

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017580.D
 Acq On : 25 Jul 2020 08:47
 Operator : JC/SP
 Sample : L3382-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:08:46 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	430608	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	719711	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	821064	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	455375	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	313020	56.59	ug/l	0.00
Spiked Amount			Recovery	=	113.18%	
35) Dibromofluoromethane	5.47	113	261404	54.31	ug/l	0.00
Spiked Amount			Recovery	=	108.62%	
50) Toluene-d8	8.70	98	967012	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	
62) 4-Bromofluorobenzene	11.12	95	410108	59.01	ug/l	0.00
Spiked Amount			Recovery	=	118.02%	

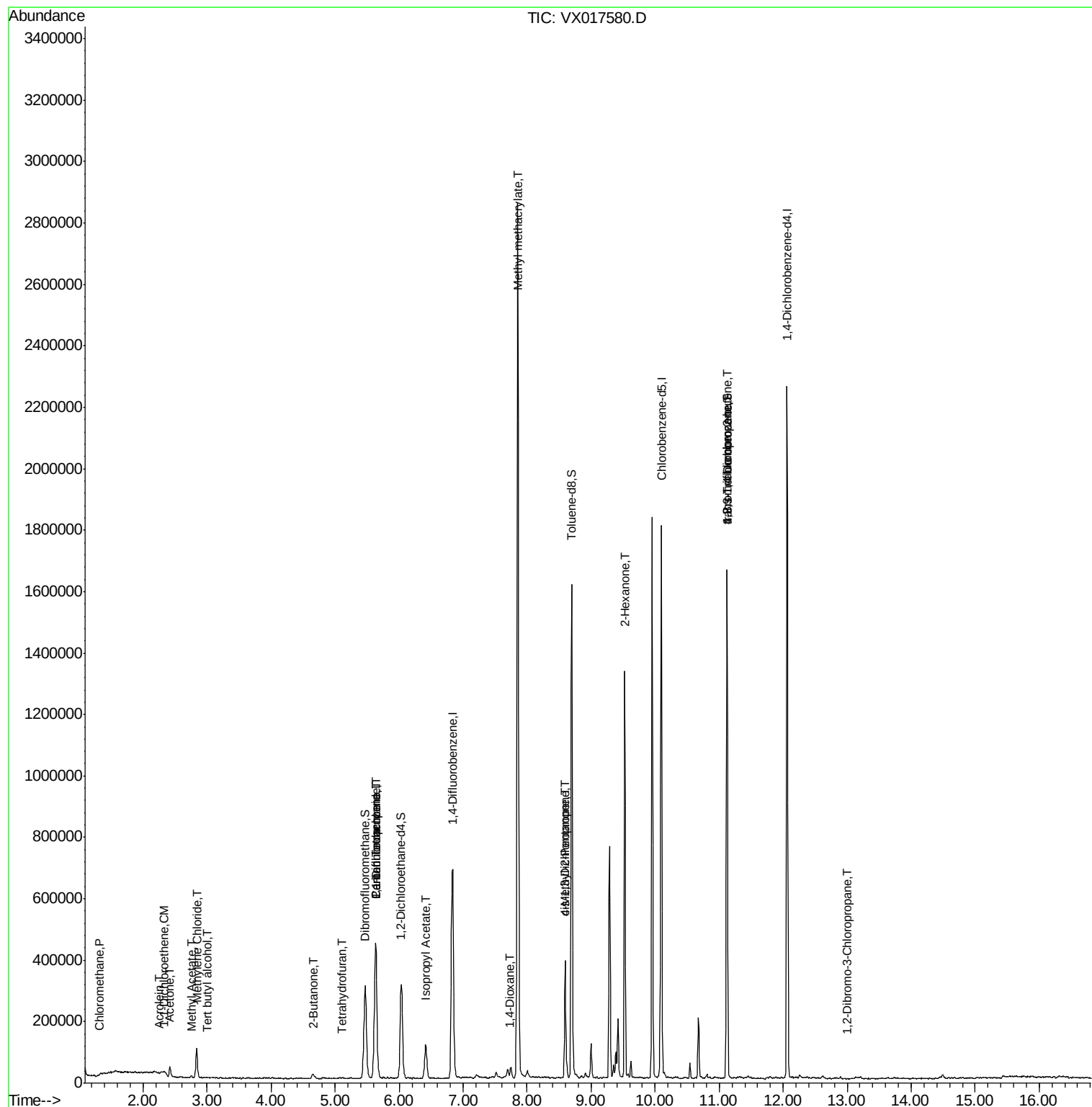
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	479	Below Cal	#	42
3) Chloromethane	1.31	50	1595	0.664	ug/l #	42
5) Bromomethane	1.62	94	597	Below Cal	#	25
6) Chloroethane	1.72	64	571	Below Cal	#	1
8) Diethyl Ether	2.18	74	1388	Below Cal		93
11) Tert butyl alcohol	3.01	59	2378	2.040	ug/l #	86
12) 1,1-Dichloroethene	2.34	96	1017	0.229	ug/l #	8
13) Acrolein	2.26	56	205	4.375	ug/l #	69
16) Acetone	2.42	43	33984	13.959	ug/l	98
18) Methyl Acetate	2.76	43	8007	1.396	ug/l #	84
20) Methylene Chloride	2.84	84	44595	8.664	ug/l	96
25) 2-Butanone	4.66	43	6088	1.760	ug/l #	61
29) Tetrahydrofuran	5.10	42	2586	1.207	ug/l #	75
36) 1,1-Dichloropropene	5.63	75	32335	4.684	ug/l #	51
38) Carbon Tetrachloride	5.64	117	43313	5.167	ug/l #	16
43) Isopropyl Acetate	6.42	43	150535	12.080	ug/l	99
48) Methyl methacrylate	7.85	41	235603	38.142	ug/l #	45
49) 1,4-Dioxane	7.73	88	249	2.103	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	136685	18.384	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	60050	6.742	ug/l #	58
59) 2-Hexanone	9.52	43	140754	25.144	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	208991	22.311	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	208991	56.218	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	136	2.623	ug/l #	19

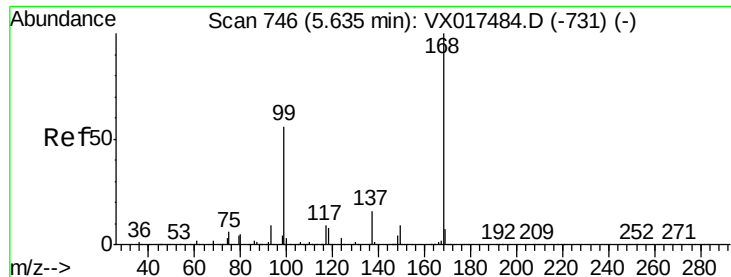
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

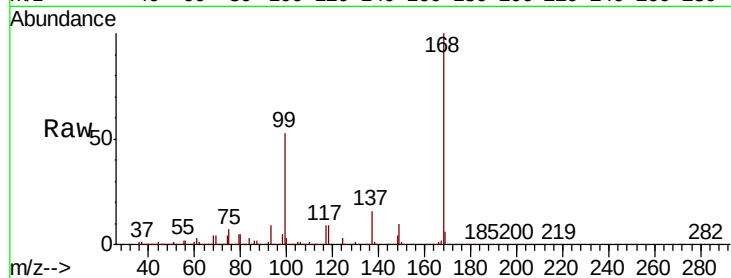
ClientSampleId :

Tot Ion:168 Resp: 430608

Ion Ratio Lower Upper

168 100

99 53.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): VX017484.D (-731) (-)

Ion 98.90 (98.60 to 99.60): VX017484.D (-731) (-)

5.63

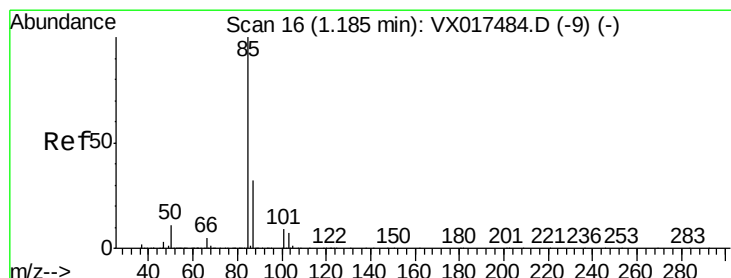
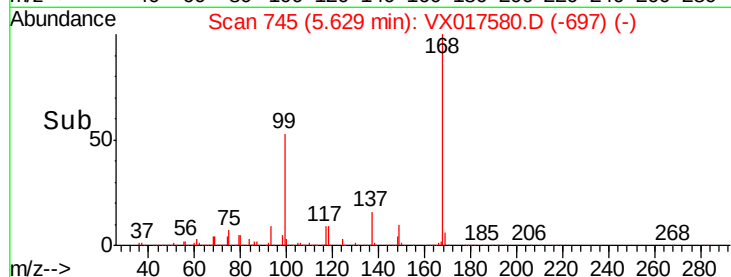
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017580.D

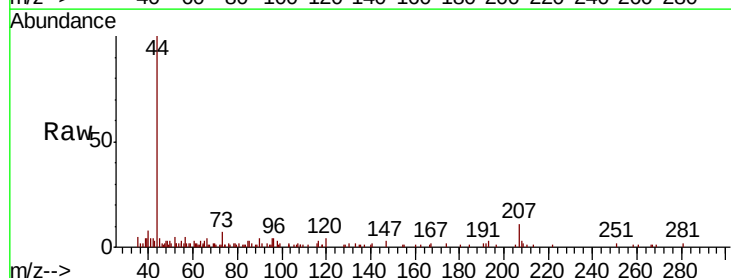
Acq: 25 Jul 2020 08:47

Tgt Ion: 85 Resp: 479

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX017484.D (-9) (-)

Ion 86.90 (86.60 to 87.60): VX017484.D (-9) (-)

