

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080620\
 Data File : VX017798.D
 Acq On : 06 Aug 2020 10:48
 Operator : JC/SP
 Sample : VX0806WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0806WBL01

Quant Time: Aug 06 15:22:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

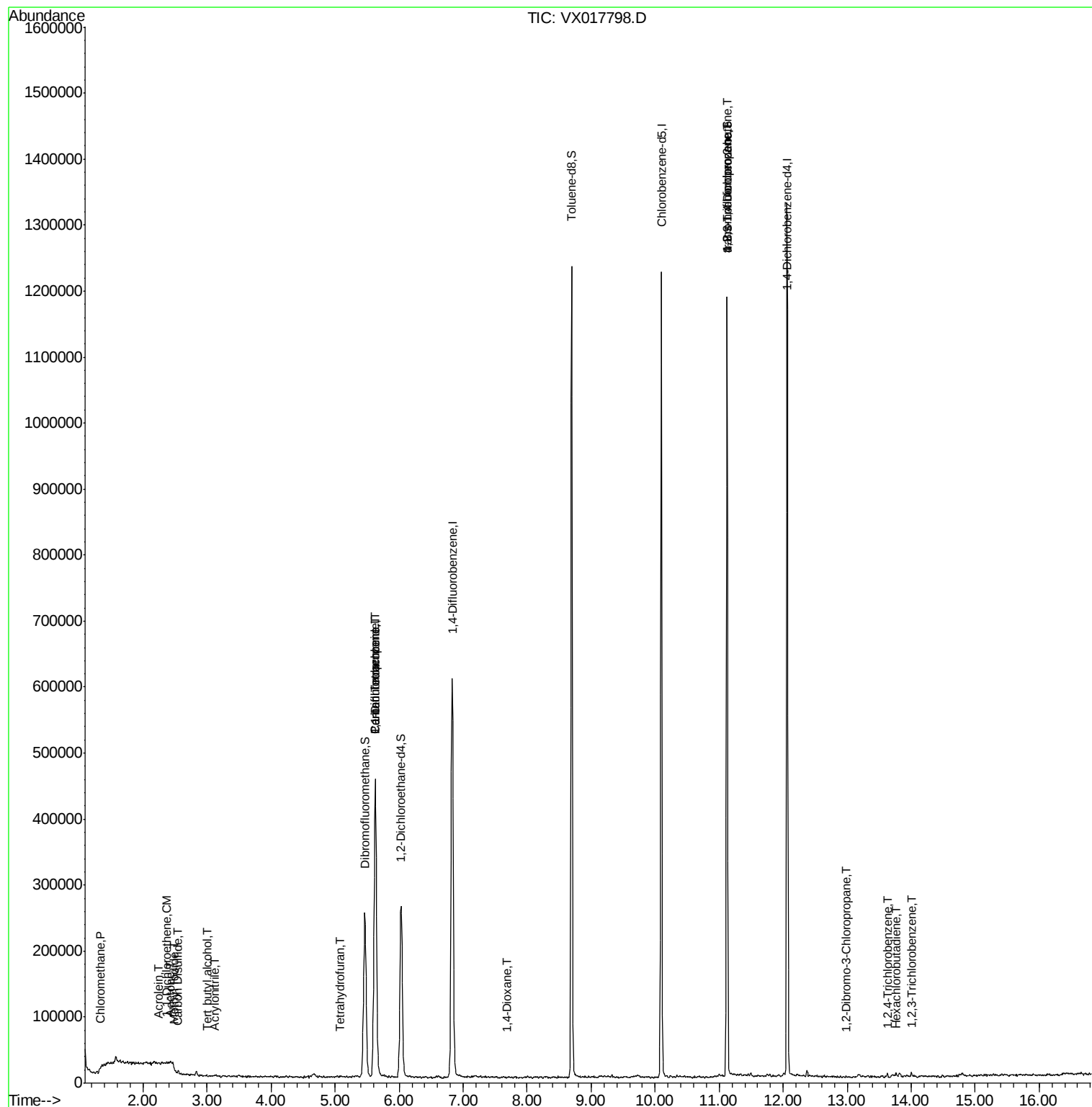
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	420512	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	597887	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	544243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	268460	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.02	65	263905	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
35) Dibromofluoromethane	5.46	113	212139	53.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.10%	
50) Toluene-d8	8.70	98	704186	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
62) 4-Bromofluorobenzene	11.12	95	283932	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	250	Below Cal	#	42
3) Chloromethane	1.32	50	1652	0.682	ug/l	92
5) Bromomethane	1.64	94	2172	Below Cal	#	77
6) Chloroethane	1.71	64	531	Below Cal	#	44
8) Diethyl Ether	2.07	74	289	Below Cal		82
10) Methyl Iodide	2.49	142	3248	0.556	ug/l	96
11) Tert butyl alcohol	3.01	59	1019	0.895	ug/l #	77
12) 1,1-Dichloroethene	2.36	96	1194	0.275	ug/l #	8
13) Acrolein	2.25	56	1079	5.369	ug/l #	14
15) Acrylonitrile	3.12	53	1343	0.546	ug/l #	76
16) Acetone	2.43	43	2490	1.047	ug/l #	77
17) Carbon Disulfide	2.55	76	3199	0.242	ug/l	95
20) Methylene Chloride	2.84	84	3231	Below Cal	#	78
29) Tetrahydrofuran	5.09	42	636	0.304	ug/l #	52
36) 1,1-Dichloropropene	5.62	75	32521	5.671	ug/l #	52
38) Carbon Tetrachloride	5.62	117	41747	5.995	ug/l #	18
49) 1,4-Dioxane	7.69	88	139	1.413	ug/l #	22
76) 1,2,3-Trichloropropane	11.12	75	143807	26.041	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	143807	65.617	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	153	2.666	ug/l #	35
93) 1,2,4-Trichlorobenzene	13.63	180	1435	0.242	ug/l #	84
94) Hexachlorobutadiene	13.77	225	743	0.272	ug/l	84
96) 1,2,3-Trichlorobenzene	14.01	180	1528	0.261	ug/l	88

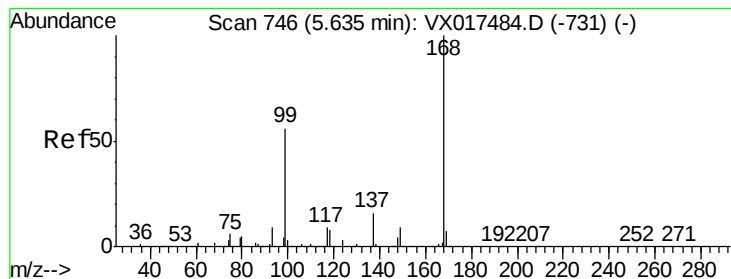
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Aug 06 15:22:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

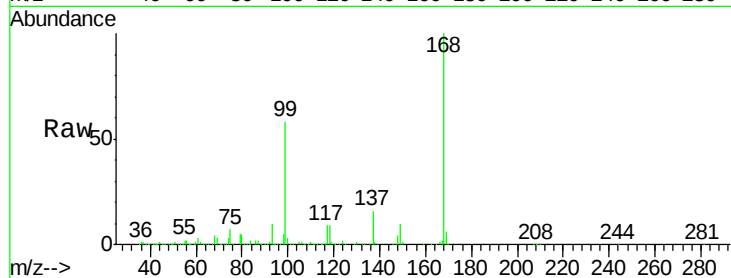
VX0806WBL01

Tgt Ion:168 Resp: 420512

Ion Ratio Lower Upper

168 100

99 57.9 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

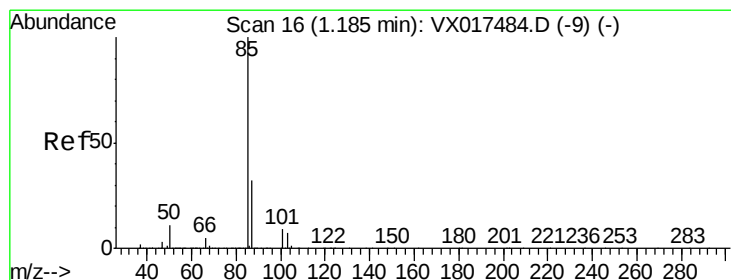
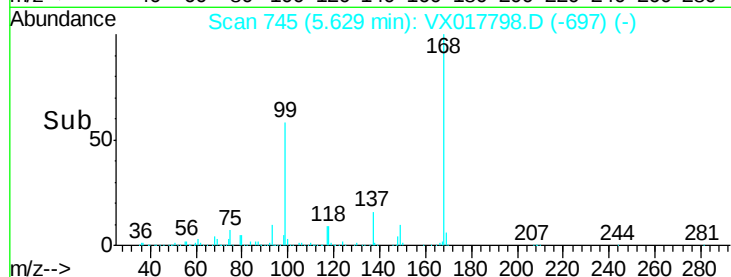
100000

50000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017798.D

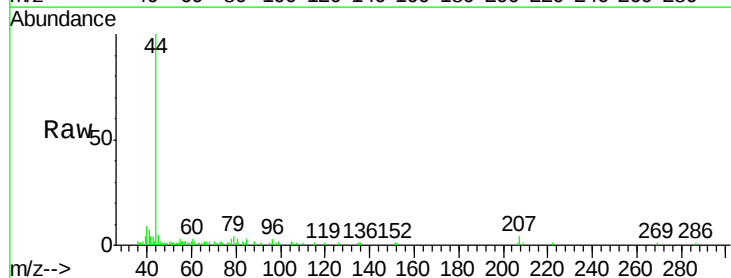
Acq: 06 Aug 2020 10:48

Tgt Ion: 85 Resp: 250

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

250

200

150

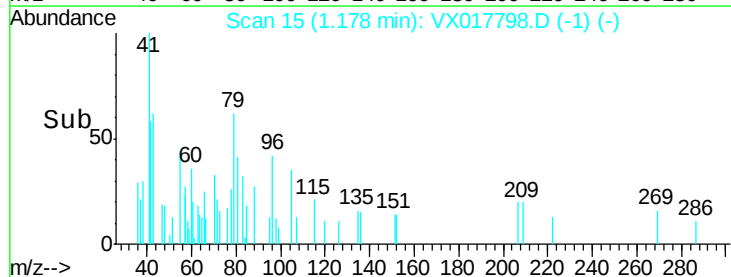
100

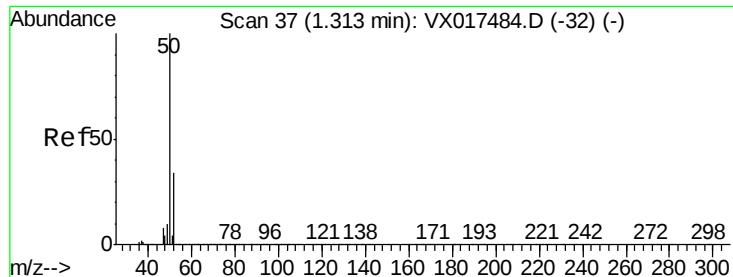
50

0

1.15 1.20

Time-->





#3

Chloromethane

Concen: 0.682 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampled :

