

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092319\
 Data File : VW013237.D
 Acq On : 23 Sep 2019 17:48
 Operator : SY/VA
 Sample : K4863-16RE
 Misc : 5.47G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CSA-2-5-4RE

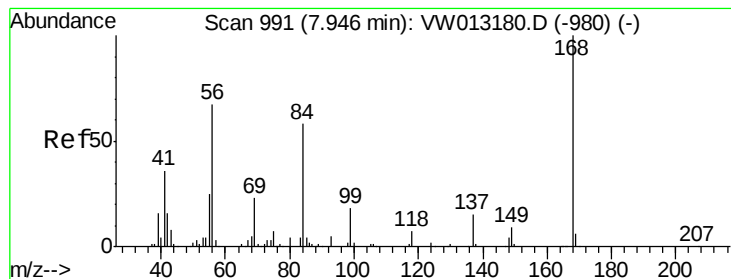
Quant Time: Sep 24 06:41:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	279083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	432263	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	304658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	90846	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	127853	56.13	ug/l	0.00
Spiked Amount			Recovery	=	112.26%	
35) Dibromofluoromethane	7.88	113	124658	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
50) Toluene-d8	10.32	98	455168	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	
62) 4-Bromofluorobenzene	12.62	95	113889	33.51	ug/l	0.00
Spiked Amount			Recovery	=	67.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	389	Below Cal	#	73
16) Acetone	4.14	43	960	1.869	ug/l #	86
26) 2,2-Dichloropropane	7.14	77	651	Below Cal	#	52
36) 1,1-Dichloropropene	7.94	75	17998	4.299	ug/l #	49
38) Carbon Tetrachloride	7.95	117	23797	6.341	ug/l #	21
51) 4-Methyl-2-Pentanone	10.32	43	1965	1.149	ug/l #	1
60) Dibromochloromethane	10.86	129	2754	1.172	ug/l #	11
64) Tetrachloroethene	10.86	164	3143	1.360	ug/l	87
76) 1,2,3-Trichloropropane	12.62	75	53168	66.270	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	53168	148.705	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampled :

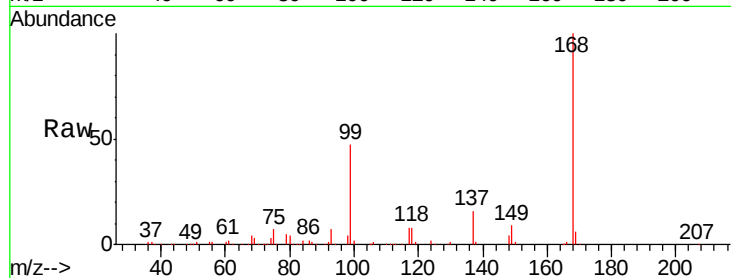
CSA-2-5-4RE

Tgt Ion: 168 Resp: 279083

Ion Ratio Lower Upper

168 100

99 46.9 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

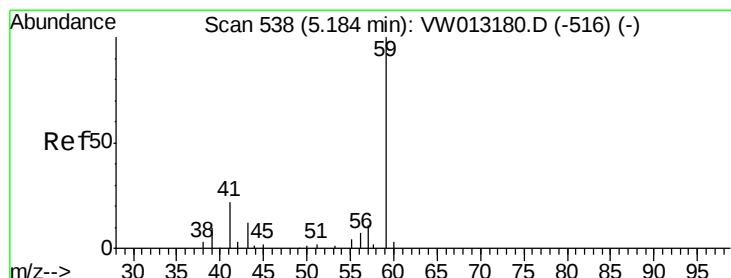
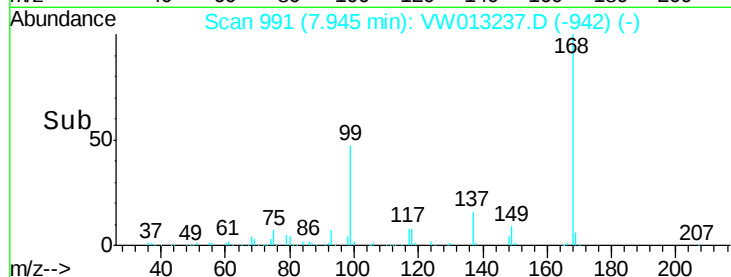
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 537

