

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX082019\
 Data File : VX011680.D
 Acq On : 20 Aug 2019 13:28
 Operator : JC/SP
 Sample : K4409-20RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-081919RE

Quant Time: Aug 31 00:50:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	404202	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.85	114	572886	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	492091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	259366	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	177821	47.44	ug/l	0.02
Spiked Amount						
			Recovery	=	94.88%	
35) Dibromofluoromethane	5.52	113	105640	28.19	ug/l	0.02
Spiked Amount						
			Recovery	=	56.38%	
50) Toluene-d8	8.71	98	630953	54.04	ug/l	0.00
Spiked Amount						
			Recovery	=	108.08%	
62) 4-Bromofluorobenzene	11.14	95	232256	47.13	ug/l	0.00
Spiked Amount						
			Recovery	=	94.26%	

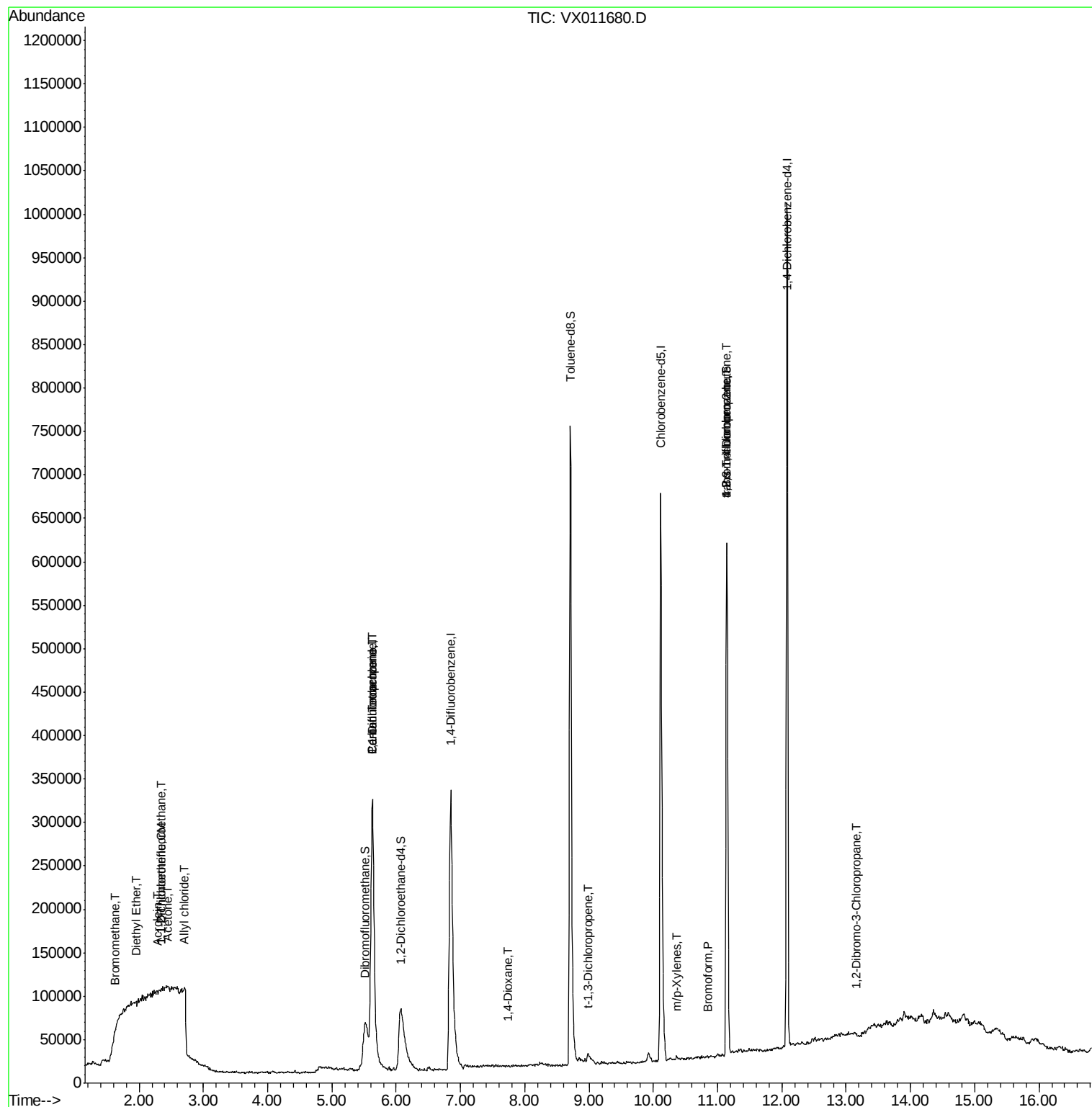
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	2187	1.309	ug/l #	55
8) Diethyl Ether	1.96	74	671	0.379	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	2.35	101	926	0.260	ug/l #	26
12) 1,1-Dichloroethene	2.34	96	866	0.251	ug/l #	12
13) Acrolein	2.28	56	156	12.708	ug/l #	1
14) Allyl chloride	2.70	41	2197	0.383	ug/l #	45
16) Acetone	2.44	43	817	0.433	ug/l #	43
36) 1,1-Dichloropropene	5.63	75	24571	5.016	ug/l #	50
38) Carbon Tetrachloride	5.63	117	36805	6.820	ug/l #	16
49) 1,4-Dioxane	7.73	88	332	2.867	ug/l #	78
53) t-1,3-Dichloropropene	8.98	75	13169	2.505	ug/l #	50
68) m/p-Xylenes	10.35	106	1725	0.257	ug/l	90
71) Bromoform	10.85	173	110	3.319	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	112811	22.938	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	112811	61.047	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.16	75	311	0.235	ug/l	47

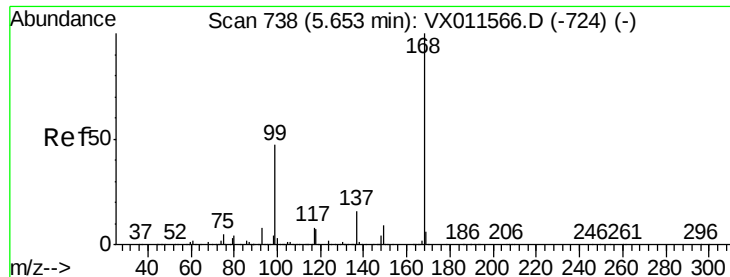
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 734

Delta R.T. -0.02 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

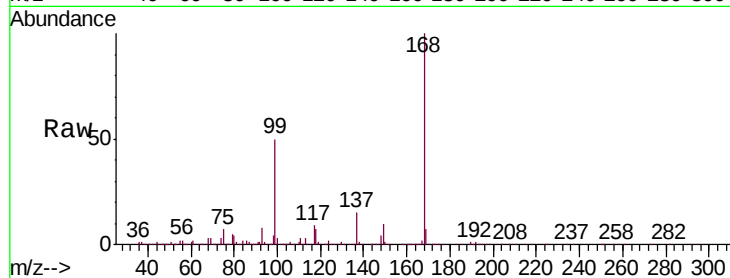
TB01-081919RE

Tgt Ion:168 Resp: 404202

Ion Ratio Lower Upper

168 100

99 50.2 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

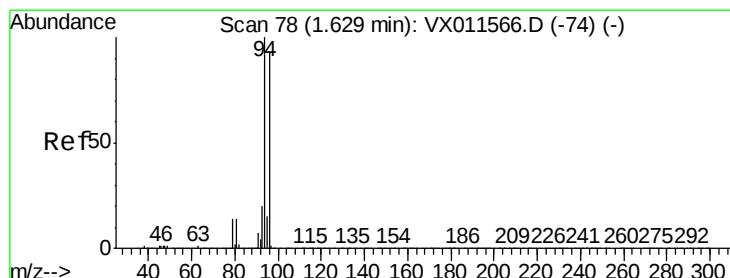
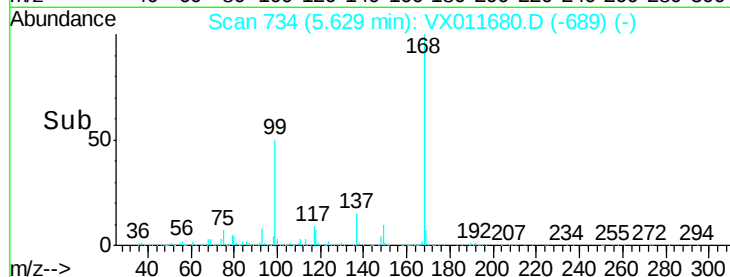
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 1.309 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX011680.D