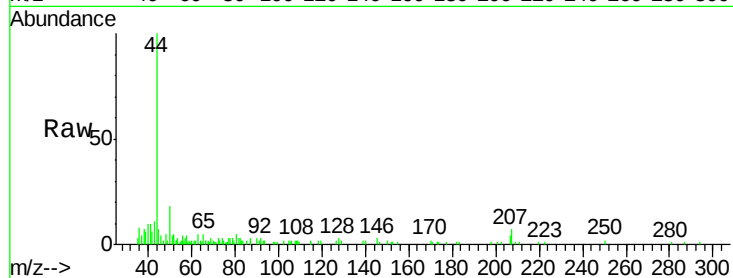
VX0806WBL01

Tgt Ion: 50 Resp: 1652

Ion Ratio Lower Upper

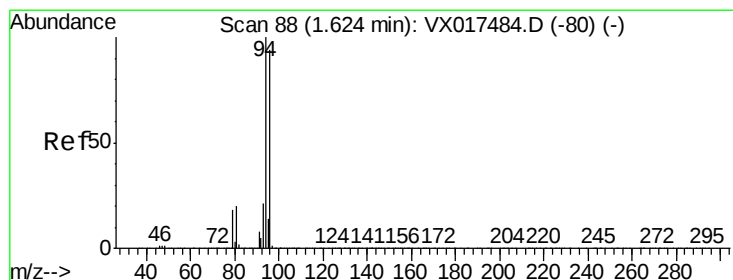
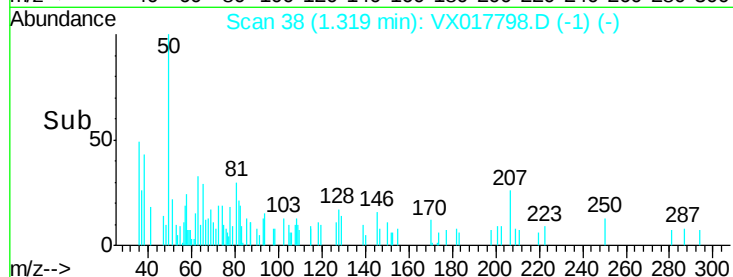
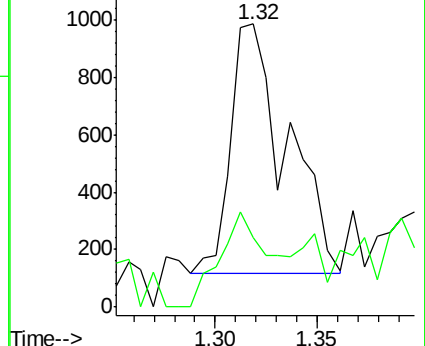
50 100

52 28.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017798.D

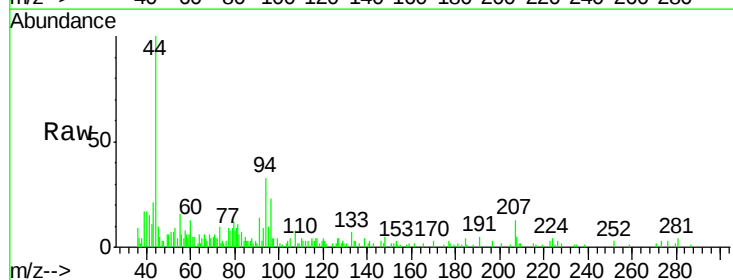
Acq: 06 Aug 2020 10:48

Tgt Ion: 94 Resp: 2172

Ion Ratio Lower Upper

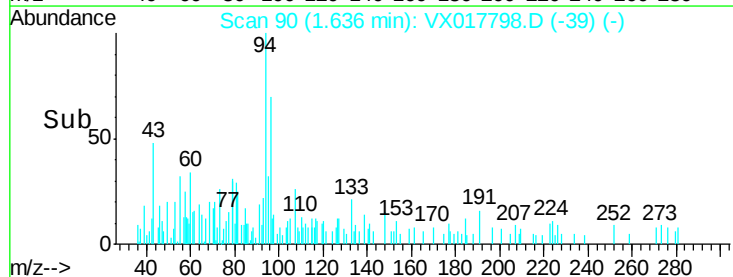
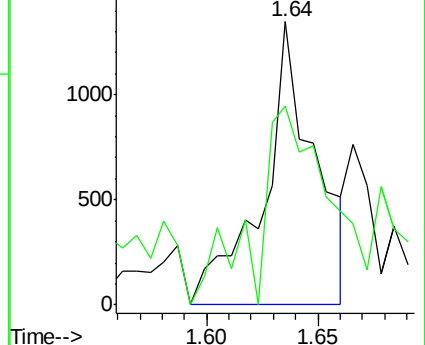
94 100

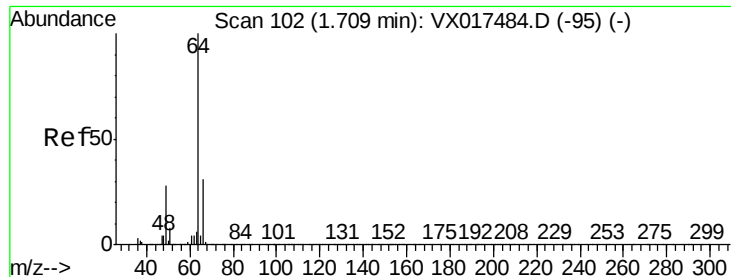
96 70.3 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampled :

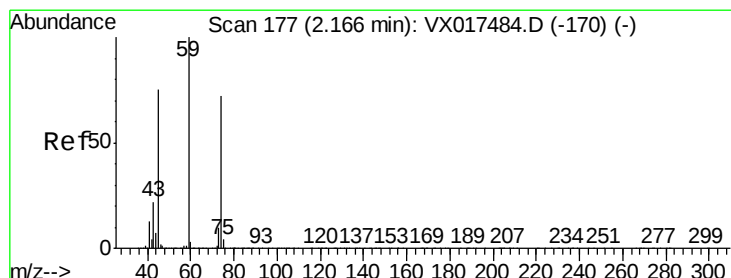
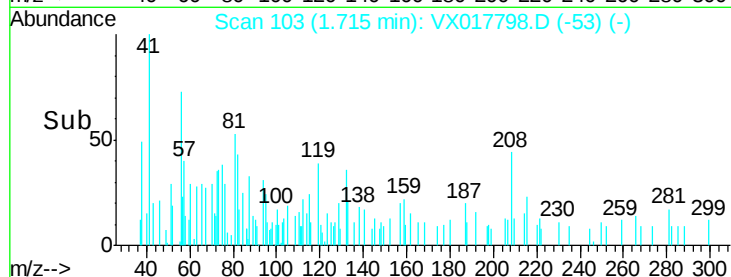
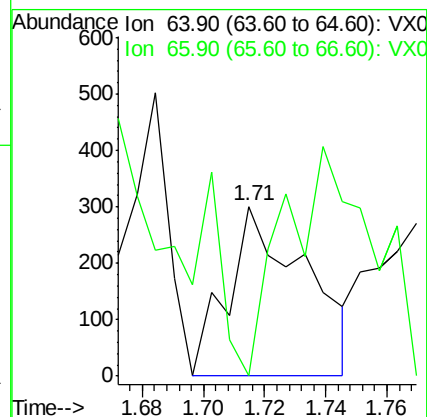
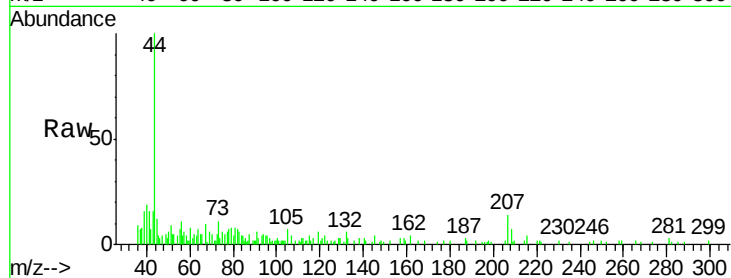
VX0806WBL01

Tgt Ion: 64 Resp: 531

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.07 min Scan# 162

Delta R.T. -0.09 min

Lab File: VX017798.D

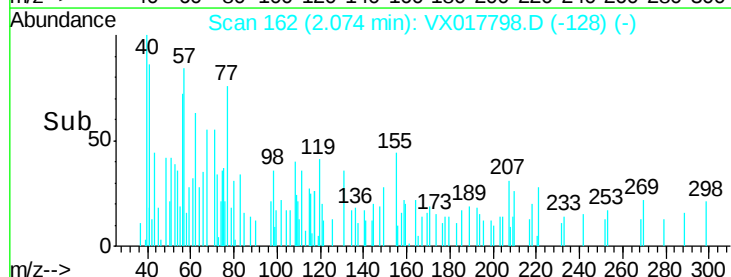
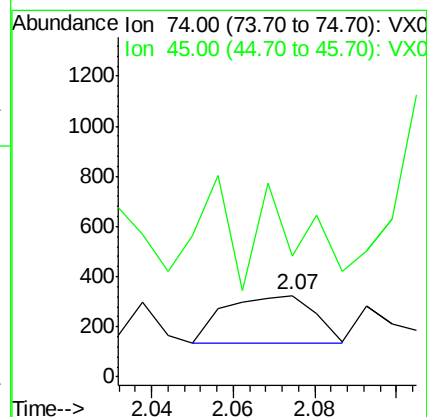
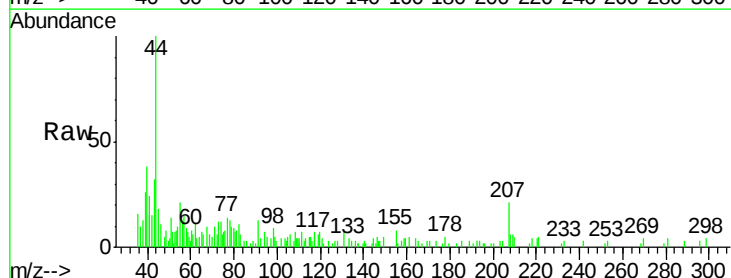
Acq: 06 Aug 2020 10:48

