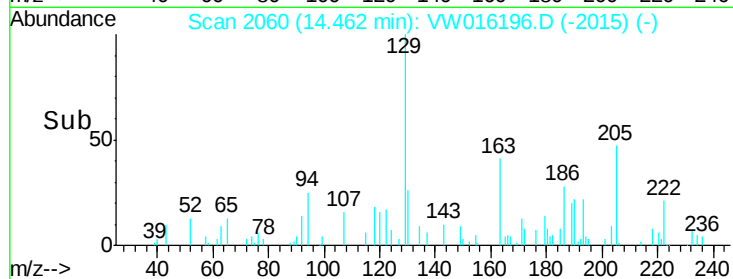
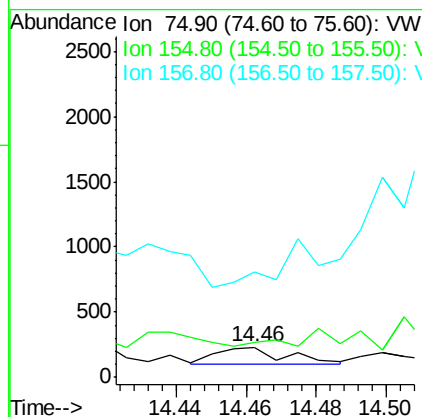
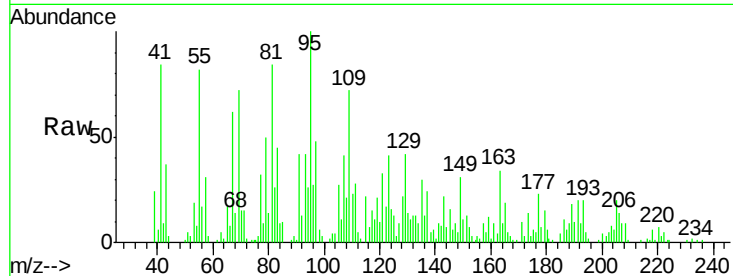




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.116 ug/l
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW016196.D
 Acq: 14 Aug 2020 16:59

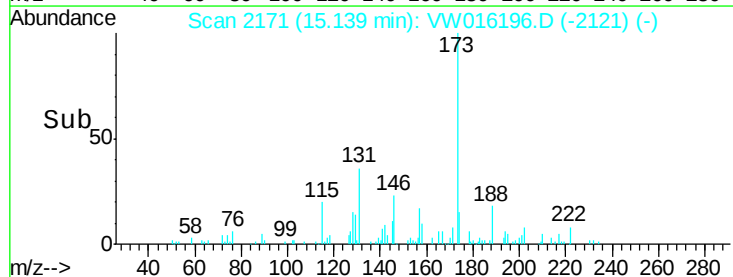
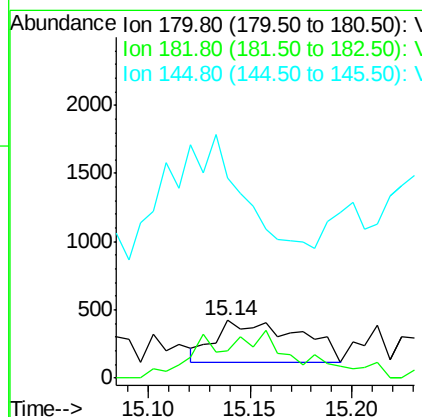
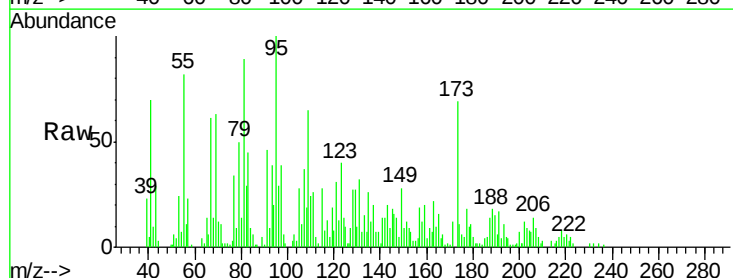
Instrument :
 MSVOA_W
 ClientSampleID :
 SB-3

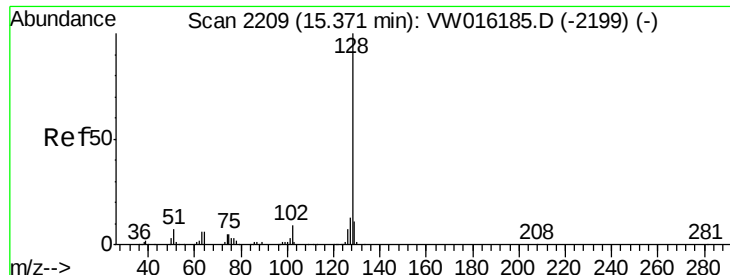
Tgt Ion: 75 Resp: 193
 Ion Ratio Lower Upper
 75 100
 155 27.5 41.3 124.1#
 157 0.0 53.0 159.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.052 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW016196.D
 Acq: 14 Aug 2020 16:59

Tgt Ion: 180 Resp: 859
 Ion Ratio Lower Upper
 180 100
 182 37.1 46.0 138.0#
 145 273.0 16.9 50.7#





#95
Naphthalene
Concen: 3.799 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW016196.D
Acq: 14 Aug 2020 16:59

Instrument :
MSVOA_W
ClientSampleId :
SB-3

Tgt Ion:128 Resp: 408
Ion Ratio Lower Upper
128 100
127 107.8 10.2 15.4#
129 133.1 8.7 13.1#