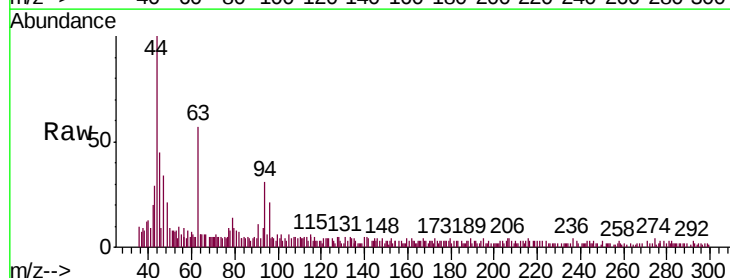
Acq: 20 Aug 2019 13:28

Tgt Ion: 94 Resp: 2187

Ion Ratio Lower Upper

94 100

96 50.3 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

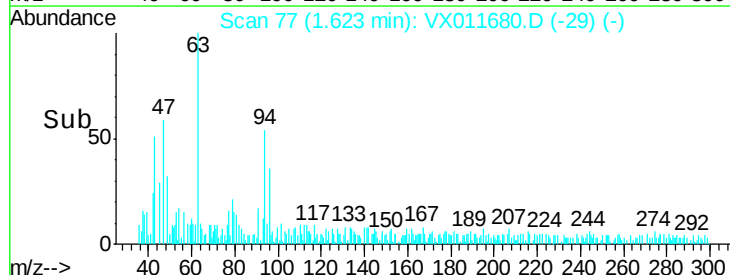
1000

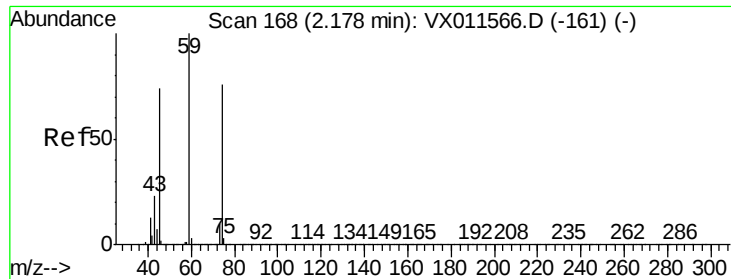
500

0

Time-->

1.55 1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.379 ug/l

RT: 1.96 min Scan# 133

Delta R.T. -0.21 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

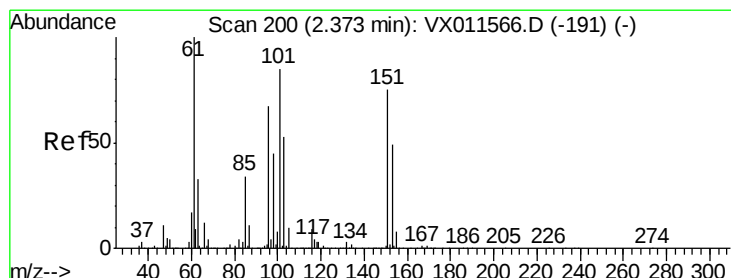
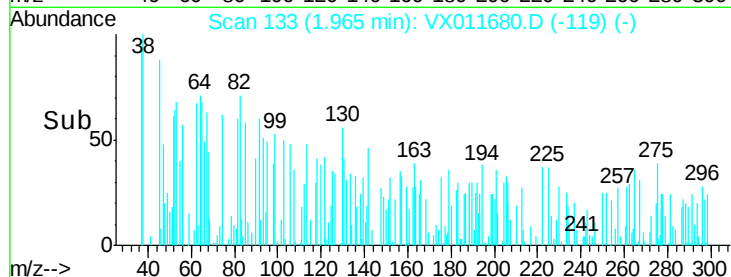
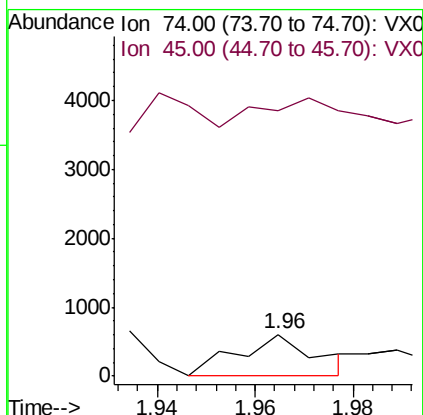
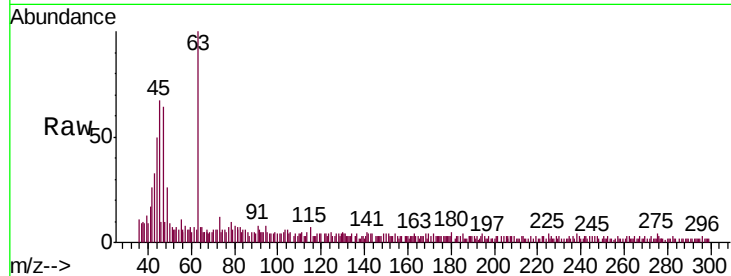
TB01-081919RE

Tgt Ion: 74 Resp: 671

Ion Ratio Lower Upper

74 100

45 121.2 48.2 144.6



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.260 ug/l

RT: 2.35 min Scan# 196

Delta R.T. -0.02 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

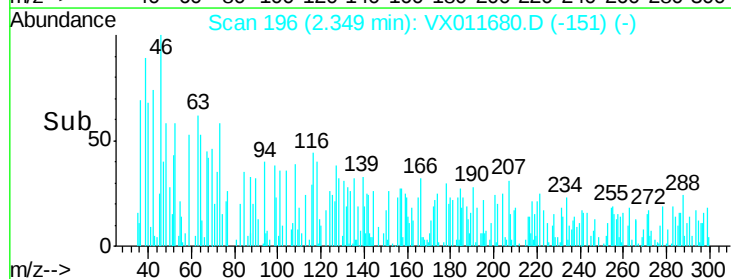
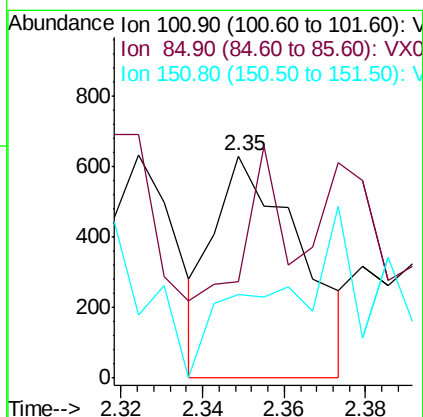
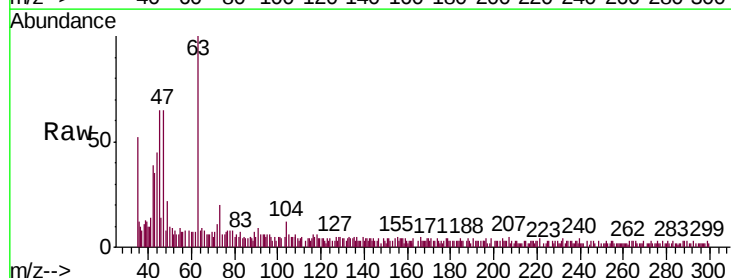
Tgt Ion: 101 Resp: 926