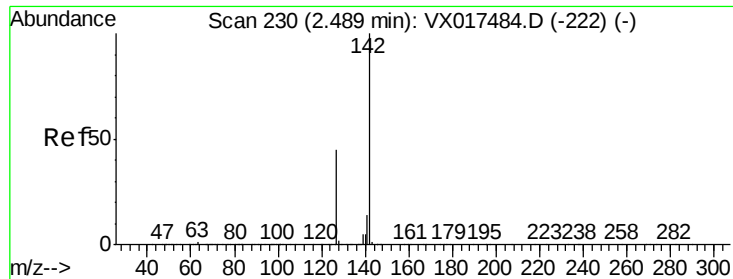
Tgt Ion: 74 Resp: 289

Ion Ratio Lower Upper

74 100

45 120.1 50.8 152.5

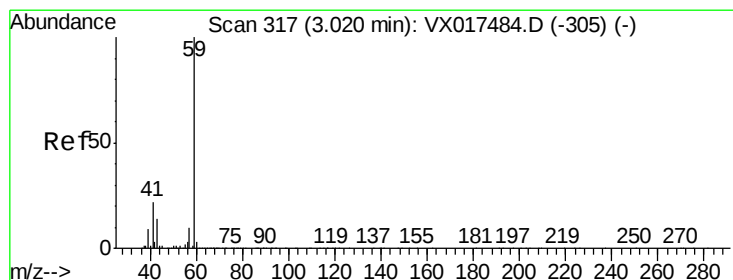
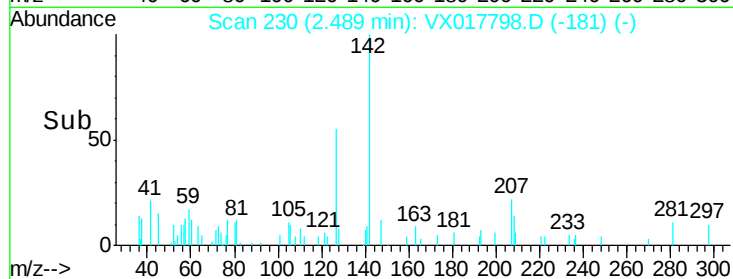
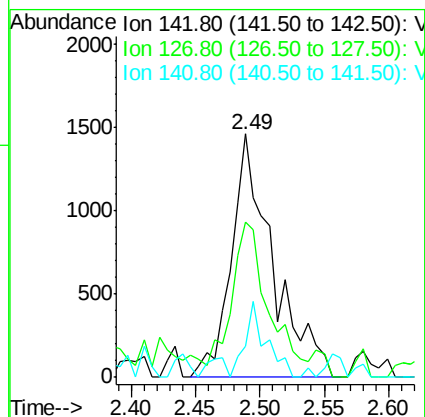
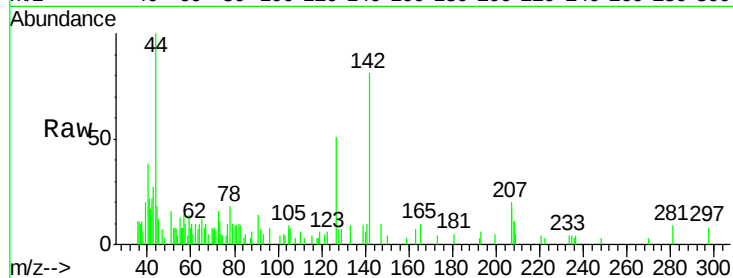




#10
Methyl Iodide
Concen: 0.556 ug/l
RT: 2.49 min Scan# 230
Delta R.T. -0.00 min
Lab File: VX017798.D
Acq: 06 Aug 2020 10:48

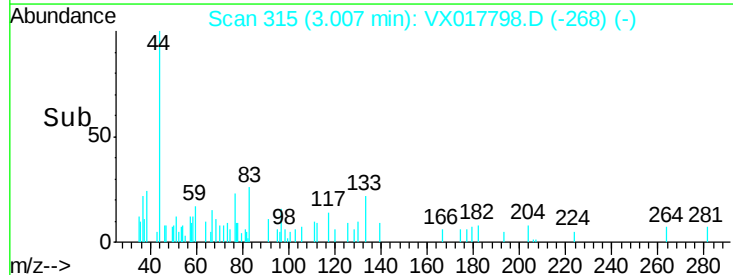
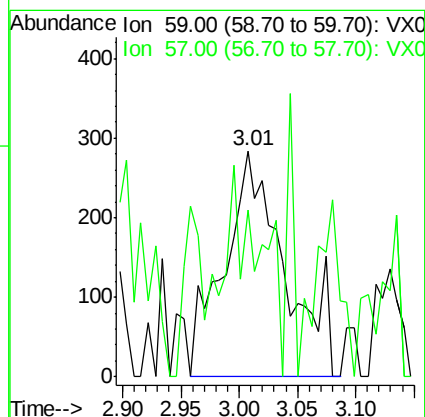
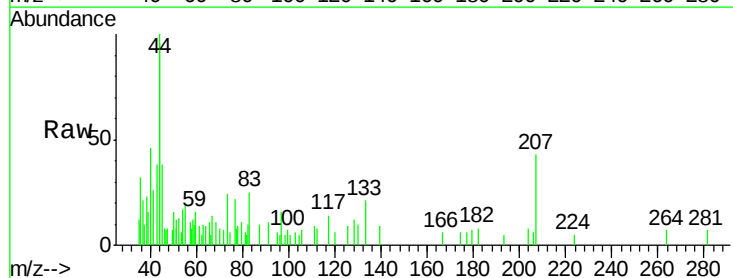
Instrument :
MSVOA_X
ClientSampleId :
VX0806WBL01

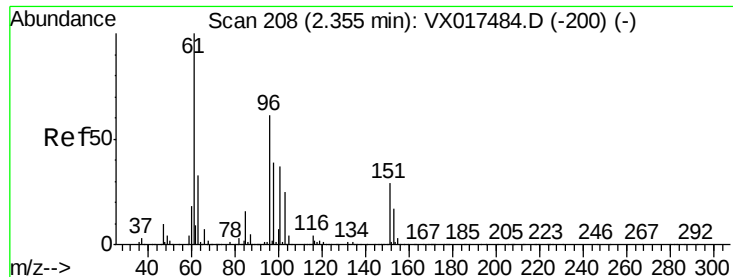
Tgt Ion:142 Resp: 3248
Ion Ratio Lower Upper
142 100
127 47.8 35.9 53.9
141 15.6 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.895 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017798.D
Acq: 06 Aug 2020 10:48

Tgt Ion: 59 Resp: 1019
Ion Ratio Lower Upper
59 100
57 19.2 8.6 12.8#

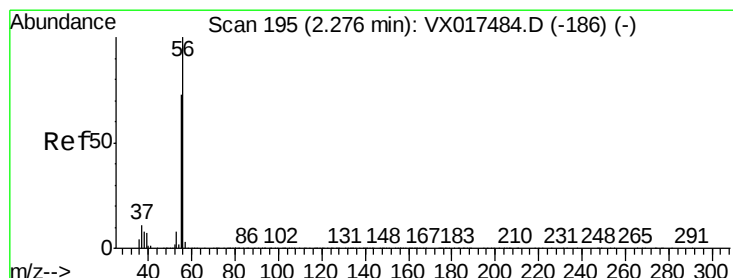
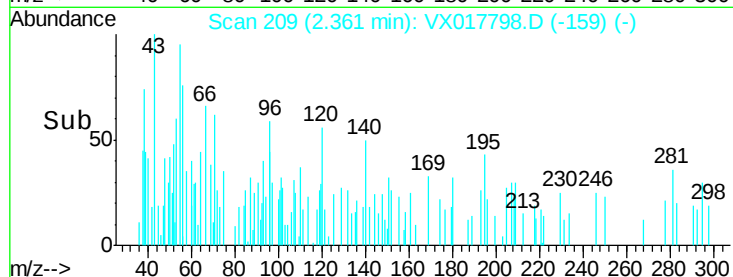
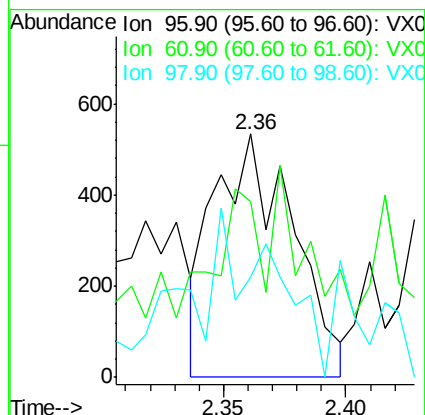
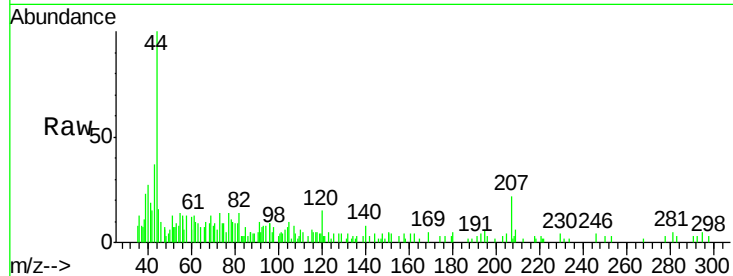




#12
 1,1-Dichloroethene
 Concen: 0.275 ug/l
 RT: 2.36 min Scan# 209
 Delta R.T. 0.01 min
 Lab File: VX017798.D
 Acq: 06 Aug 2020 10:48

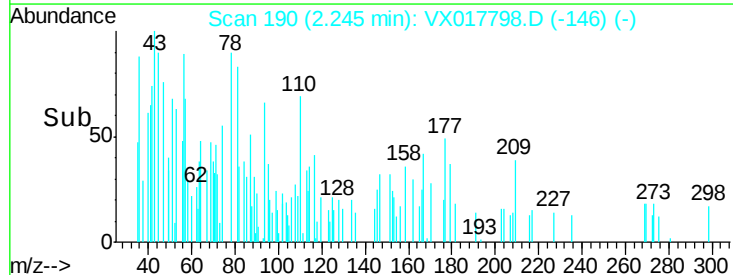
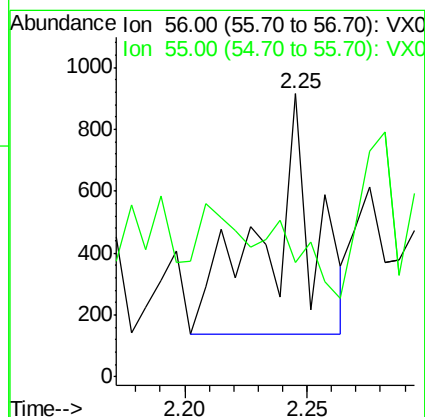
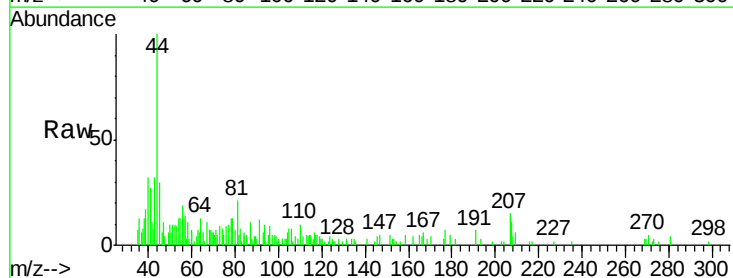
Instrument :
 MSVOA_X
 ClientSampleID :
 VX0806WBL01

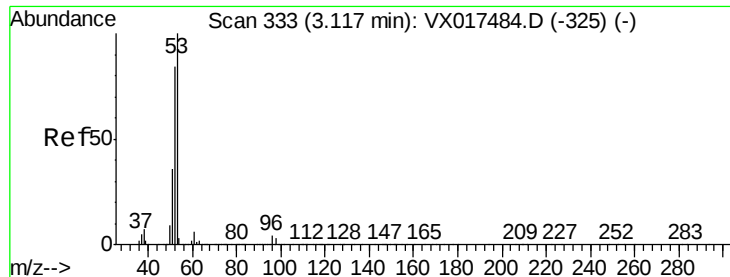
Tgt Ion: 96 Resp: 1194
 Ion Ratio Lower Upper
 96 100
 61 33.9 134.0 201.0#
 98 5.9 51.0 76.4#