Delta R.T. -0.01 min

Lab File: VW013237.D

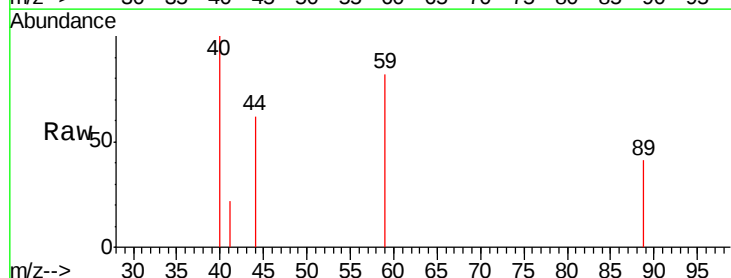
Acq: 23 Sep 2019 17:48

Tgt Ion: 59 Resp: 389

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

800

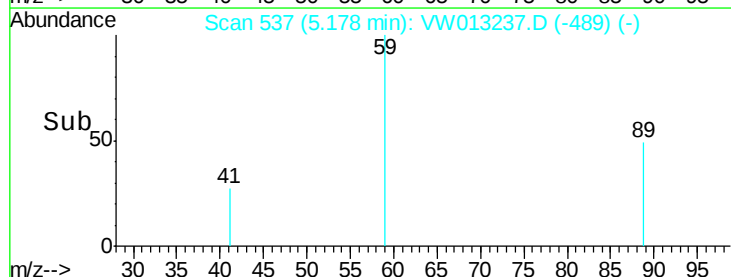
600

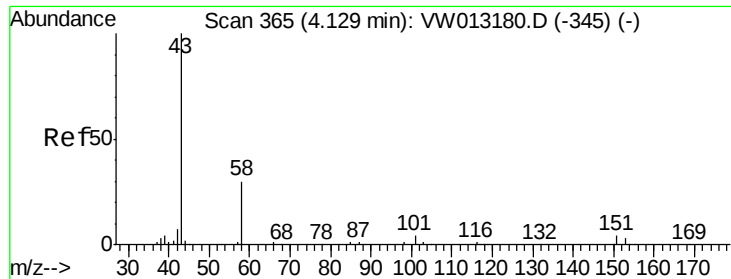
400

200

0

Time--> 5.15 5.20 5.25





#16

Acetone

Concen: 1.869 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

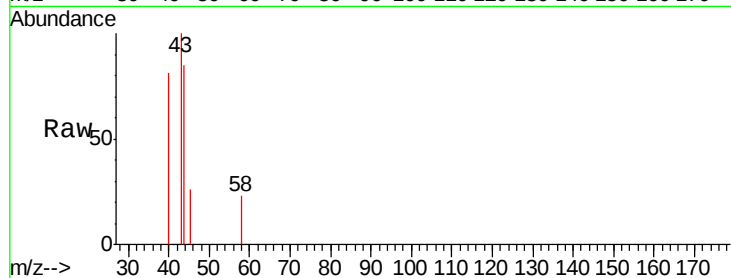
CSA-2-5-4RE

Tgt Ion: 43 Resp: 960

Ion Ratio Lower Upper

43 100

58 22.7 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

250

200

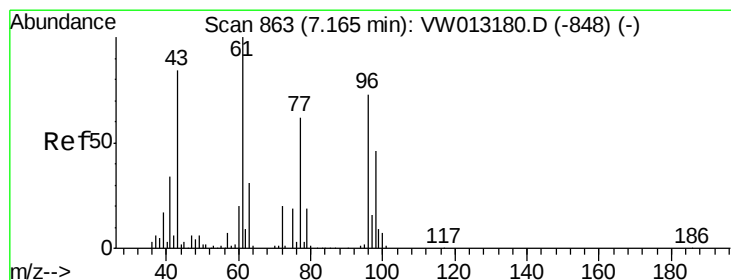
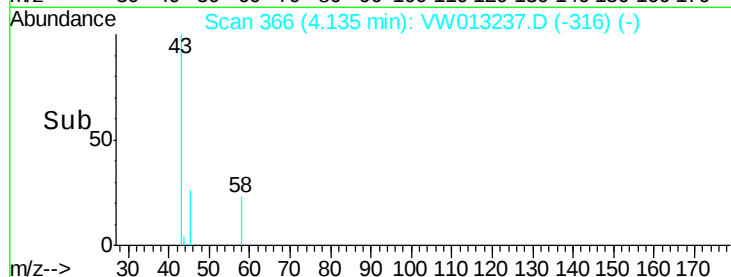
150

