

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080520\
 Data File : VX017788.D
 Acq On : 05 Aug 2020 11:10
 Operator : JC/SP
 Sample : VX0805WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0805WBL01

Quant Time: Aug 06 02:28:33 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	526486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	827592	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	804887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	339574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	376255	55.63	ug/l	0.00
Spiked Amount			Recovery	=	111.26%	
35) Dibromofluoromethane	5.46	113	273196	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	8.70	98	1038369	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	11.12	95	375247	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	

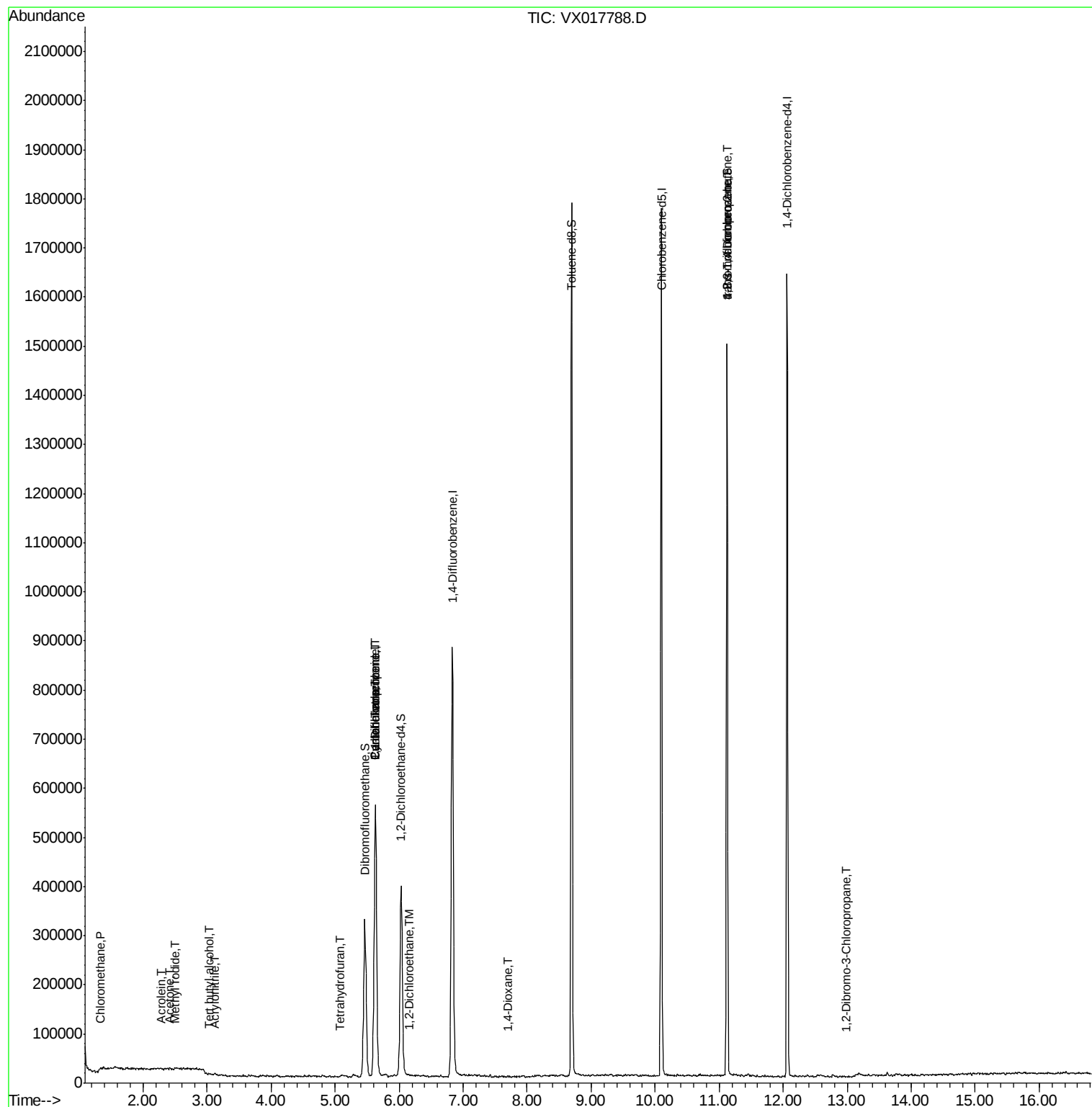
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	308	Below Cal	#	42
3) Chloromethane	1.33	50	533	0.448	ug/l #	42
5) Bromomethane	1.60	94	608	Below Cal	#	3
6) Chloroethane	1.72	64	514	Below Cal		94
8) Diethyl Ether	2.15	74	382	Below Cal		98
10) Methyl Iodide	2.50	142	1781	0.243	ug/l #	71
11) Tert butyl alcohol	3.03	59	463	0.325	ug/l #	72
13) Acrolein	2.28	56	1049	5.097	ug/l #	55
15) Acrylonitrile	3.11	53	1050	0.341	ug/l	92
16) Acetone	2.42	43	1670	0.561	ug/l	95
20) Methylene Chloride	2.83	84	1254	Below Cal	#	51
29) Tetrahydrofuran	5.07	42	706	0.270	ug/l #	53
31) Cyclohexane	5.63	56	10496	1.258	ug/l #	19
36) 1,1-Dichloropropene	5.62	75	38816	4.890	ug/l #	52
38) Carbon Tetrachloride	5.63	117	53173	5.517	ug/l #	18
42) 1,2-Dichloroethane	6.16	62	2116	0.227	ug/l	83
49) 1,4-Dioxane	7.69	88	203	1.491	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	191835	27.463	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	191835	69.201	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	229	2.682	ug/l #	25

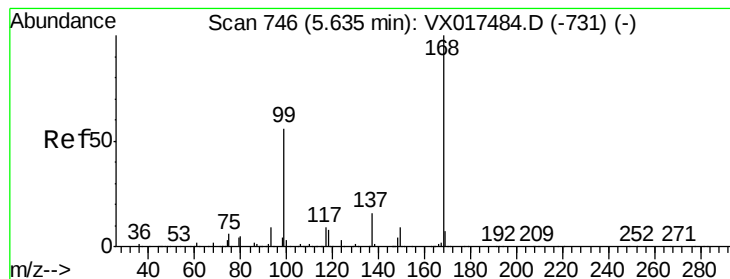
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampleId :

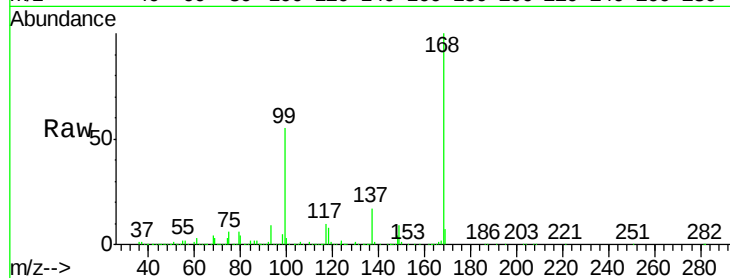
VX0805WBL01

Tot Ion:168 Resp: 526486

Ion Ratio Lower Upper

168 100

99 54.8 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

100000

50000

0

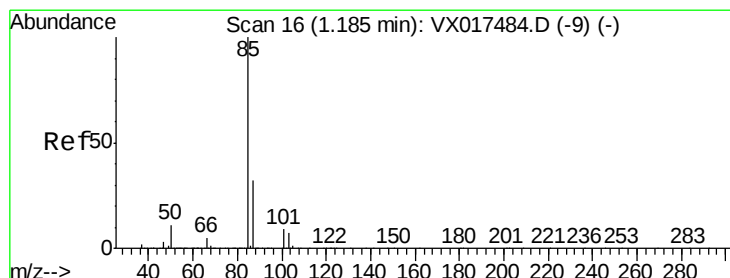
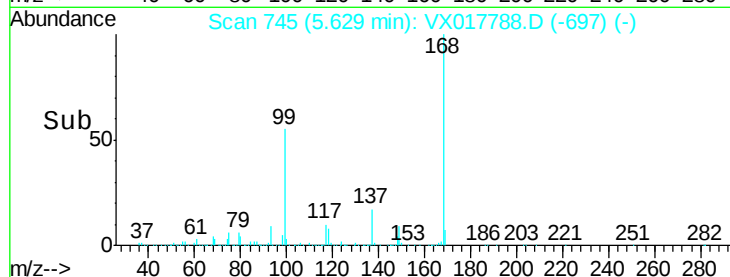
5.50

5.60

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 19

Delta R.T. 0.02 min

Lab File: VX017788.D

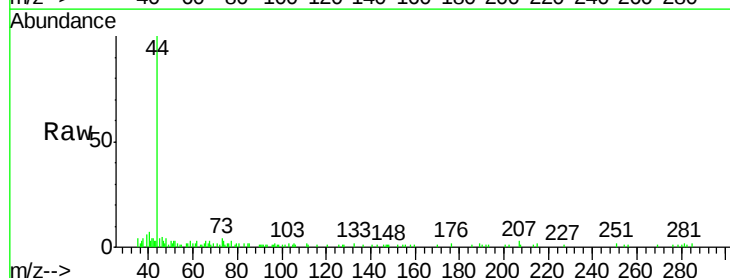
Acq: 05 Aug 2020 11:10

Tgt Ion: 85 Resp: 308

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

300

250

200

150

100

50

0

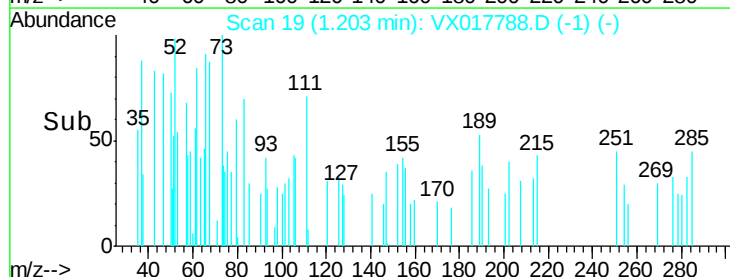
1.16

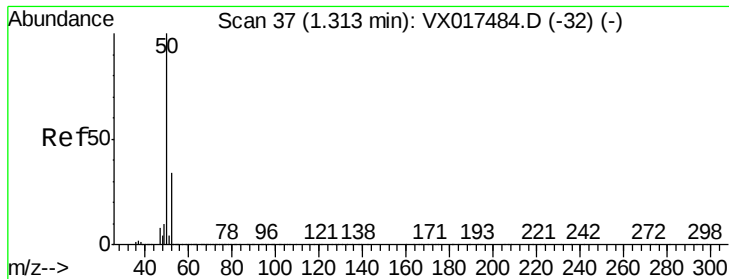
1.18

1.20

1.22

Time-->





#3

Chloromethane

Concen: 0.448 ug/l

RT: 1.33 min Scan# 40

Delta R.T. 0.02 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampleId :

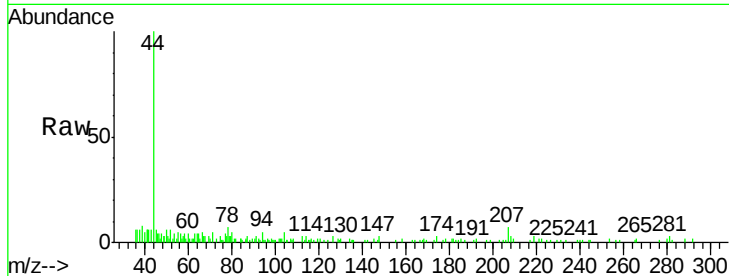
VX0805WBL01

Tot Ion: 50 Resp: 533

Ion Ratio Lower Upper

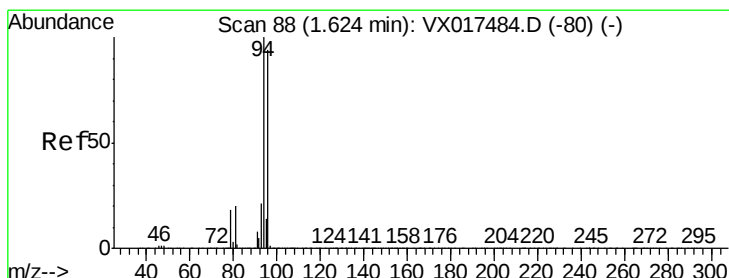
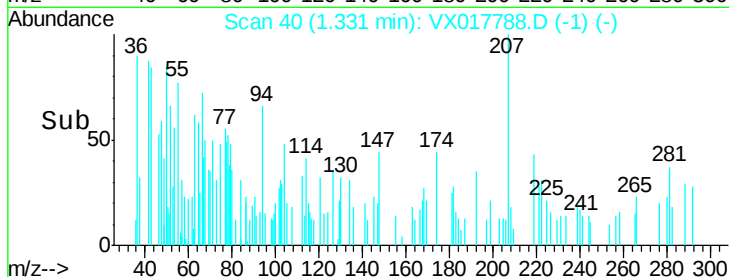
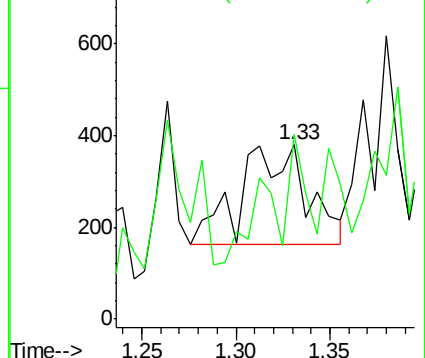
50 100

52 0.0 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: 1.60 min Scan# 84

Delta R.T. -0.02 min

Lab File: VX017788.D

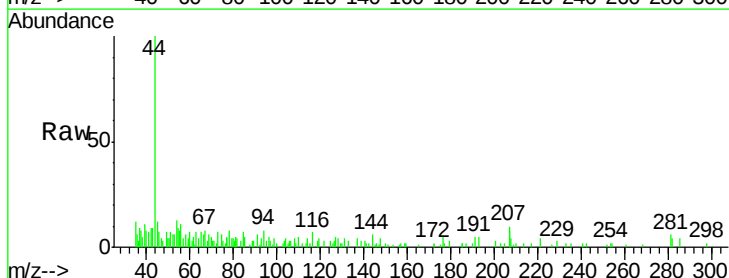
Acq: 05 Aug 2020 11:10

Tgt Ion: 94 Resp: 608

Ion Ratio Lower Upper

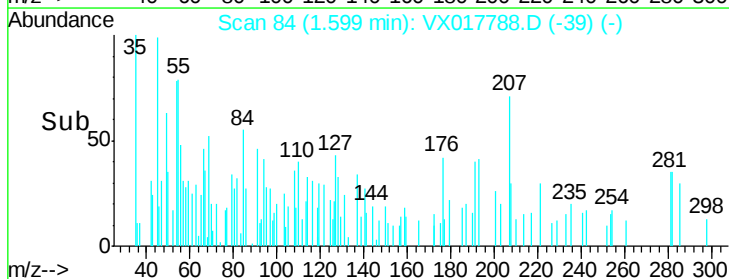
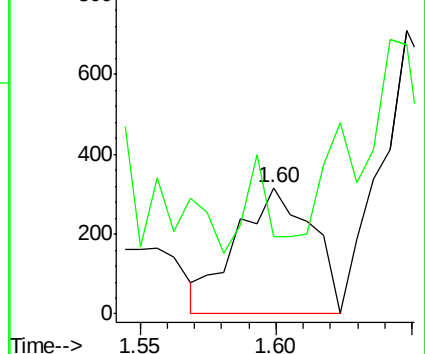
94 100

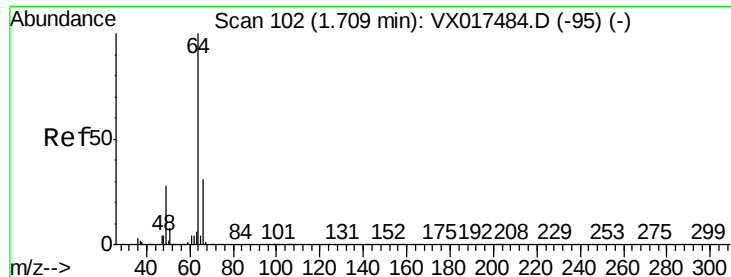
96 0.0 74.1 111.1#



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: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampleId :

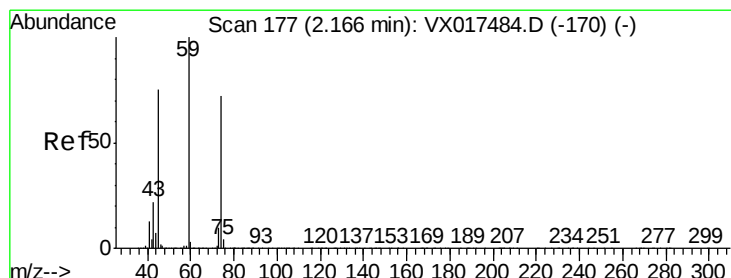
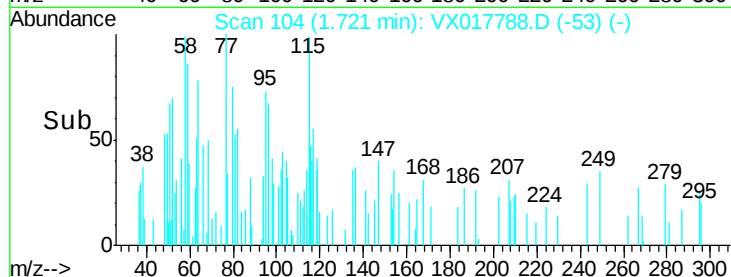
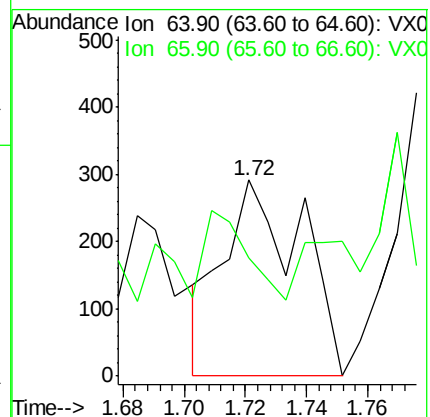
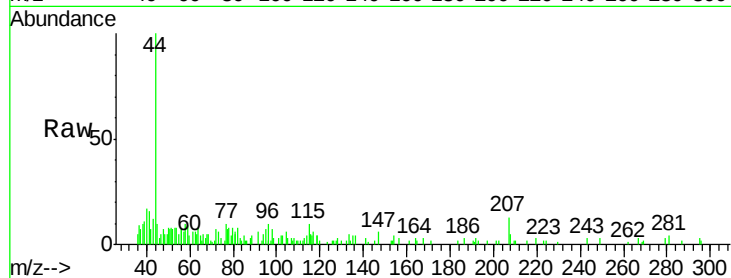
VX0805WBL01

Tot Ion: 64 Resp: 514

Ion Ratio Lower Upper

64 100

66 27.9 24.9 37.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VX017788.D

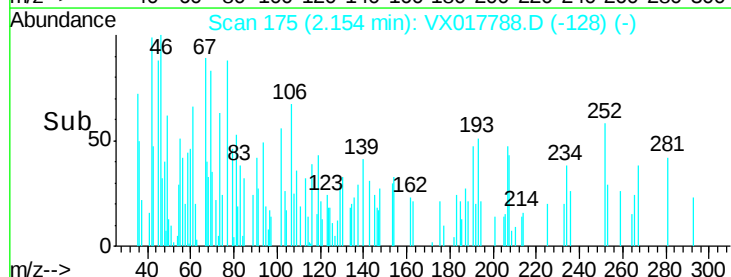
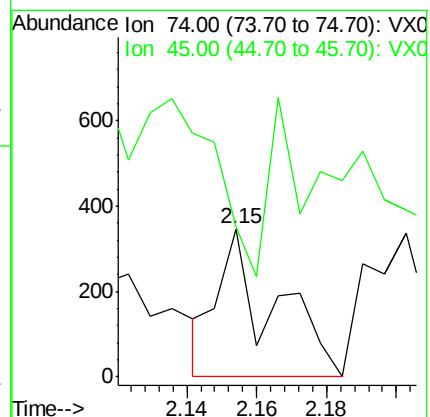
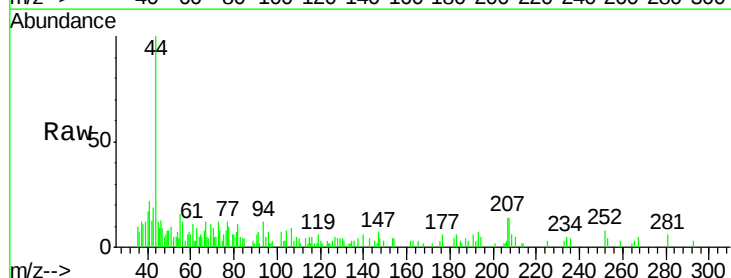
Acq: 05 Aug 2020 11:10