#13
 Acrolein
 Concen: 5.369 ug/l
 RT: 2.25 min Scan# 190
 Delta R.T. -0.03 min
 Lab File: VX017798.D
 Acq: 06 Aug 2020 10:48

Tgt Ion: 56 Resp: 1079
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.4 86.2#





#15

Acrylonitrile

Concen: 0.546 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

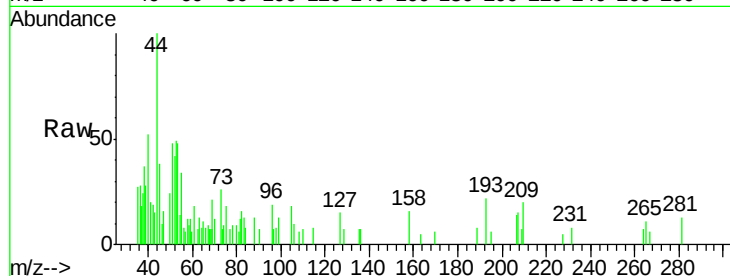
Tgt Ion: 53 Resp: 1343

Ion Ratio Lower Upper

53 100

52 100.7 66.6 99.8#

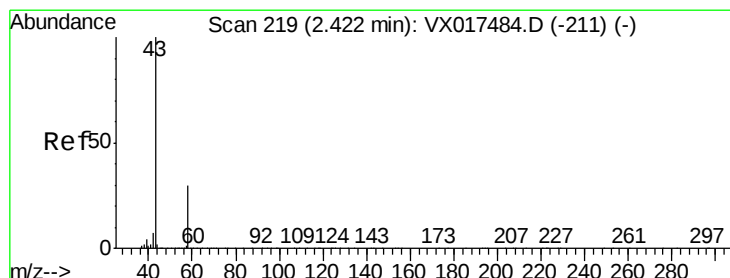
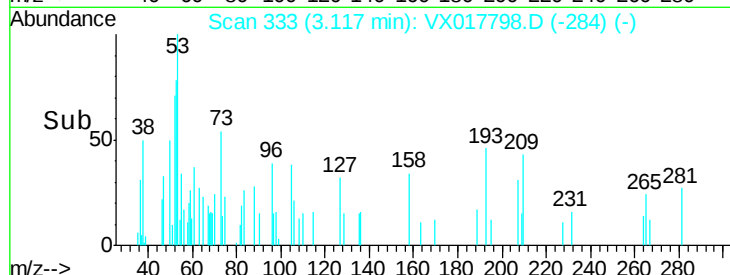
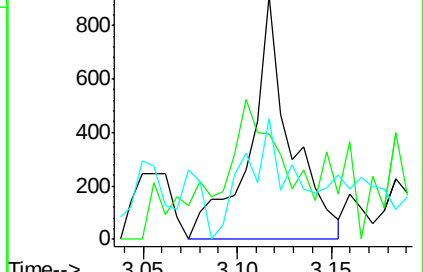
51 57.5 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.047 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX017798.D

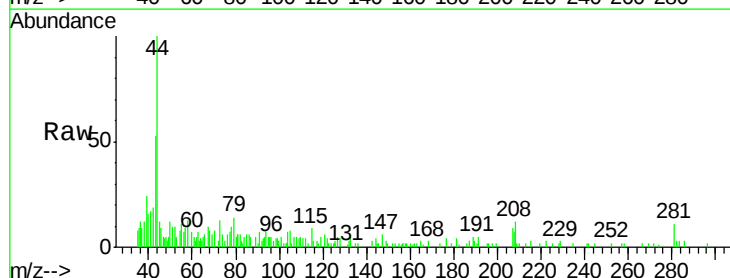
Acq: 06 Aug 2020 10:48

Tgt Ion: 43 Resp: 2490

Ion Ratio Lower Upper

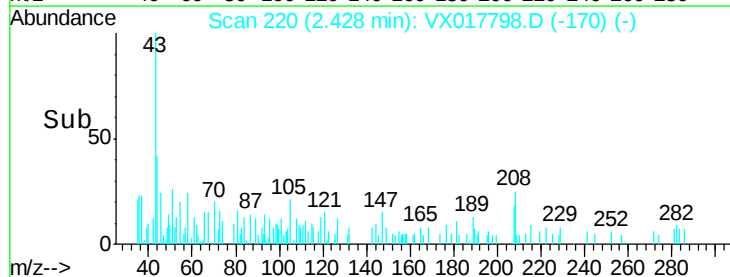
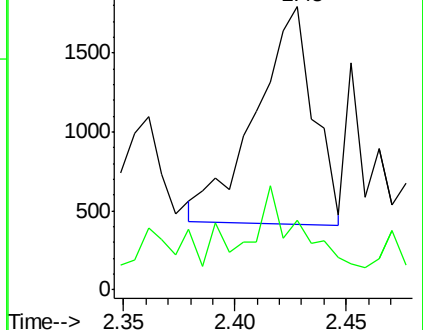
43 100

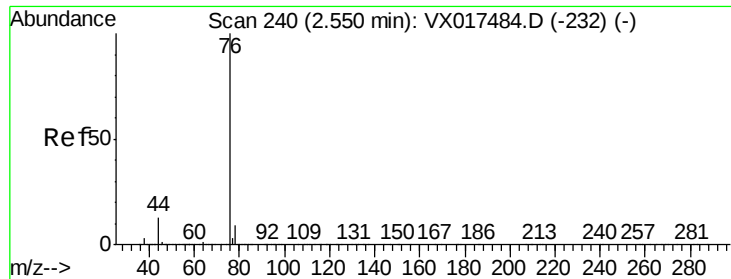
58 18.0 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.242 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

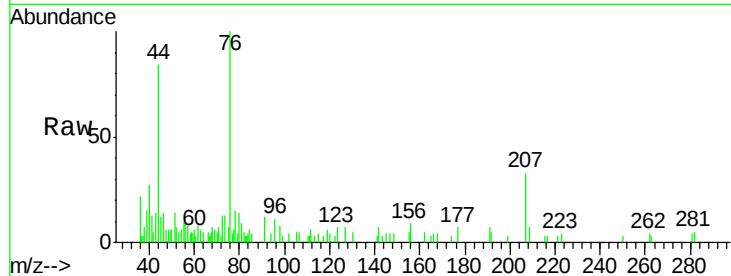
VX0806WBL01

Tgt Ion: 76 Resp: 3199

Ion Ratio Lower Upper

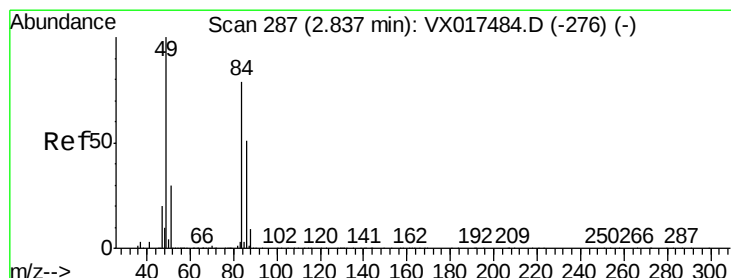
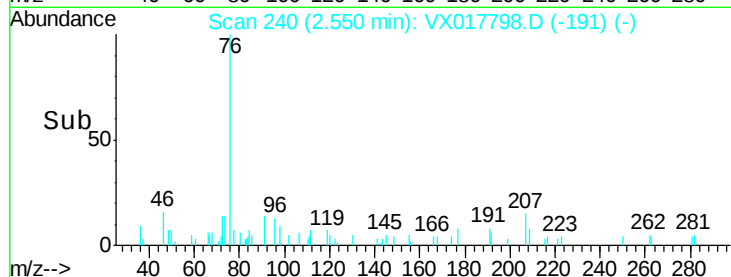
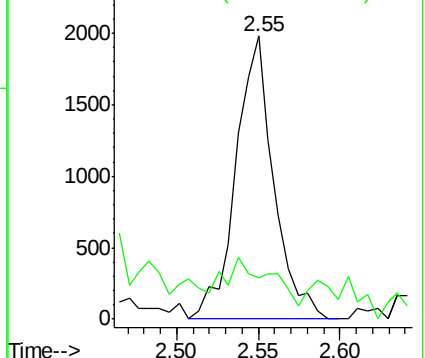
76 100

78 7.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Tgt Ion: 84 Resp: 3231

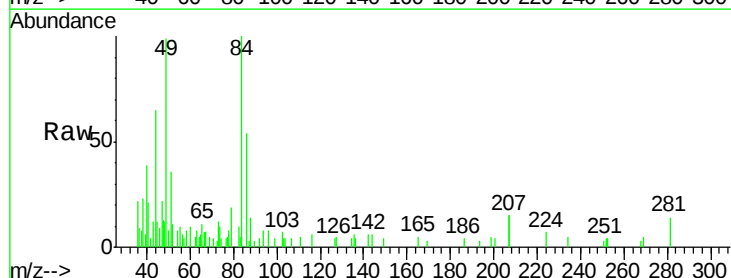
Ion Ratio Lower Upper

84 100

49 92.8 100.3 150.5#

51 28.8 30.5 45.7#

86 53.6 51.1 76.7

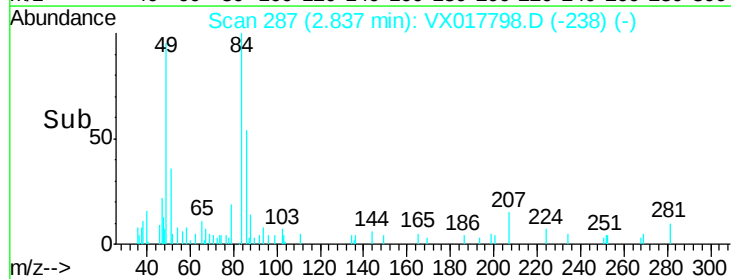
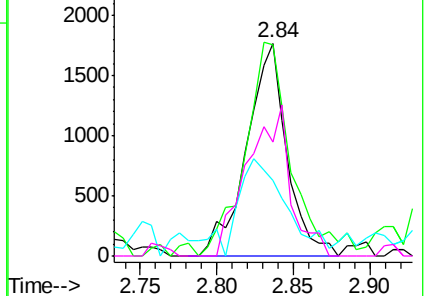


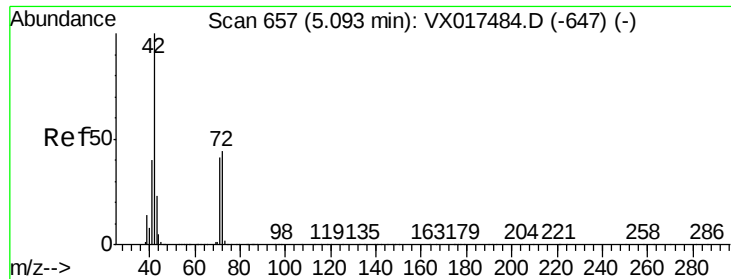
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#29

