

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006681.D
 Acq On : 20 Dec 2018 17:34
 Operator : JC/MD
 Sample : J6484-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 976-MW-20(22)

Quant Time: Dec 21 03:33:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	617808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	979870	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	901852	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	425228	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	341748	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
35) Dibromofluoromethane	5.50	113	289074	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
50) Toluene-d8	8.71	98	1164449	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.13	95	413734	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	

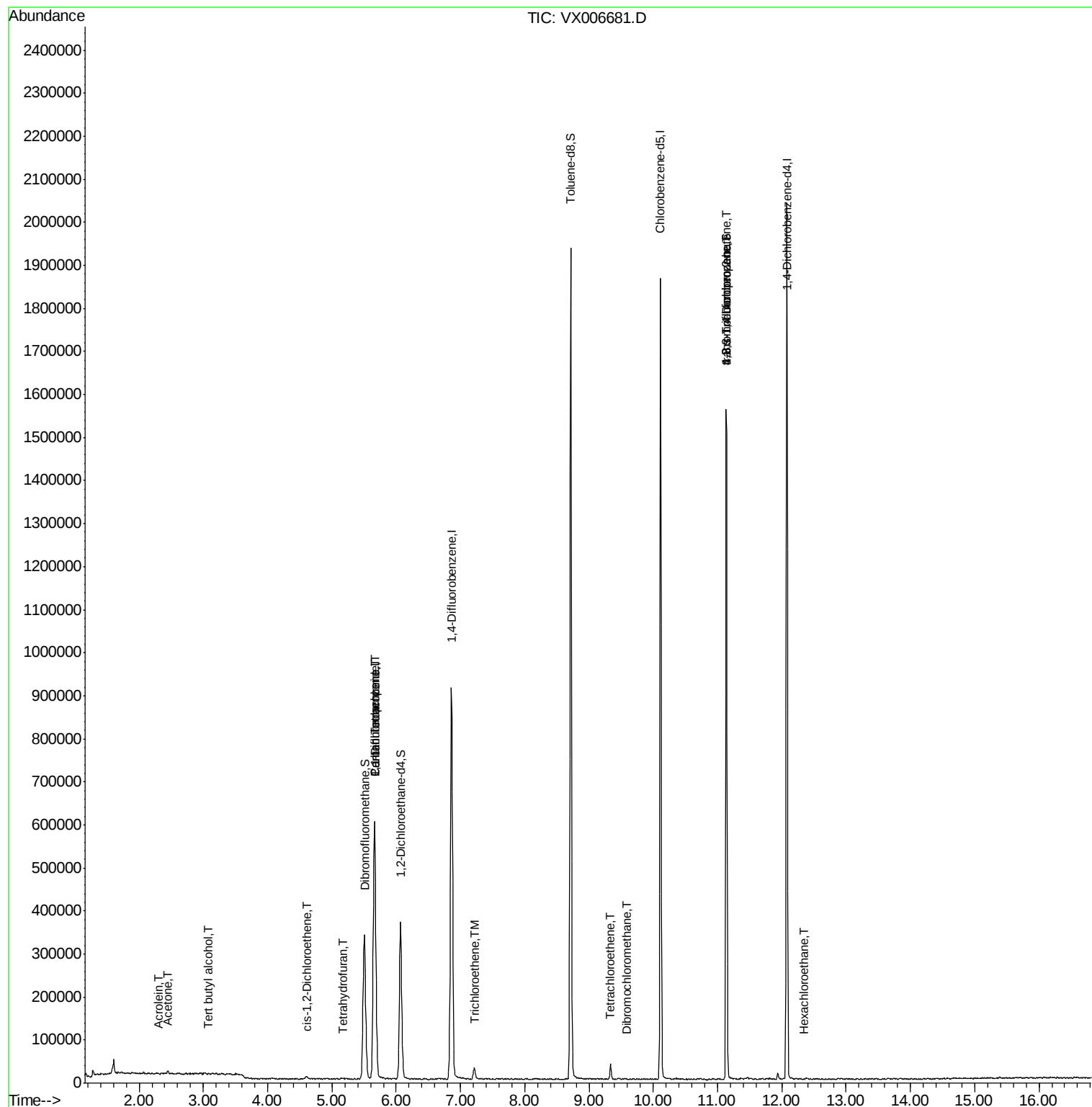
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	535	Below Cal	#	76
11) Tert butyl alcohol	3.08	59	342	0.230	ug/l #	72
13) Acrolein	2.30	56	331	0.330	ug/l #	13
16) Acetone	2.45	43	5787	1.892	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	3758	0.557	ug/l	94
28) Bromochloromethane	5.01	49	395	Below Cal	#	14
29) Tetrahydrofuran	5.17	42	2482	0.876	ug/l	96
36) 1,1-Dichloropropene	5.66	75	40501	4.991	ug/l #	49
38) Carbon Tetrachloride	5.67	117	57795	7.328	ug/l #	15
44) Trichloroethene	7.21	130	11593	1.553	ug/l	89
49) 1,4-Dioxane	7.74	88	80	Below Cal	#	1
60) Dibromochloromethane	9.59	129	255	2.360	ug/l	79
64) Tetrachloroethene	9.34	164	6524	0.914	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	198206	25.081	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	198206	74.101	ug/l #	10
90) Hexachloroethane	12.33	117	59	3.307	ug/l	55

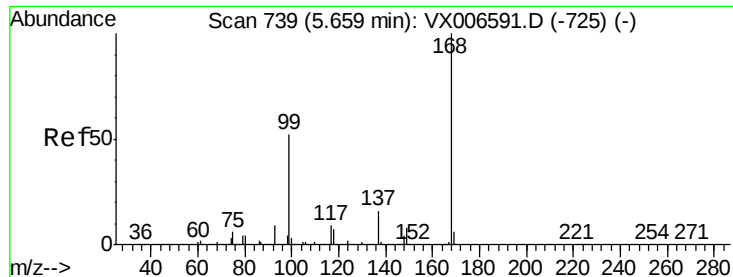
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

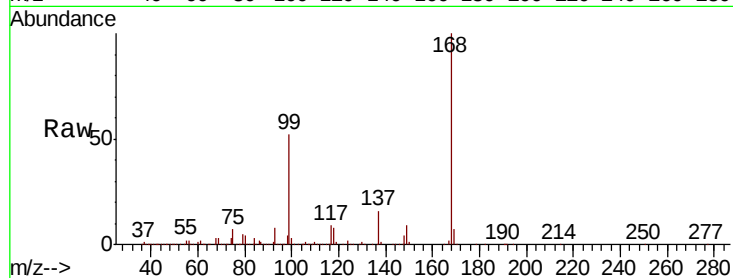
976-MW-20(22)

Tot Ion:168 Resp: 617808

Ion Ratio Lower Upper

168 100

99 51.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

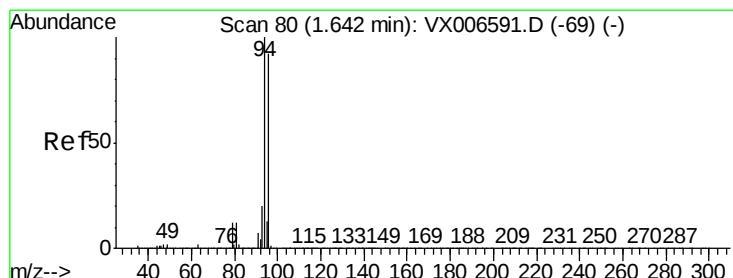
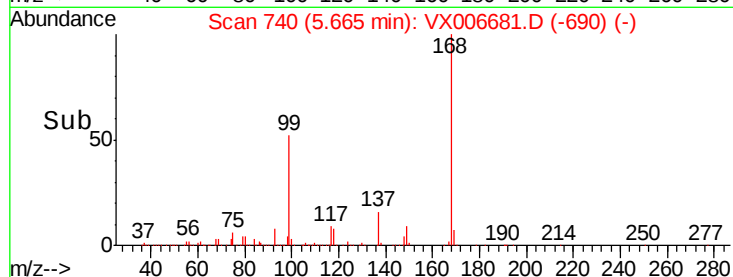
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006681.D