100

50

0

Time-->



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013237.D

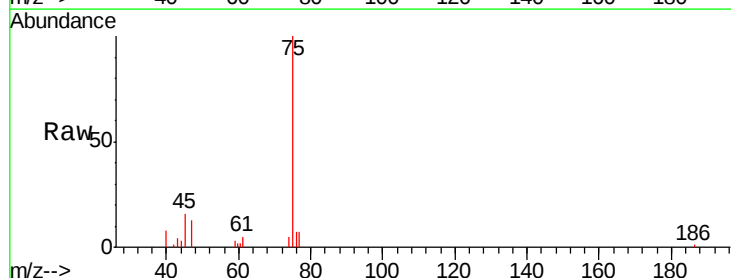
Acq: 23 Sep 2019 17:48

Tgt Ion: 77 Resp: 651

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.14

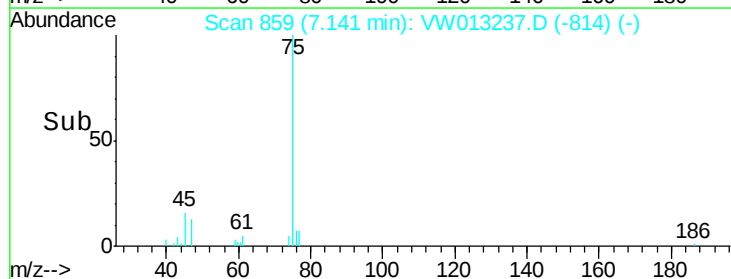
300

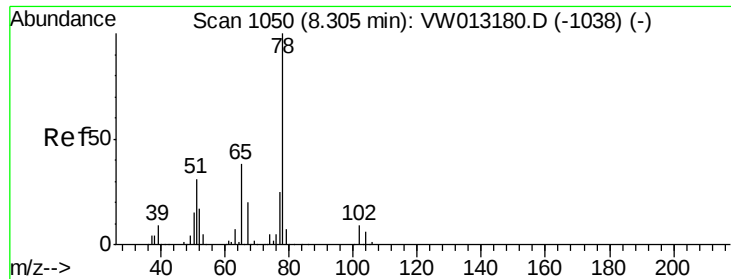
200

100

0

Time-->

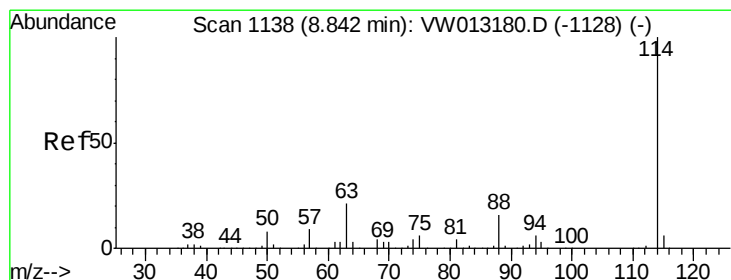
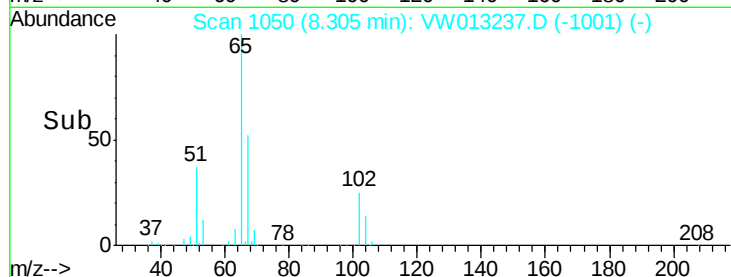
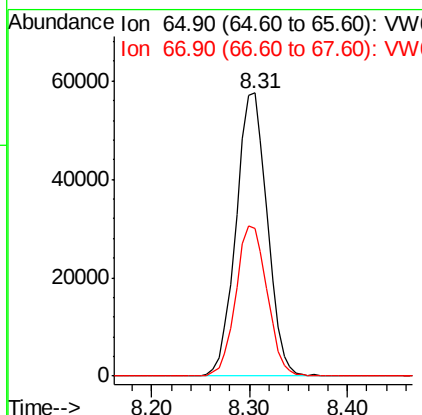
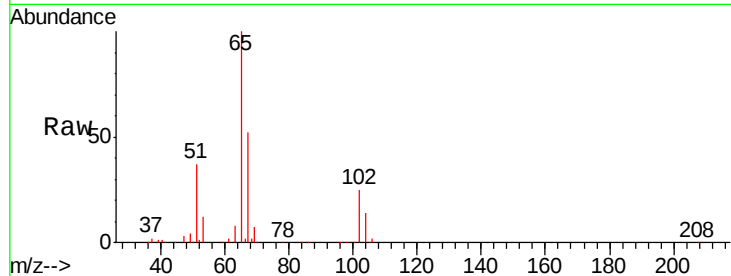




#33
 1,2-Dichloroethane-d4
 Concen: 56.132 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013237.D
 Acq: 23 Sep 2019 17:48

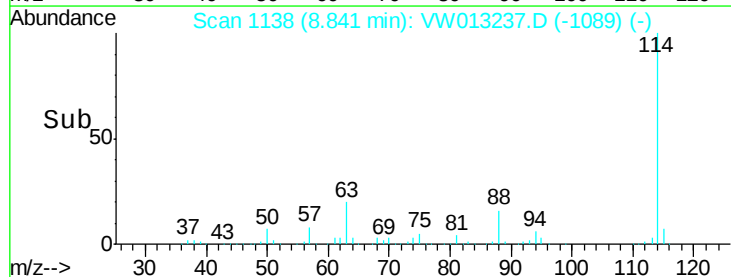
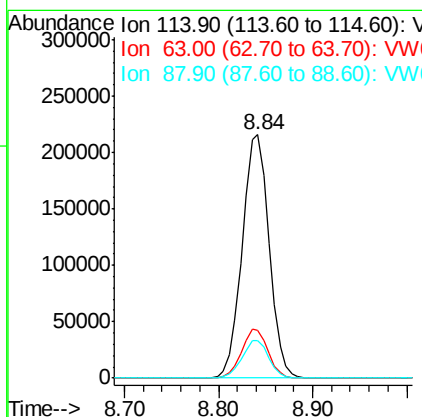
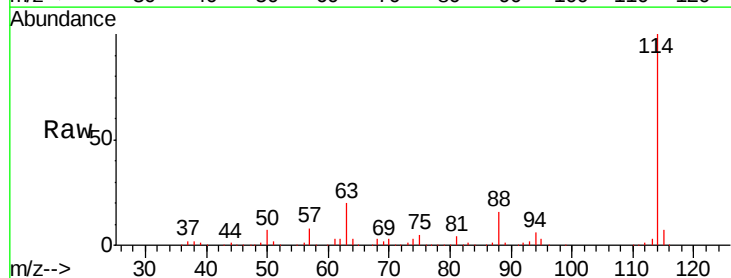
Instrument :
 MSVOA_W
 ClientSampleId :
 CSA-2-5-4RE

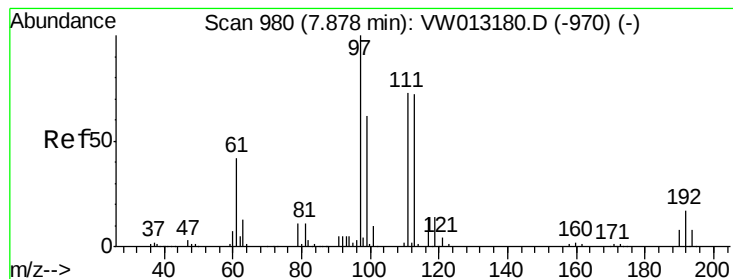
Tgt Ion: 65 Resp: 127853
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013237.D
 Acq: 23 Sep 2019 17:48

Tgt Ion: 114 Resp: 432263
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 15.6 0.0 32.0