Tetrahydrofuran

Concen: 0.304 ug/l

RT: 5.09 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

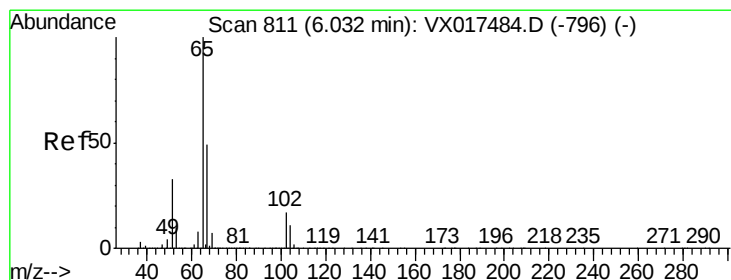
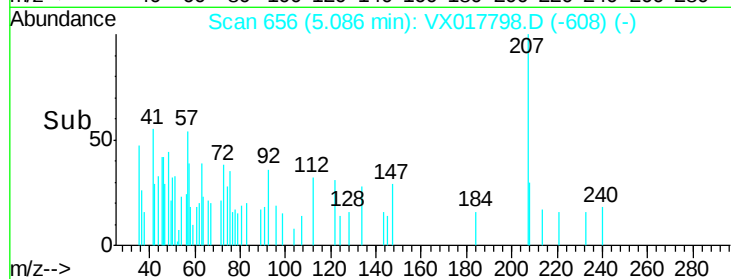
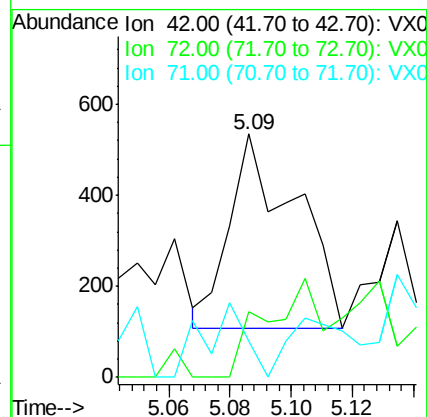
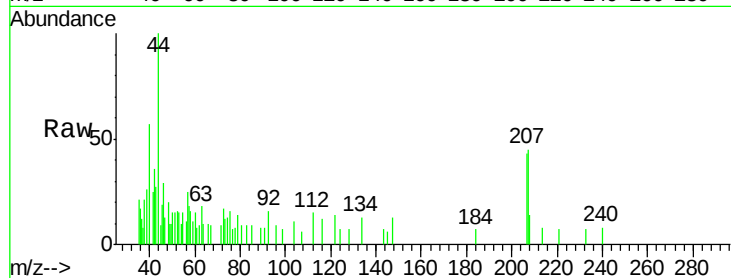
Tgt Ion: 42 Resp: 636

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 24.2 33.0 49.4#



#33

1,2-Dichloroethane-d4

Concen: 48.856 ug/l

RT: 6.02 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX017798.D

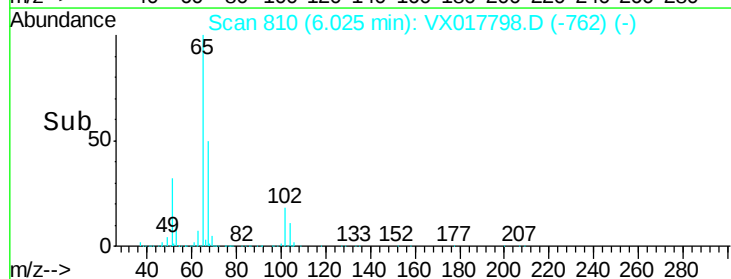
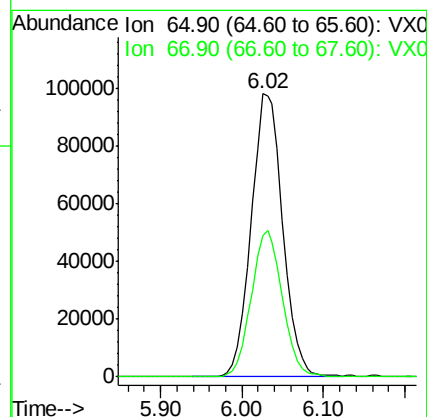
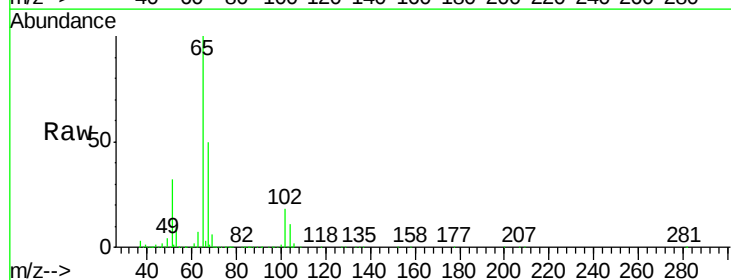
Acq: 06 Aug 2020 10:48

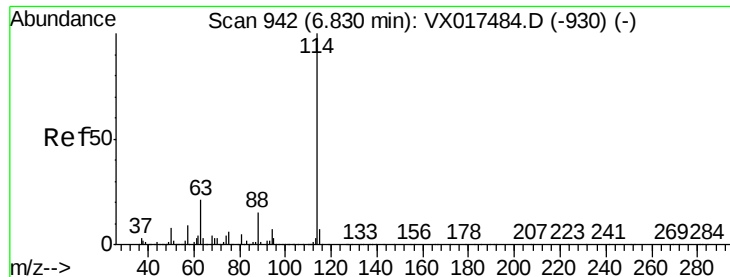
Tgt Ion: 65 Resp: 263905

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

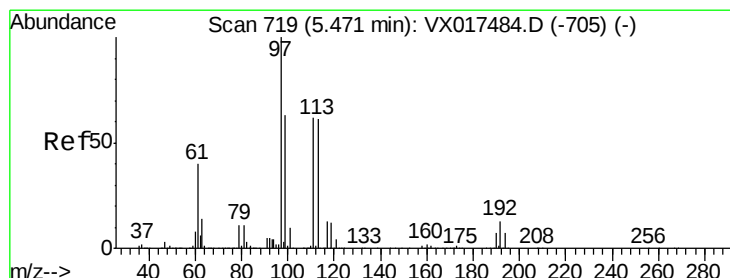
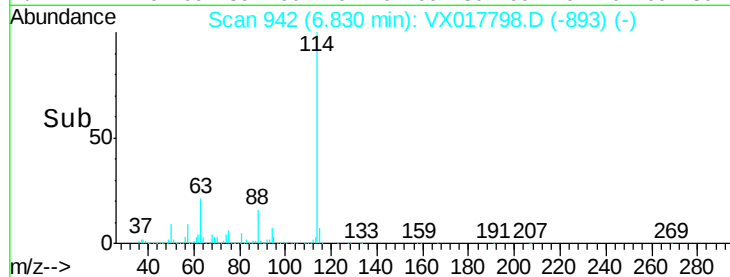
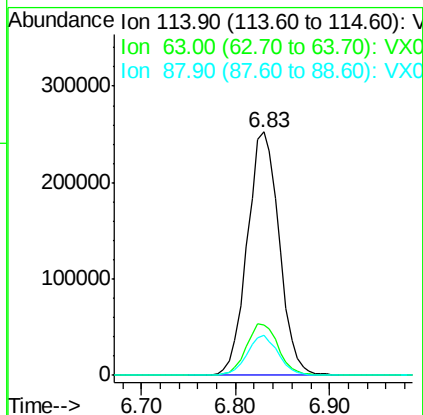
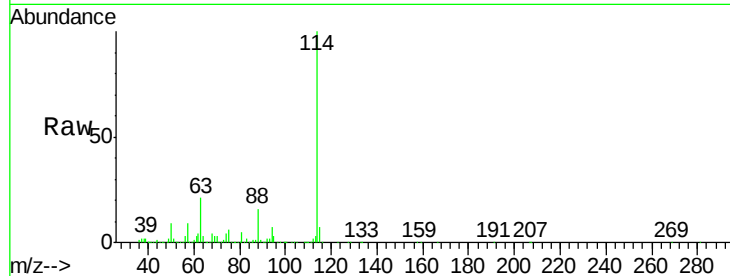
Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

Tgt Ion:	114	Resp:	597887
Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.6
88	16.3	0.0	33.4



#35

Dibromofluoromethane

Concen: 53.052 ug/l

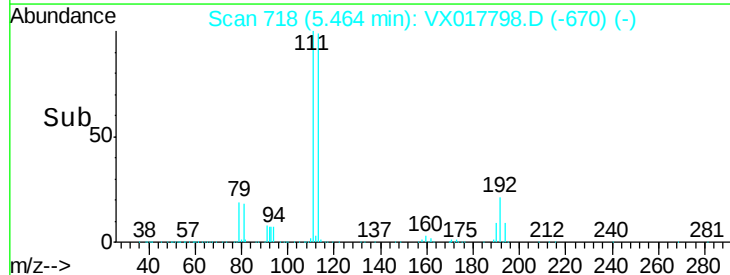
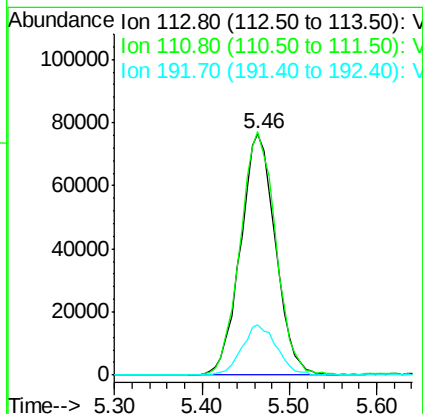
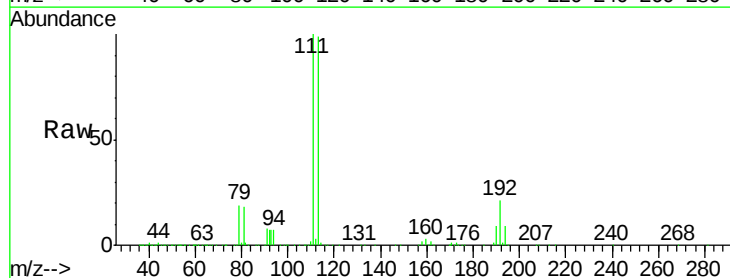
RT: 5.46 min Scan# 718

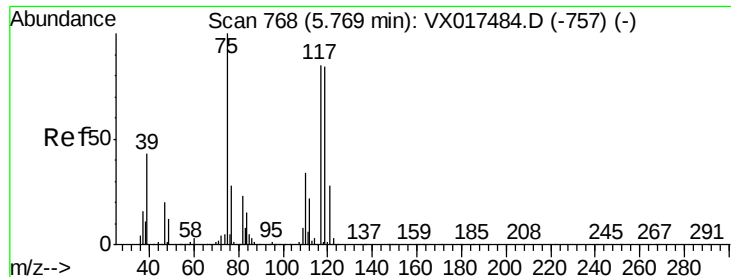
Delta R.T. -0.01 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Tgt Ion:	113	Resp:	212139
Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.7	121.1
192	20.8	16.9	25.3