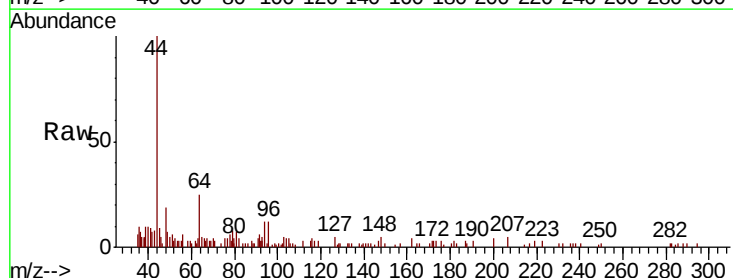
Acq: 20 Dec 2018 17:34

Tgt Ion: 94 Resp: 535

Ion Ratio Lower Upper

94 100

96 115.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

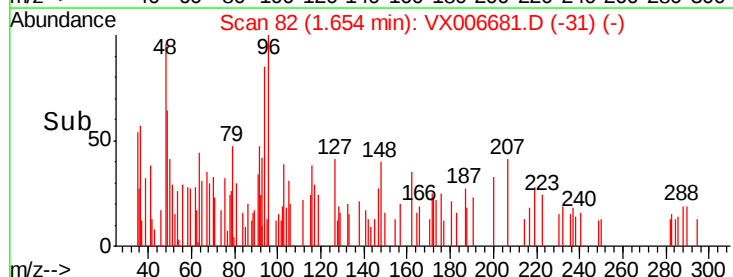
200

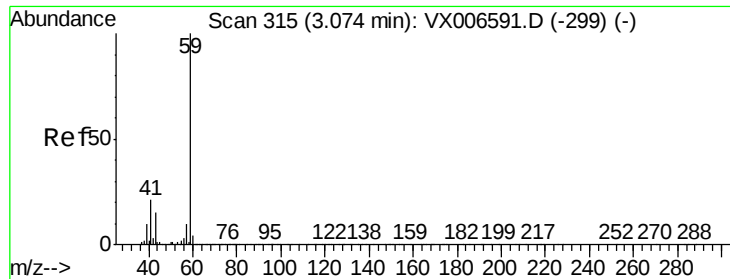
100

0

Time-->

1.65 1.70



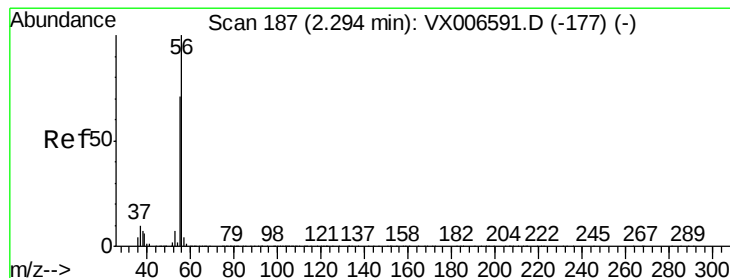
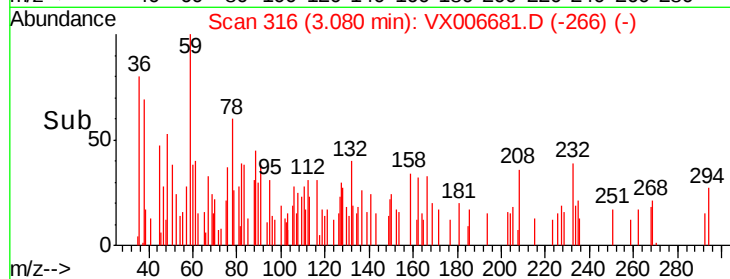
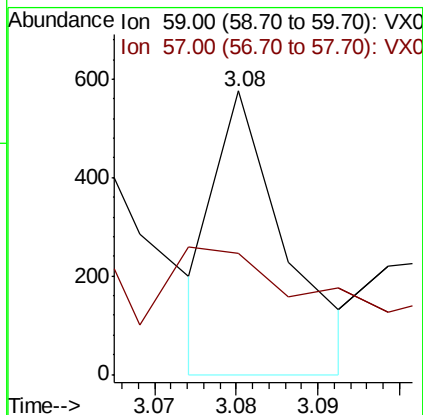
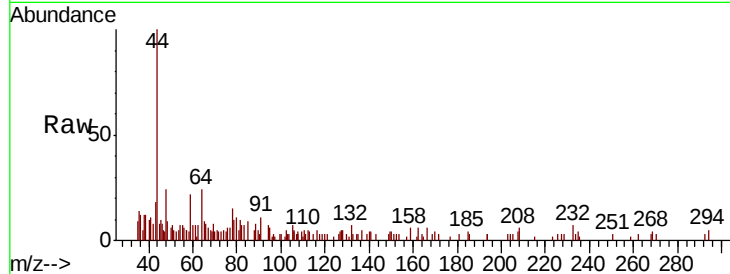


#11

Tert butyl alcohol
Concen: 0.230 ug/l
RT: 3.08 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX006681.D
Acq: 20 Dec 2018 17:34

Instrument :
MSVOA_X
ClientSampleId :
976-MW-20(22)

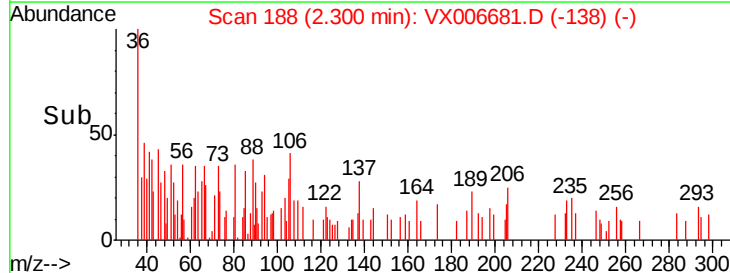
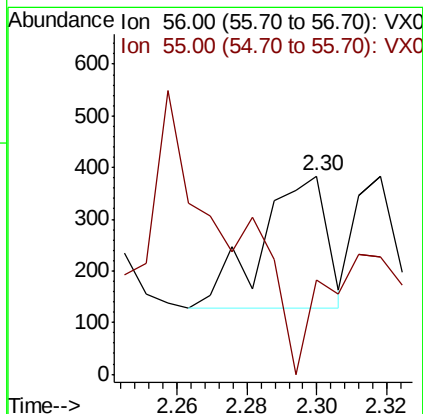
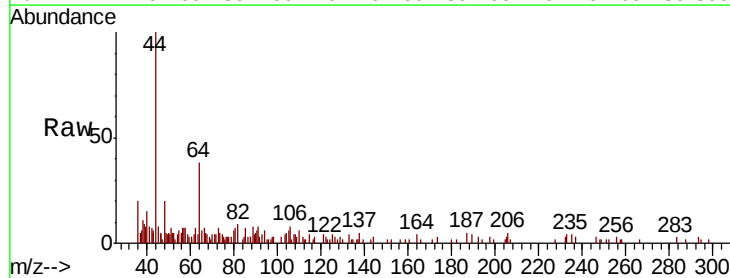
Tot Ion: 59 Resp: 342
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

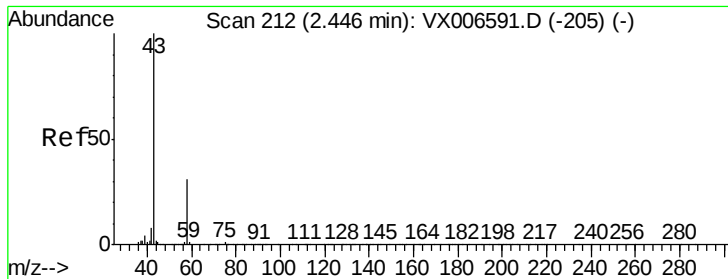


#13

Acrolein
Concen: 0.330 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX006681.D
Acq: 20 Dec 2018 17:34