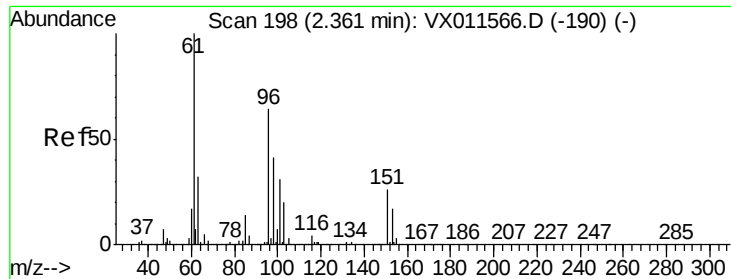
Ion Ratio Lower Upper

101 100

85 25.6 33.0 49.4#

151 0.0 73.3 109.9#





#12

1,1-Dichloroethene

Concen: 0.251 ug/l

RT: 2.34 min Scan# 194

Delta R.T. -0.02 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

TB01-081919RE

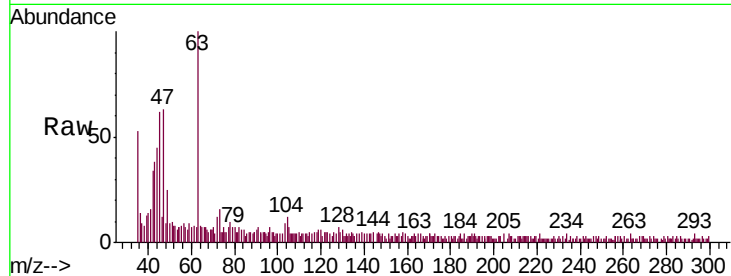
Tgt Ion: 96 Resp: 866

Ion Ratio Lower Upper

96 100

61 14.1 125.0 187.4#

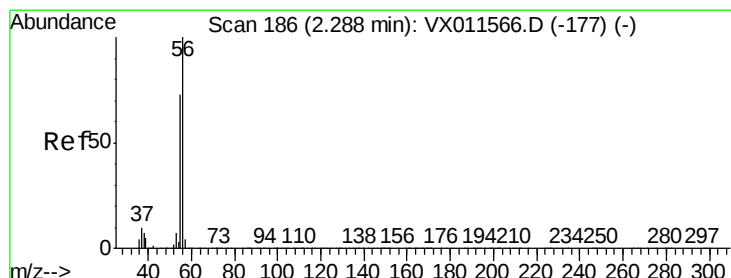
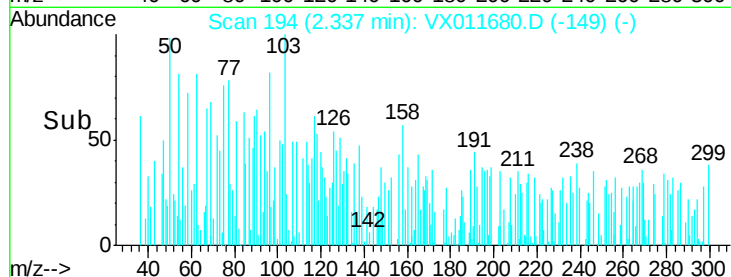
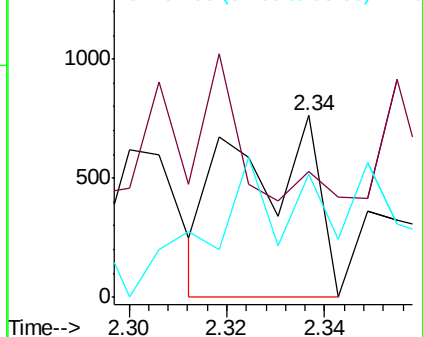
98 36.3 51.5 77.3#



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



#13

Acrolein

Concen: 12.708 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX011680.D

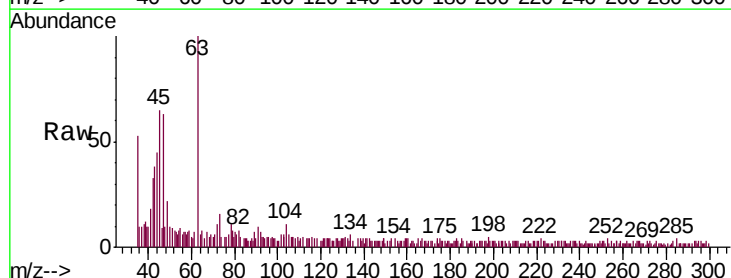
Acq: 20 Aug 2019 13:28

Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

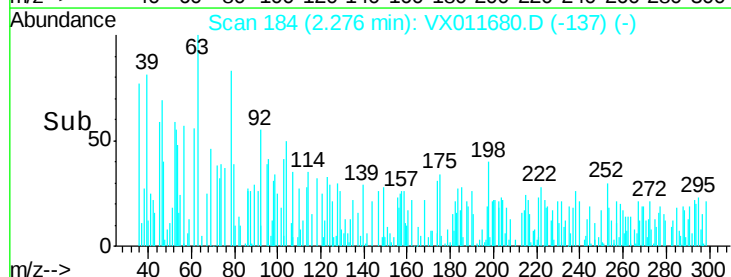
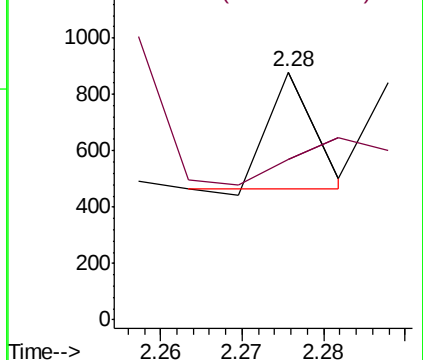
56 100

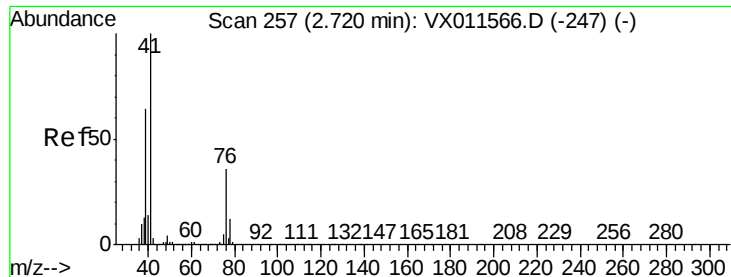
55 185.3 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Allyl chloride

Concen: 0.383 ug/l

RT: 2.70 min Scan# 253

Delta R.T. -0.02 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

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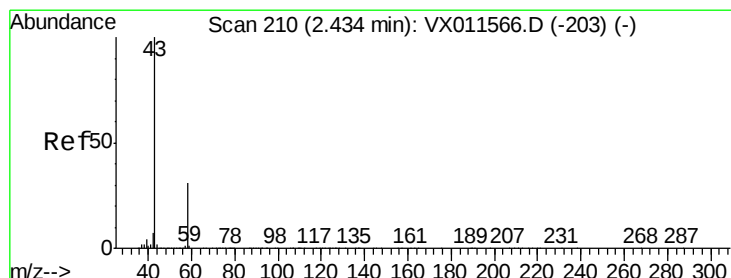
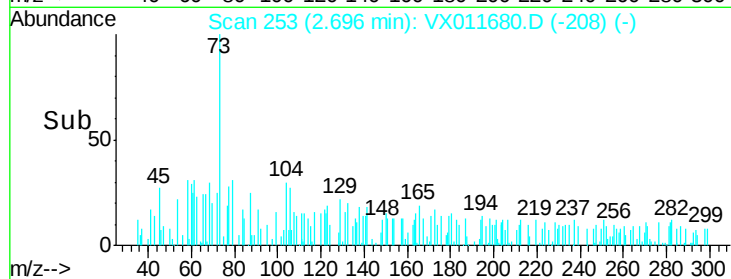
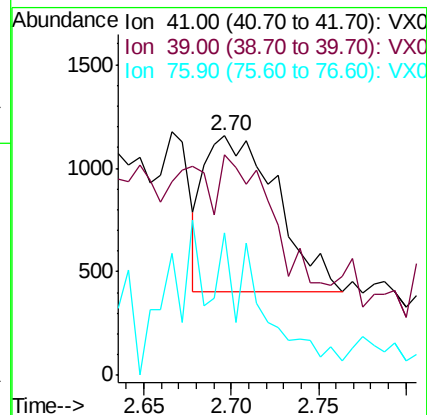
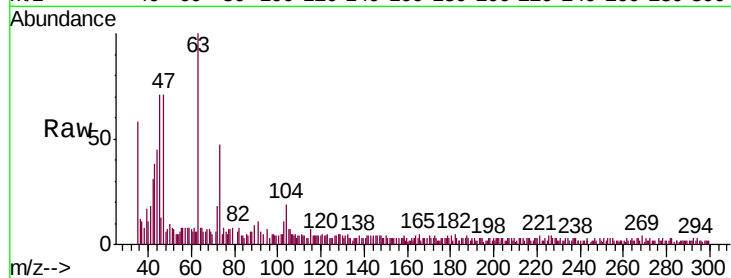
Tgt Ion: 41 Resp: 2197

Ion Ratio Lower Upper

41 100

39 0.0 47.5 71.3#

76 39.7 26.3 39.5#



#16

Acetone

Concen: 0.433 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011680.D

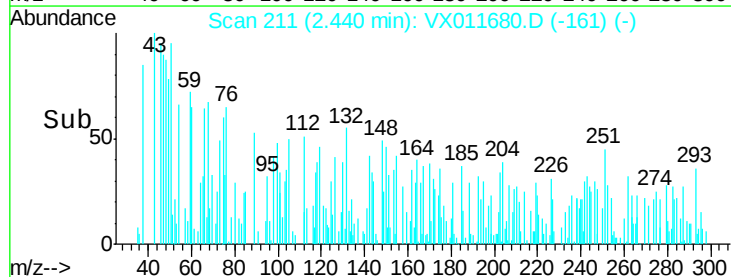
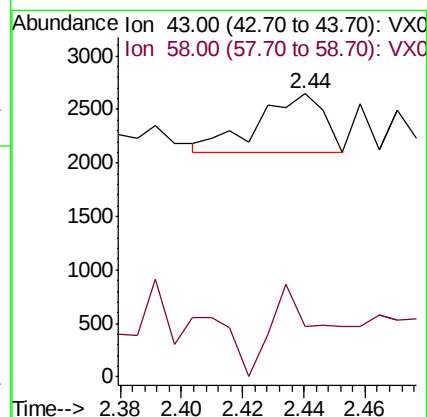
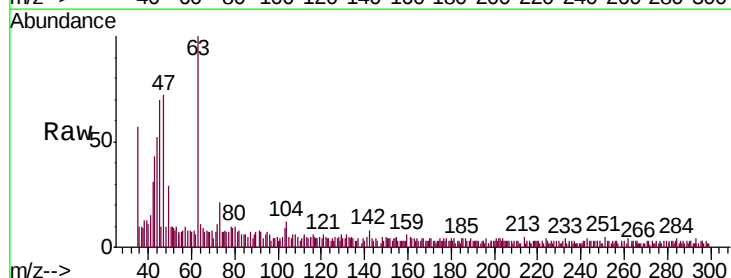
Acq: 20 Aug 2019 13:28