#36

1,1-Dichloropropene

Concen: 5.671 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

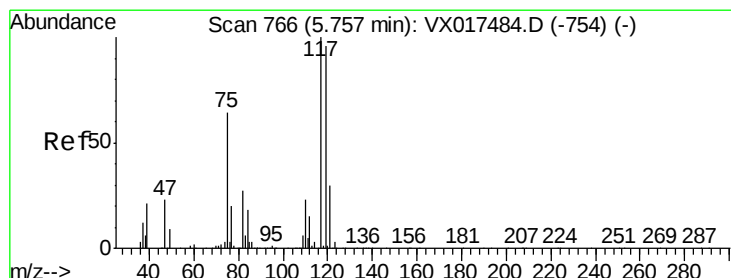
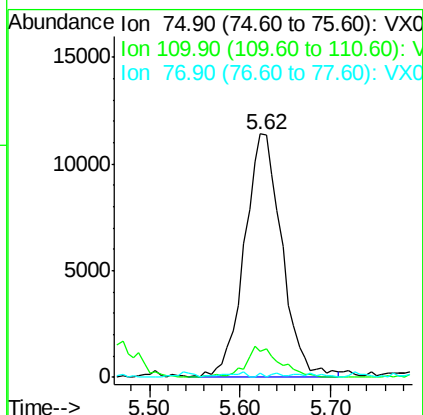
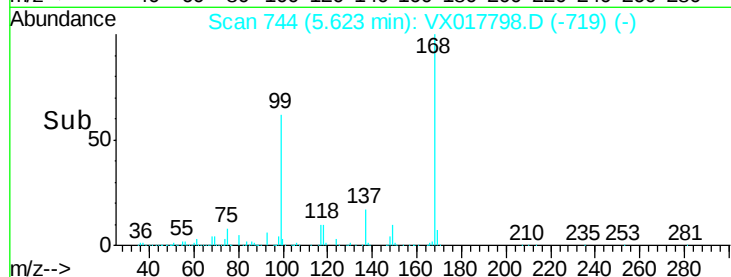
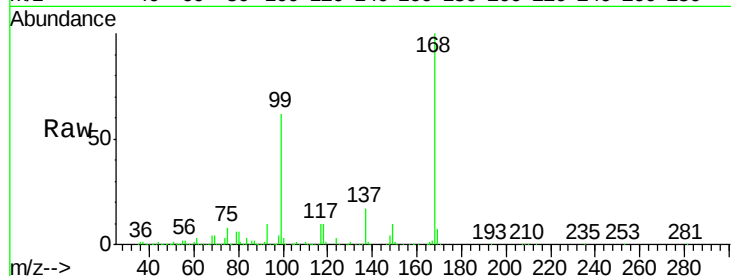
Tgt Ion: 75 Resp: 32521

Ion Ratio Lower Upper

75 100

110 11.3 18.1 54.3#

77 0.2 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.995 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

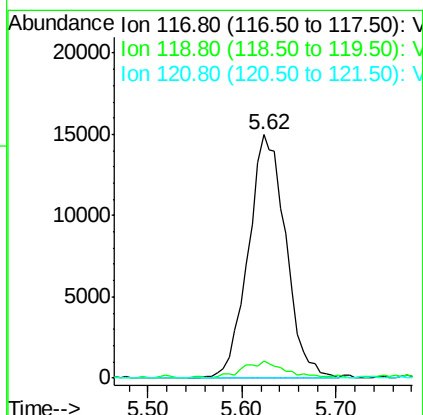
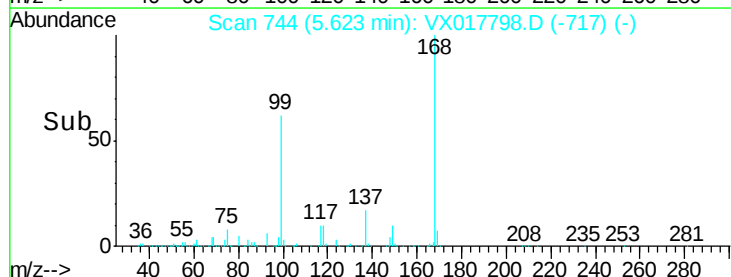
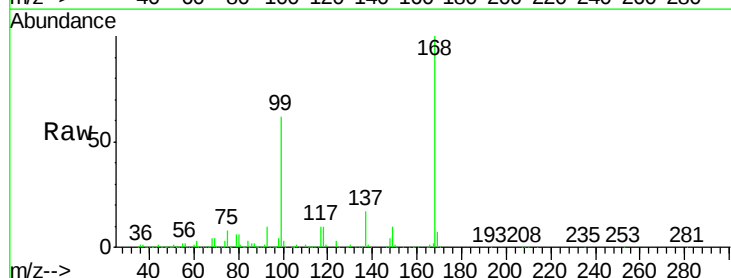
Tgt Ion: 117 Resp: 41747

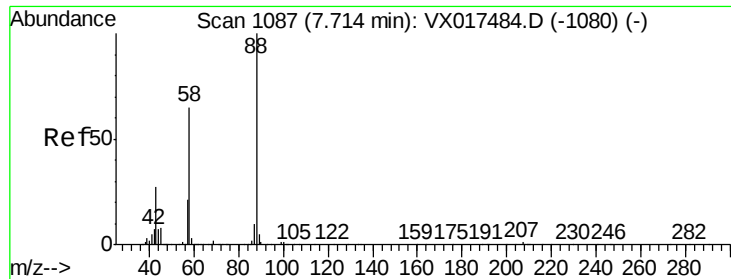
Ion Ratio Lower Upper

117 100

119 7.2 75.4 113.0#

121 0.0 24.3 36.5#





#49

1,4-Dioxane

Concen: 1.413 ug/l

RT: 7.69 min Scan# 1083

Delta R.T. -0.02 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

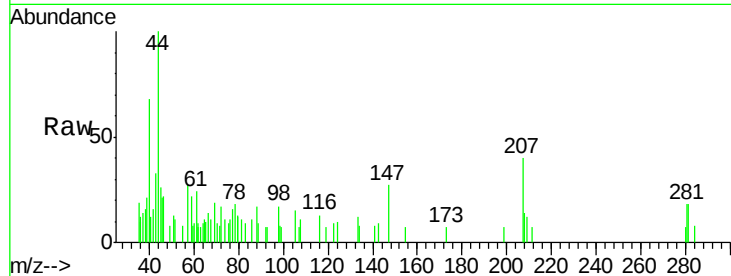
Tgt Ion: 88 Resp: 139

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

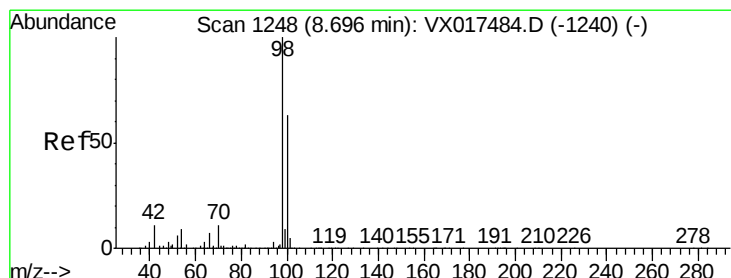
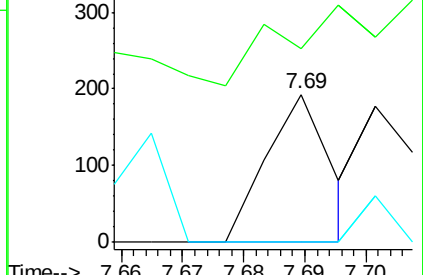
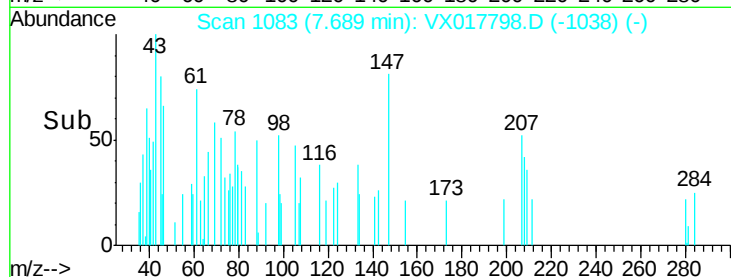
58 0.0 58.3 87.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.816 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017798.D

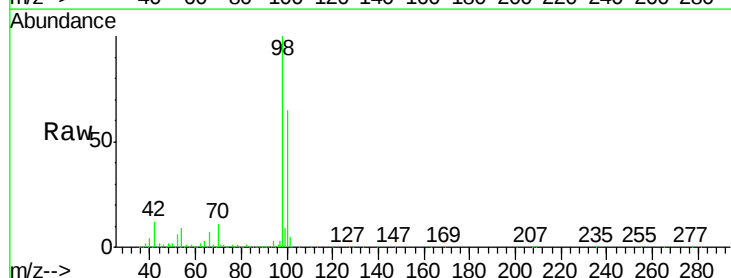
Acq: 06 Aug 2020 10:48

Tgt Ion: 98 Resp: 704186

Ion Ratio Lower Upper

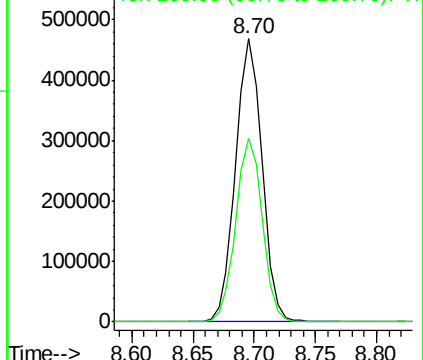
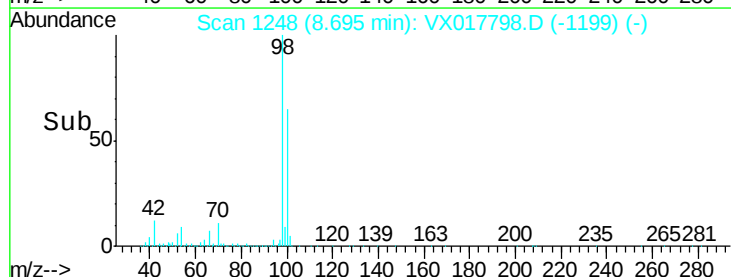
98 100

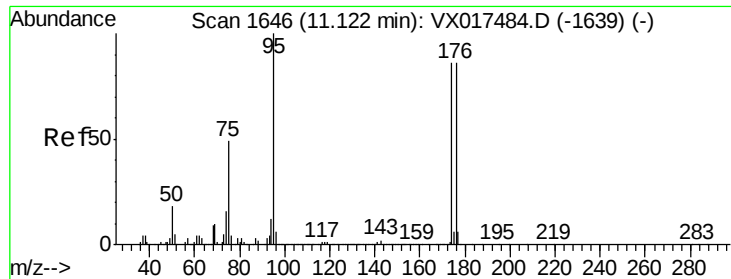
100 64.8 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