1.18

400

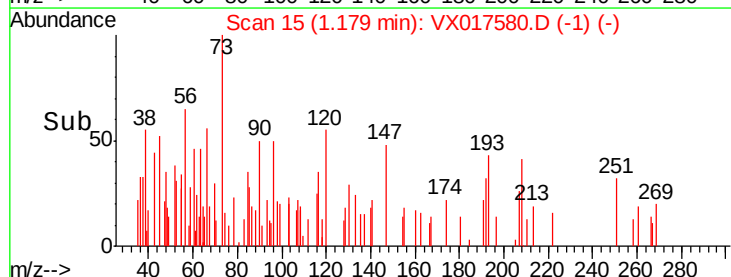
300

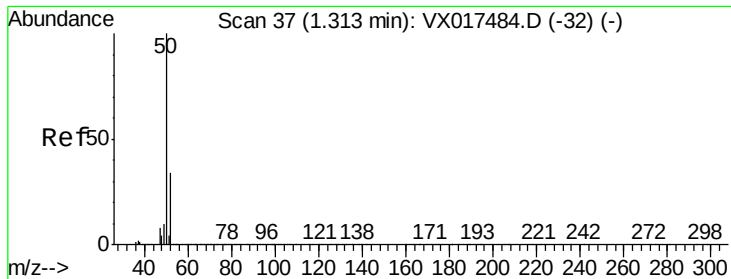
200

100

0

Time-->





#3

Chloromethane

Concen: 0.664 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

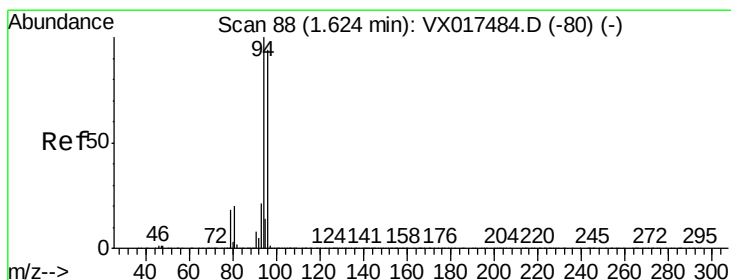
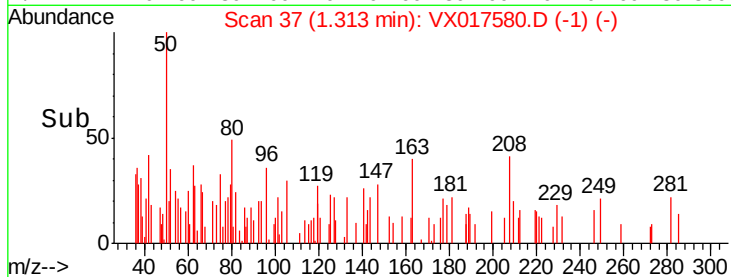
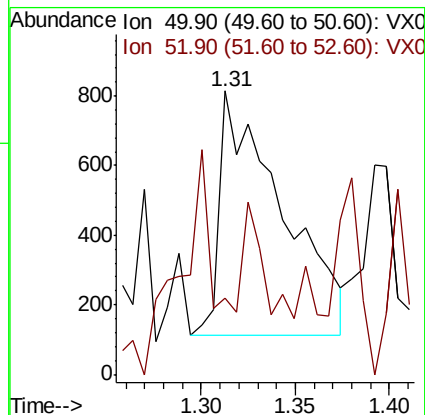
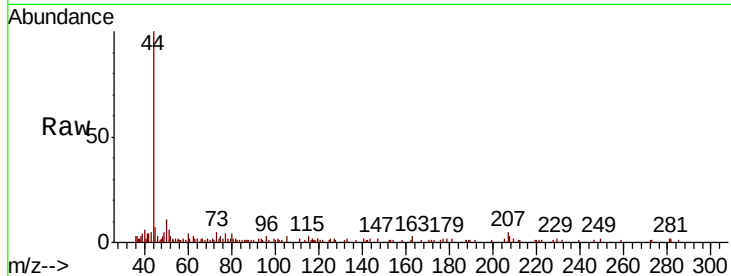
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 1595

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX017580.D

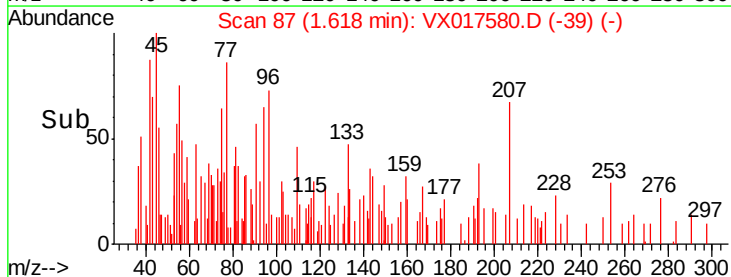
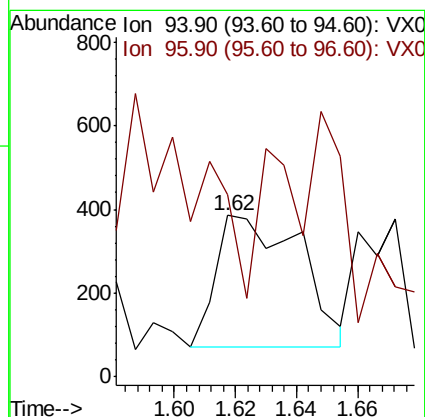
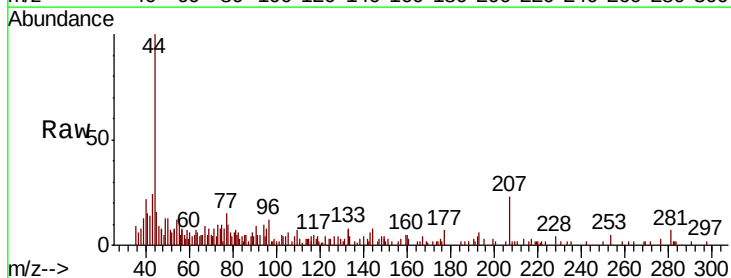
Acq: 25 Jul 2020 08:47

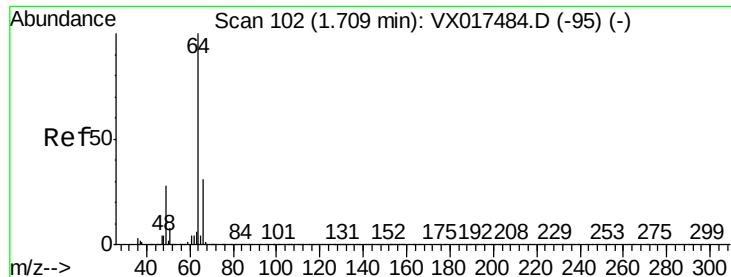
Tgt Ion: 94 Resp: 597

Ion Ratio Lower Upper

94 100

96 21.0 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

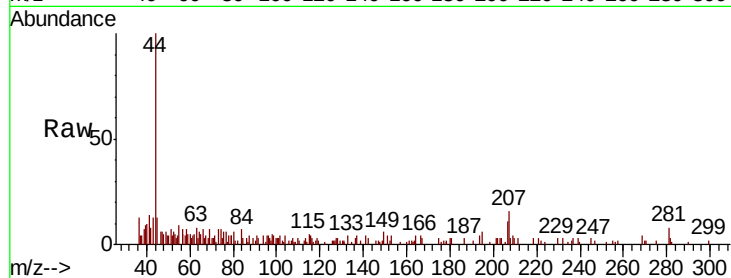
ClientSampled :

Tot Ion: 64 Resp: 571

Ion Ratio Lower Upper

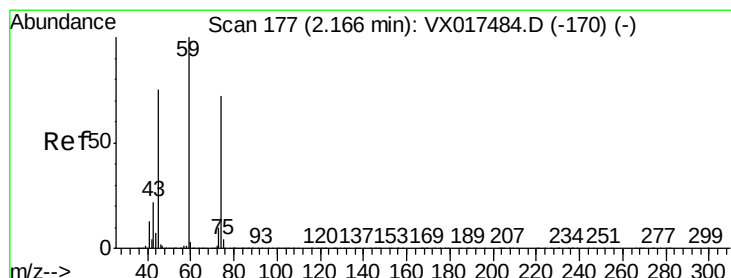
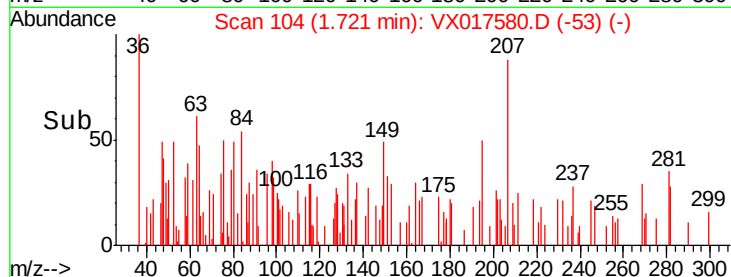
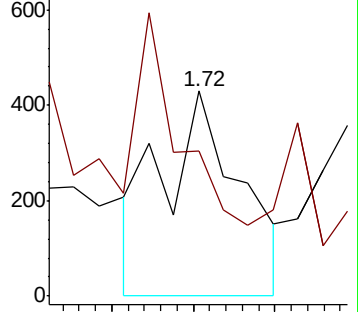
64 100

66 92.1 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX017580.D

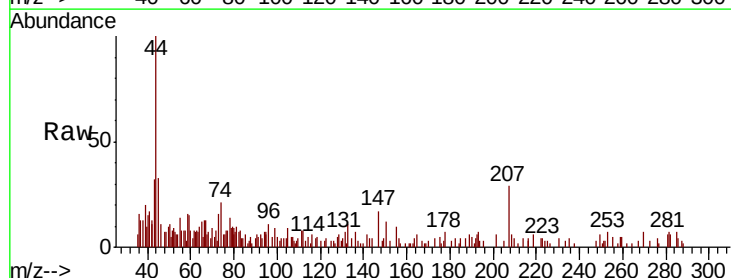
Acq: 25 Jul 2020 08:47

Tgt Ion: 74 Resp: 1388

Ion Ratio Lower Upper

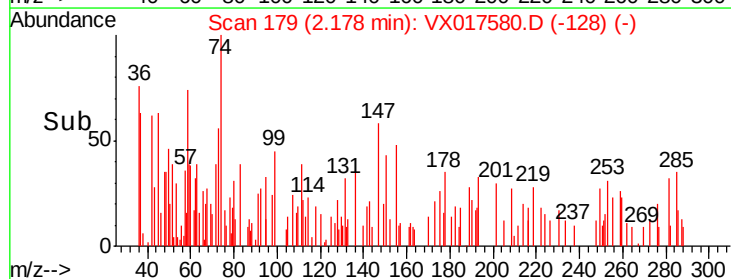
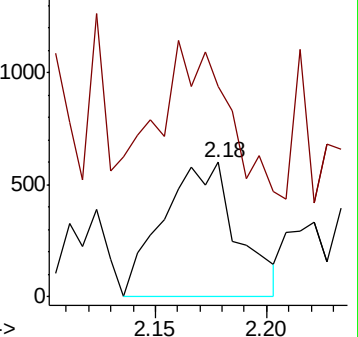
74 100

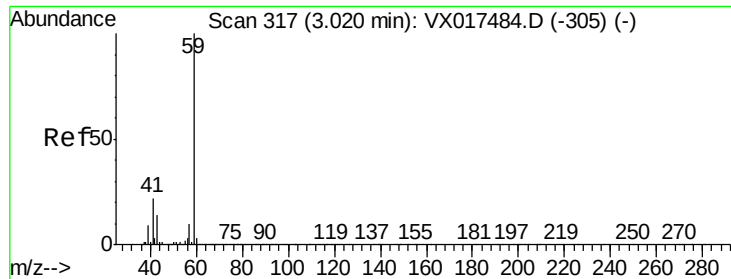
45 95.0 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