#35

Dibromofluoromethane

Concen: 52.433 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

CSA-2-5-4RE

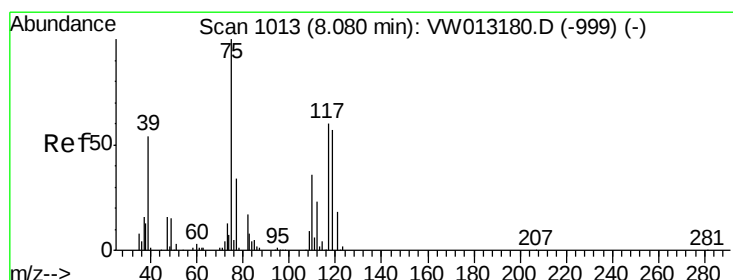
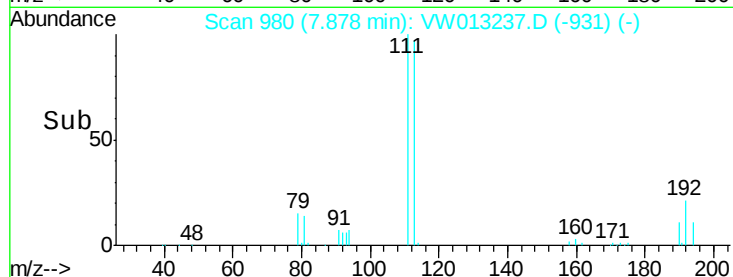
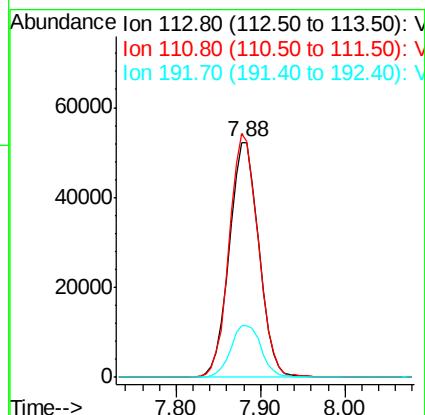
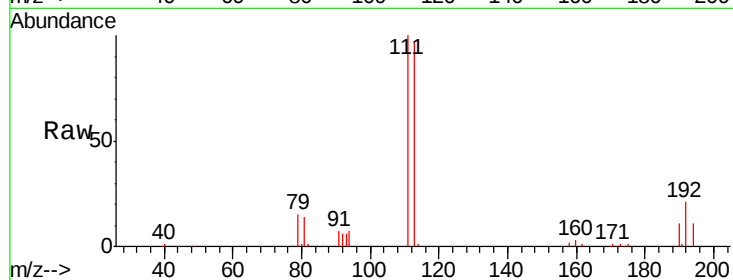
Tgt Ion:113 Resp: 124658

Ion Ratio Lower Upper

113 100

111 101.8 81.9 122.9

192 22.7 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.299 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

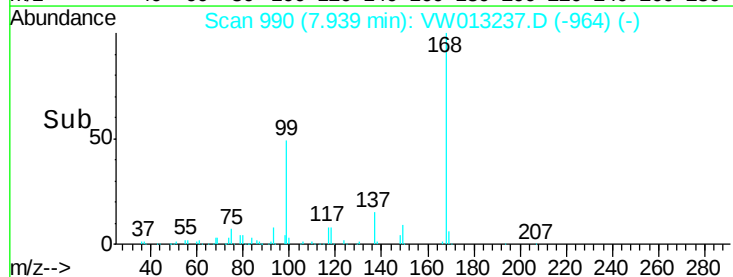
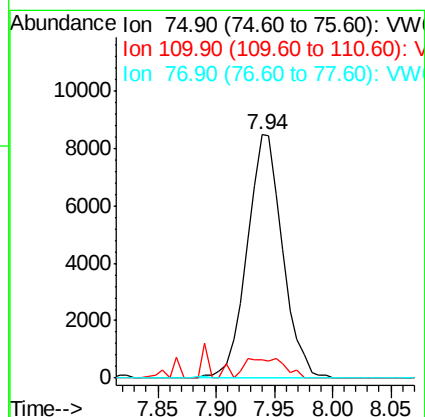
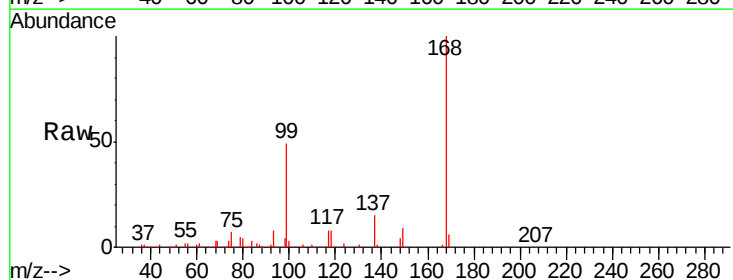
Tgt Ion: 75 Resp: 17998

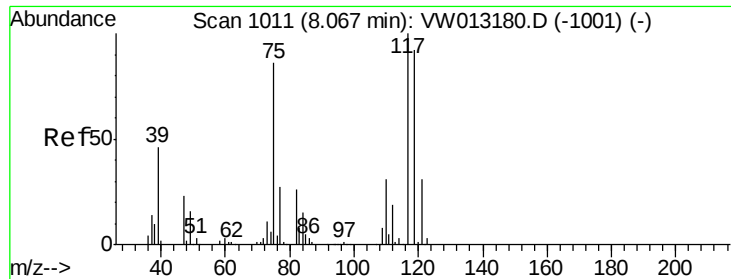
Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 6.341 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