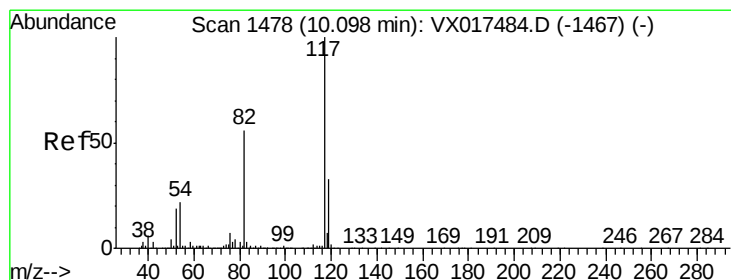
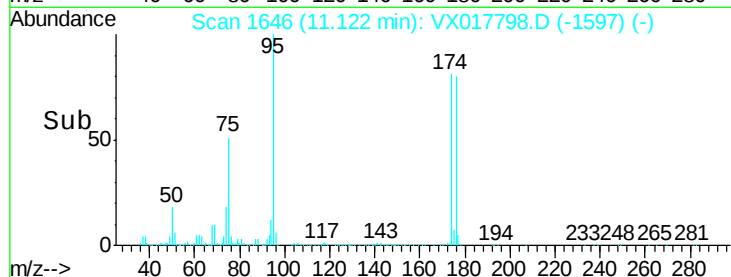
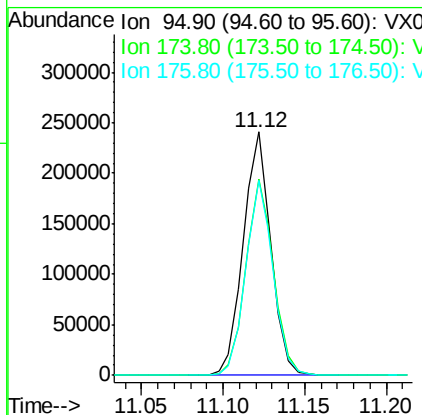
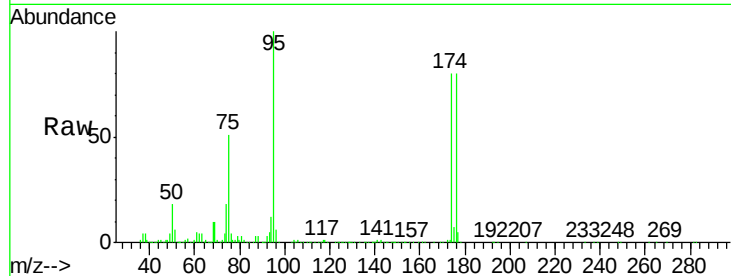




#62
4-Bromofluorobenzene
Concen: 49.183 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017798.D
Acq: 06 Aug 2020 10:48

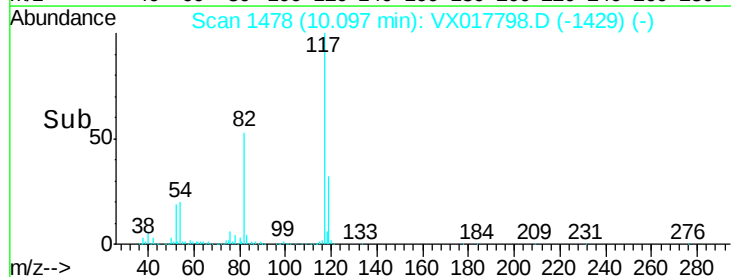
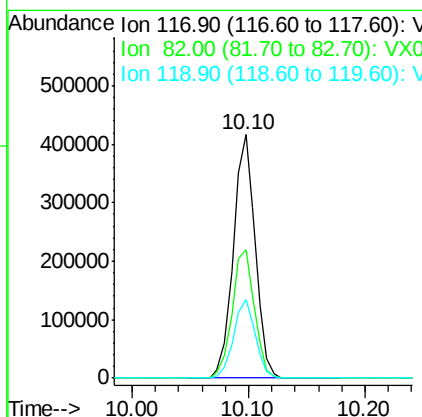
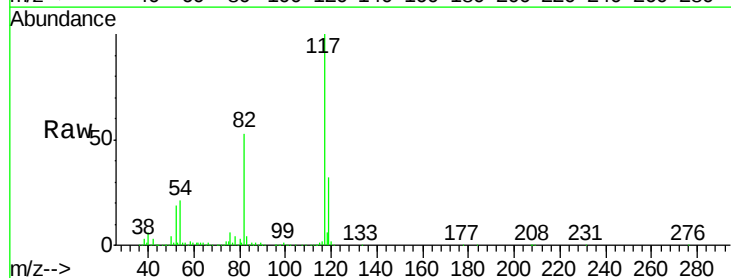
Instrument :
MSVOA_X
ClientSampleId :
VX0806WBL01

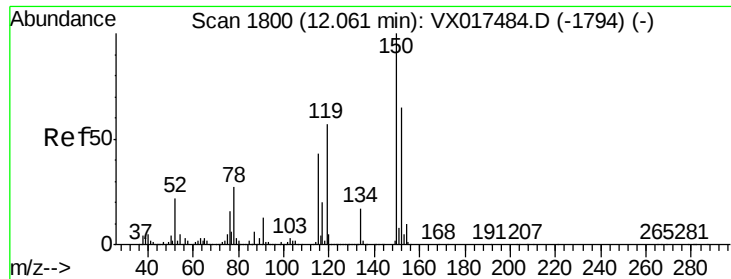
Tgt Ion: 95 Resp: 283932
Ion Ratio Lower Upper
95 100
174 81.3 0.0 169.0
176 79.5 0.0 161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017798.D
Acq: 06 Aug 2020 10:48

Tgt Ion: 117 Resp: 544243
Ion Ratio Lower Upper
117 100
82 52.7 44.0 66.0
119 32.1 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

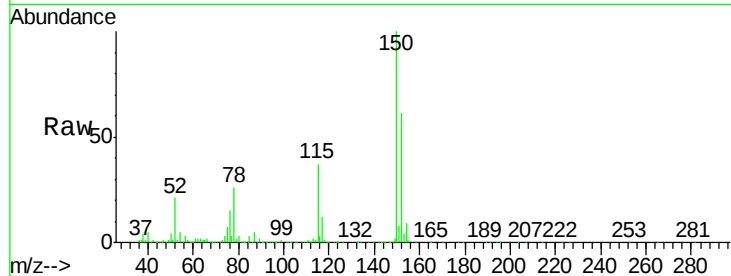
Tgt Ion: 152 Resp: 268460

Ion Ratio Lower Upper

152 100

115 59.2 65.5 196.6#

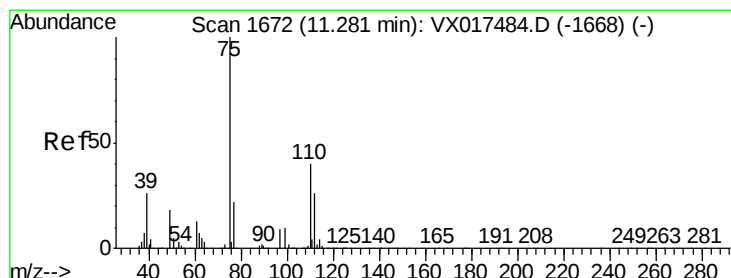
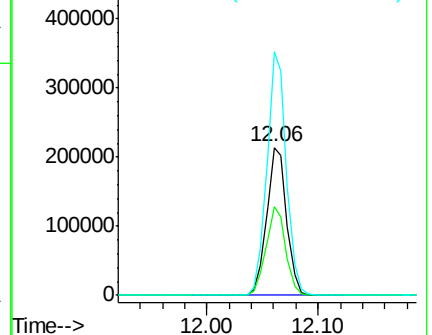
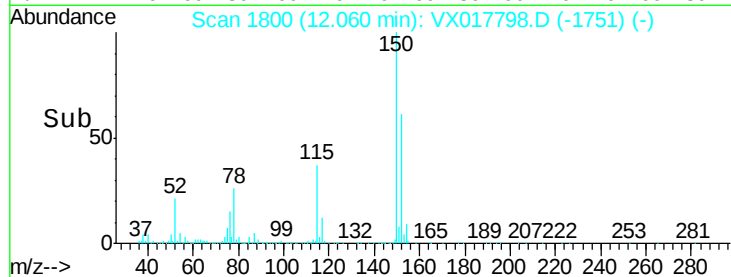
150 160.6 0.0 412.6



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: 26.041 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017798.D

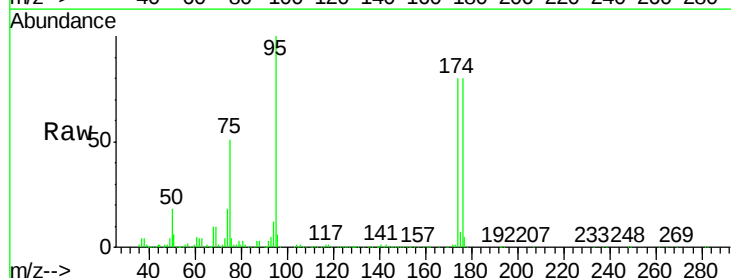
Acq: 06 Aug 2020 10:48

Tgt Ion: 75 Resp: 143807

Ion Ratio Lower Upper

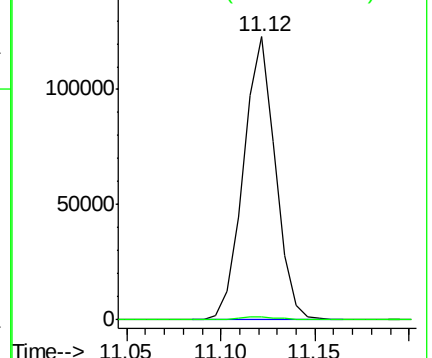
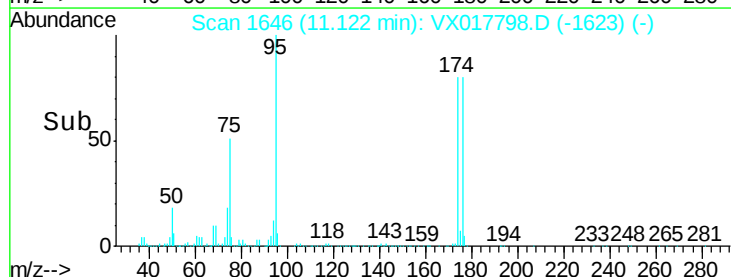
75 100

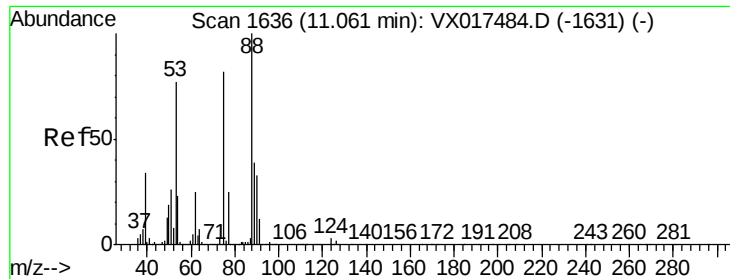
77 1.5 21.8 65.3#



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: 65.617 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

Instrument :

MSVOA_X

ClientSampleId :