Tgt Ion: 56 Resp: 331
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#





#16

Acetone

Concen: 1.892 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

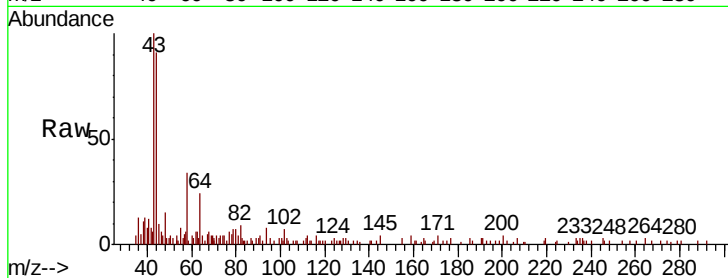
976-MW-20(22)

Tot Ion: 43 Resp: 5787

Ion Ratio Lower Upper

43 100

58 32.7 25.0 37.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

4000

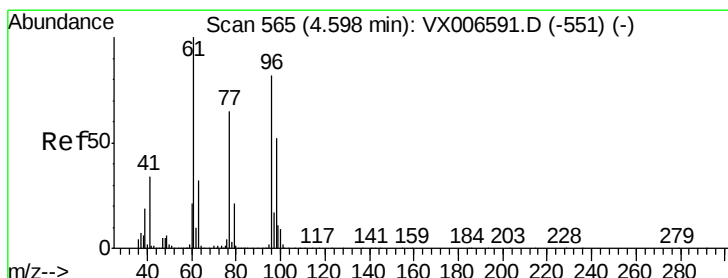
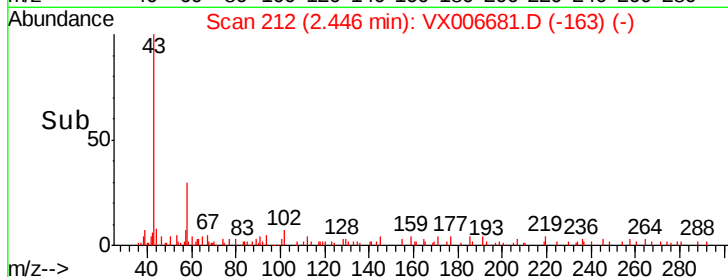
3000

2000

1000

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.557 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

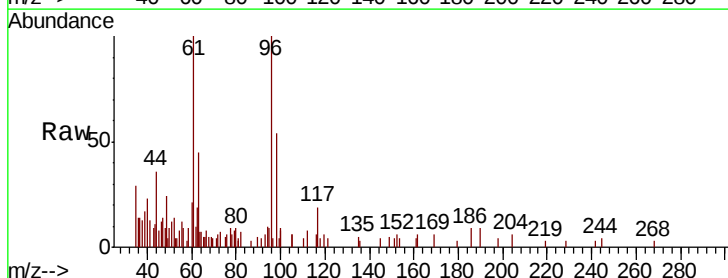
Tgt Ion: 96 Resp: 3758

Ion Ratio Lower Upper

96 100

61 127.7 0.0 258.6

98 78.2 0.0 132.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

2500

2000

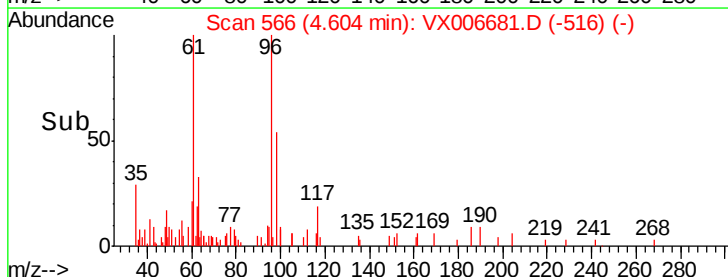
1500

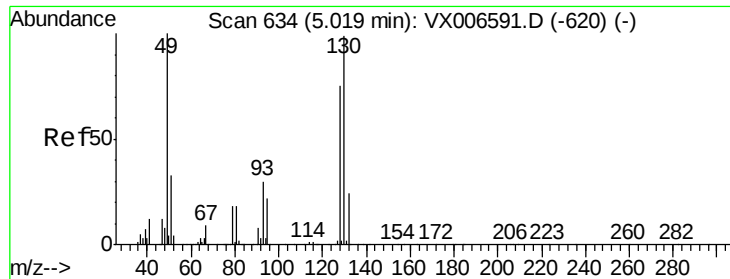
1000

500

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

976-MW-20(22)

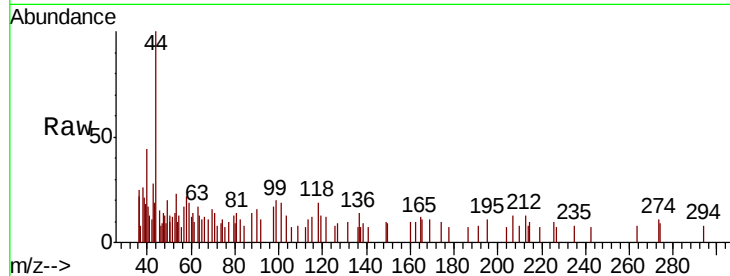
Tot Ion: 49 Resp: 395

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

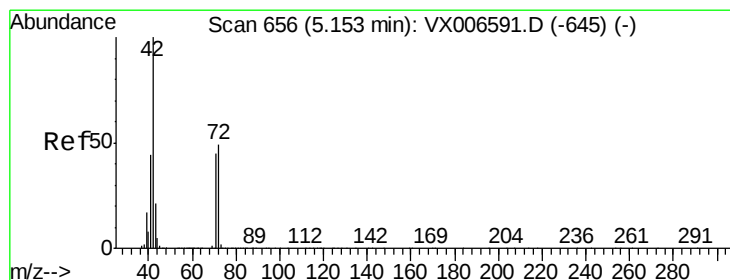
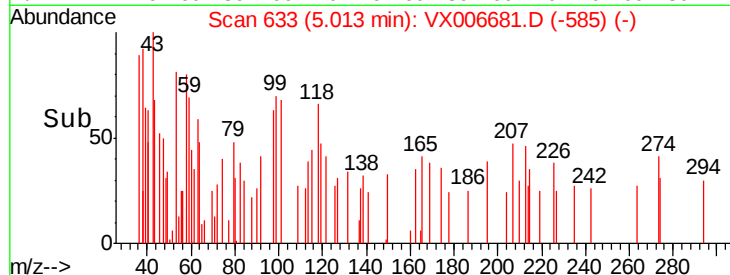
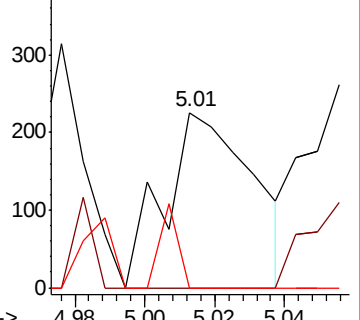
130 10.1 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.876 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

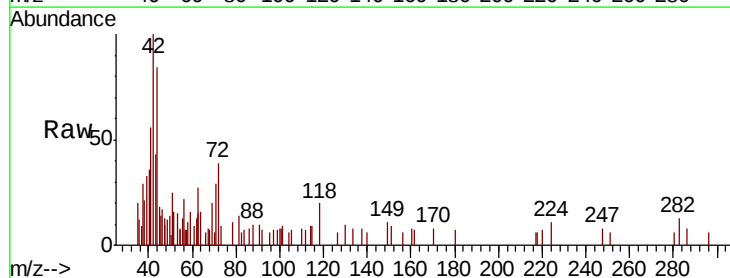
Tgt Ion: 42 Resp: 2482

Ion Ratio Lower Upper

42 100

72 44.9 38.9 58.3

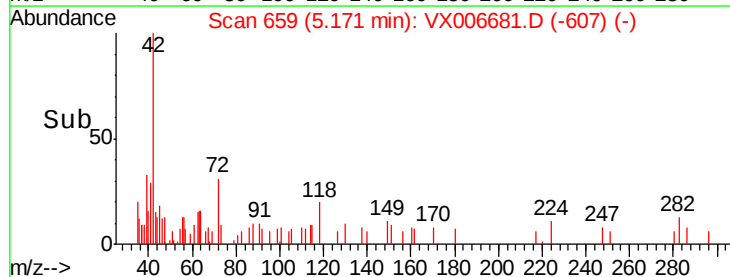
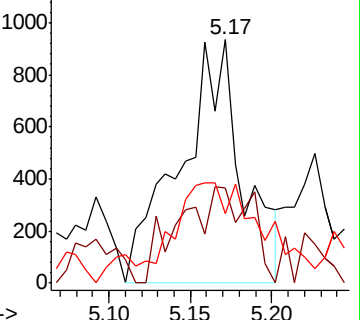
71 47.5 36.2 54.4