CSA-2-5-4RE

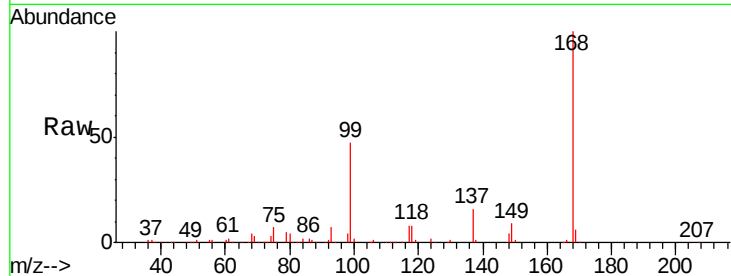
Tgt Ion:117 Resp: 23797

Ion Ratio Lower Upper

117 100

119 8.7 73.5 110.3#

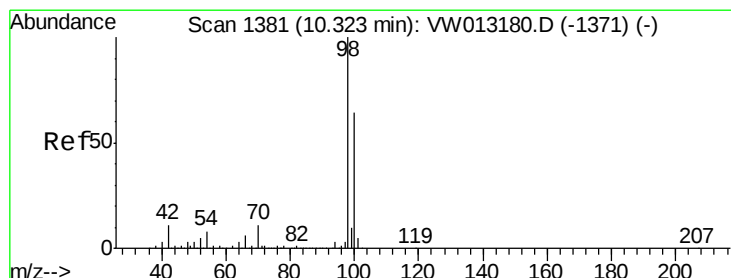
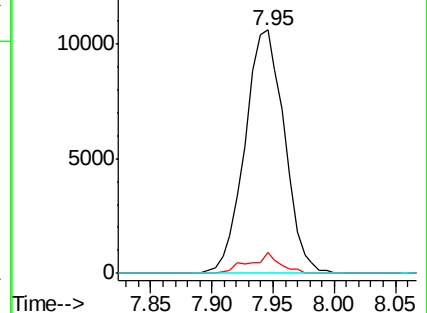
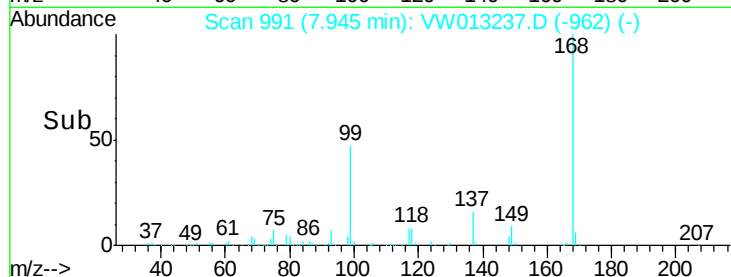
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 45.746 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013237.D

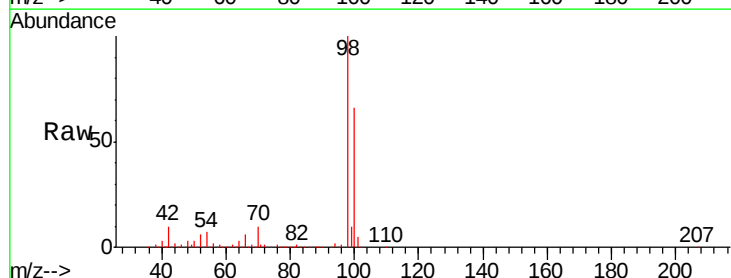
Acq: 23 Sep 2019 17:48

Tgt Ion: 98 Resp: 455168

Ion Ratio Lower Upper

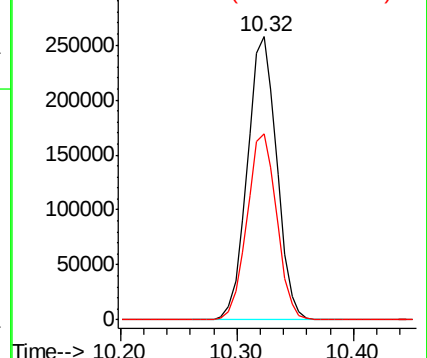
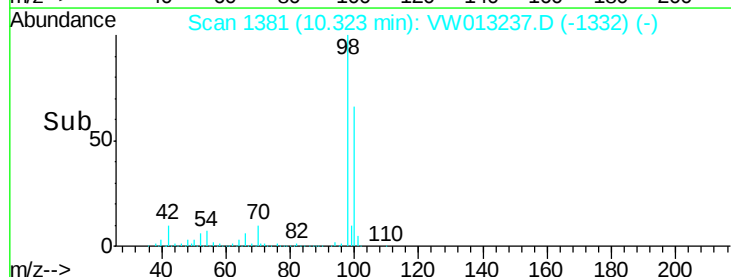
98 100

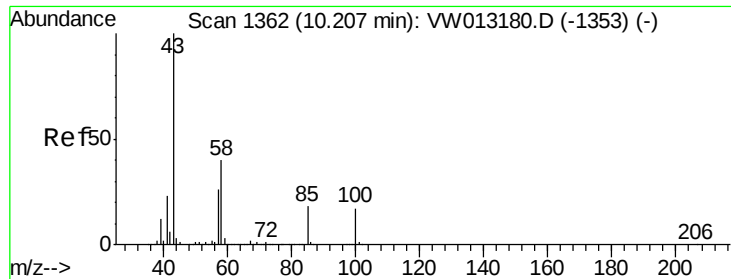
100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.149 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

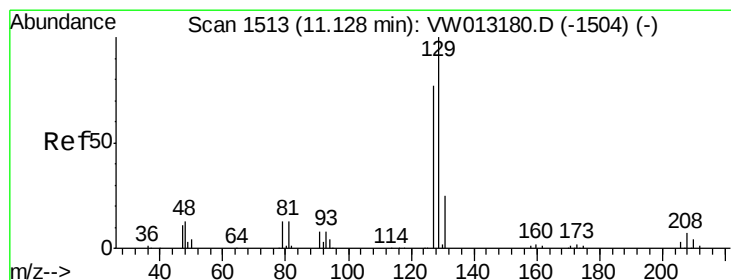
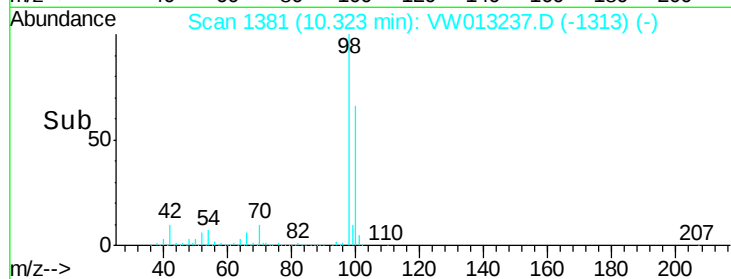
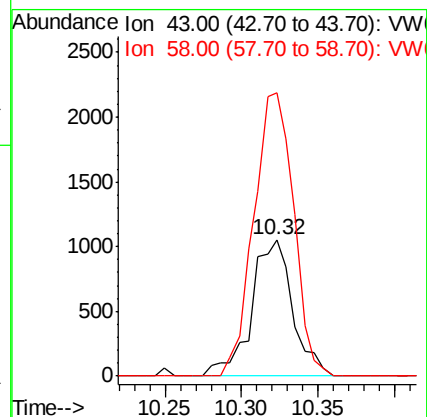
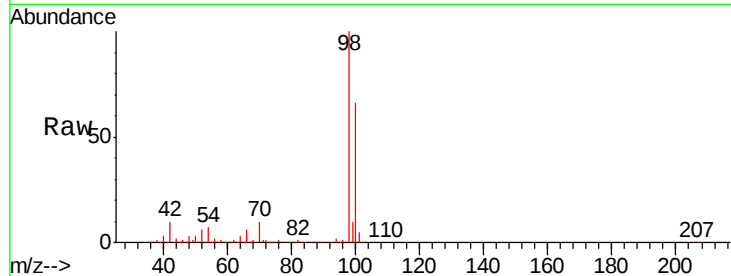
CSA-2-5-4RE