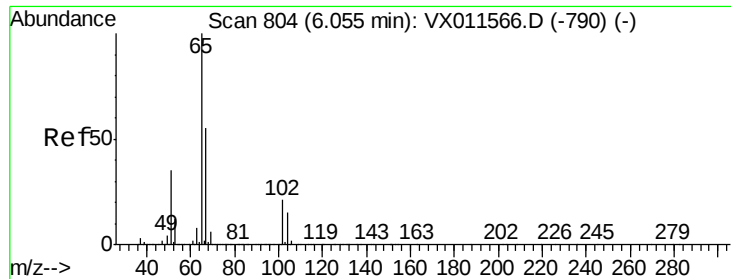
Tgt Ion: 43 Resp: 817

Ion Ratio Lower Upper

43 100

58 0.0 25.2 37.8#

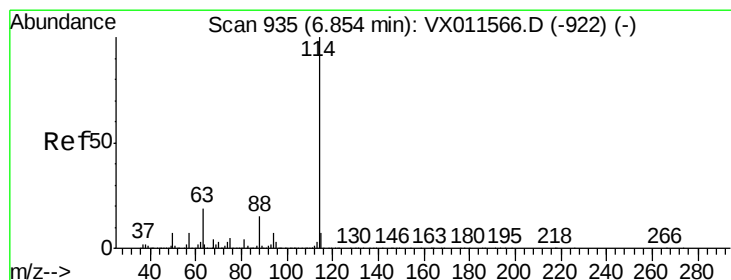
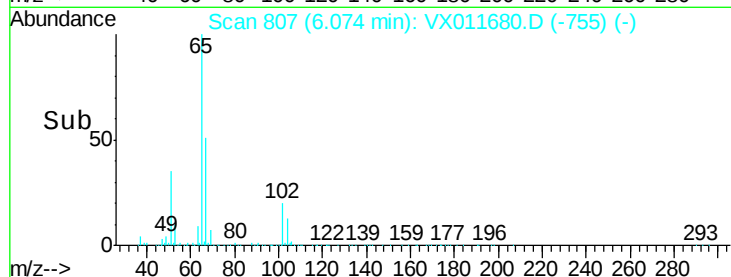
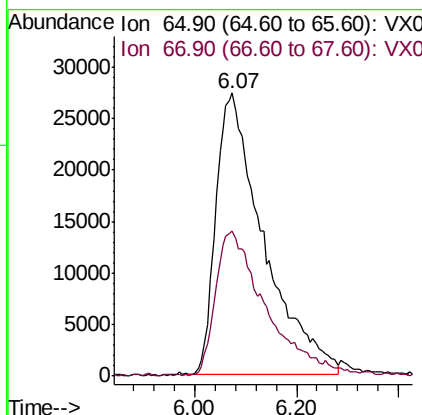
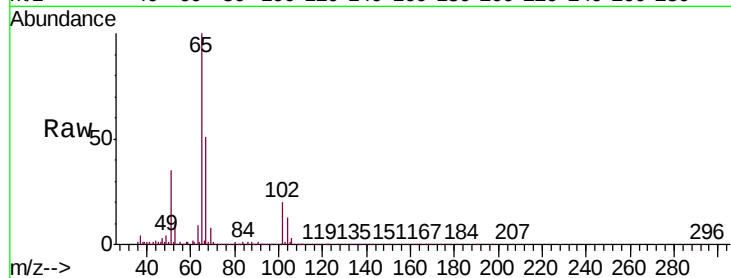




#33
 1,2-Dichloroethane-d4
 Concen: 47.439 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.02 min
 Lab File: VX011680.D
 Acq: 20 Aug 2019 13:28

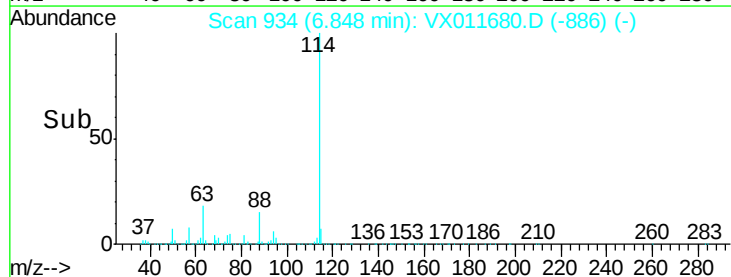
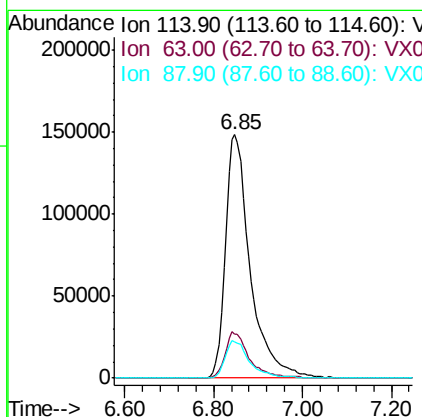
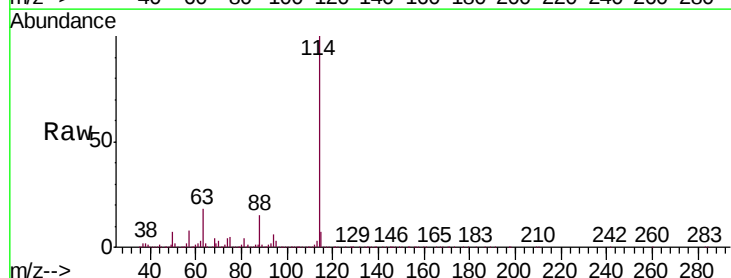
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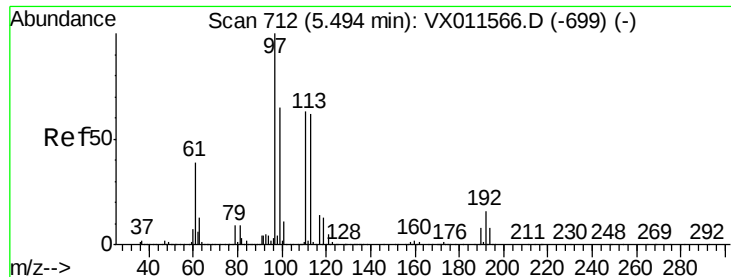
Tgt Ion: 65 Resp: 177821
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: VX011680.D
 Acq: 20 Aug 2019 13:28

Tgt Ion: 114 Resp: 572886
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 37.8
 88 15.0 0.0 30.2

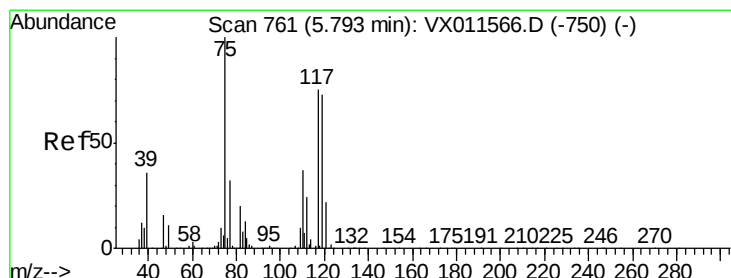
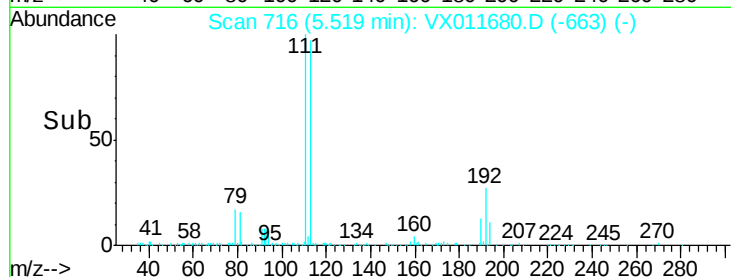
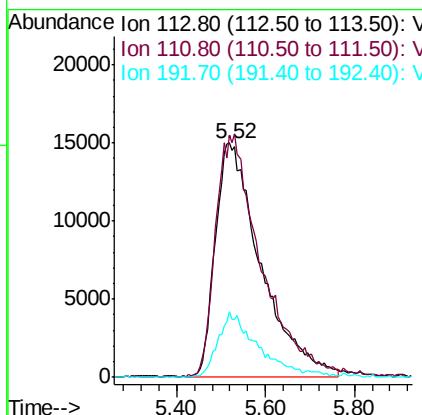
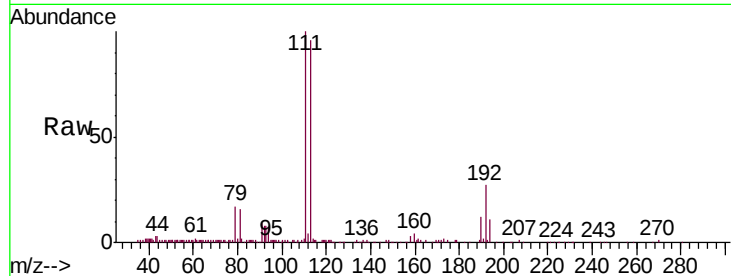