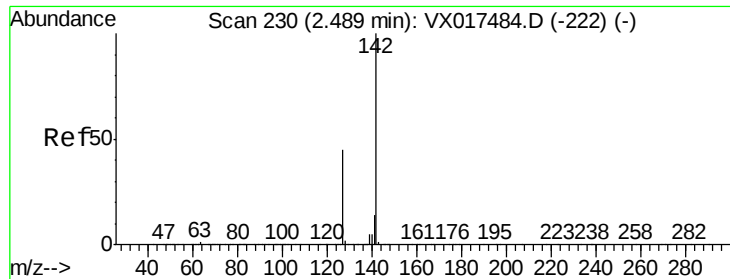
Tgt Ion: 74 Resp: 382

Ion Ratio Lower Upper

74 100

45 100.0 50.8 152.5

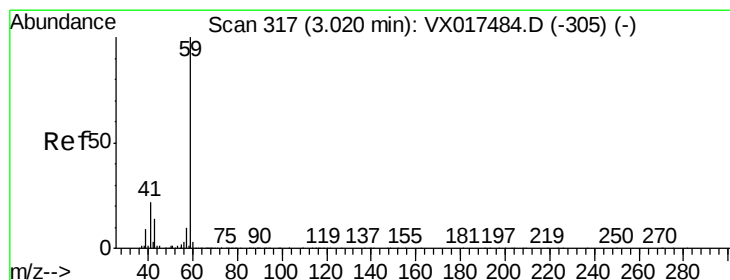
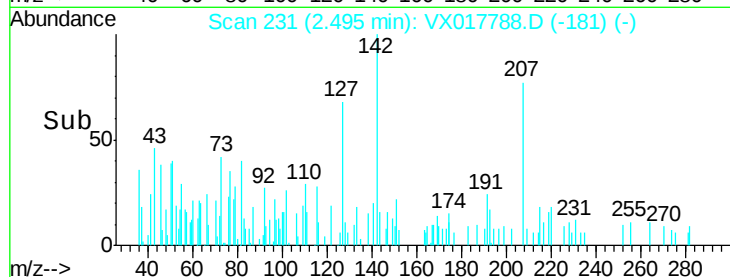
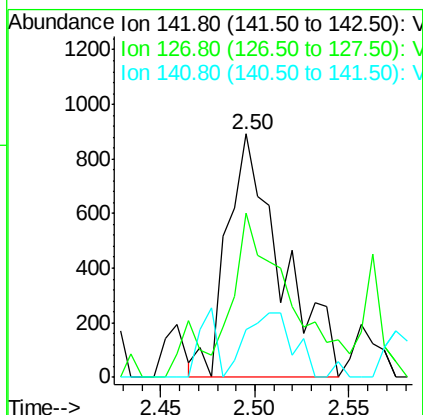
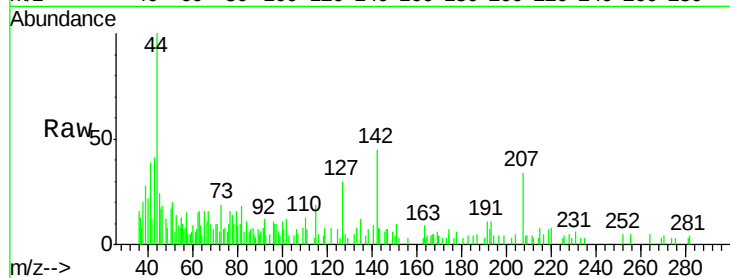




#10
Methvl Iodide
Concen: 0.243 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

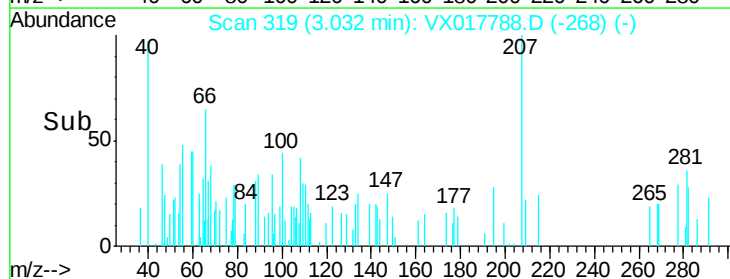
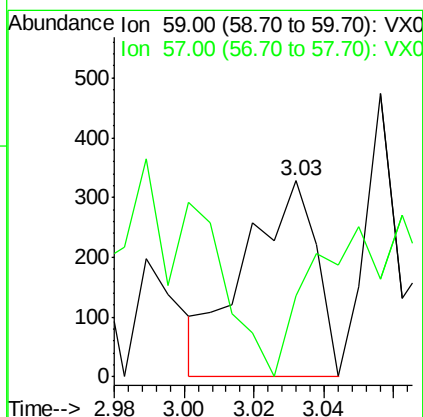
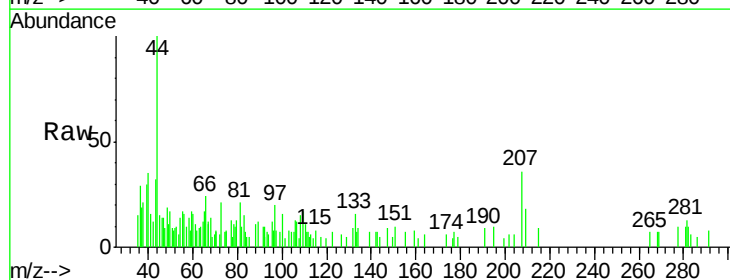
Instrument :
MSVOA_X
ClientSampleId :
VX0805WBL01

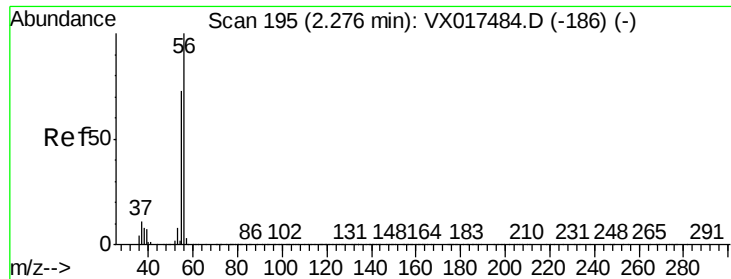
Tot Ion:142 Resp: 1781
Ion Ratio Lower Upper
142 100
127 64.9 35.9 53.9#
141 23.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.325 ug/l
RT: 3.03 min Scan# 319
Delta R.T. 0.01 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

Tgt Ion: 59 Resp: 463
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 5.097 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampleId :

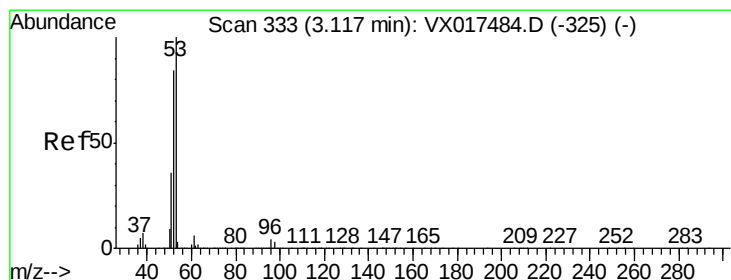
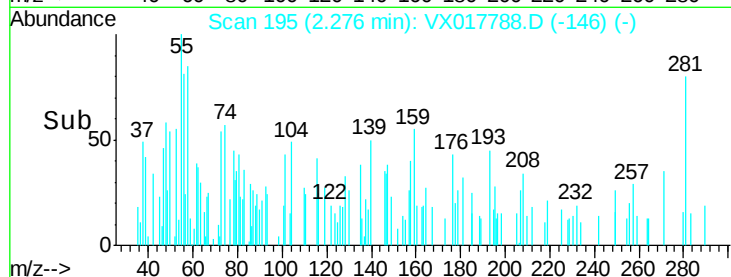
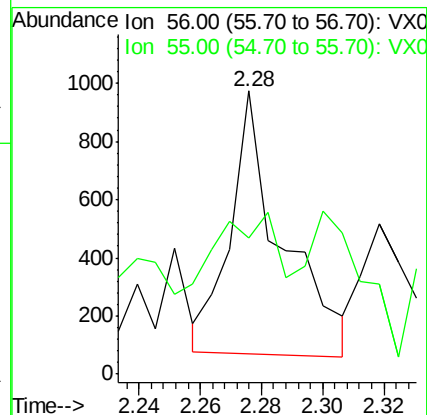
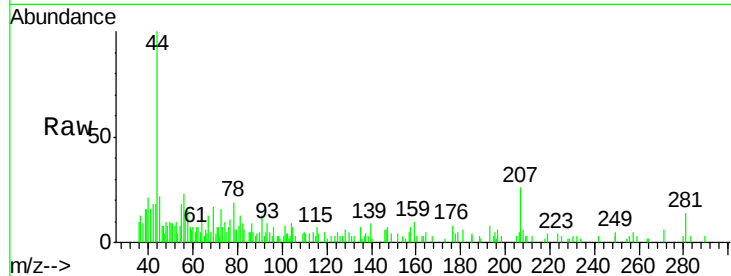
VX0805WBL01