Tgt Ion: 43 Resp: 1965

Ion Ratio Lower Upper

43 100

58 202.1 31.7 47.5#



#60

Dibromochloromethane

Concen: 1.172 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013237.D

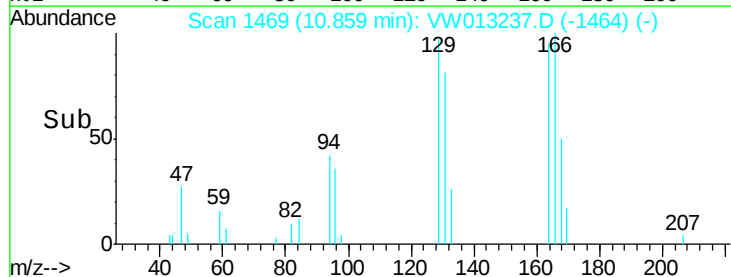
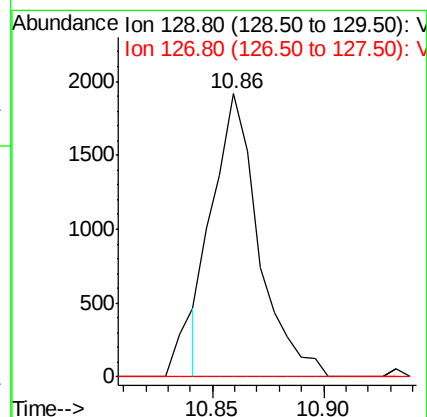
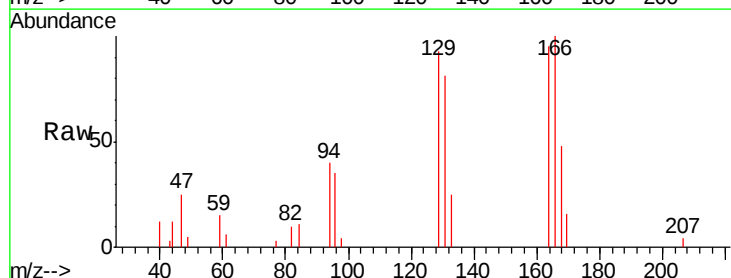
Acq: 23 Sep 2019 17:48

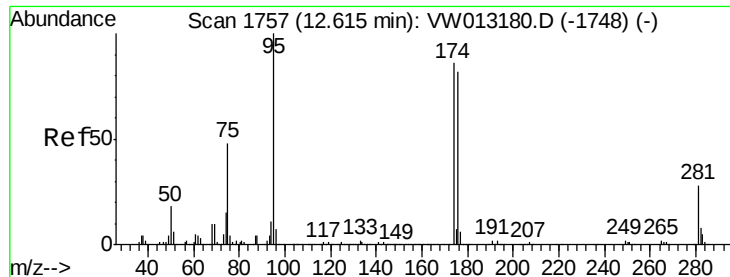
Tgt Ion: 129 Resp: 2754

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#





#62

4-Bromofluorobenzene

Concen: 33.509 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

CSA-2-5-4RE

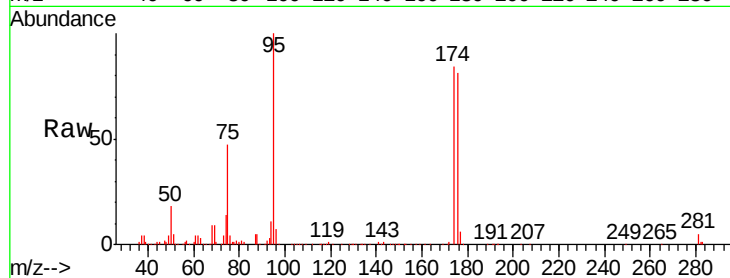
Tgt Ion: 95 Resp: 113889

Ion Ratio Lower Upper

95 100

174 87.0 0.0 178.4

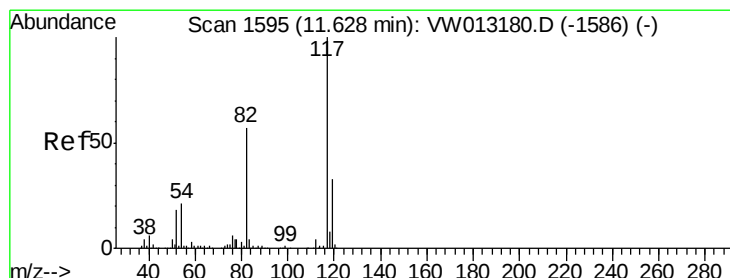
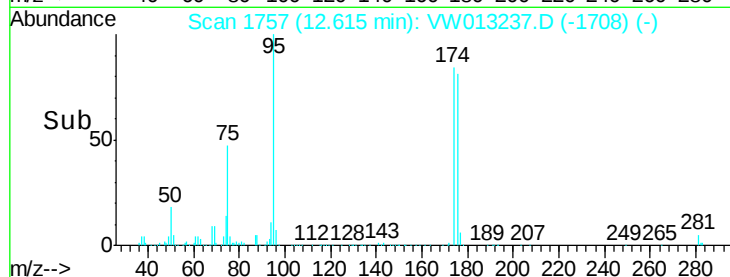
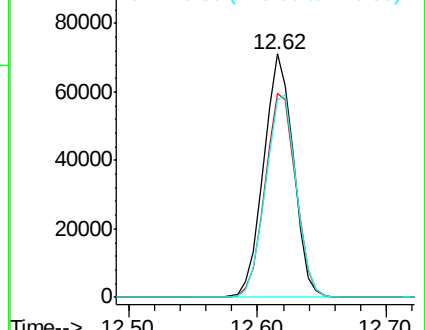
176 86.0 0.0 172.2