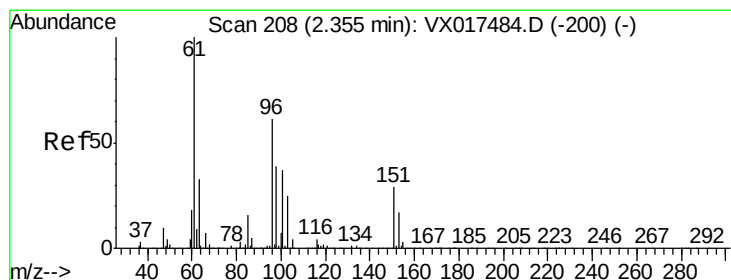
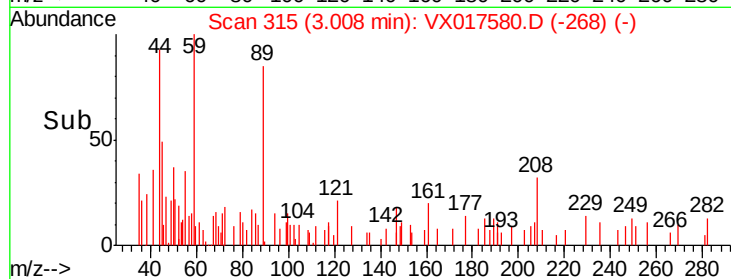
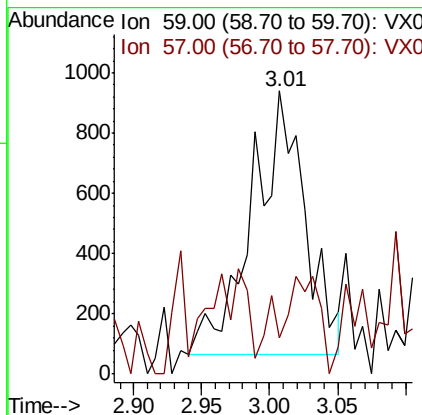
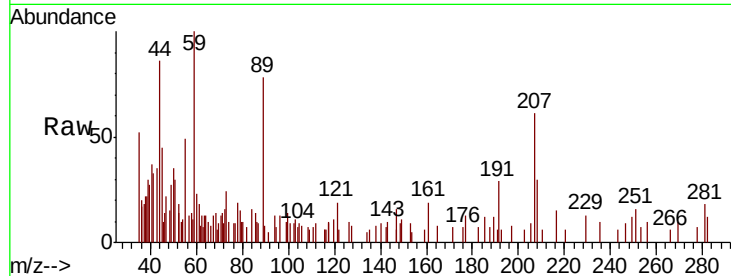


#11

Tert butyl alcohol
Concen: 2.040 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

Instrument :
MSVOA_X
ClientSampled :

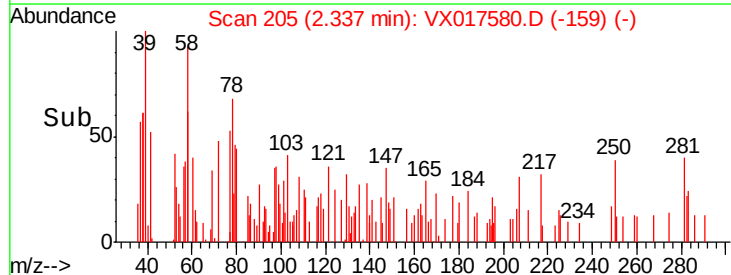
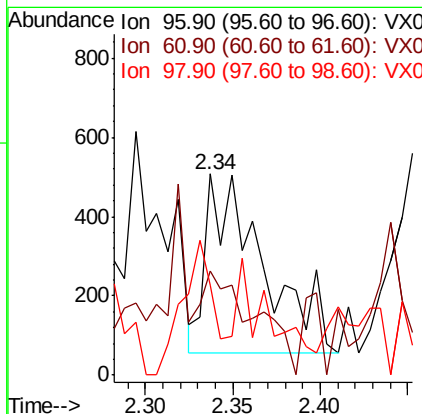
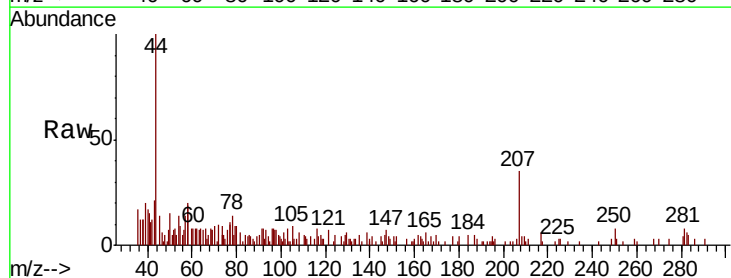
Tot Ion: 59 Resp: 2378
Ion Ratio Lower Upper
59 100
57 5.4 8.6 12.8#

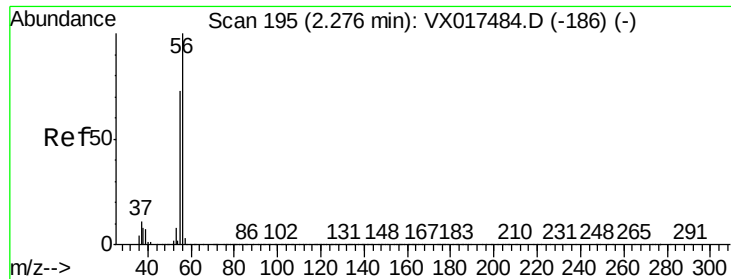


#12

1,1-Dichloroethene
Concen: 0.229 ug/l
RT: 2.34 min Scan# 205
Delta R.T. -0.02 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

Tgt Ion: 96 Resp: 1017
Ion Ratio Lower Upper
96 100
61 28.4 134.0 201.0#
98 12.2 51.0 76.4#

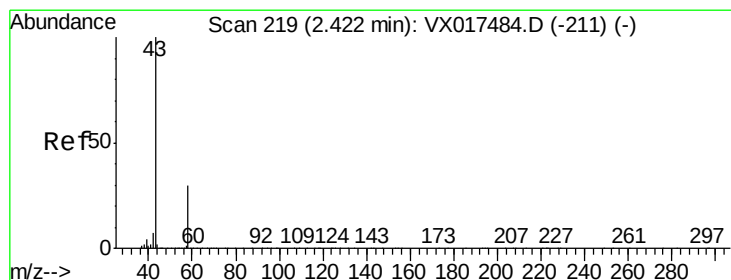
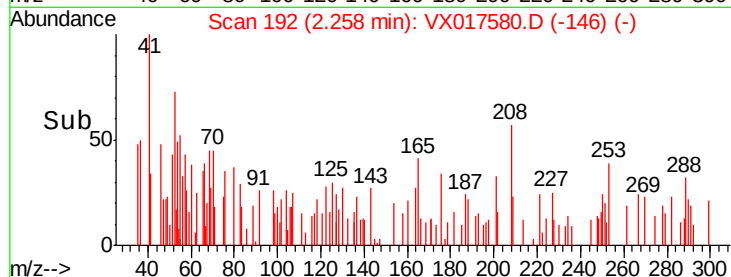
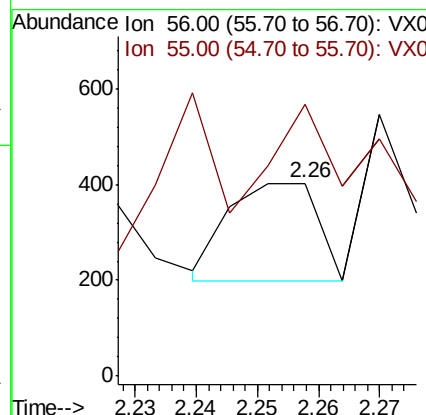
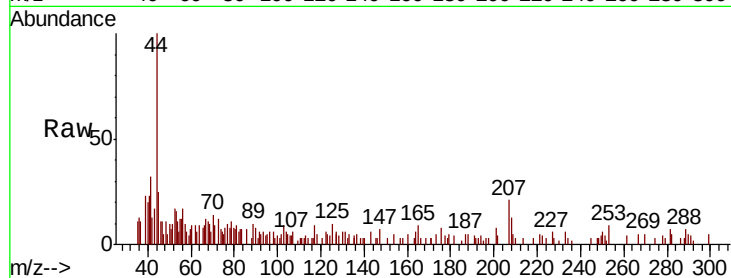




#13
Acrolein
Concen: 4.375 ug/l
RT: 2.26 min Scan# 192
Delta R.T. -0.02 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

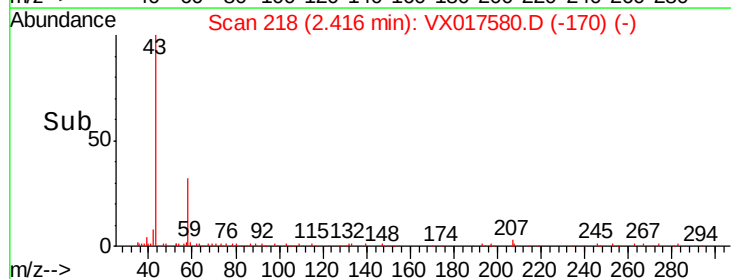
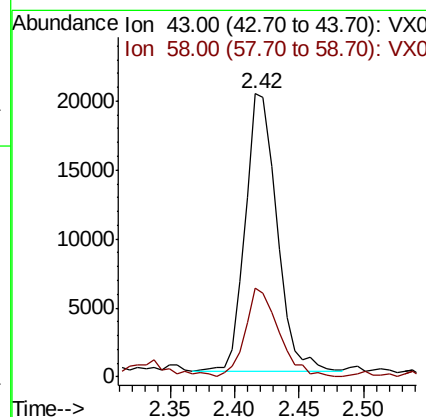
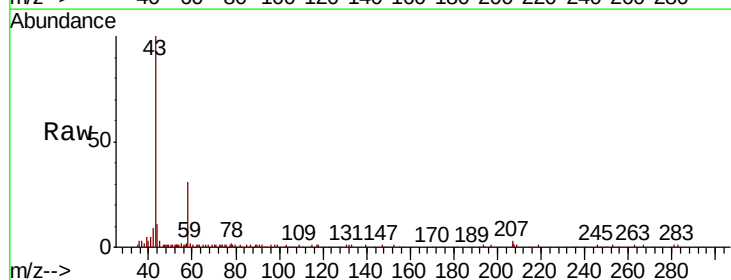
Instrument :
MSVOA_X
ClientSampleId :

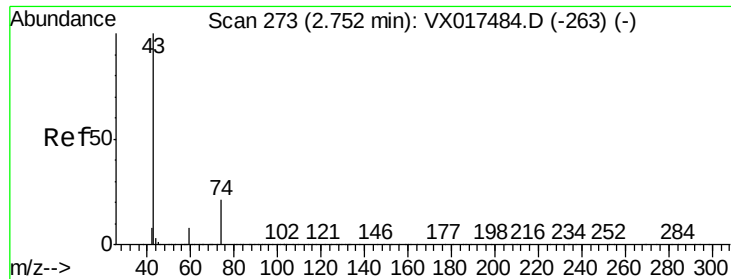
Tot Ion: 56 Resp: 205
Ion Ratio Lower Upper
56 100
55 97.6 57.4 86.2#