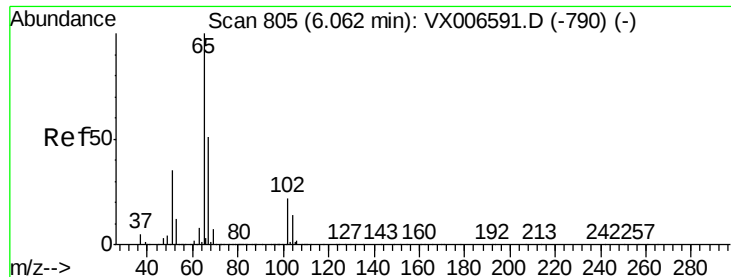


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.325 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

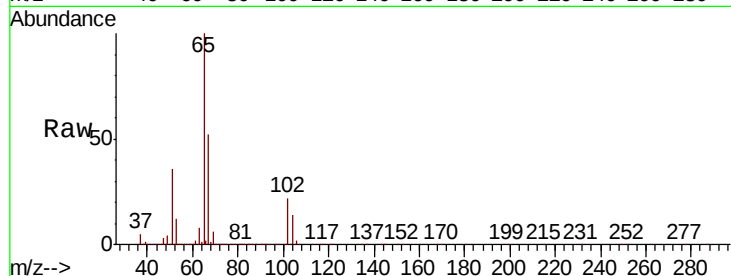
976-MW-20(22)

Tot Ion: 65 Resp: 341748

Ion Ratio Lower Upper

65 100

67 52.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

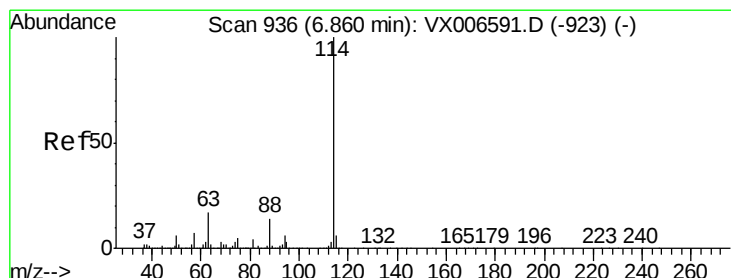
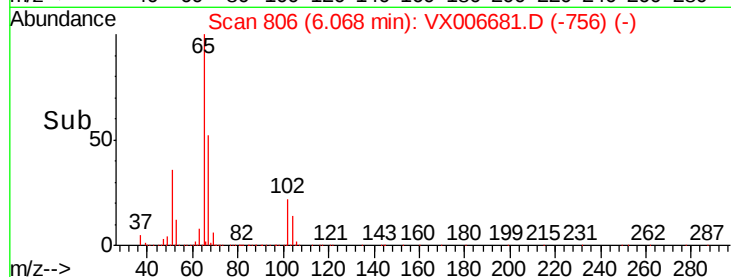
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

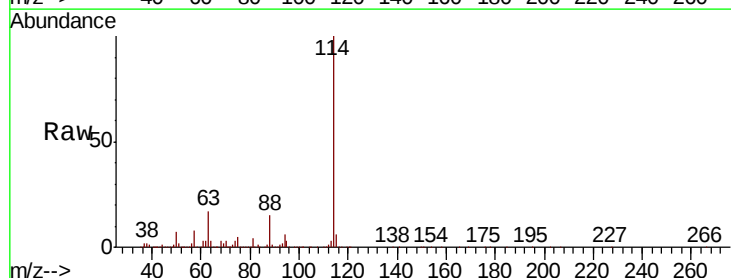
Tgt Ion: 114 Resp: 979870

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.8

88 15.4 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

500000

400000

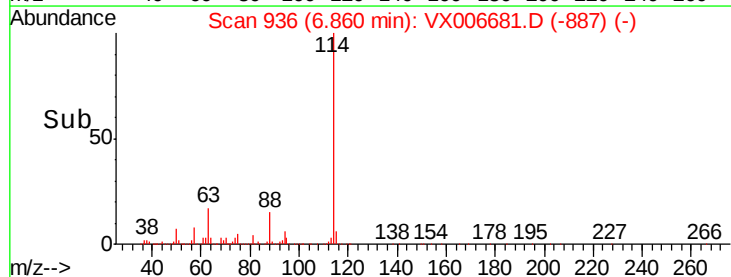
300000

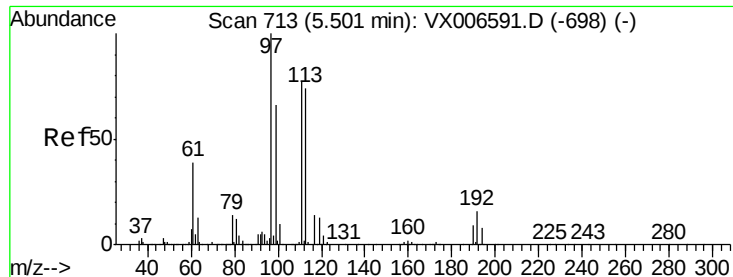
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.651 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

976-MW-20(22)

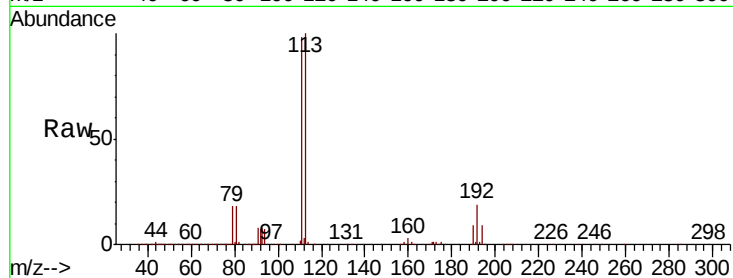
Tot Ion:113 Resp: 289074

Ion Ratio Lower Upper

113 100

111 101.2 81.6 122.4

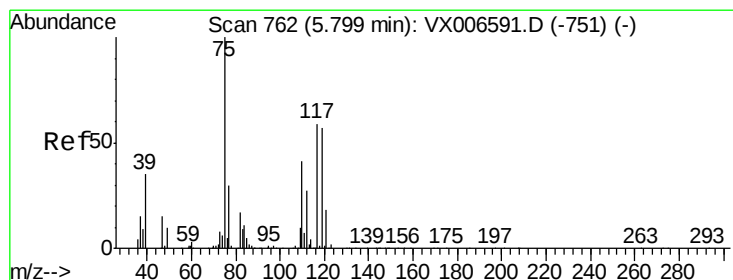
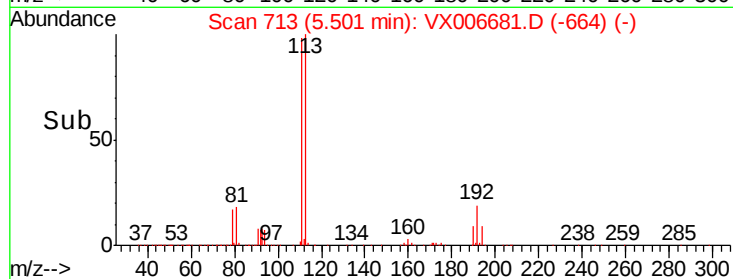
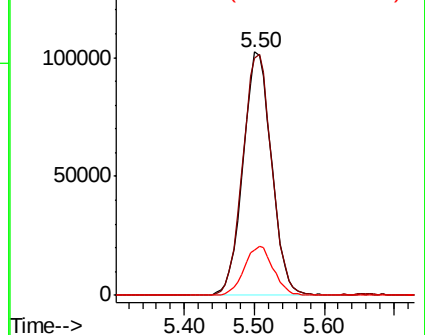
192 20.4 16.7 25.1



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: 4.991 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