VX0806WBL01

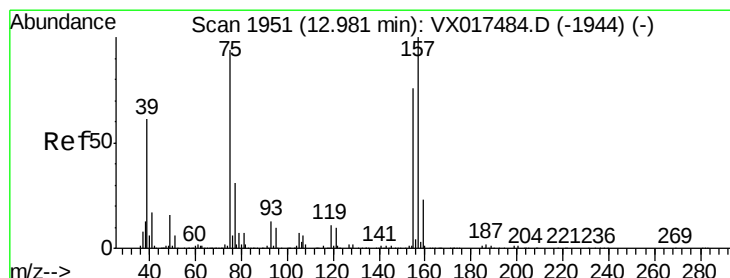
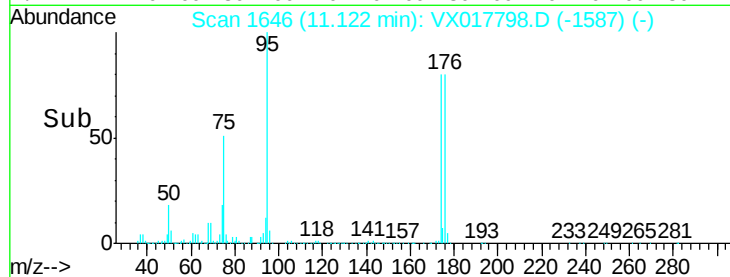
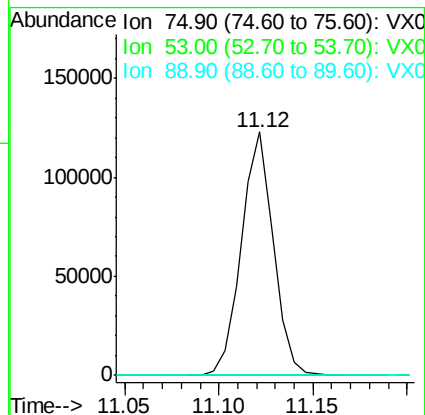
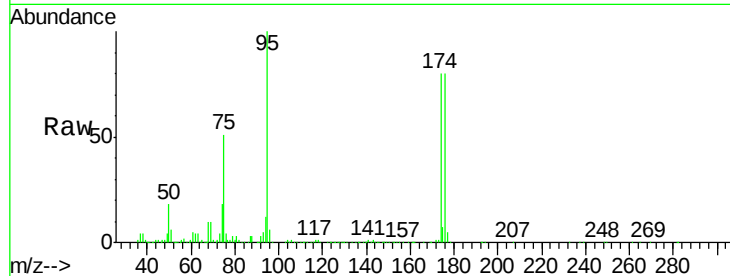
Tgt Ion: 75 Resp: 143807

Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.2 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.666 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017798.D

Acq: 06 Aug 2020 10:48

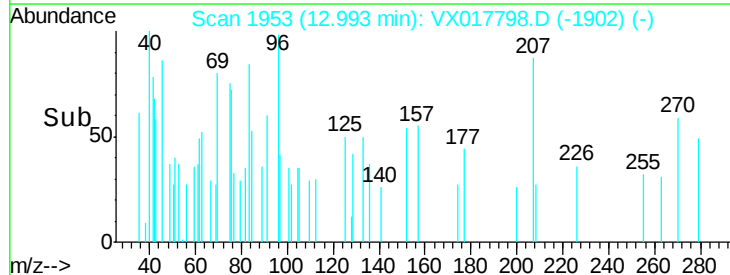
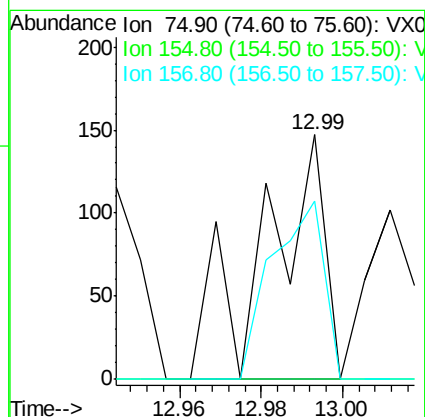
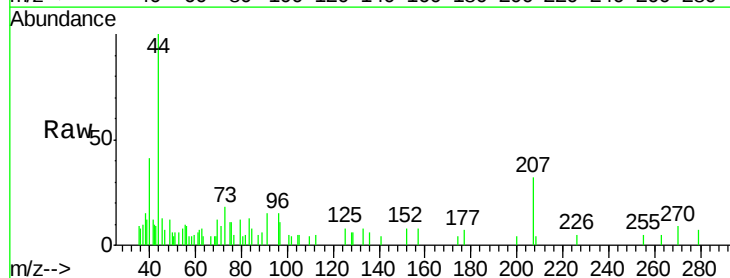
Tgt Ion: 75 Resp: 153

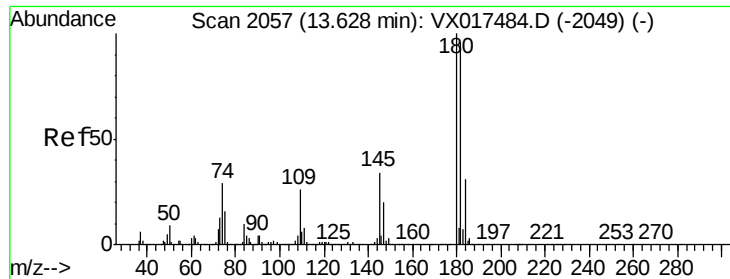
Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 62.7 54.3 162.9

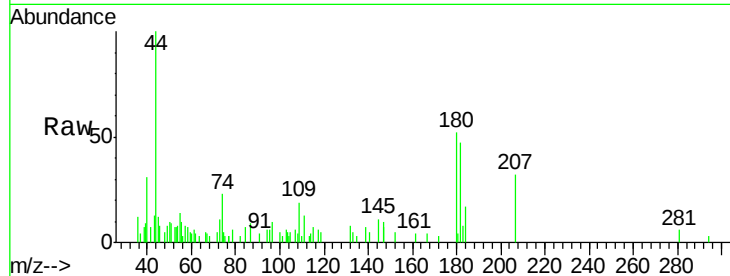




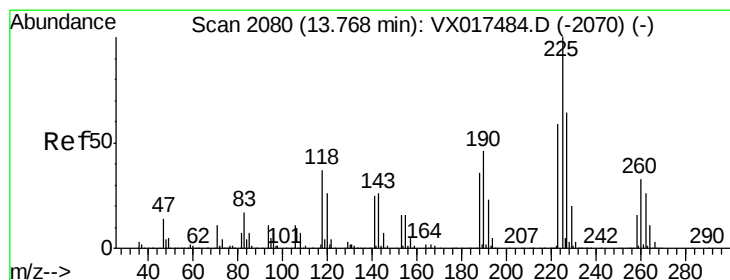
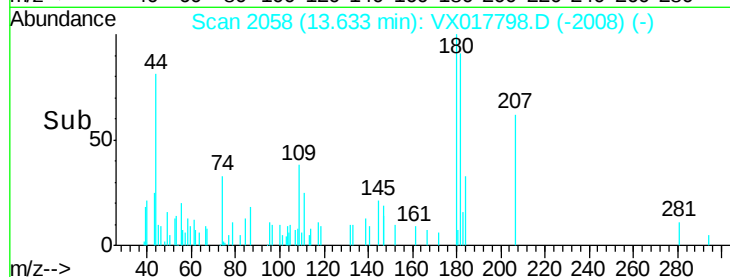
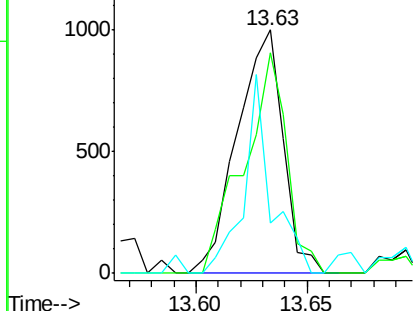
#93
 1,2,4-Trichlorobenzene
 Concen: 0.242 ug/l
 RT: 13.63 min Scan# 2058
 Delta R.T. 0.01 min
 Lab File: VX017798.D
 Acq: 06 Aug 2020 10:48

Instrument :
 MSVOA_X
 ClientSampled :
 VX0806WBL01

Tgt Ion:180 Resp: 1435
 Ion Ratio Lower Upper
 180 100
 182 84.8 47.5 142.6
 145 48.1 15.4 46.4#

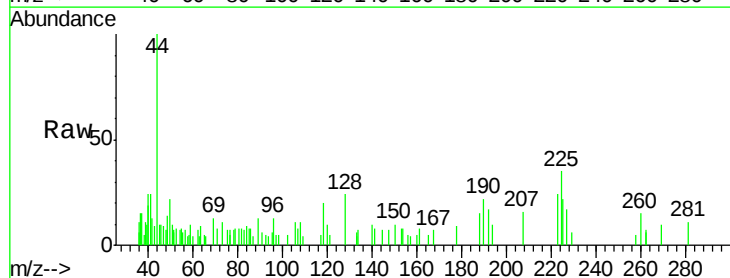


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

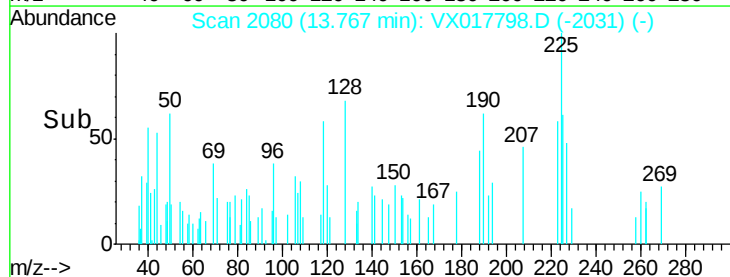
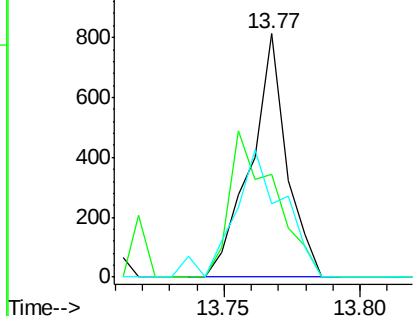


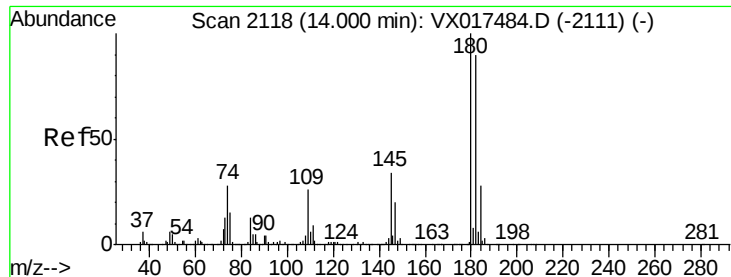
#94
 Hexachlorobutadiene
 Concen: 0.272 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX017798.D
 Acq: 06 Aug 2020 10:48

Tgt Ion:225 Resp: 743
 Ion Ratio Lower Upper
 225 100
 223 75.0 30.3 90.9
 227 72.1 31.1 93.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.261 ug/l
 RT: 14.01 min Scan# 2120
 Delta R.T. 0.01 min
 Lab File: VX017798.D
 Acq: 06 Aug 2020 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0806WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	79.4	47.4	142.3
145	32.8	16.3	48.9