#16
Acetone
Concen: 13.959 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

Tgt Ion: 43 Resp: 33984
Ion Ratio Lower Upper
43 100
58 31.5 24.2 36.4

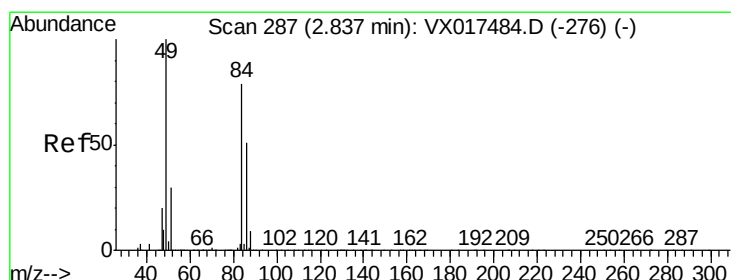
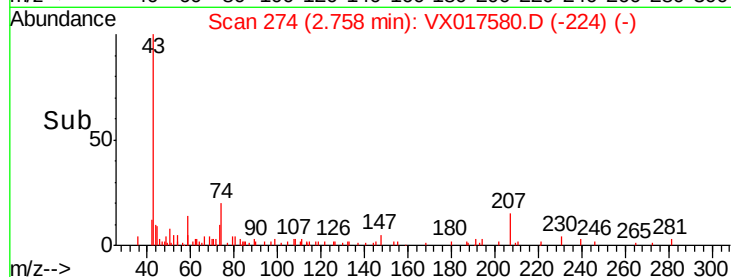
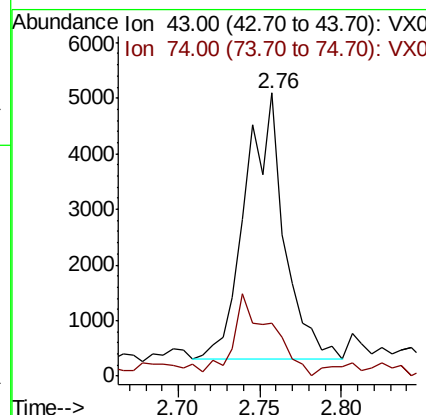
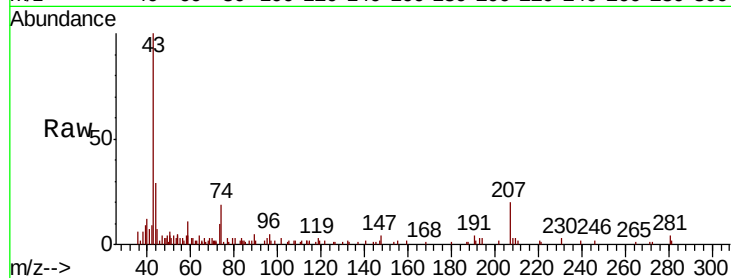




#18
Methvl Acetate
Concen: 1.396 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

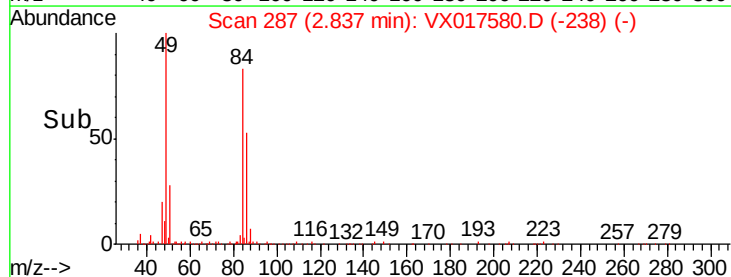
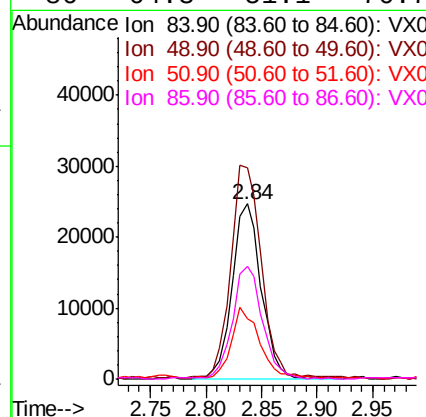
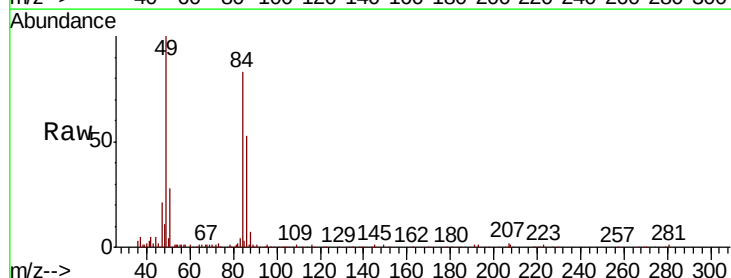
Instrument :
MSVOA_X
ClientSampleId :

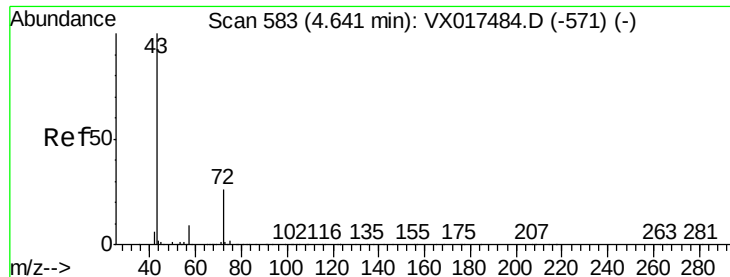
Tot Ion: 43 Resp: 8007
Ion Ratio Lower Upper
43 100
74 29.7 17.5 26.3#



#20
Methylene Chloride
Concen: 8.664 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

Tgt Ion: 84 Resp: 44595
Ion Ratio Lower Upper
84 100
49 120.1 100.3 150.5
51 33.5 30.5 45.7
86 64.3 51.1 76.7





#25

2-Butanone

Concen: 1.760 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

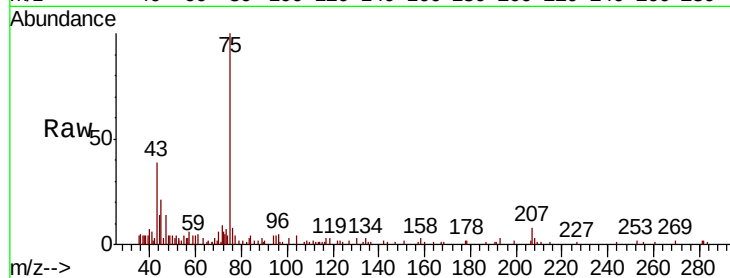
ClientSampleId :

Tot Ion: 43 Resp: 6088

Ion Ratio Lower Upper

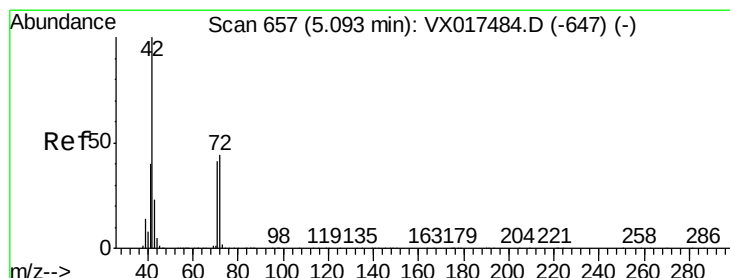
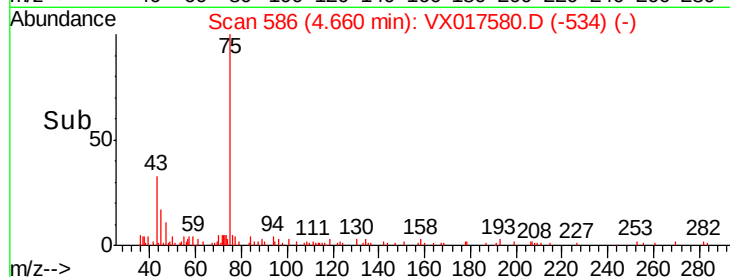
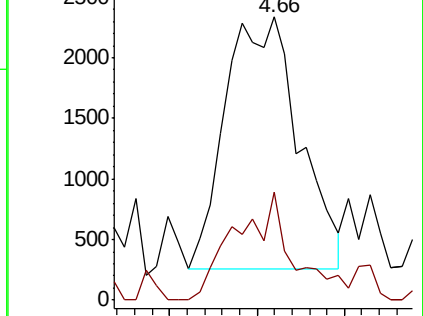
43 100

72 42.9 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.207 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

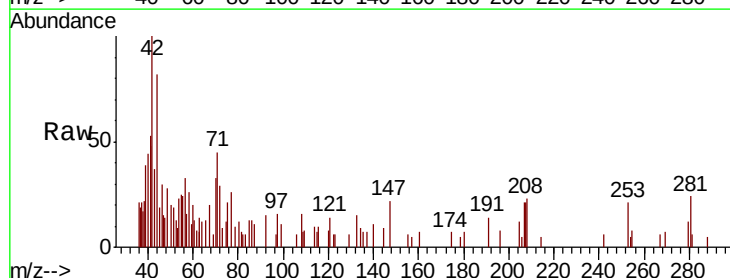
Tgt Ion: 42 Resp: 2586

Ion Ratio Lower Upper

42 100

72 32.6 35.5 53.3#

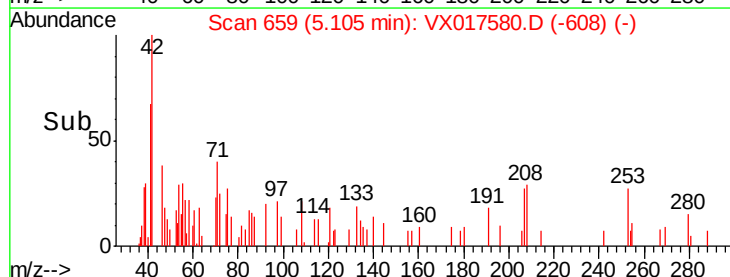
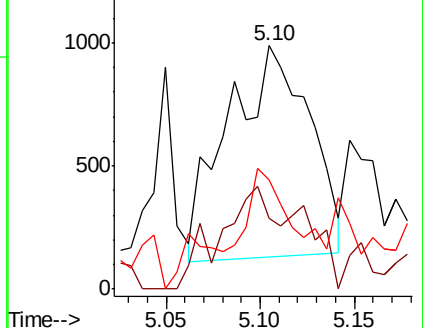
71 20.8 33.0 49.4#

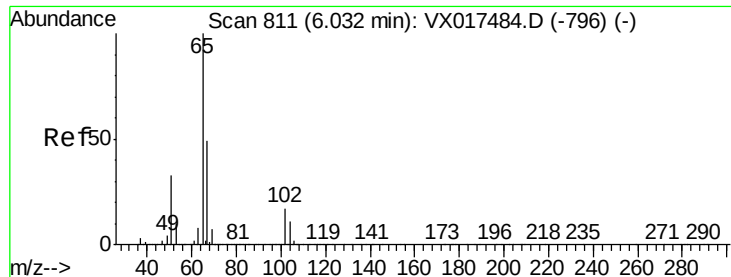


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

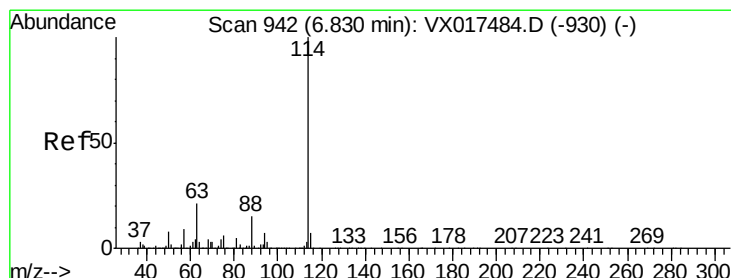
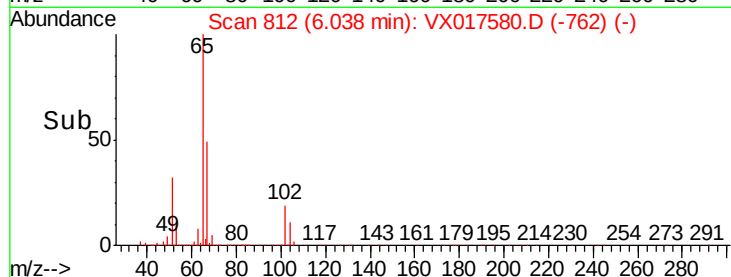
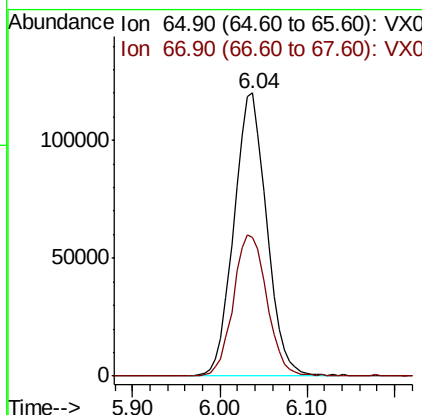
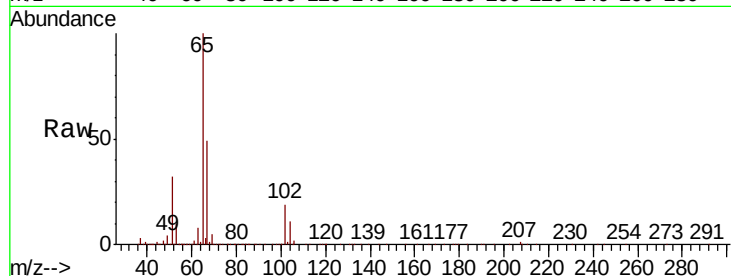