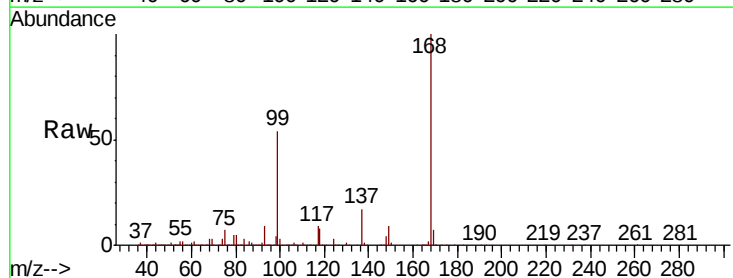
Tgt Ion: 75 Resp: 40501

Ion Ratio Lower Upper

75 100

110 10.7 20.2 60.5#

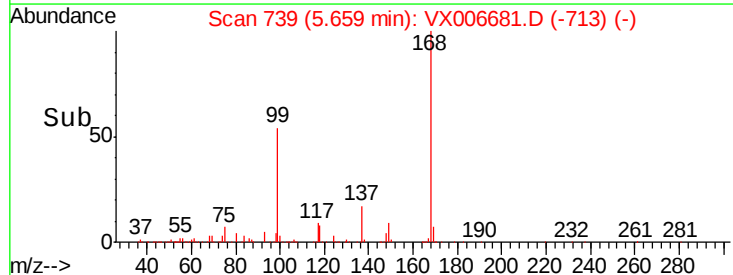
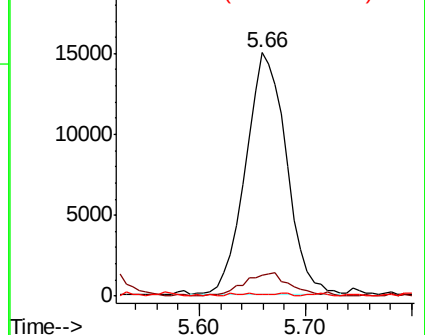
77 0.0 24.8 37.2#

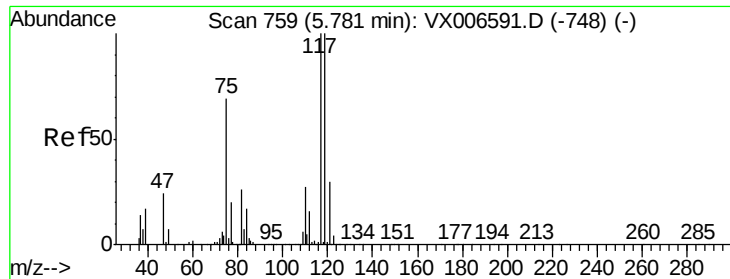


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

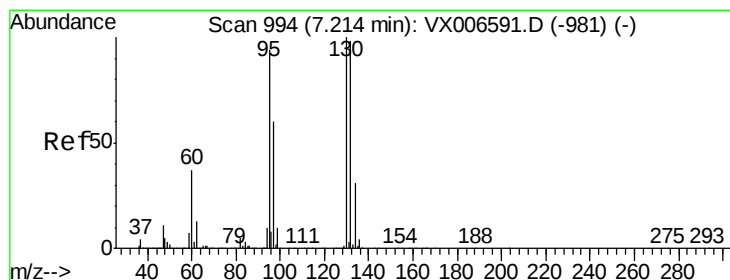
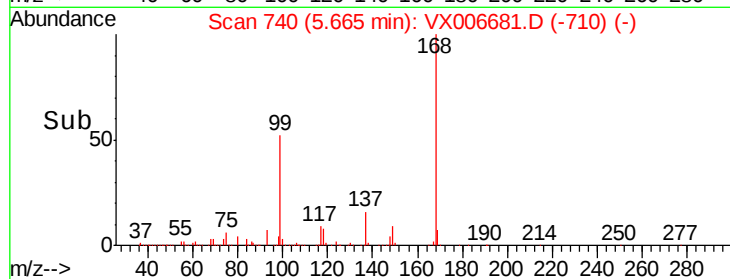
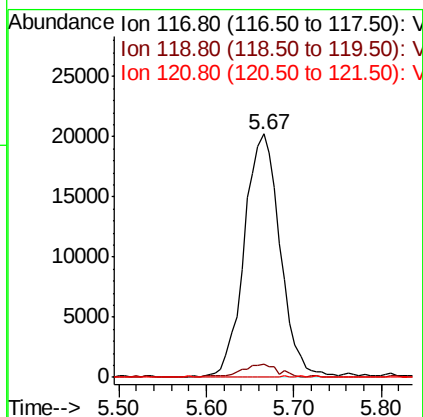
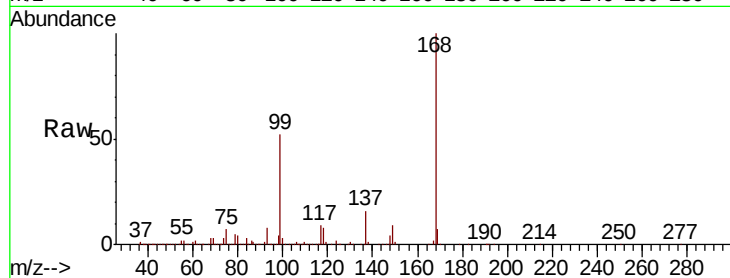




#38
Carbon Tetrachloride
Concen: 7.328 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX006681.D
Acq: 20 Dec 2018 17:34

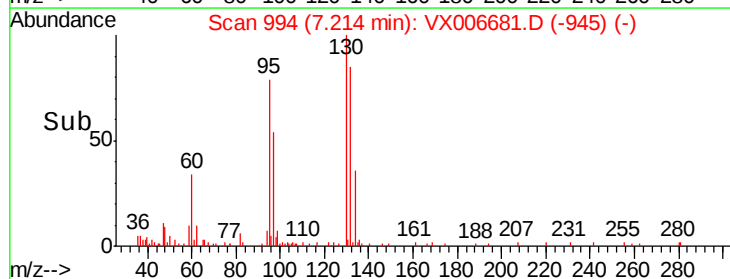
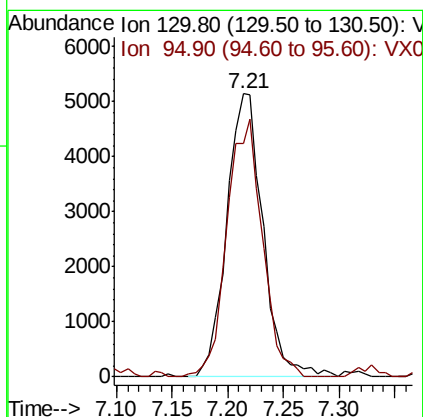
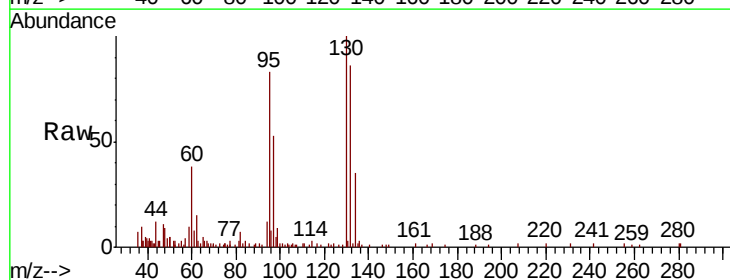
Instrument :
MSVOA_X
ClientSampleId :
976-MW-20(22)

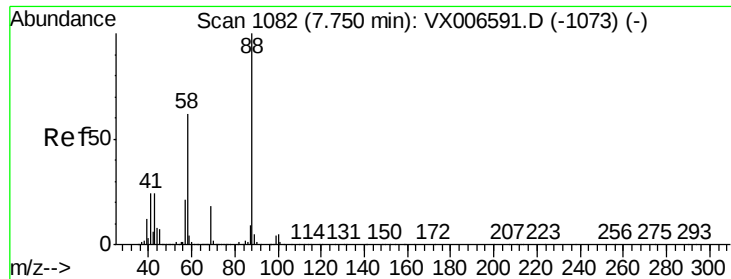
Tot Ion:117 Resp: 57795
Ion Ratio Lower Upper
117 100
119 5.6 79.4 119.2#
121 0.1 24.0 36.0#