Tot Ion: 56 Resp: 1049

Ion Ratio Lower Upper

56 100

55 34.7 57.4 86.2#



#15

Acrylonitrile

Concen: 0.341 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

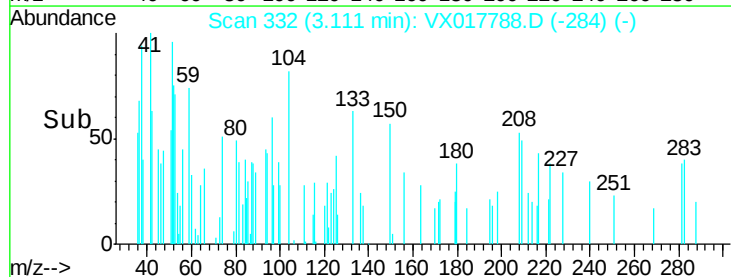
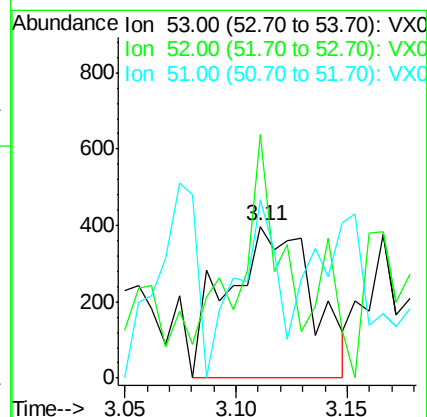
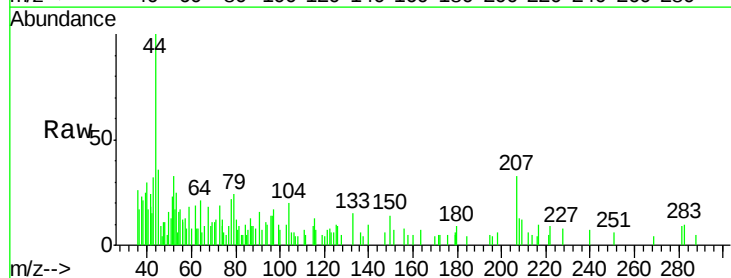
Tgt Ion: 53 Resp: 1050

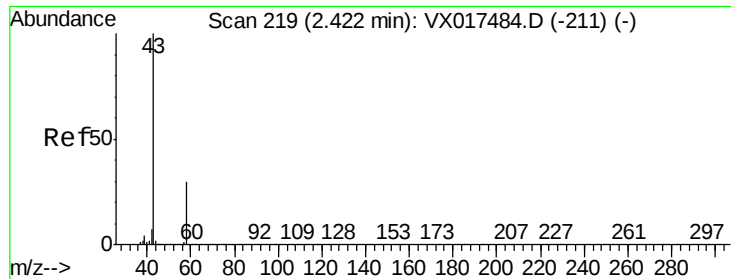
Ion Ratio Lower Upper

53 100

52 76.0 66.6 99.8

51 32.1 29.4 44.2

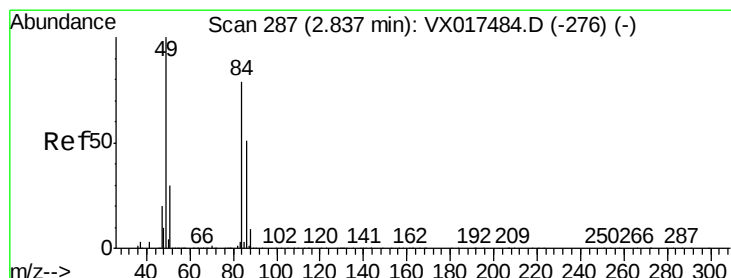
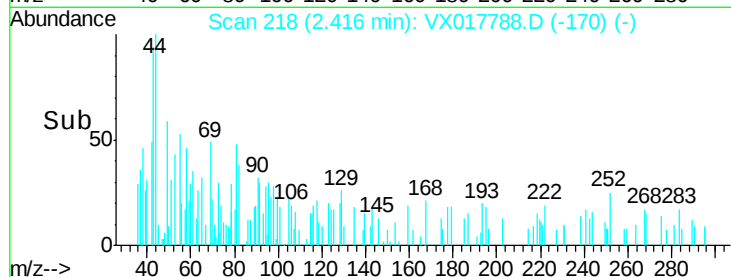
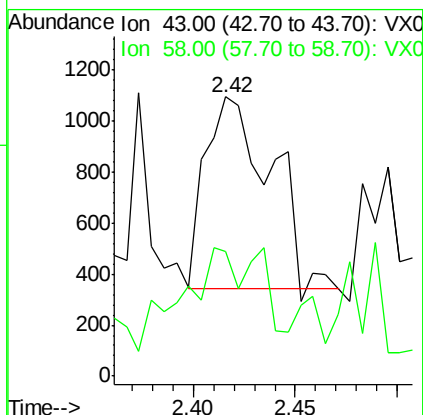
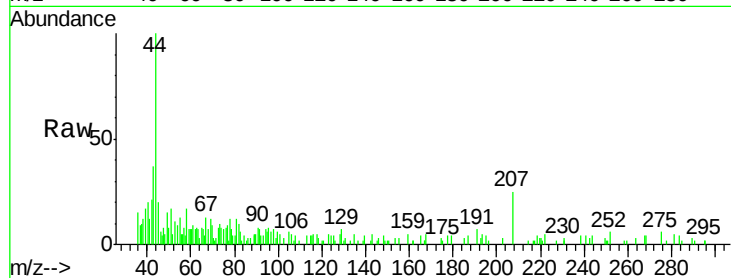




#16
Acetone
Concen: 0.561 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

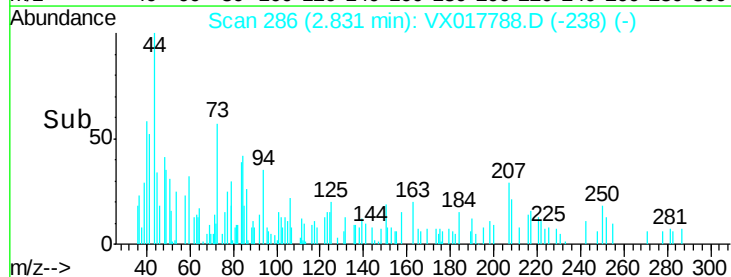
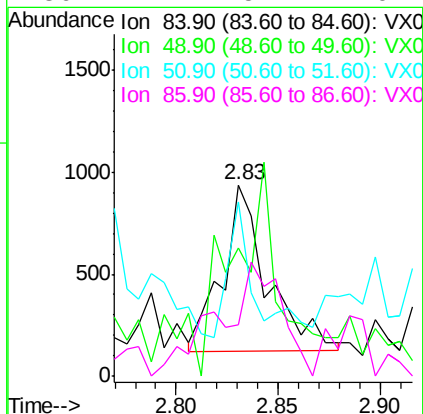
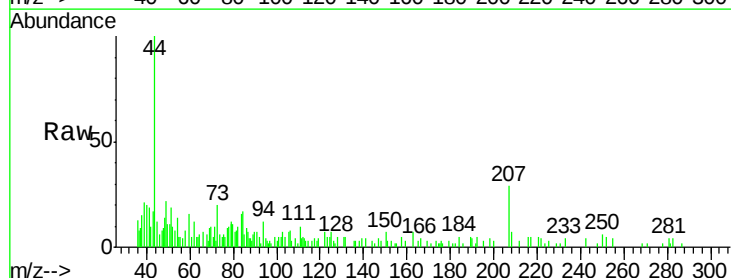
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MSVOA_X
ClientSampled :
VX0805WBL01

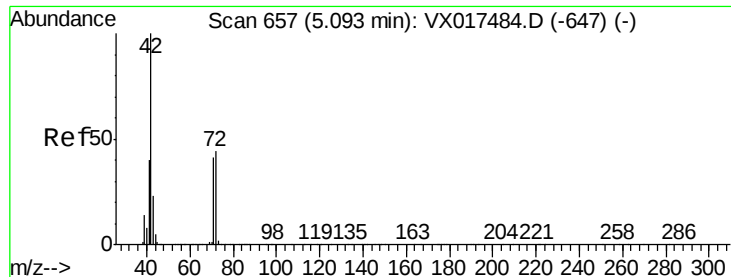
Tot Ion: 43 Resp: 1670
Ion Ratio Lower Upper
43 100
58 32.8 24.2 36.4



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

Tgt Ion: 84 Resp: 1254
Ion Ratio Lower Upper
84 100
49 56.8 100.3 150.5#
51 66.8 30.5 45.7#
86 42.7 51.1 76.7#

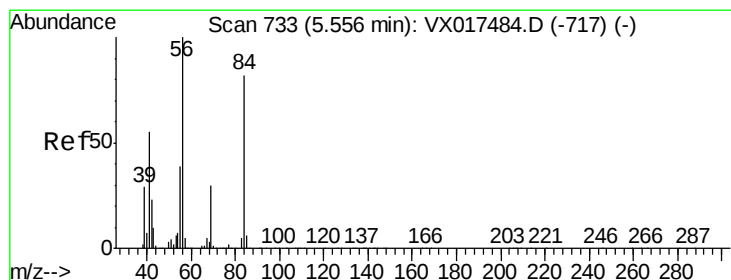
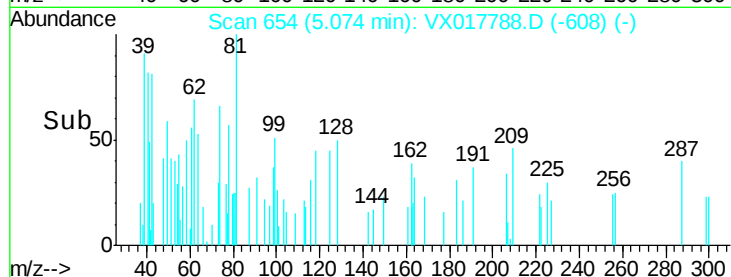
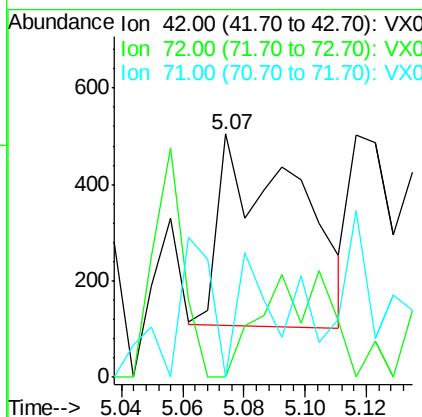
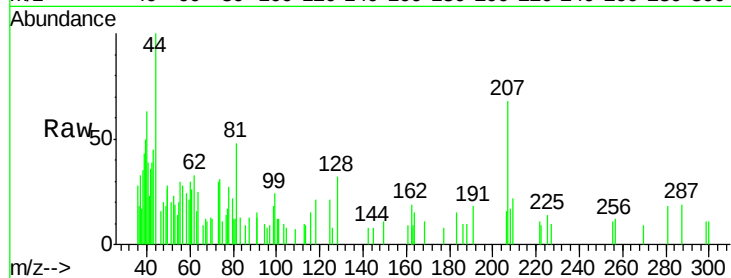