#33
 1,2-Dichloroethane-d4
 Concen: 56.590 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017580.D
 Acq: 25 Jul 2020 08:47

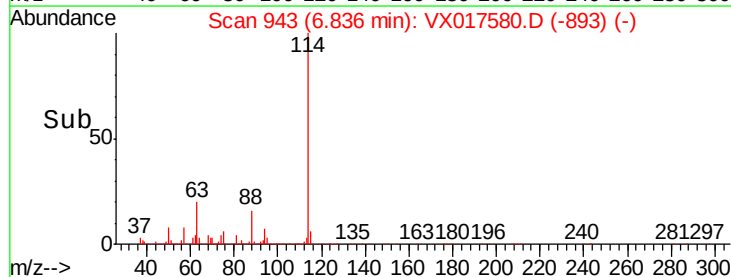
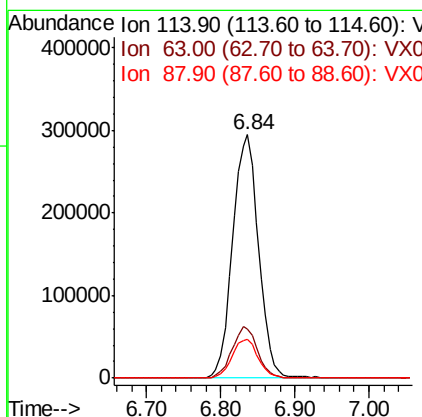
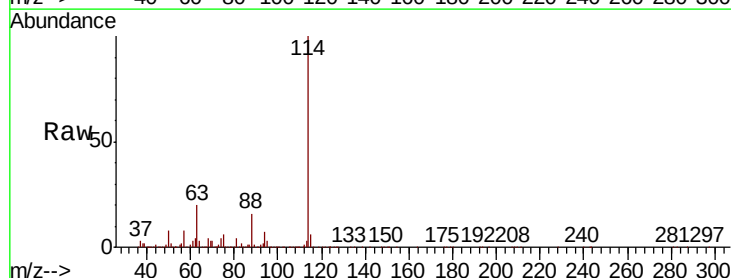
Instrument :
 MSVOA_X
 ClientSampleId :

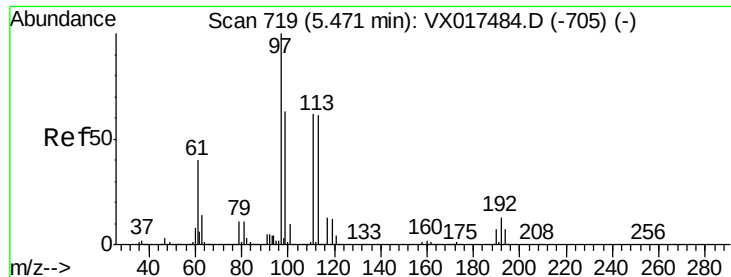
Tot Ion: 65 Resp: 313020
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017580.D
 Acq: 25 Jul 2020 08:47

Tgt Ion: 114 Resp: 719711
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.6
 88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 54.307 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

ClientSampleId :

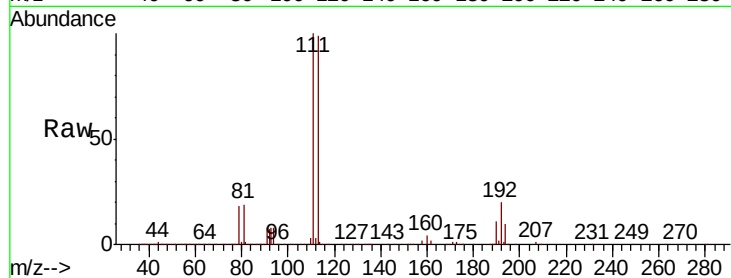
Tot Ion:113 Resp: 261404

Ion Ratio Lower Upper

113 100

111 101.6 80.7 121.1

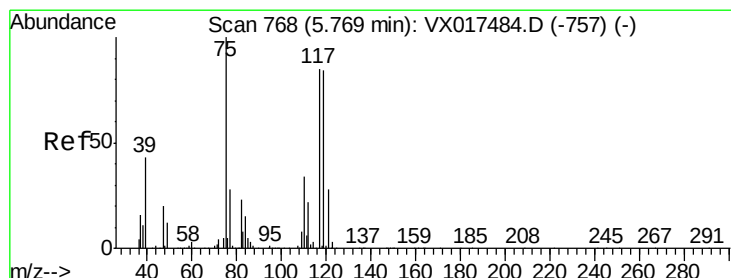
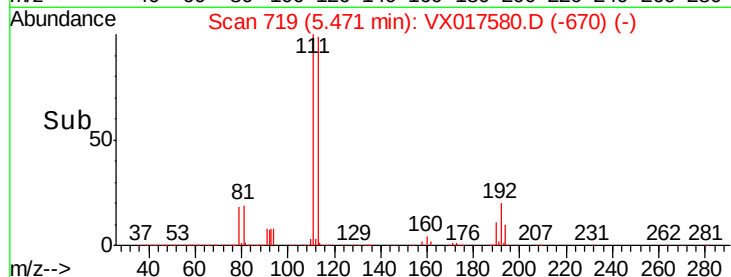
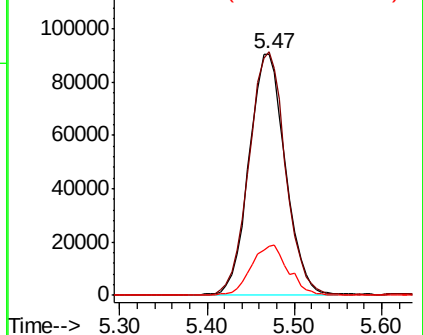
192 21.1 16.9 25.3



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: 4.684 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

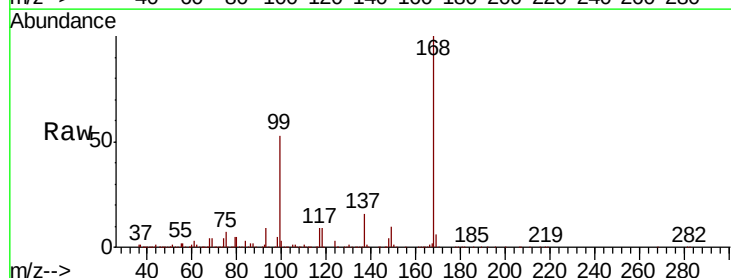
Tgt Ion: 75 Resp: 32335

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.3#

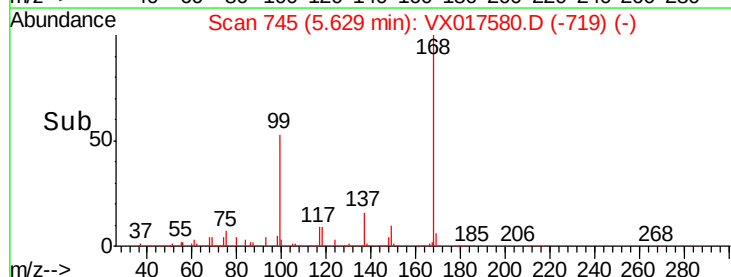
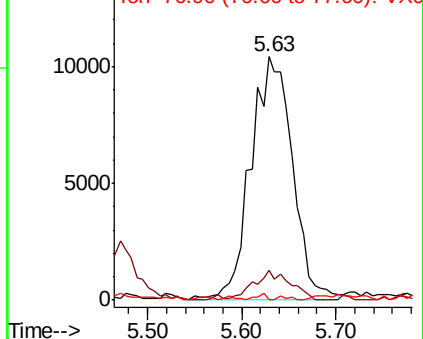
77 0.6 24.6 37.0#

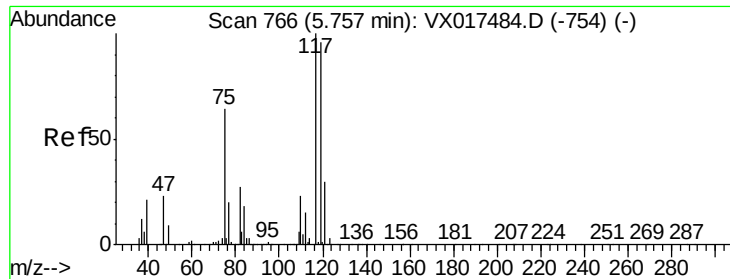


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.167 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

ClientSampleId :

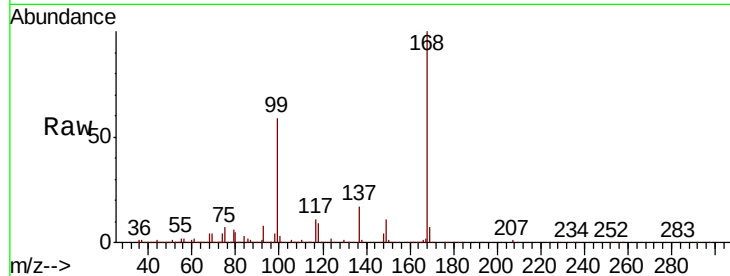
Tot Ion:117 Resp: 43313

Ion Ratio Lower Upper

117 100

119 4.2 75.4 113.0#

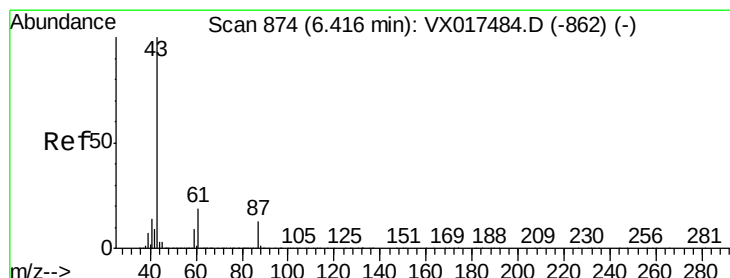
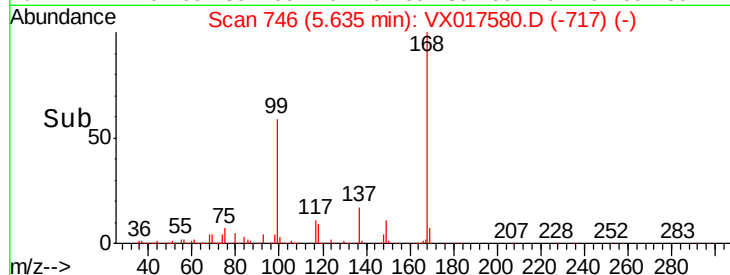
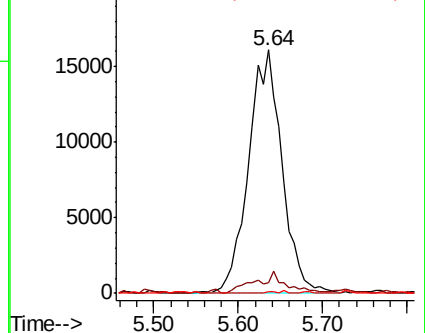
121 0.4 24.3 36.5#