#44
Trichloroethene
Concen: 1.553 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX006681.D
Acq: 20 Dec 2018 17:34

Tgt Ion:130 Resp: 11593
Ion Ratio Lower Upper
130 100
95 82.6 0.0 187.0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

976-MW-20(22)

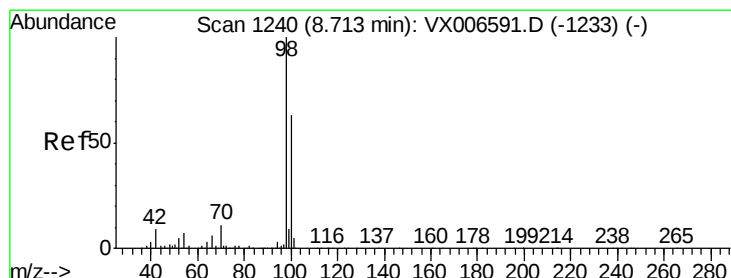
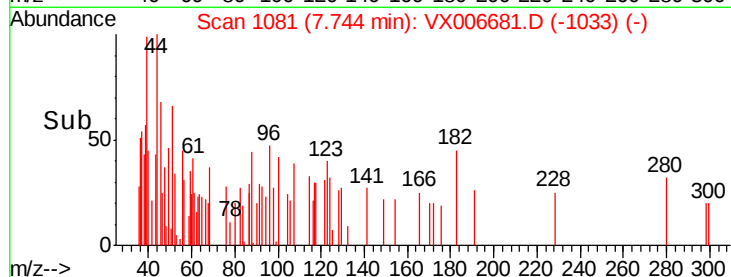
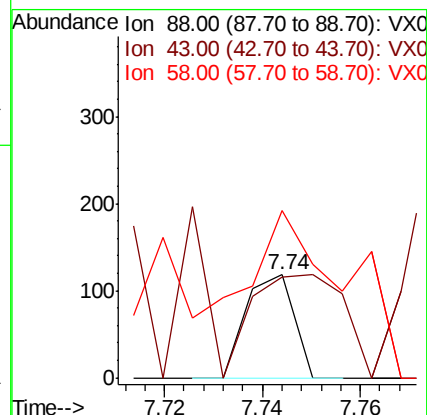
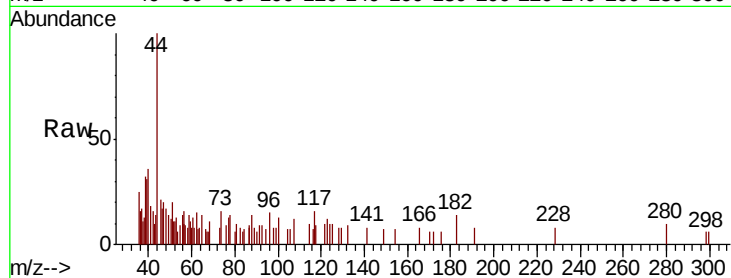
Tot Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 193.8 22.2 33.4#

58 308.8 51.0 76.4#



#50

Toluene-d8

Concen: 49.846 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006681.D

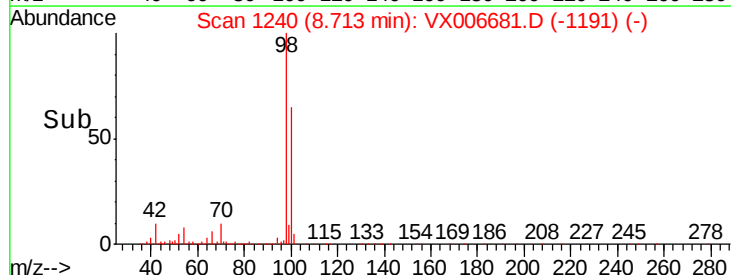
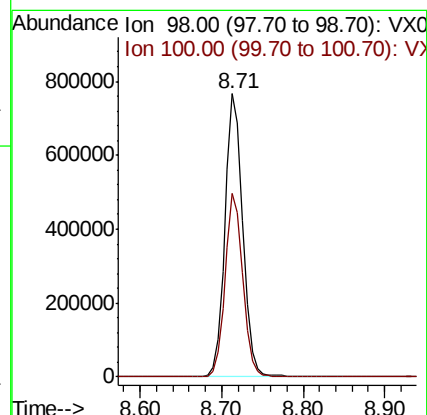
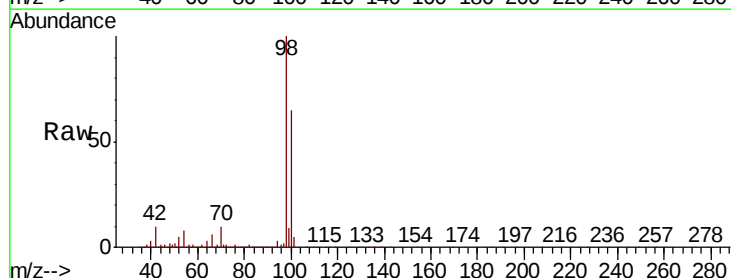
Acq: 20 Dec 2018 17:34

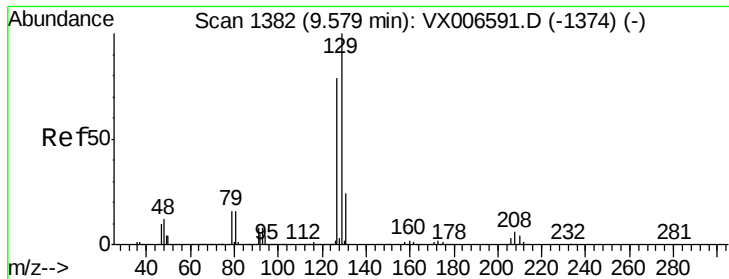
Tgt Ion: 98 Resp: 1164449

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0





#60

Dibromochloromethane

Concen: 2.360 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

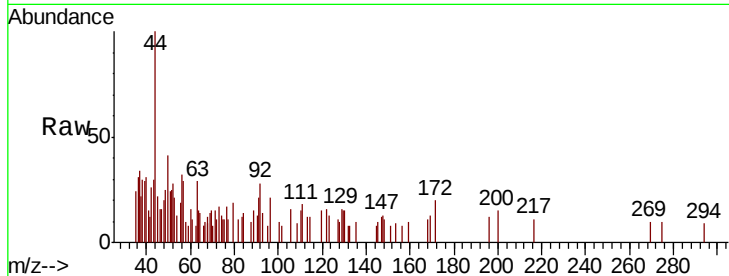
976-MW-20(22)

Tot Ion:129 Resp: 255

Ion Ratio Lower Upper

129 100

127 60.0 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.59

250

200

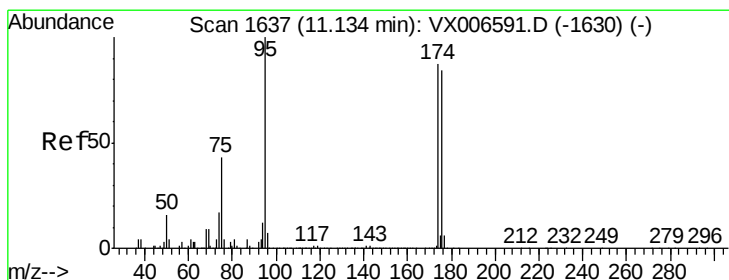
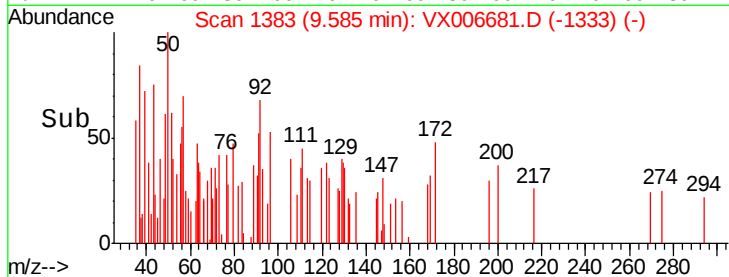
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.357 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