#29
Tetrahydrofuran
Concen: 0.270 ug/l
RT: 5.07 min Scan# 654
Delta R.T. -0.02 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

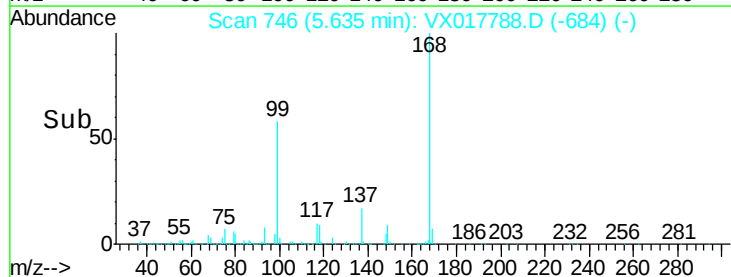
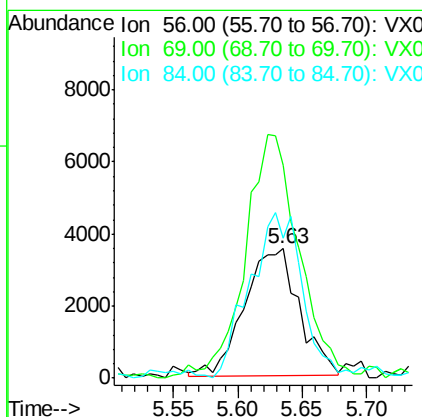
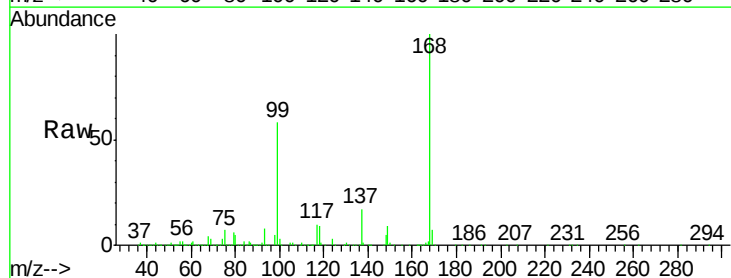
Instrument :
MSVOA_X
ClientSampled :
VX0805WBL01

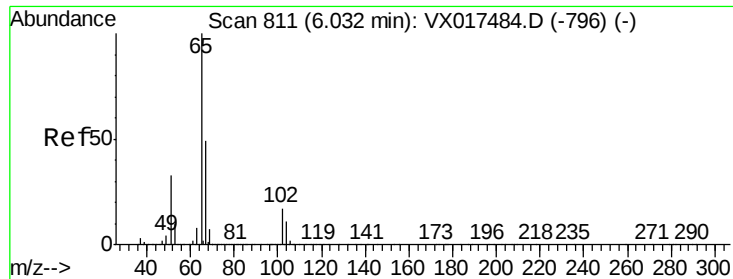
Tot Ion: 42 Resp: 706
Ion Ratio Lower Upper
42 100
72 0.0 35.5 53.3#
71 26.1 33.0 49.4#



#31
Cyclohexane
Concen: 1.258 ug/l
RT: 5.63 min Scan# 746
Delta R.T. 0.08 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

Tgt Ion: 56 Resp: 10496
Ion Ratio Lower Upper
56 100
69 162.0 24.2 36.4#
84 108.8 69.0 103.6#

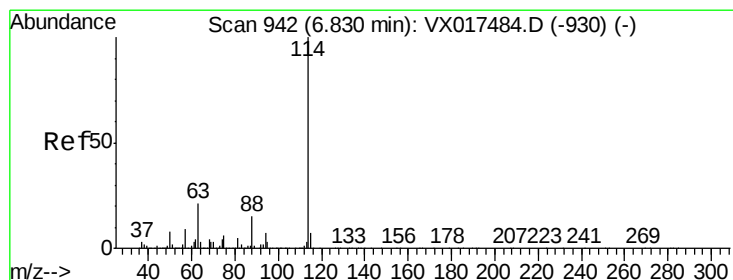
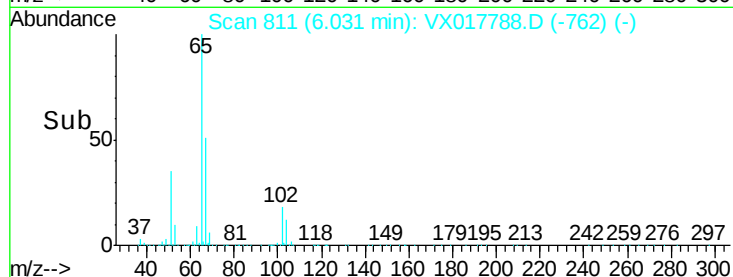
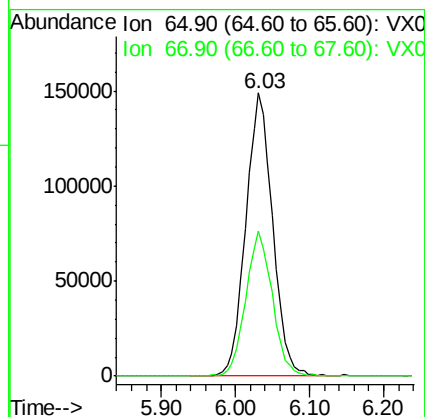
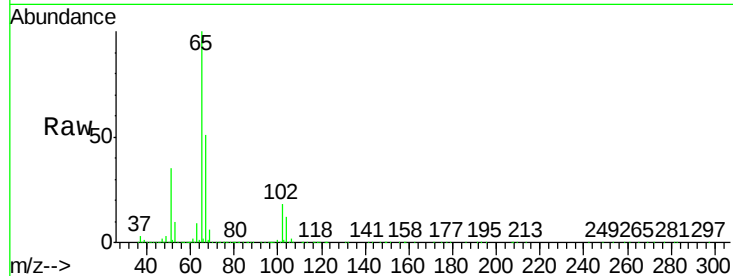




#33
 1,2-Dichloroethane-d4
 Concen: 55.635 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017788.D
 Acq: 05 Aug 2020 11:10

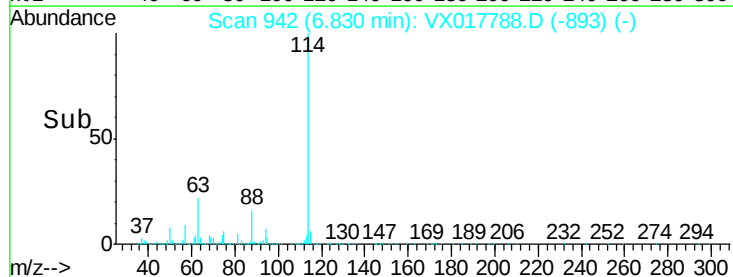
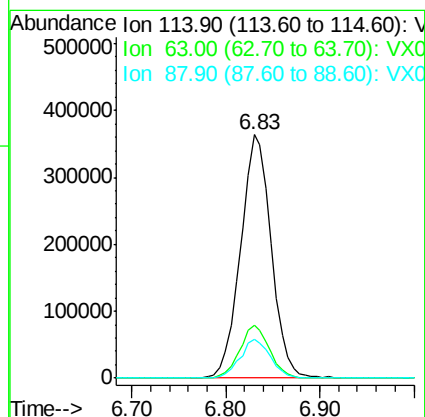
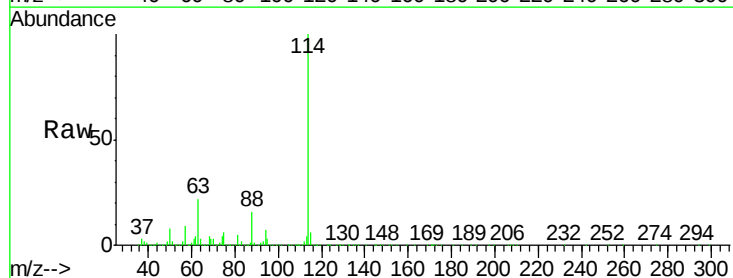
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0805WBL01

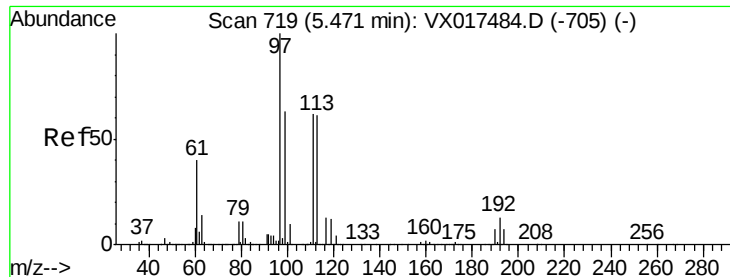
Tot Ion: 65 Resp: 376255
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017788.D
 Acq: 05 Aug 2020 11:10

Tgt Ion: 114 Resp: 827592
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 40.6
 88 16.0 0.0 33.4





#35

Dibromofluoromethane

Concen: 49.358 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampled :

VX0805WBL01

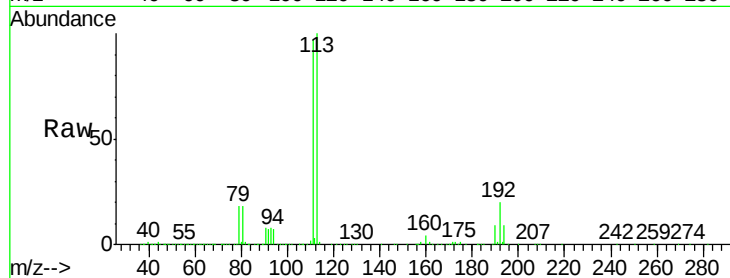
Tot Ion:113 Resp: 273196

Ion Ratio Lower Upper

113 100

111 100.9 80.7 121.1

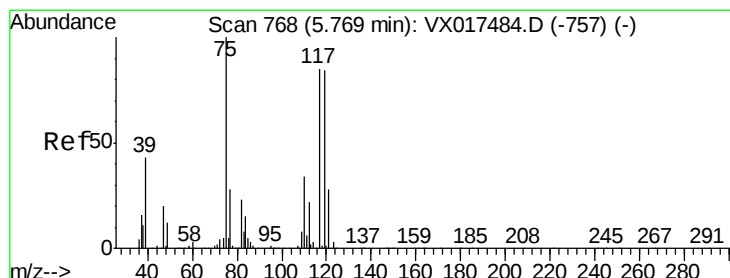
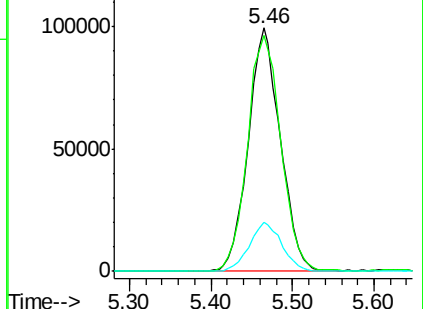
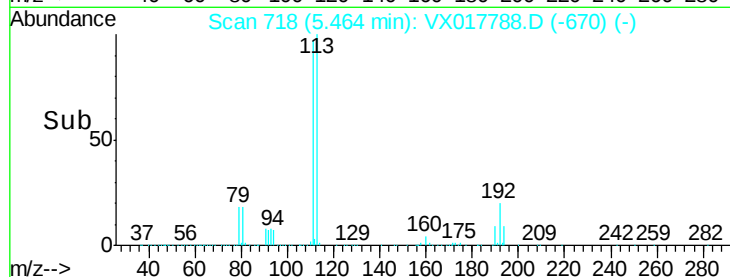
192 20.5 16.9 25.3



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: 4.890 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

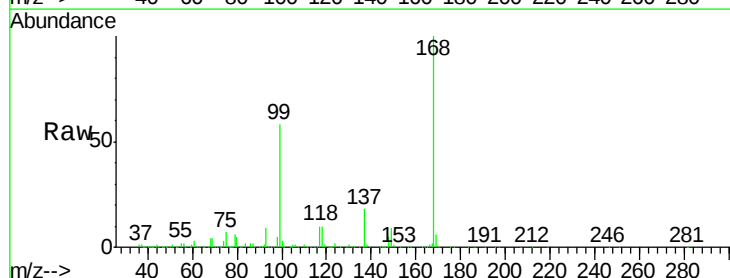
Tgt Ion: 75 Resp: 38816

Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.3#

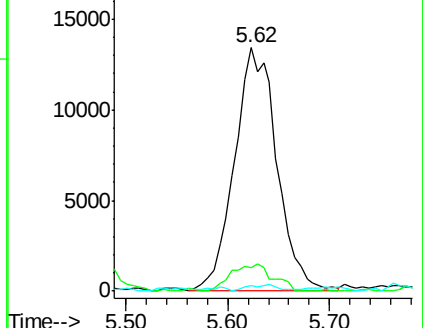
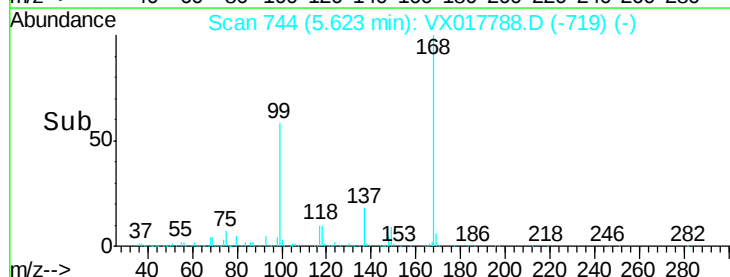
77 1.7 24.6 37.0#

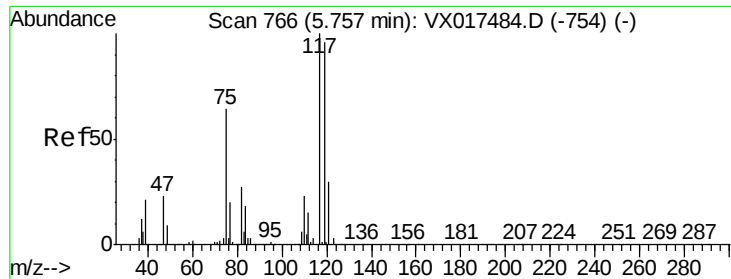


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.517 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampled :

VX0805WBL01

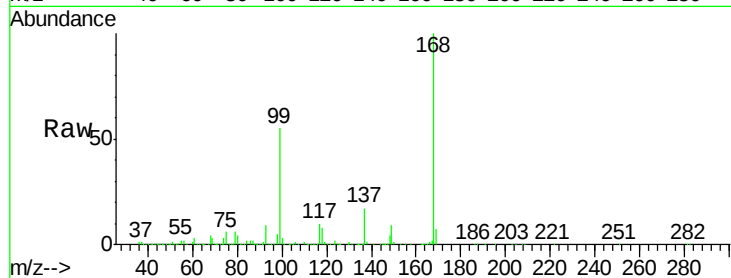
Tot Ion:117 Resp: 53173

Ion Ratio Lower Upper

117 100

119 6.9 75.4 113.0#

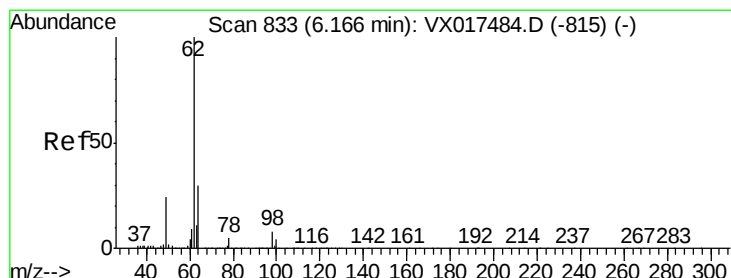
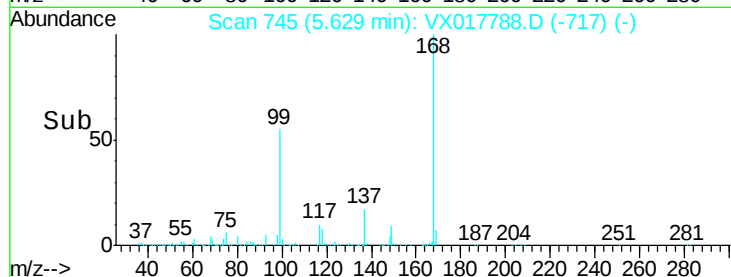
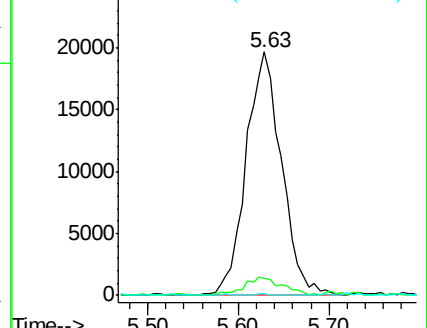
121 0.6 24.3 36.5#



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



#42

1,2-Dichloroethane

Concen: 0.227 ug/l

RT: 6.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX017788.D

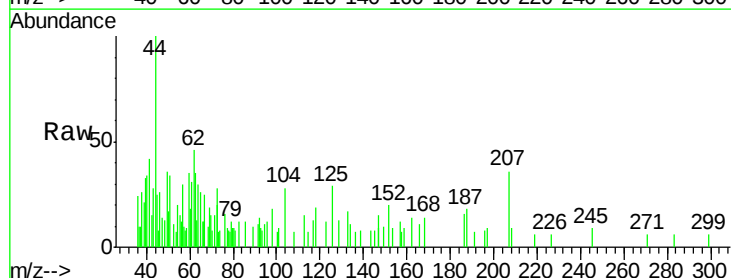
Acq: 05 Aug 2020 11:10

Tgt Ion: 62 Resp: 2116

Ion Ratio Lower Upper

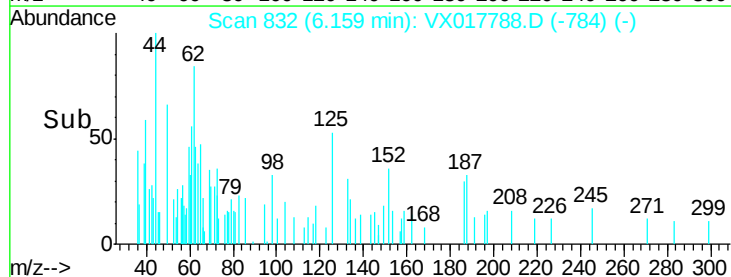
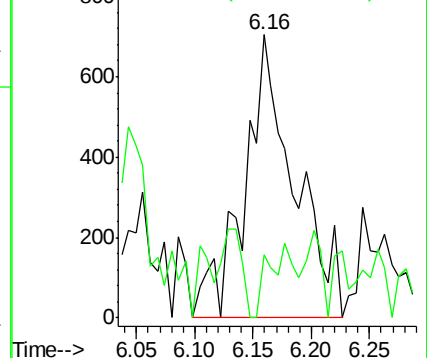
62 100

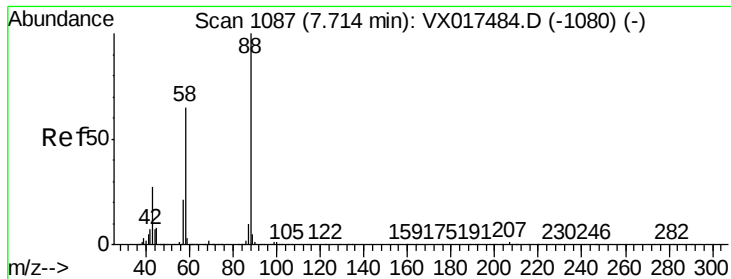
98 13.9 0.0 16.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