#35
Dibromofluoromethane
Concen: 28.193 ug/l
RT: 5.52 min Scan# 716
Delta R.T. 0.02 min
Lab File: VX011680.D
Acq: 20 Aug 2019 13:28

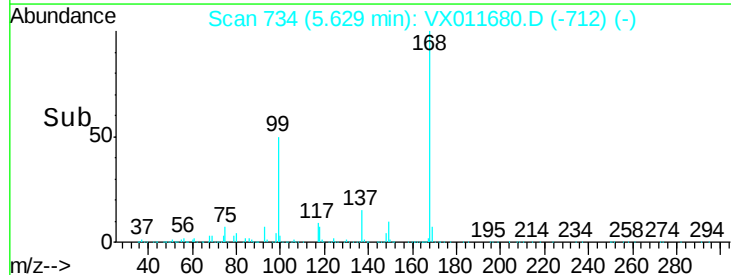
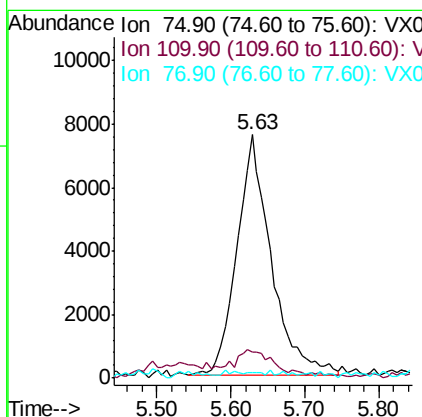
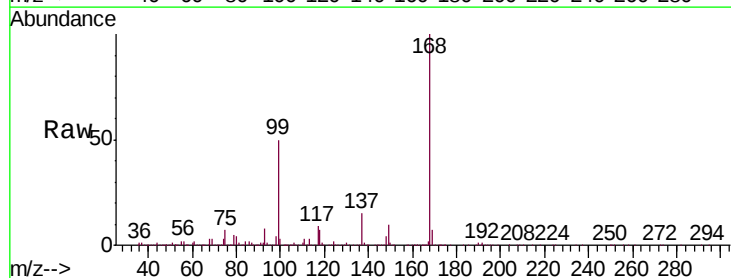
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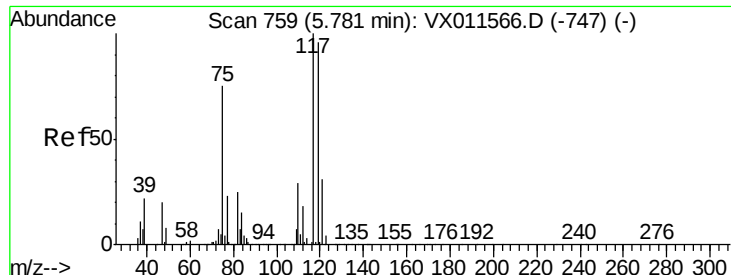
Tgt Ion:113 Resp: 105640
Ion Ratio Lower Upper
113 100
111 104.3 81.1 121.7
192 24.0 20.8 31.2



#36
1,1-Dichloropropene
Concen: 5.016 ug/l
RT: 5.63 min Scan# 734
Delta R.T. -0.16 min
Lab File: VX011680.D
Acq: 20 Aug 2019 13:28

Tgt Ion: 75 Resp: 24571
Ion Ratio Lower Upper
75 100
110 11.3 19.4 58.1#
77 0.8 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.820 ug/l

RT: 5.63 min Scan# 735

Delta R.T. -0.15 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

TB01-081919RE

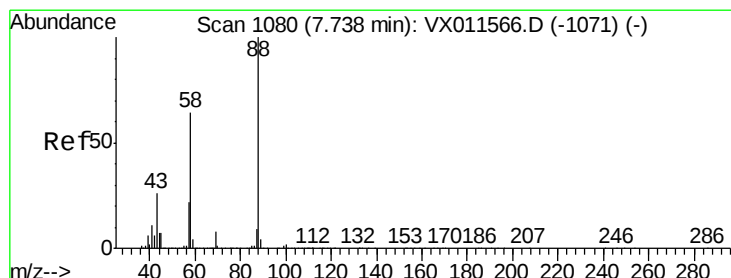
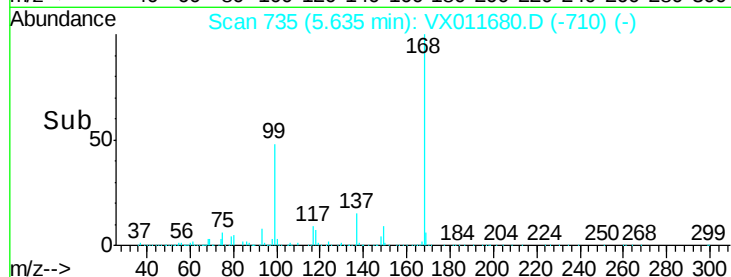
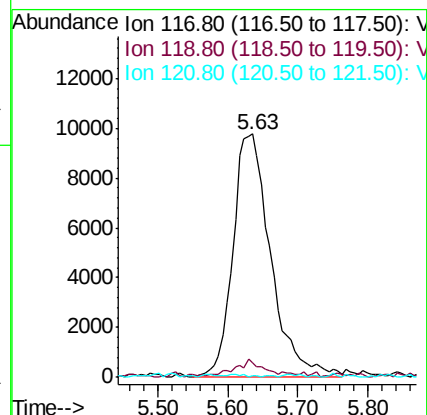
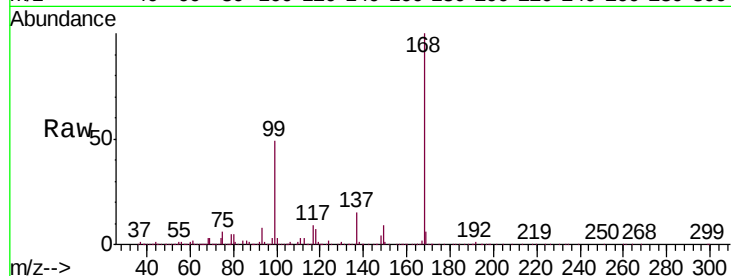
Tgt Ion: 117 Resp: 36805

Ion Ratio Lower Upper

117 100

119 4.9 76.9 115.3#

121 0.5 24.8 37.2#



#49

1,4-Dioxane

Concen: 2.867 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

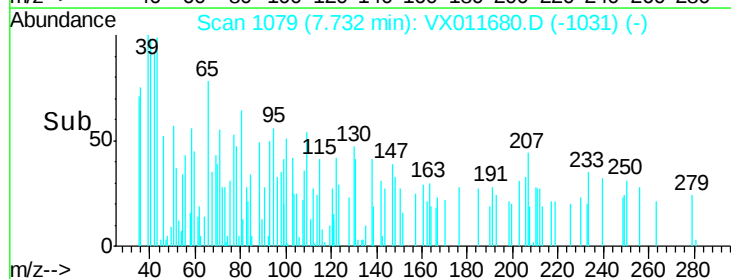
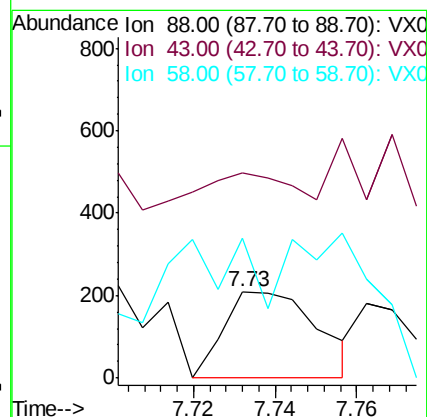
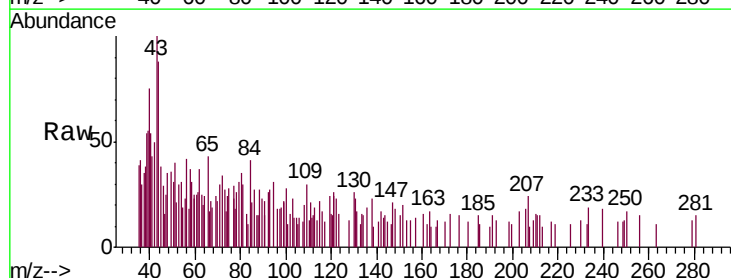
Tgt Ion: 88 Resp: 332