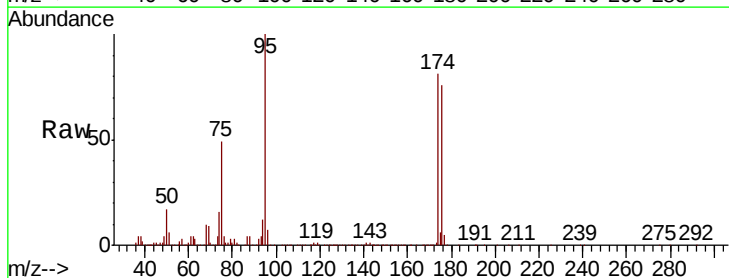
Tgt Ion: 95 Resp: 413734

Ion Ratio Lower Upper

95 100

174 86.9 0.0 182.2

176 83.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

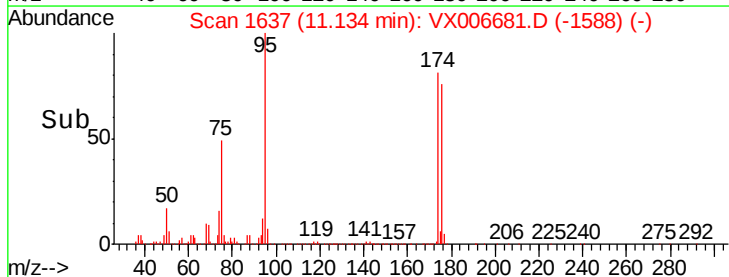
300000

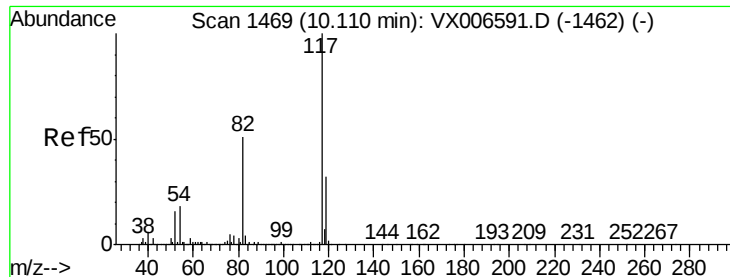
200000

100000

0

Time-->

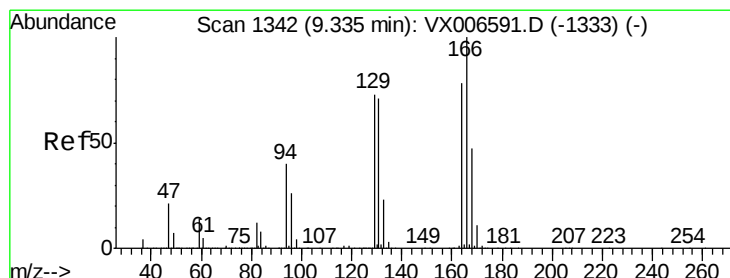
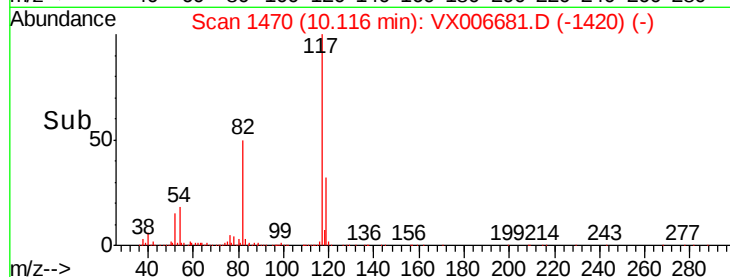
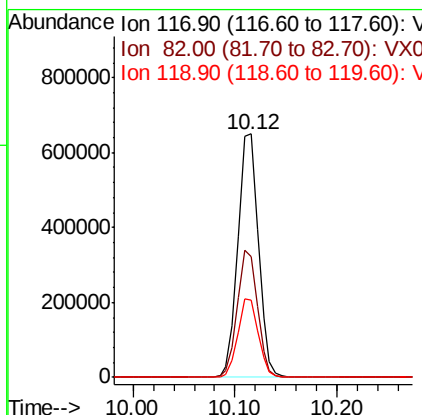
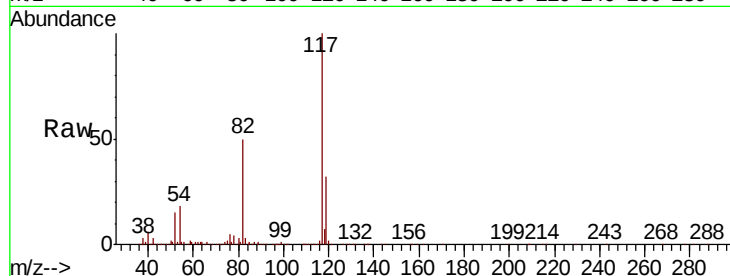




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006681.D
Acq: 20 Dec 2018 17:34

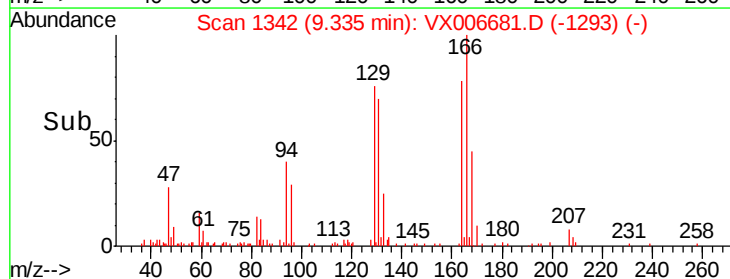
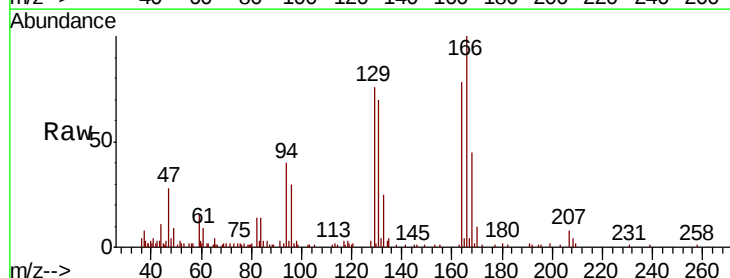
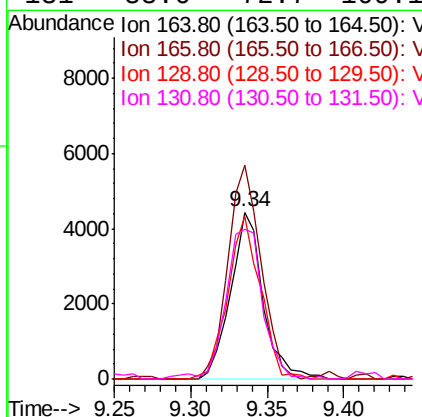
Instrument :
MSVOA_X
ClientSampleId :
976-MW-20(22)

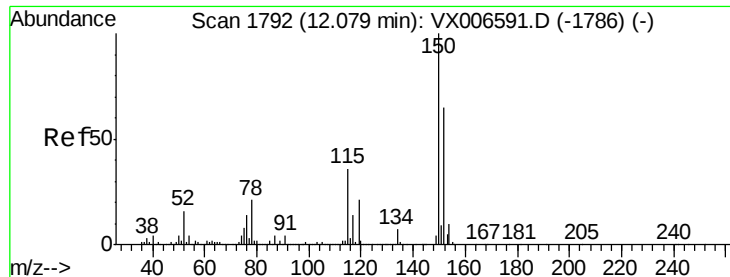
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.6	41.0	61.6
119	31.8	25.4	38.0



#64
Tetrachloroethene
Concen: 0.914 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006681.D
Acq: 20 Dec 2018 17:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	102.5	153.7
129	97.7	75.1	112.7
131	88.6	72.7	109.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

976-MW-20(22)