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



#43

Isopropyl Acetate

Concen: 12.080 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

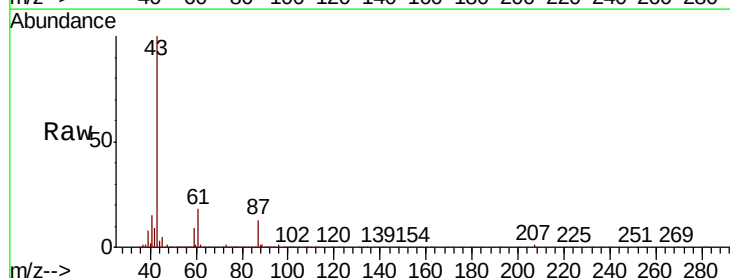
Tgt Ion: 43 Resp: 150535

Ion Ratio Lower Upper

43 100

61 19.2 15.5 23.3

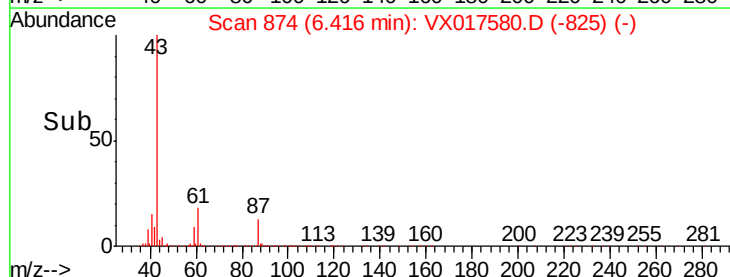
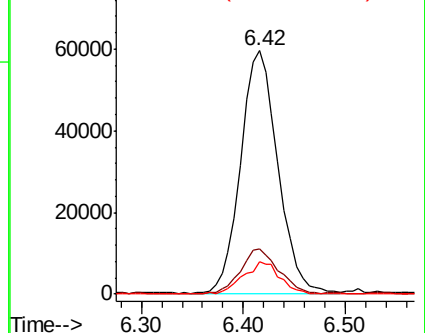
87 12.9 10.5 15.7

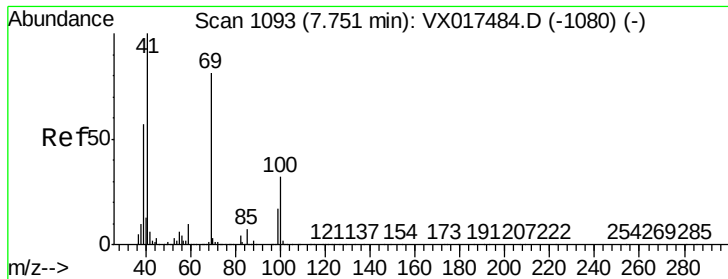


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 38.142 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

ClientSampleId :

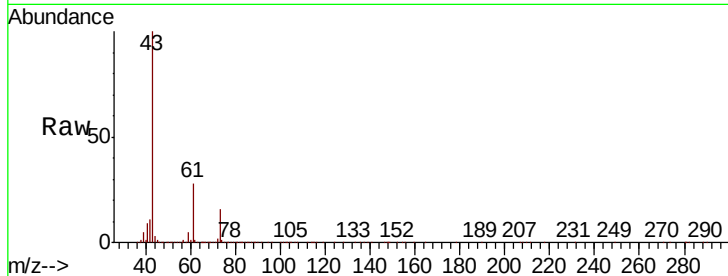
Tot Ion: 41 Resp: 235603

Ion Ratio Lower Upper

41 100

69 0.3 63.1 94.7#

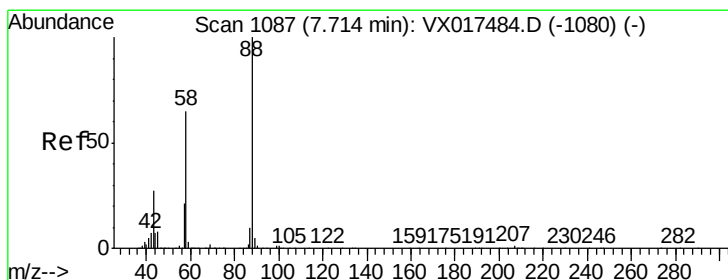
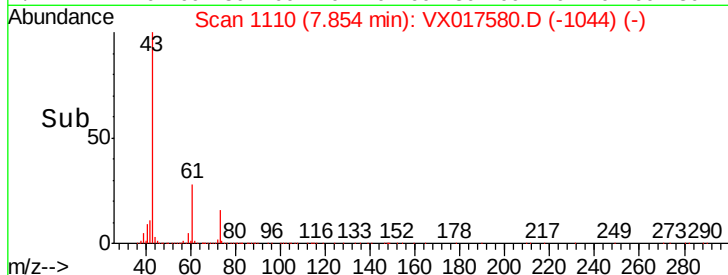
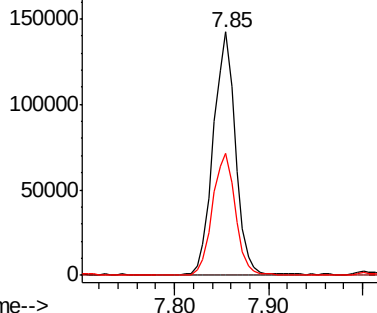
39 51.3 45.1 67.7



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 2.103 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

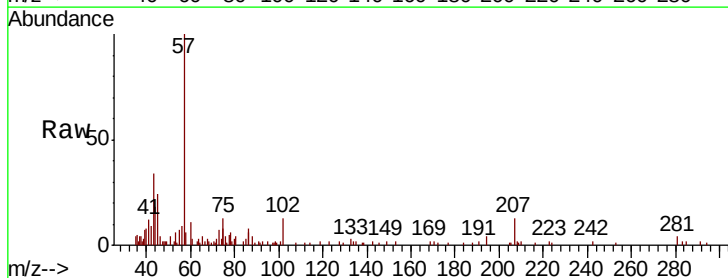
Tgt Ion: 88 Resp: 249

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

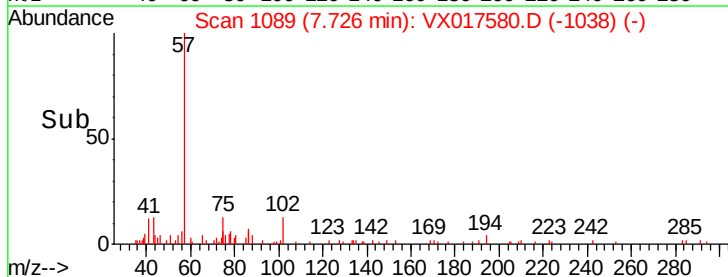
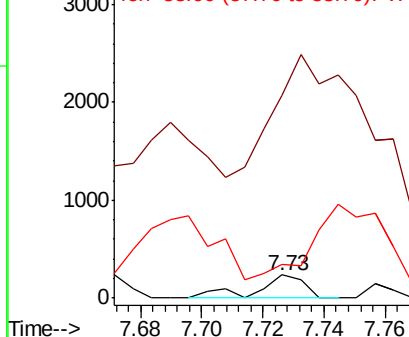
58 0.0 58.3 87.5#

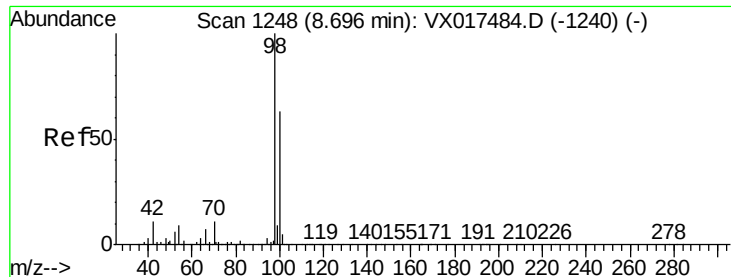


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

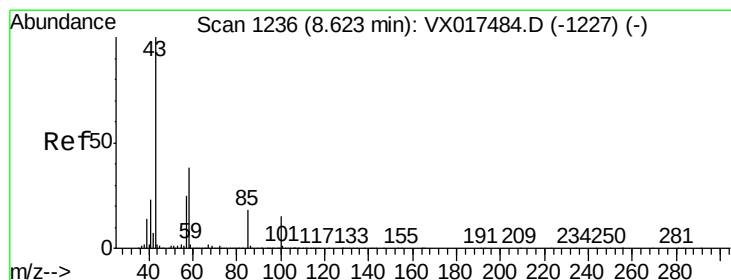
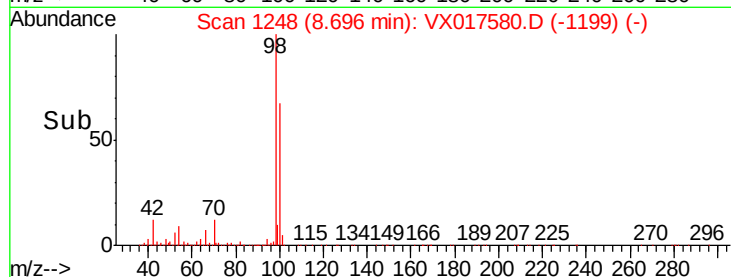
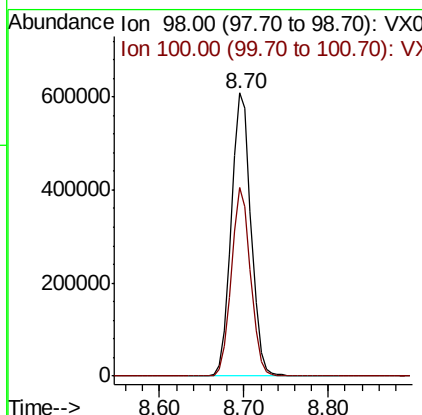
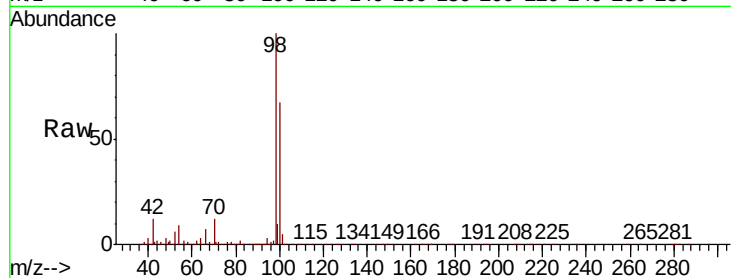




#50
Toluene-d8
Concen: 55.689 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