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# 1595

Delta R.T. -0.00 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

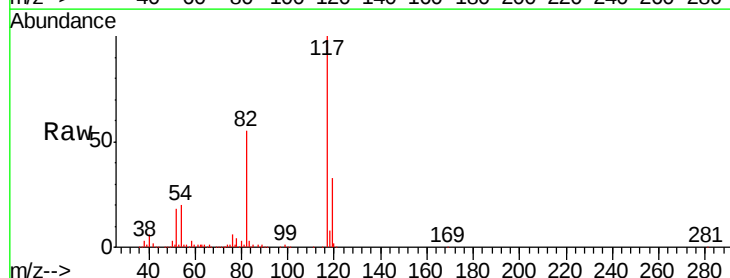
Tgt Ion: 117 Resp: 304658

Ion Ratio Lower Upper

117 100

82 54.8 45.9 68.9

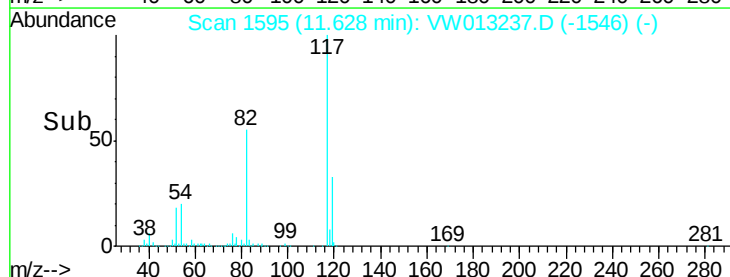
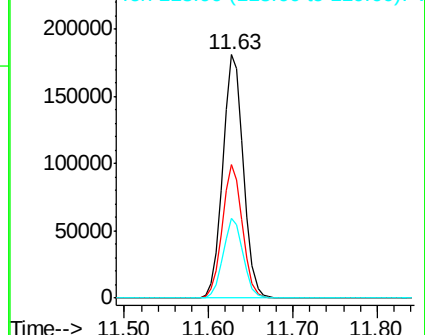
119 32.9 26.2 39.2

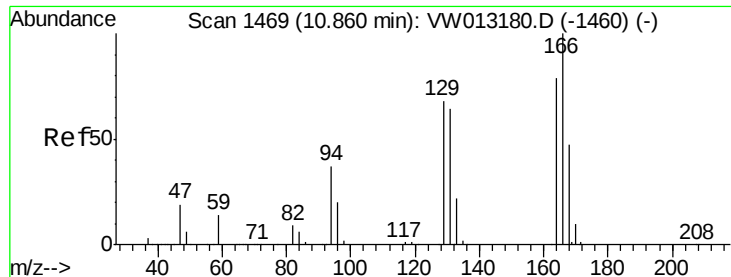


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#64

Tetrachloroethene

Concen: 1.360 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

CSA-2-5-4RE

Tgt Ion:164 Resp: 3143

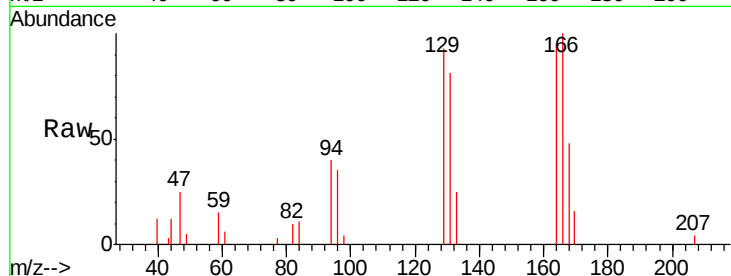
Ion Ratio Lower Upper

164 100

166 105.2 101.2 151.8

129 97.7 68.8 103.2

131 85.6 65.2 97.8

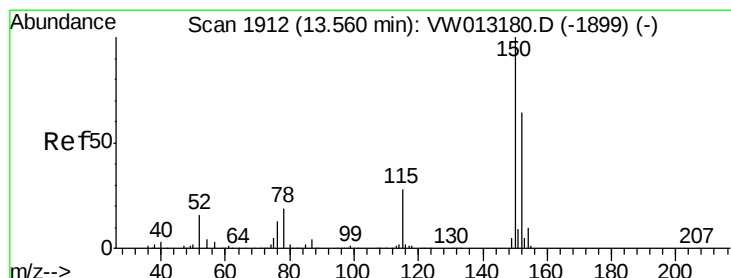
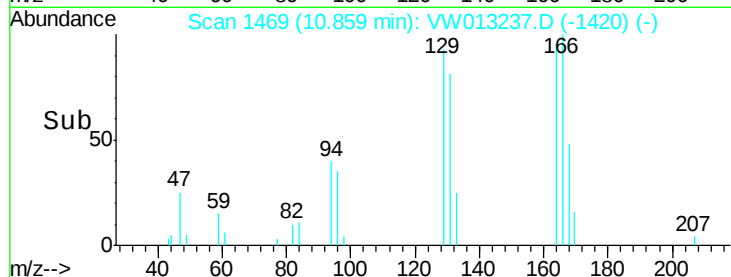
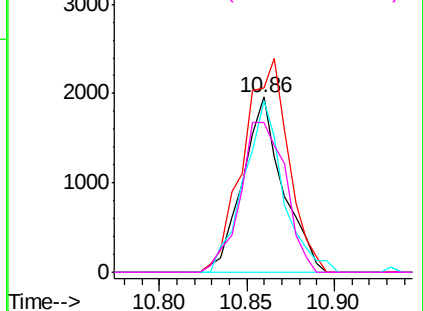