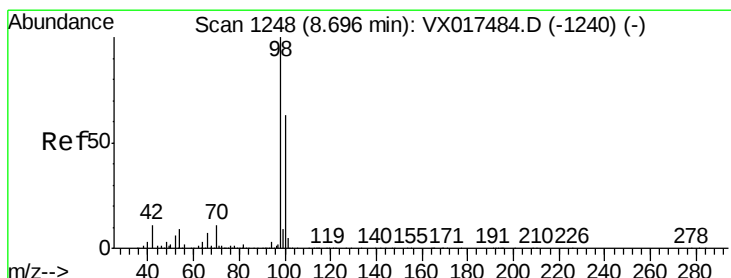
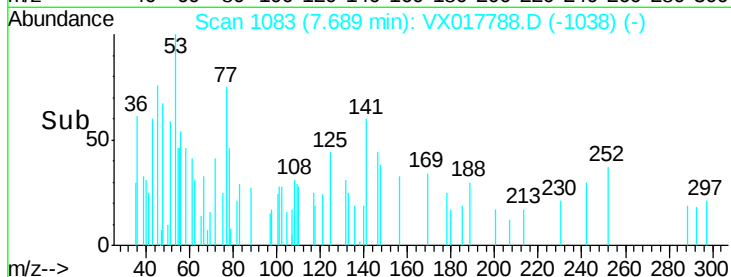
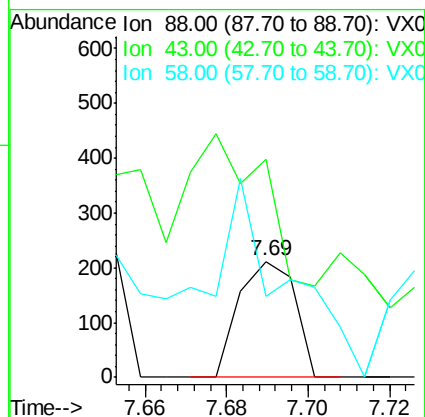
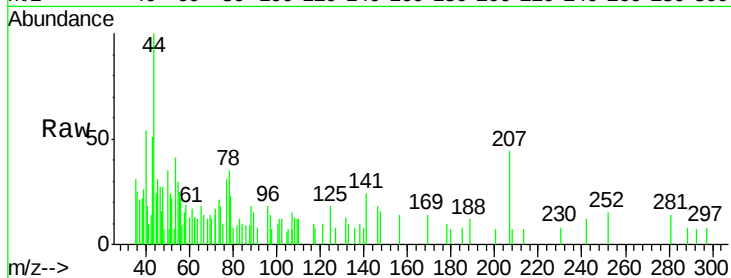




#49
1,4-Dioxane
Concen: 1.491 ug/l
RT: 7.69 min Scan# 1083
Delta R.T. -0.02 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

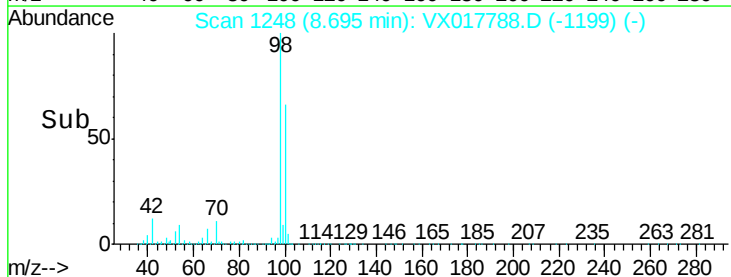
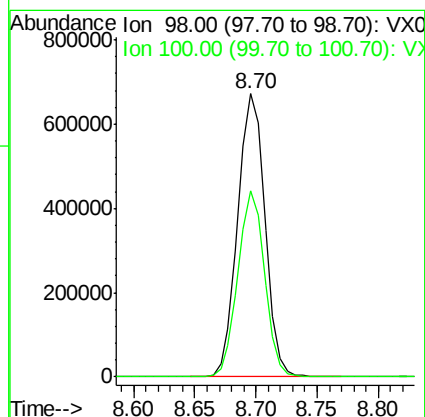
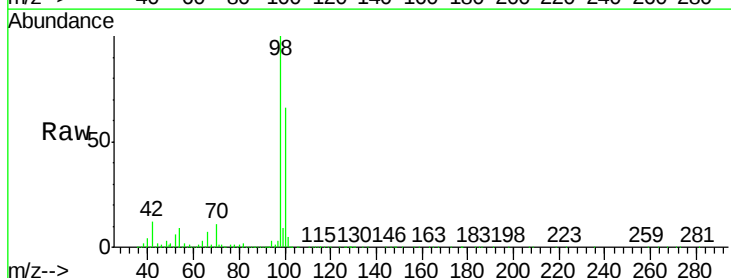
Instrument :
MSVOA_X
ClientSampleId :
VX0805WBL01

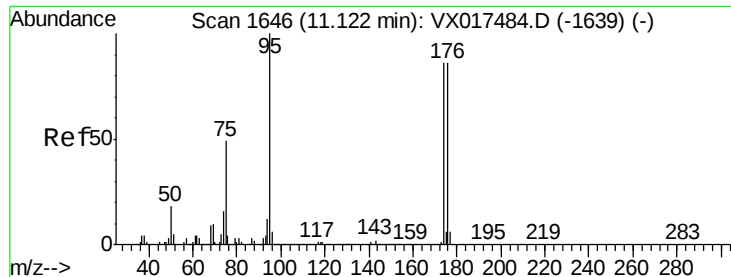
Tot Ion: 88 Resp: 203
Ion Ratio Lower Upper
88 100
43 209.4 27.8 41.6#
58 226.6 58.3 87.5#



#50
Toluene-d8
Concen: 52.003 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017788.D
Acq: 05 Aug 2020 11:10

Tgt Ion: 98 Resp: 1038369
Ion Ratio Lower Upper
98 100
100 64.2 52.3 78.5





#62

4-Bromofluorobenzene

Concen: 46.959 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0805WBL01

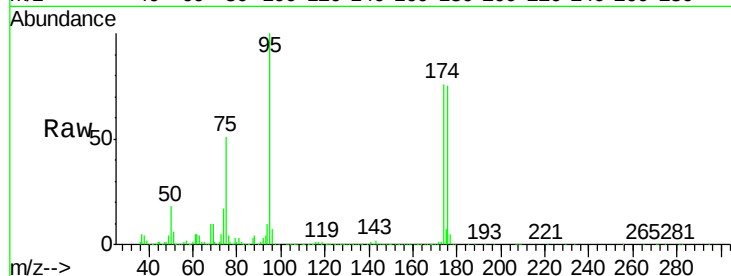
Tot Ion: 95 Resp: 375247

Ion Ratio Lower Upper

95 100

174 80.5 0.0 169.0

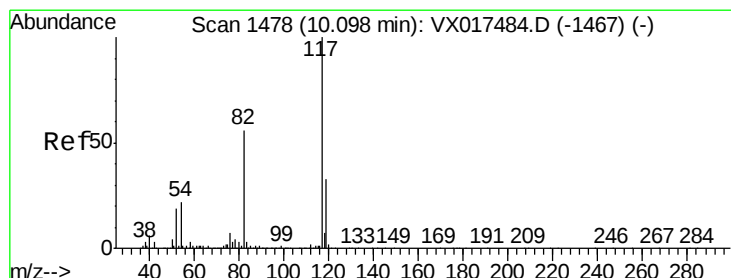
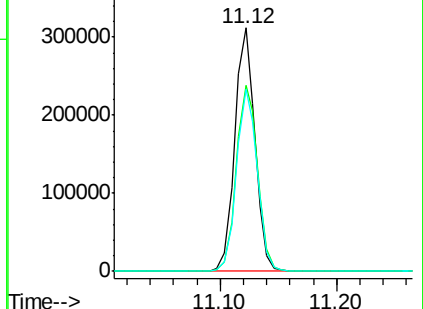
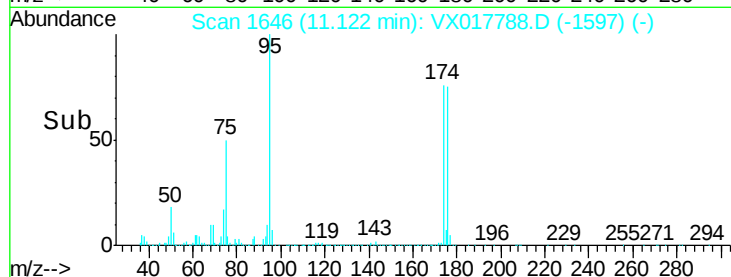
176 77.3 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX017788.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX017788.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX017788.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

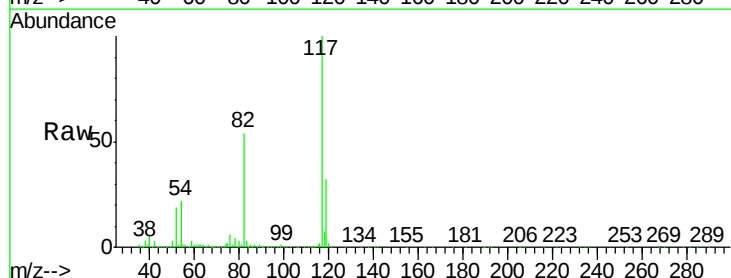
Tgt Ion: 117 Resp: 804887

Ion Ratio Lower Upper

117 100

82 53.9 44.0 66.0

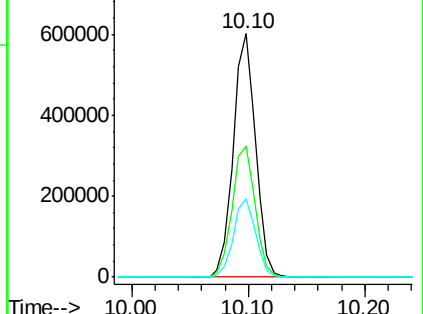
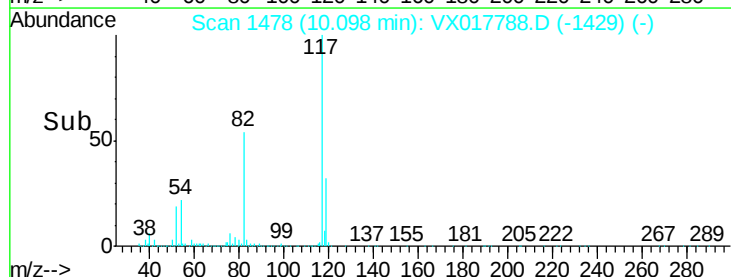
119 32.0 25.4 38.0