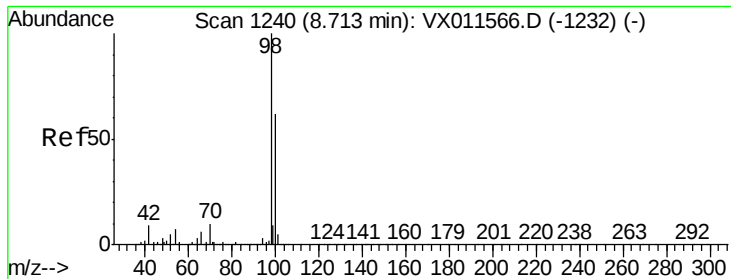
Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.0#

58 74.1 54.3 81.5





#50

Toluene-d8

Concen: 54.042 ug/l

RT: 8.71 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

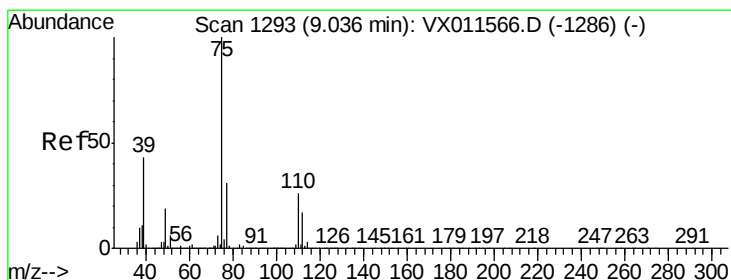
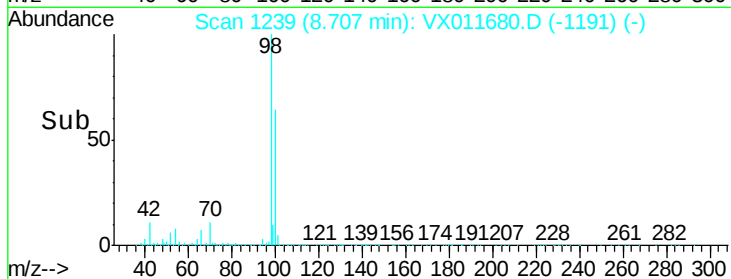
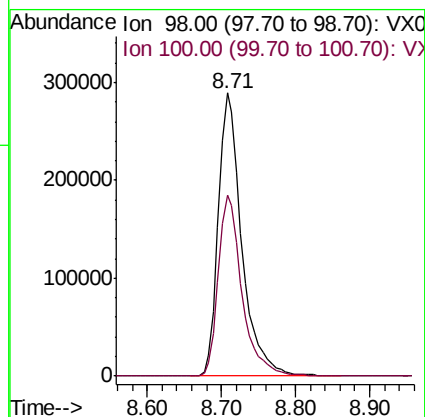
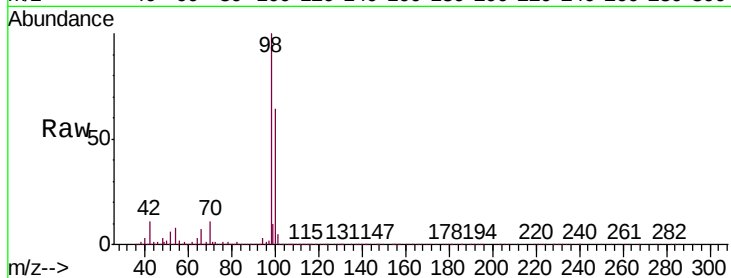
TB01-081919RE

Tgt Ion: 98 Resp: 630953

Ion Ratio Lower Upper

98 100

100 64.4 52.4 78.6



#53

t-1,3-Dichloropropene

Concen: 2.505 ug/l

RT: 8.98 min Scan# 1284

Delta R.T. -0.05 min

Lab File: VX011680.D

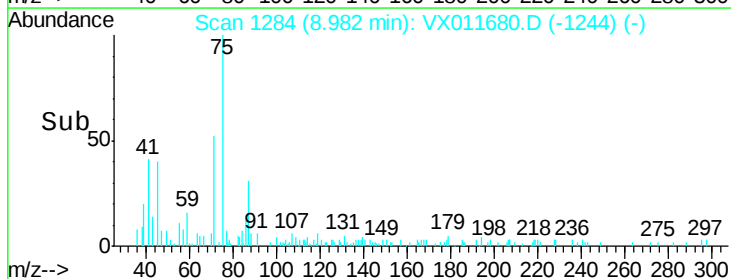
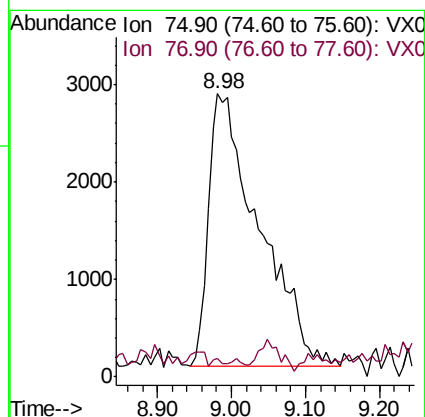
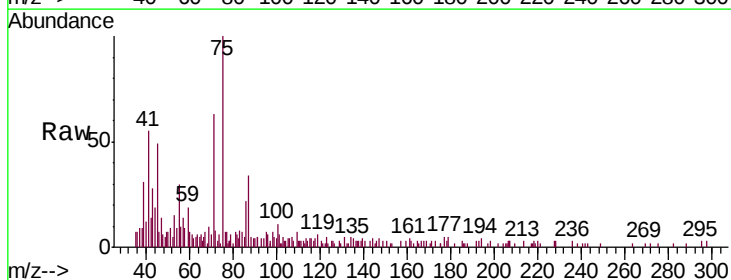
Acq: 20 Aug 2019 13:28

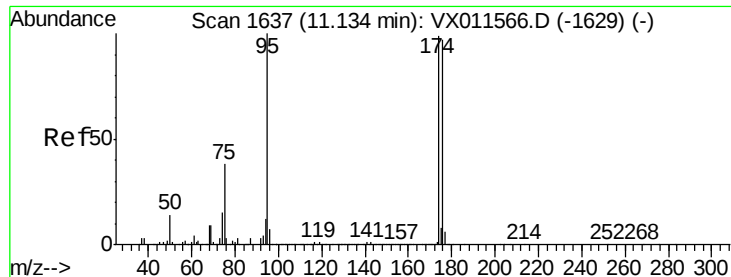
Tgt Ion: 75 Resp: 13169

Ion Ratio Lower Upper

75 100

77 3.6 25.1 37.7#

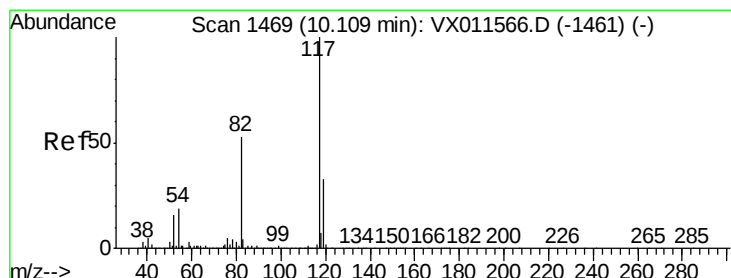
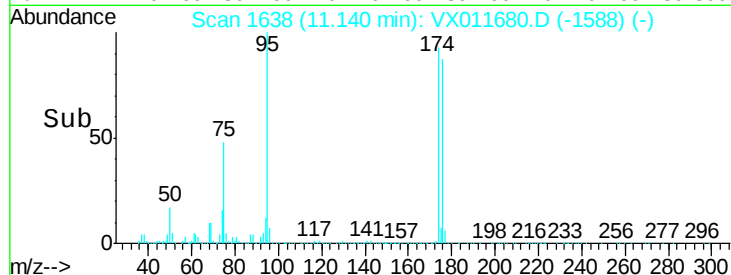
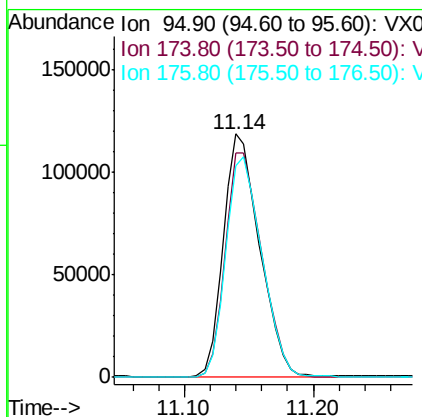
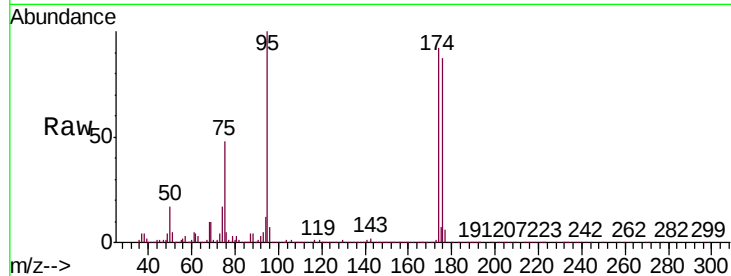