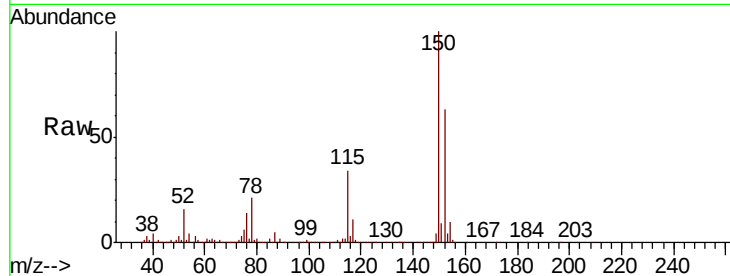
Tot Ion:152 Resp: 425228

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.2

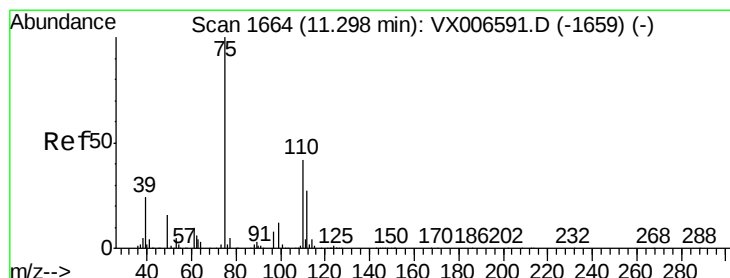
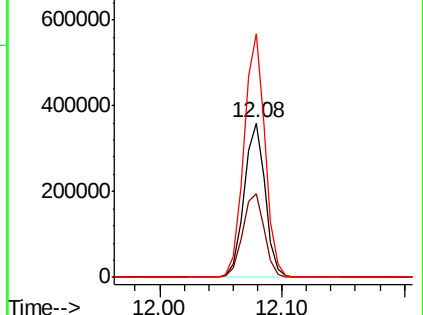
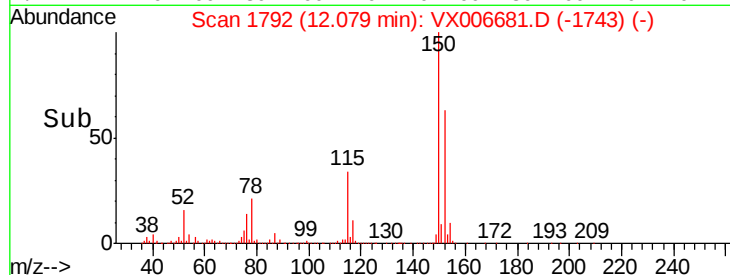
150 157.2 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 25.081 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006681.D

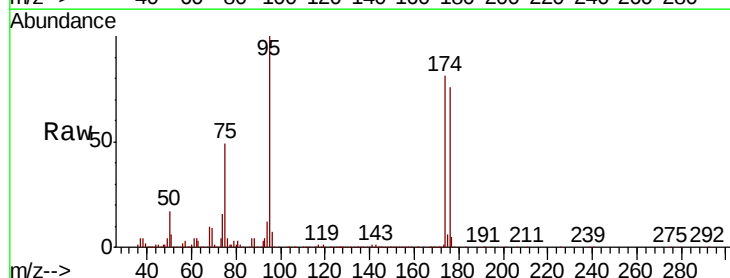
Acq: 20 Dec 2018 17:34

Tgt Ion: 75 Resp: 198206

Ion Ratio Lower Upper

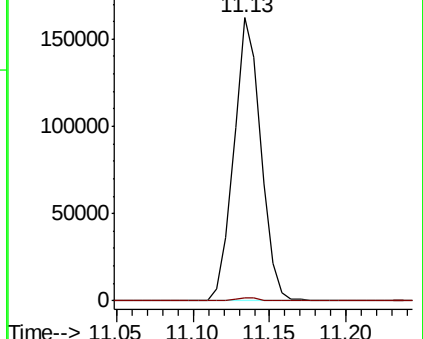
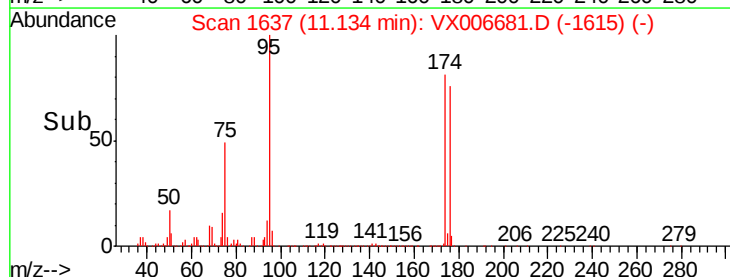
75 100

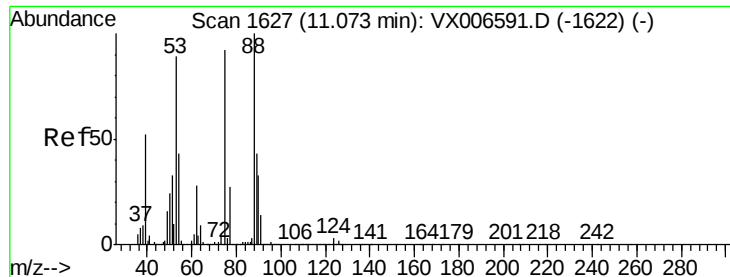
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.101 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

976-MW-20(22)

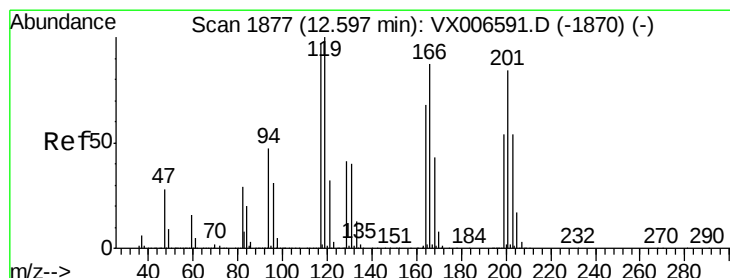
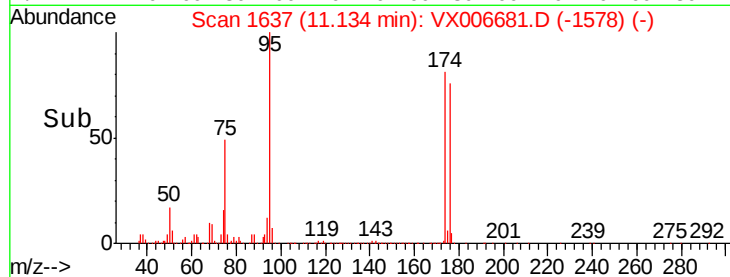
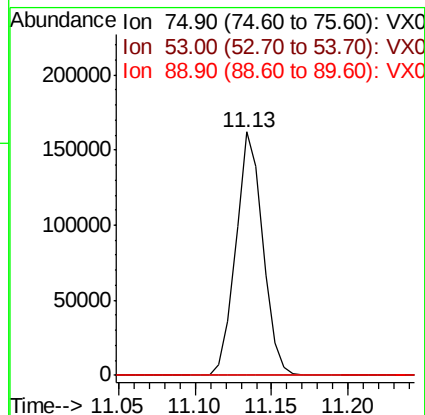
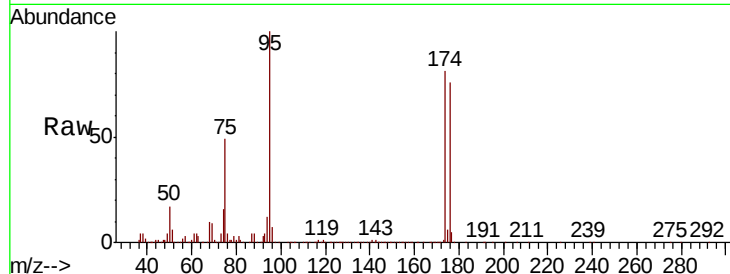
Tot Ion: 75 Resp: 198206

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#



#90

Hexachloroethane

Concen: 3.307 ug/l

RT: 12.33 min Scan# 1834

Delta R.T. -0.26 min

Lab File: VX006681.D

Acq: 20 Dec 2018 17:34

Tgt Ion: 117 Resp: 59

Ion Ratio Lower Upper

117 100

201 44.1 42.9 128.7