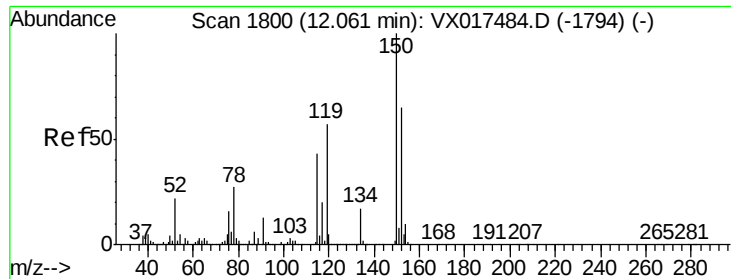


Abundance Ion 116.90 (116.60 to 117.60): VX017788.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX017788.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX017788.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampled :

VX0805WBL01

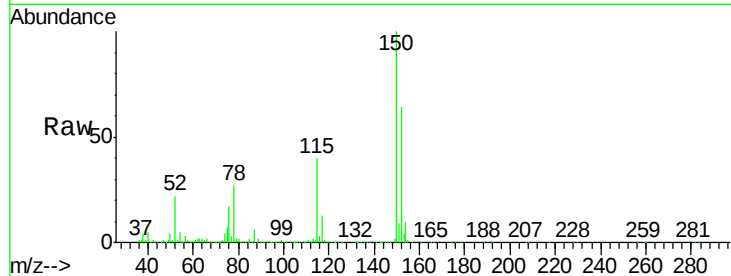
Tot Ion:152 Resp: 339574

Ion Ratio Lower Upper

152 100

115 59.2 65.5 196.6#

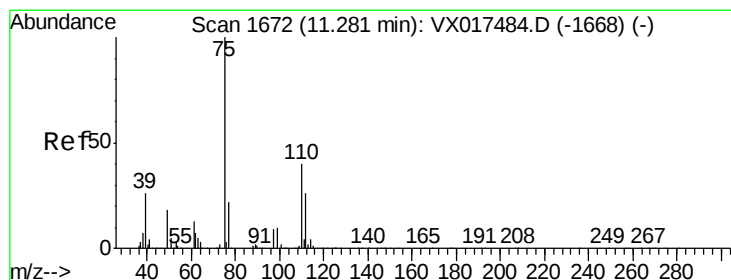
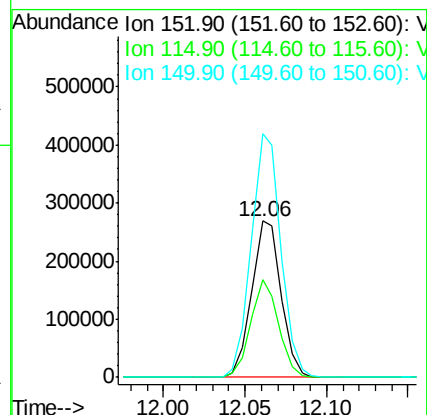
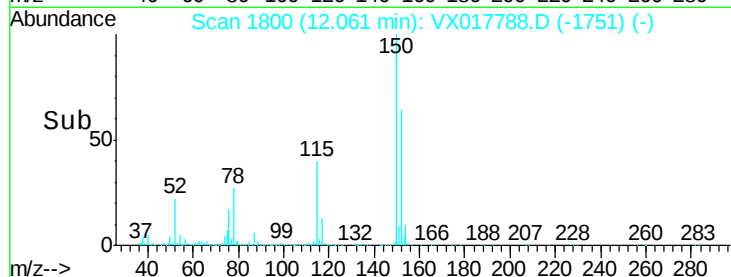
150 156.8 0.0 412.6



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: 27.463 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017788.D

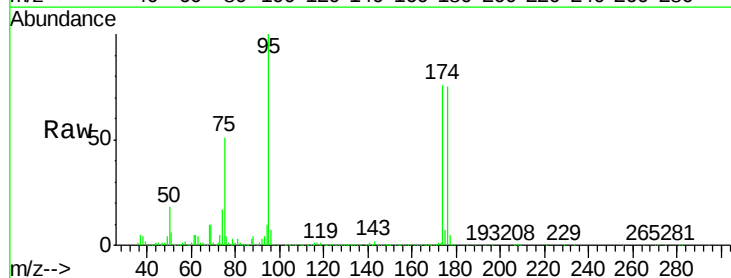
Acq: 05 Aug 2020 11:10

Tgt Ion: 75 Resp: 191835

Ion Ratio Lower Upper

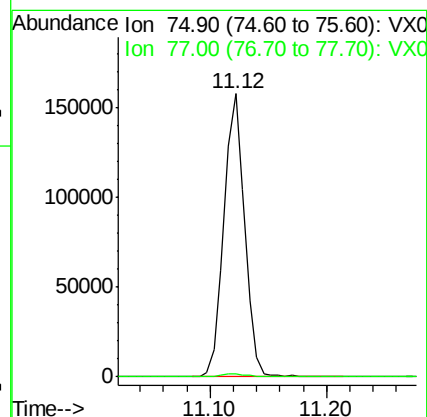
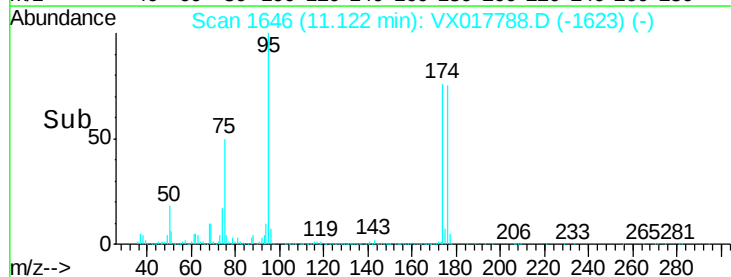
75 100

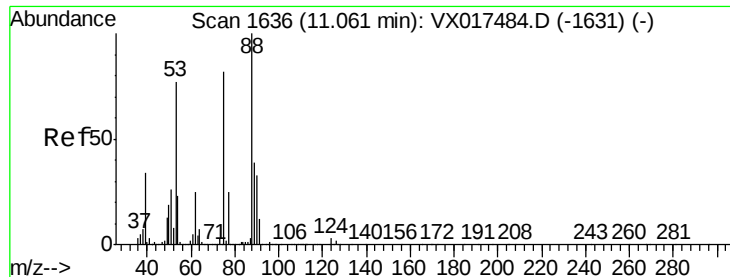
77 1.5 21.8 65.3#



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: 69.201 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0805WBL01

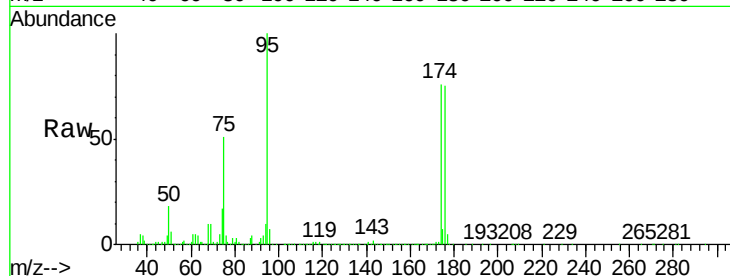
Tot Ion: 75 Resp: 191835

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

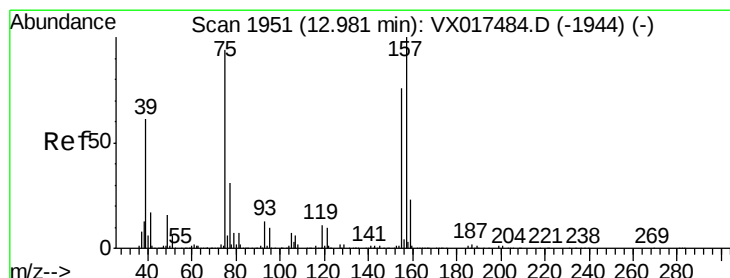
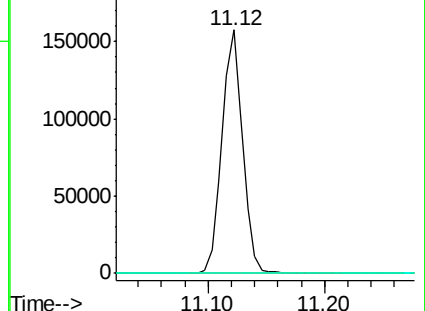
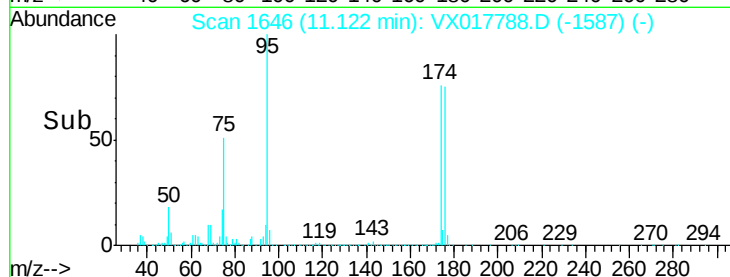
89 0.0 37.8 56.6#



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: 2.682 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX017788.D

Acq: 05 Aug 2020 11:10

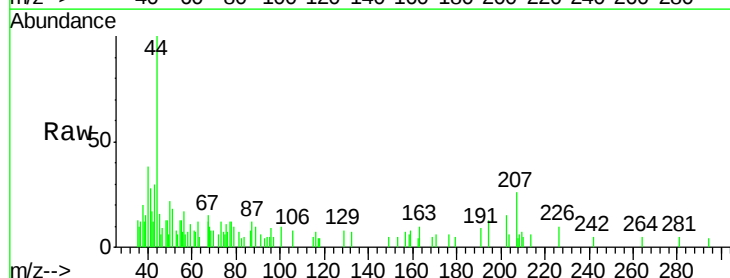
Tgt Ion: 75 Resp: 229

Ion Ratio Lower Upper

75 100

155 34.5 42.3 126.8#

157 13.5 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