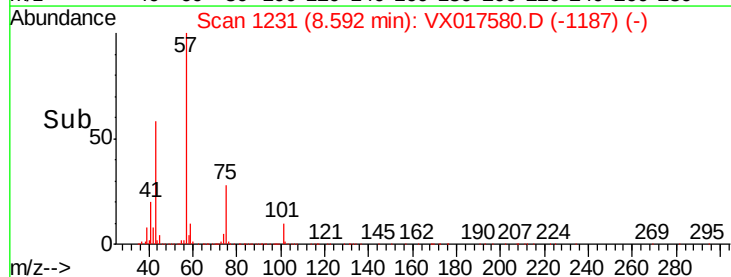
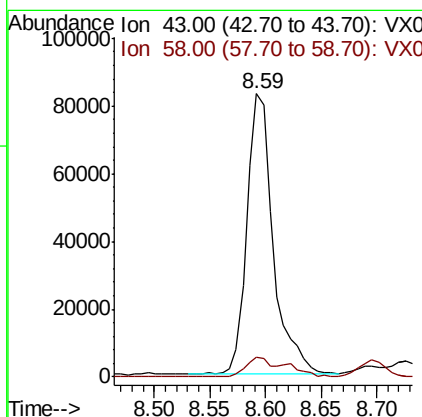
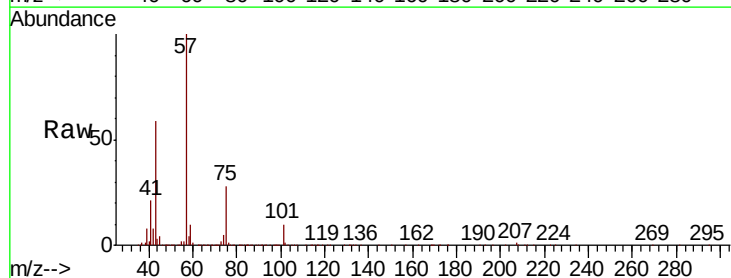
Instrument :
MSVOA_X
ClientSampleId :

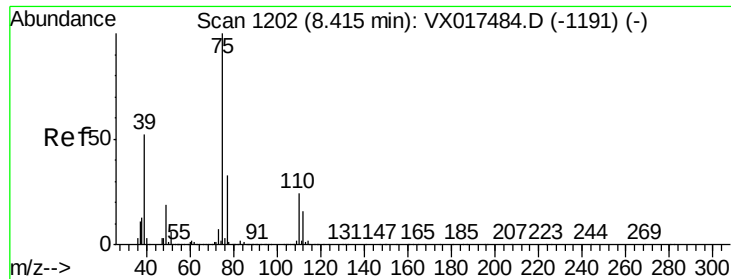
Tot Ion: 98 Resp: 967012
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 18.384 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX017580.D
Acq: 25 Jul 2020 08:47

Tgt Ion: 43 Resp: 136685
Ion Ratio Lower Upper
43 100
58 6.6 31.0 46.4#

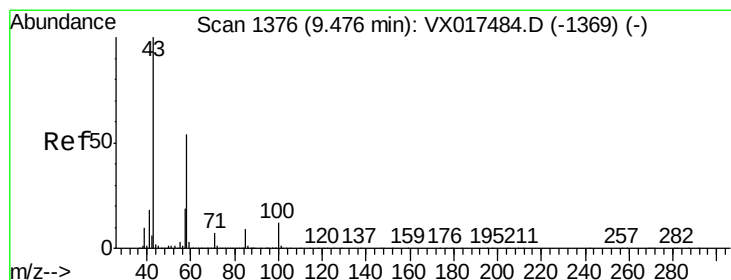
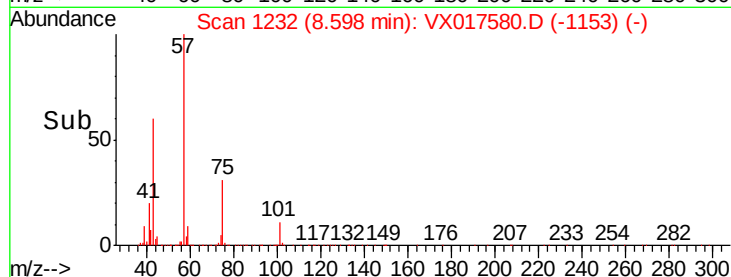
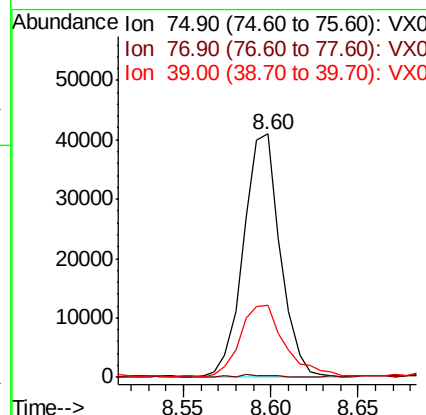
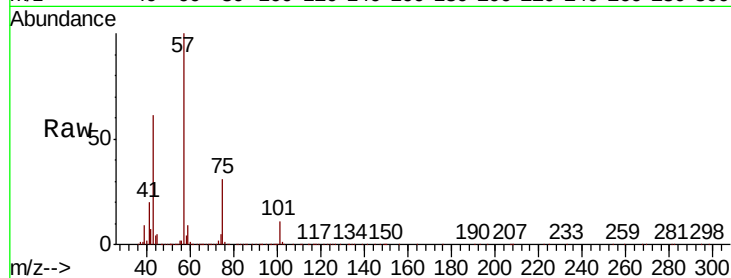




#54
 cis-1,3-Dichloropropene
 Concen: 6.742 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX017580.D
 Acq: 25 Jul 2020 08:47

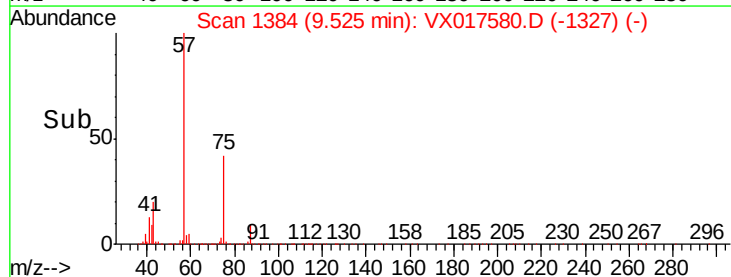
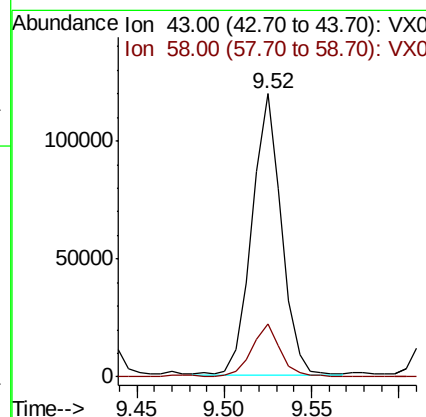
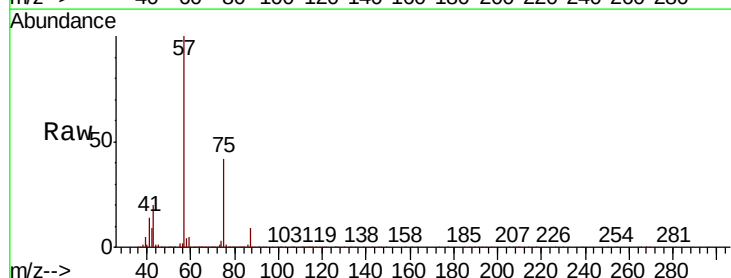
Instrument :
 MSVOA_X
 ClientSampled :

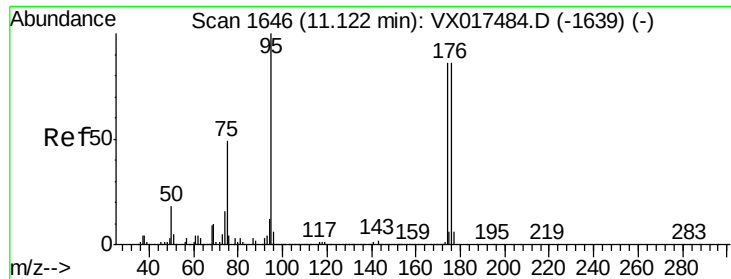
Tot Ion: 75 Resp: 60050
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.5 38.3#
 39 29.0 41.8 62.8#



#59
 2-Hexanone
 Concen: 25.144 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX017580.D
 Acq: 25 Jul 2020 08:47

Tgt Ion: 43 Resp: 140754
 Ion Ratio Lower Upper
 43 100
 58 18.2 26.6 79.8#





#62

4-Bromofluorobenzene

Concen: 59.014 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

ClientSampleId :

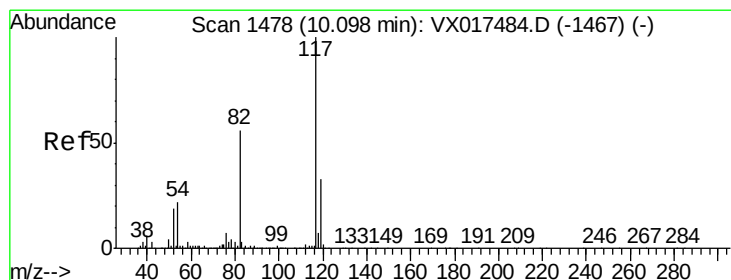
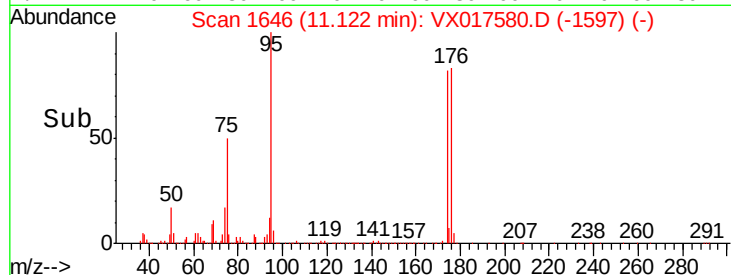
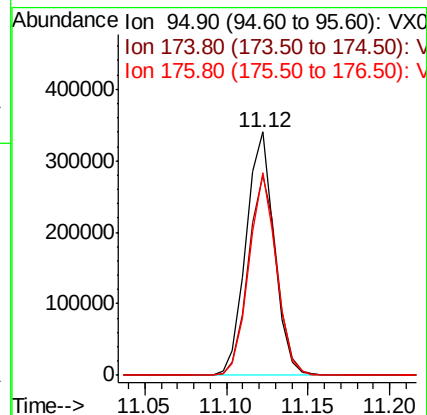
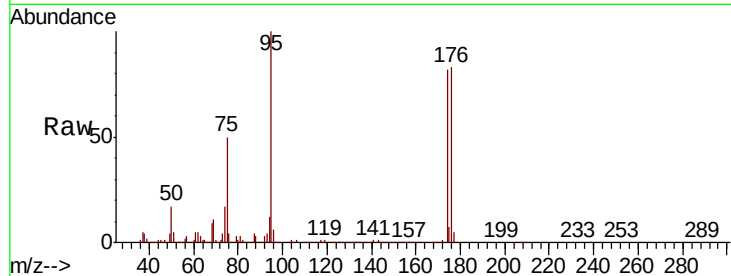
Tot Ion: 95 Resp: 410108