Abundance Ion 163.80 (163.50 to 164.50): V

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: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW013237.D

Acq: 23 Sep 2019 17:48

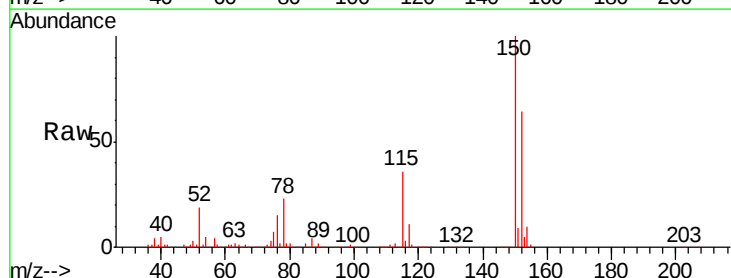
Tgt Ion:152 Resp: 90846

Ion Ratio Lower Upper

152 100

115 56.1 27.3 81.9

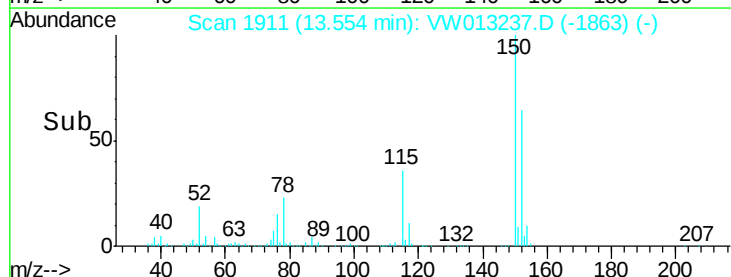
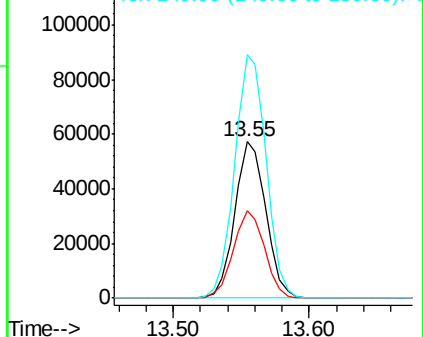
150 158.0 0.0 349.0

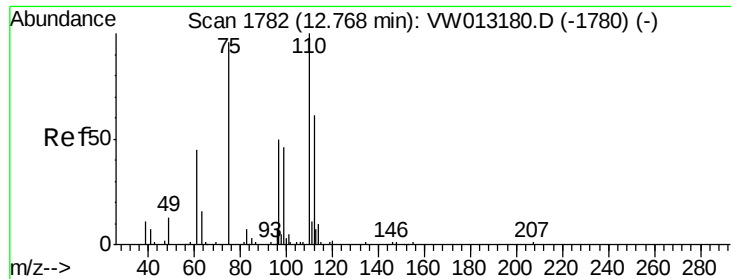


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

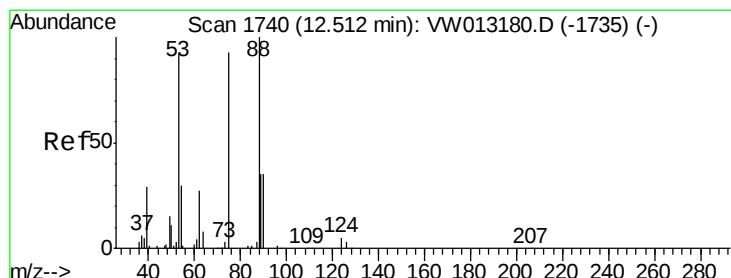
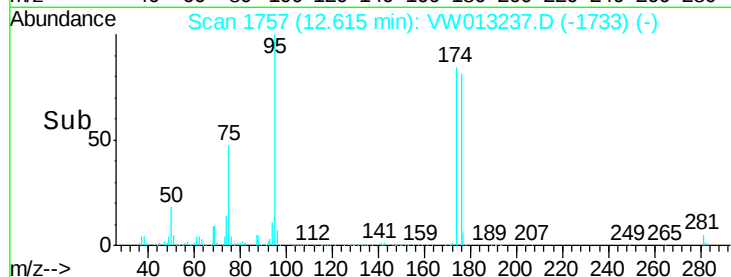
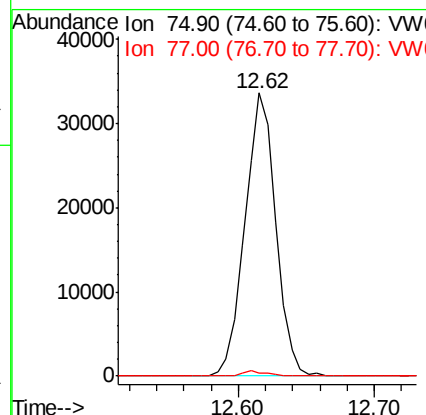
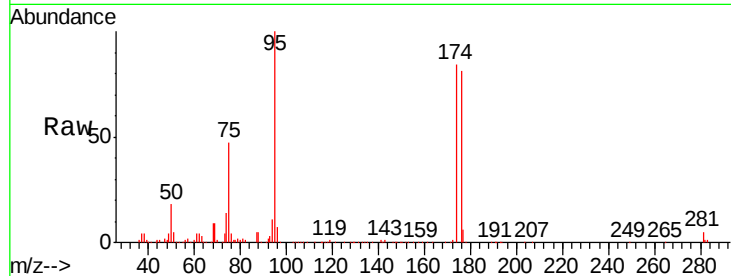




#76
 1,2,3-Trichloropropane
 Concen: 66.270 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW013237.D
 Acq: 23 Sep 2019 17:48

Instrument :
 MSVOA_W
 ClientSampleId :
 CSA-2-5-4RE

Tgt Ion: 75 Resp: 53168
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 148.705 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013237.D
 Acq: 23 Sep 2019 17:48

Tgt Ion: 75 Resp: 53168
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.6 114.8#
 89 0.1 33.5 50.3#