#62
4-Bromofluorobenzene
Concen: 47.130 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VX011680.D
Acq: 20 Aug 2019 13:28

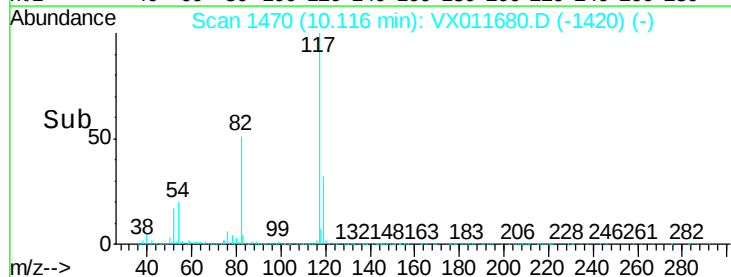
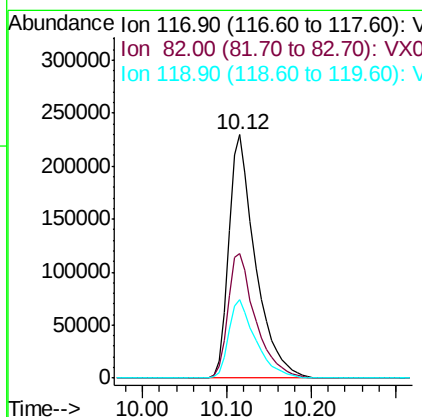
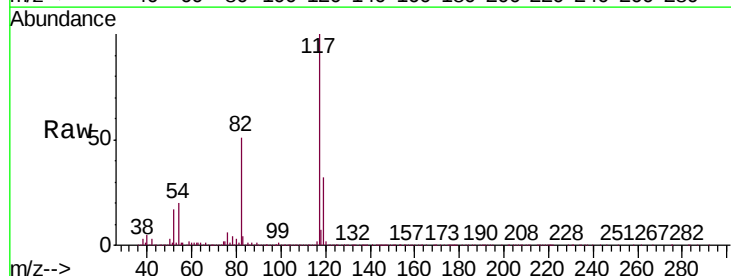
Instrument :
MSVOA_X
ClientSampleId :
TB01-081919RE

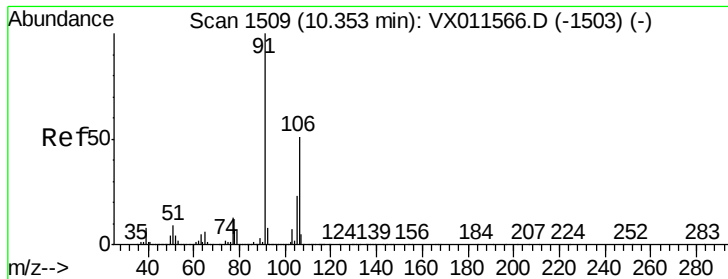
Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.0	0.0	200.6
176	91.6	0.0	196.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX011680.D
Acq: 20 Aug 2019 13:28

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.3	42.0	63.0
119	32.3	26.5	39.7





#68

m/p-Xylenes

Concen: 0.257 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

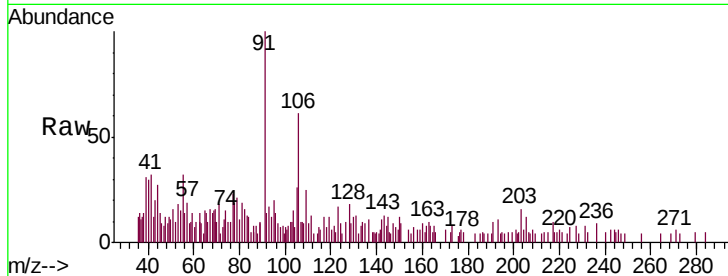
TB01-081919RE

Tgt Ion:106 Resp: 1725

Ion Ratio Lower Upper

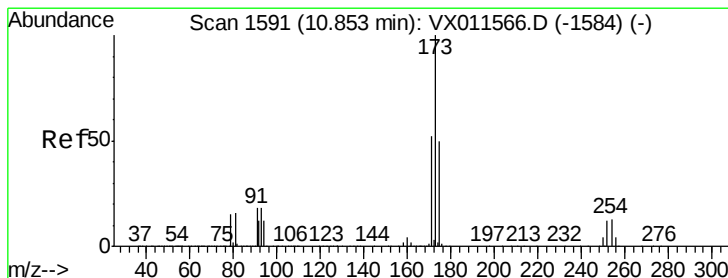
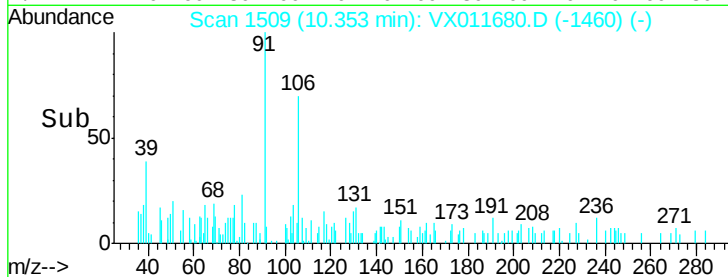
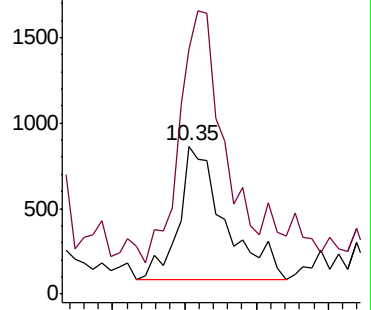
106 100

91 180.8 156.0 234.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#71

Bromoform

Concen: 3.319 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

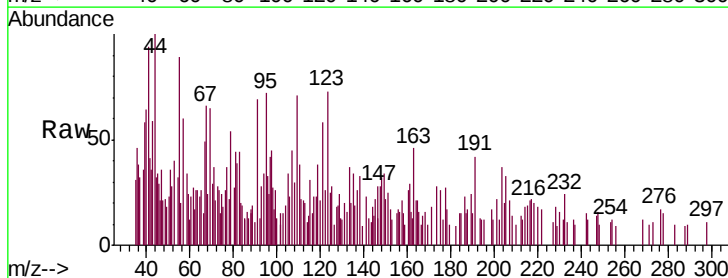
Tgt Ion:173 Resp: 110

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

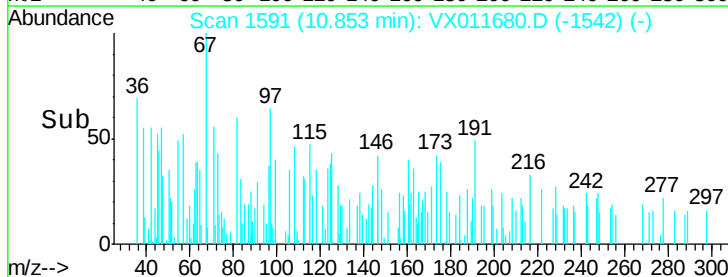
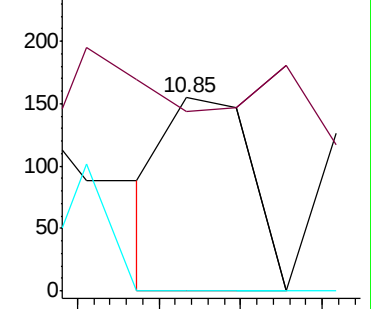
254 0.0 0.1 0.1#

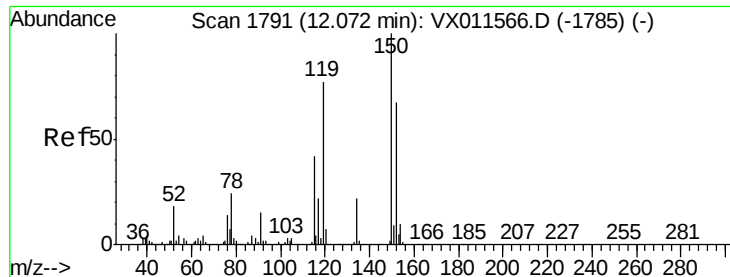


Abundance Ion 172.70 (172.40 to 173.40): V

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: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