Ion Ratio Lower Upper

95 100

174 83.9 0.0 169.0

176 81.0 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: VX017580.D

Acq: 25 Jul 2020 08:47

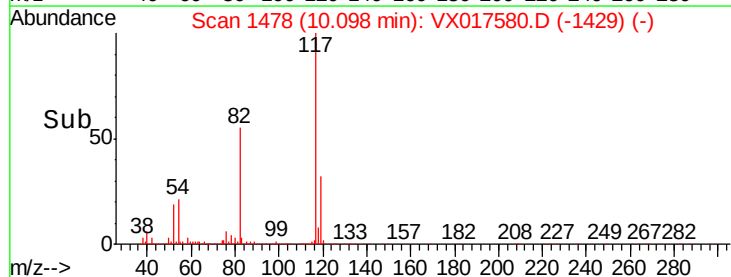
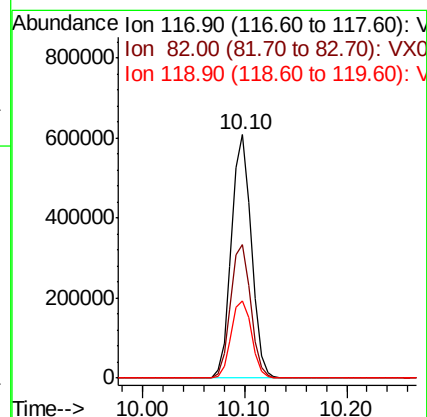
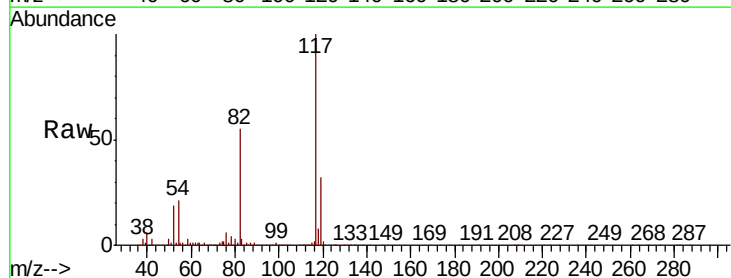
Tgt Ion: 117 Resp: 821064

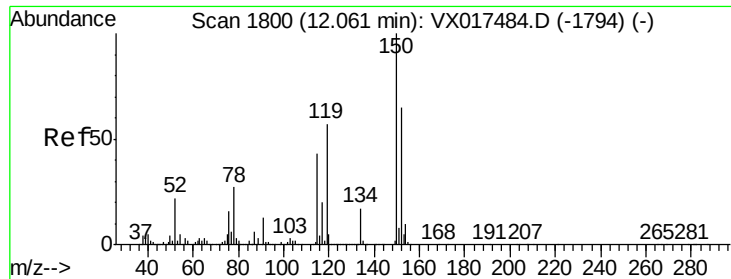
Ion Ratio Lower Upper

117 100

82 55.1 44.0 66.0

119 31.6 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: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

ClientSampleId :

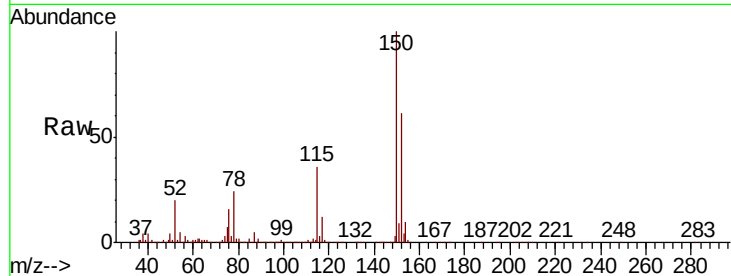
Tot Ion:152 Resp: 455375

Ion Ratio Lower Upper

152 100

115 57.6 65.5 196.6#

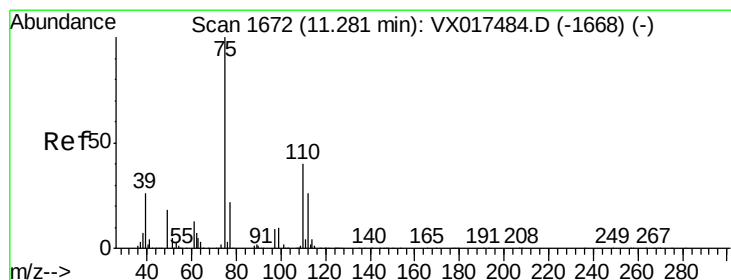
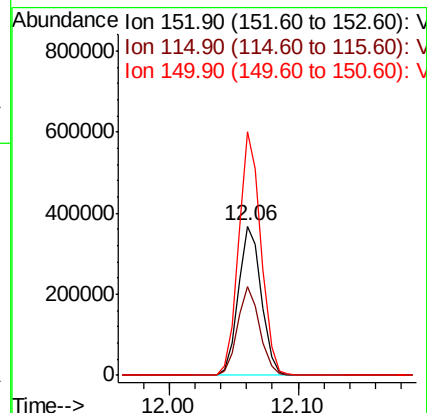
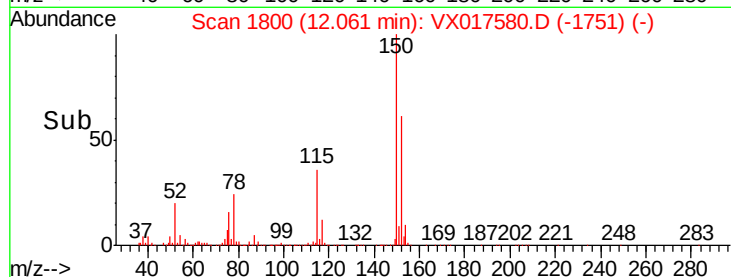
150 158.9 0.0 412.6



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: 22.311 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017580.D

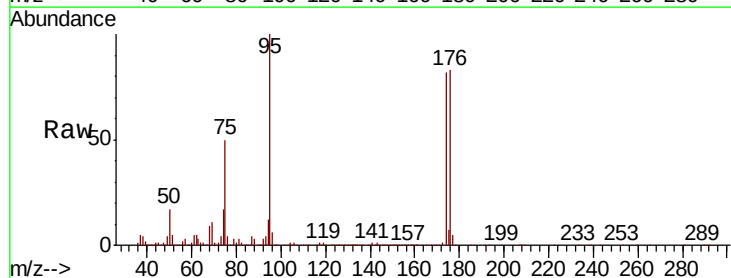
Acq: 25 Jul 2020 08:47

Tgt Ion: 75 Resp: 208991

Ion Ratio Lower Upper

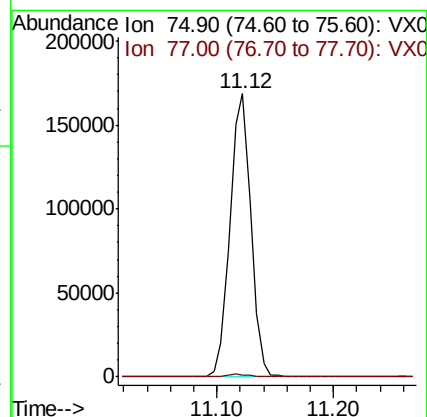
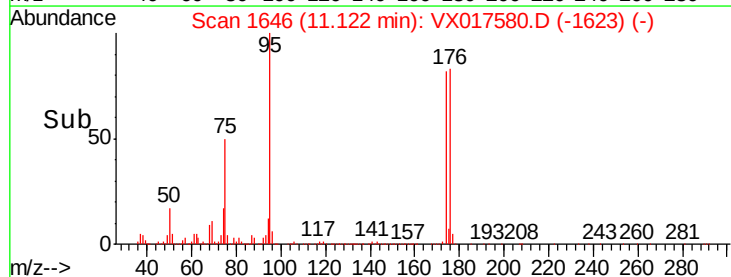
75 100

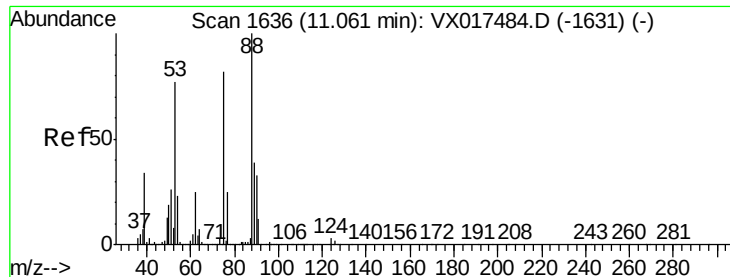
77 1.1 21.8 65.3#



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: 56.218 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

Instrument :

MSVOA_X

ClientSampled :

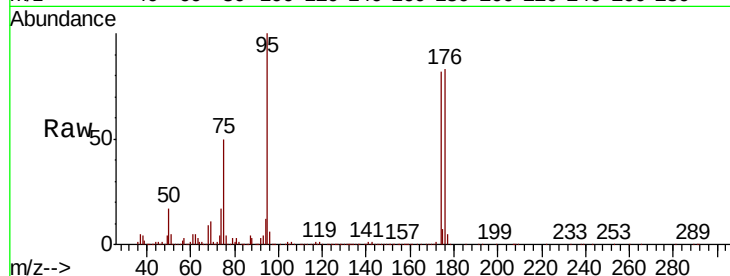
Tot Ion: 75 Resp: 208991

Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

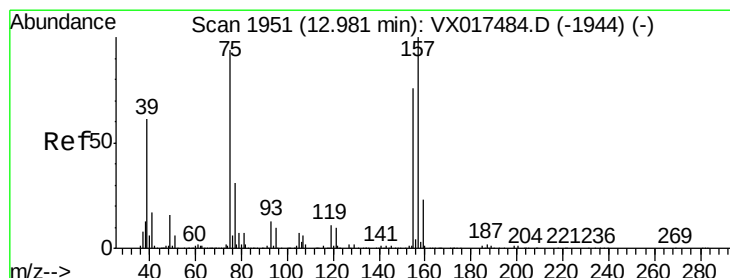
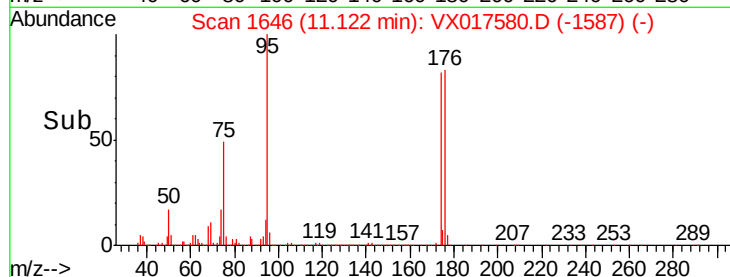
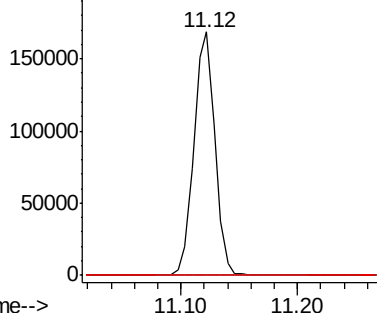
89 0.1 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.623 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017580.D

Acq: 25 Jul 2020 08:47

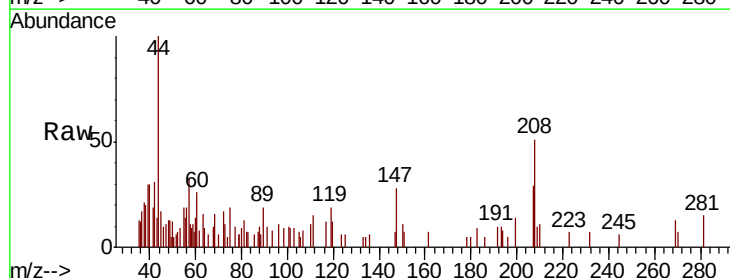
Tgt Ion: 75 Resp: 136

Ion Ratio Lower Upper

75 100

155 19.9 42.3 126.8#

157 14.7 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