TB01-081919RE

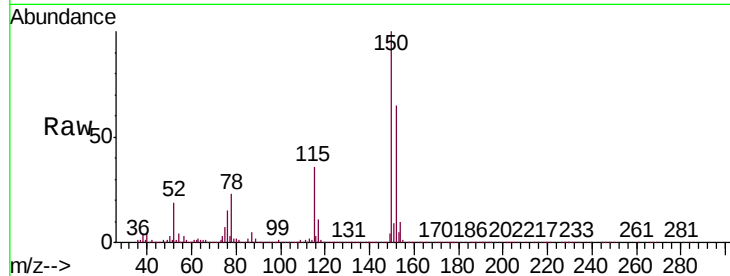
Tgt Ion:152 Resp: 259366

Ion Ratio Lower Upper

152 100

115 55.5 37.3 111.9

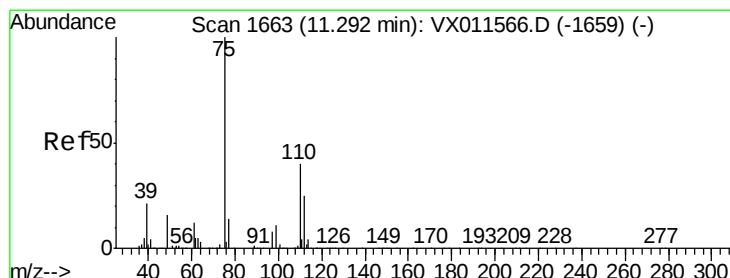
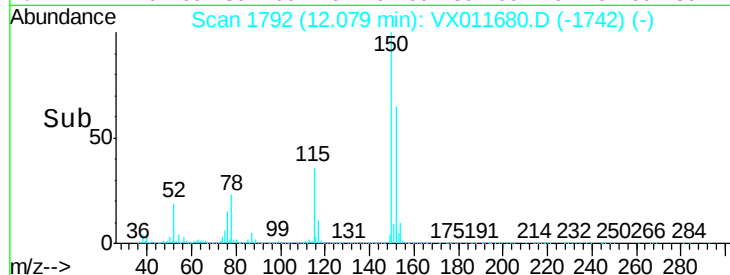
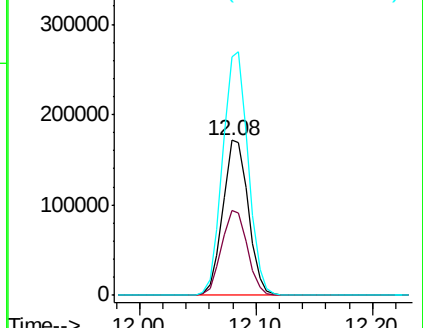
150 157.1 0.0 346.2



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: 22.938 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.15 min

Lab File: VX011680.D

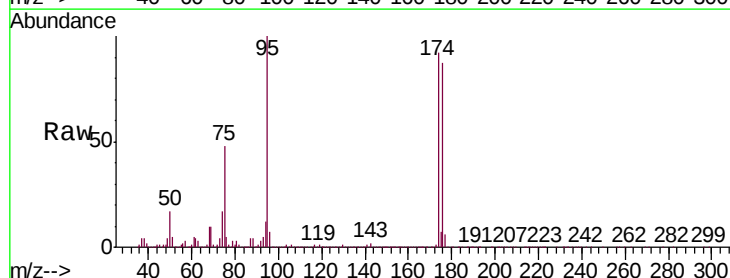
Acq: 20 Aug 2019 13:28

Tgt Ion: 75 Resp: 112811

Ion Ratio Lower Upper

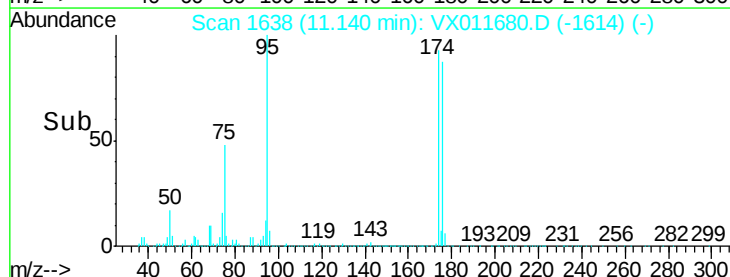
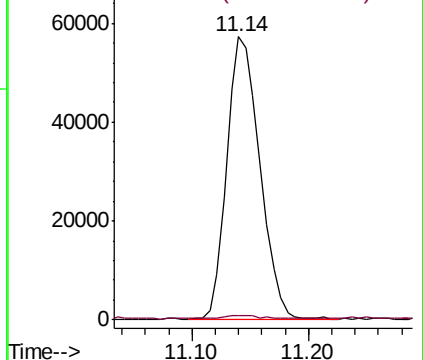
75 100

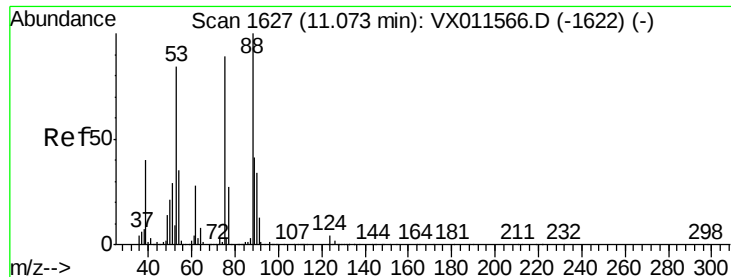
77 1.1 20.9 62.8#



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: 61.047 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

TB01-081919RE

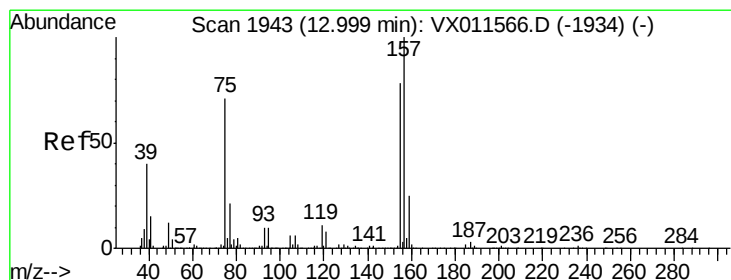
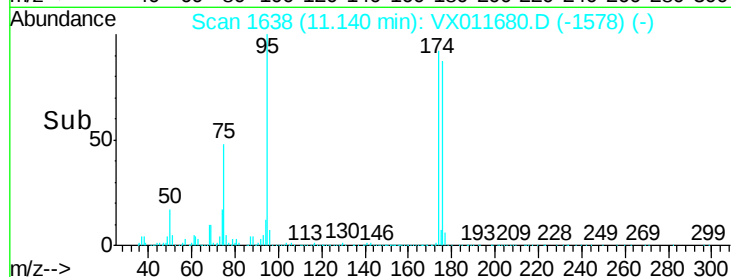
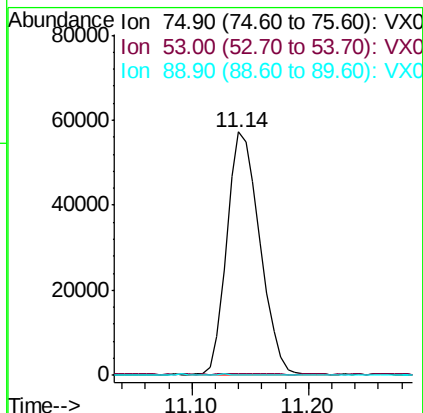
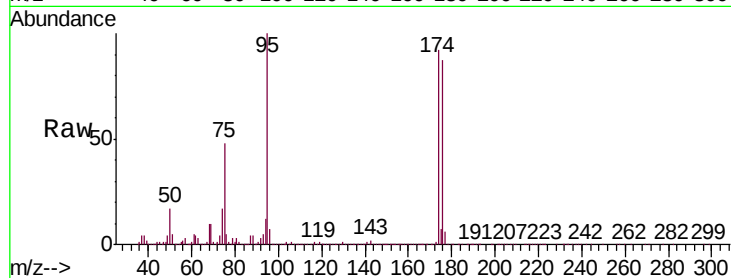
Tgt Ion: 75 Resp: 112811

Ion Ratio Lower Upper

75 100

53 0.4 77.4 116.0#

89 0.0 37.3 55.9#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.235 ug/l

RT: 13.16 min Scan# 1970

Delta R.T. 0.16 min

Lab File: VX011680.D

Acq: 20 Aug 2019 13:28

Tgt Ion: 75 Resp: 311

Ion Ratio Lower Upper

75 100

155 56.6 53.0 159.0

157 68.8 68.3 205.1

