

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100920\
 Data File : VX018885.D
 Acq On : 10 Oct 2020 03:58
 Operator : JC/SP
 Sample : L4303-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FC-MW10S-20201002

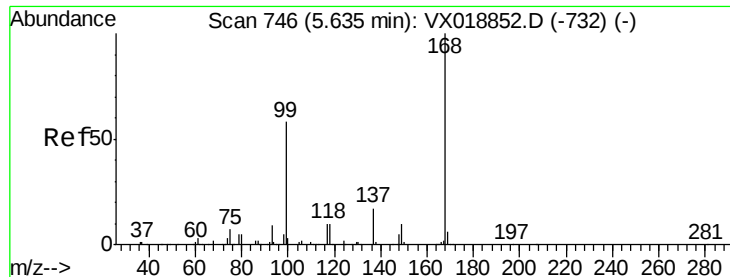
Quant Time: Oct 10 06:29:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	203534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	325845	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	324747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	164599	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	156466	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
35) Dibromofluoromethane	5.47	113	116849	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
50) Toluene-d8	8.70	98	402603	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.12	95	153220	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	21	1.627	ug/l #	43
3) Chloromethane	1.31	50	3189	1.672	ug/l	93
5) Bromomethane	1.65	94	628	0.529	ug/l #	35
6) Chloroethane	1.73	64	505	0.354	ug/l #	44
8) Diethyl Ether	2.17	74	218	1.212	ug/l	70
10) Methyl Iodide	2.50	142	183	4.071	ug/l #	52
11) Tert butyl alcohol	3.00	59	1282	2.712	ug/l #	92
12) 1,1-Dichloroethene	2.36	96	42	0.727	ug/l #	6
13) Acrolein	2.26	56	130	0.330	ug/l #	67
14) Allyl chloride	2.68	41	1282	0.376	ug/l #	34
16) Acetone	2.42	43	3457	Below Cal	#	76
18) Methyl Acetate	2.76	43	608	0.244	ug/l #	67
20) Methylene Chloride	2.84	84	1759	1.317	ug/l #	80
25) 2-Butanone	4.64	43	429	0.264	ug/l #	50
28) Bromochloromethane	4.98	49	63	1.555	ug/l #	8
31) Cyclohexane	5.63	56	5181	1.848	ug/l #	6
36) 1,1-Dichloropropene	5.63	75	17375	5.072	ug/l #	52
38) Carbon Tetrachloride	5.63	117	22681	5.341	ug/l #	20
49) 1,4-Dioxane	7.71	88	20	0.511	ug/l #	1
56) Ethyl methacrylate	9.14	69	29	2.942	ug/l #	1
64) Tetrachloroethene	9.32	164	84	Below Cal	#	20
76) 1,2,3-Trichloropropane	11.12	75	81776	23.058	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	81776	65.344	ug/l #	7
95) Naphthalene	13.82	128	359	3.107	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

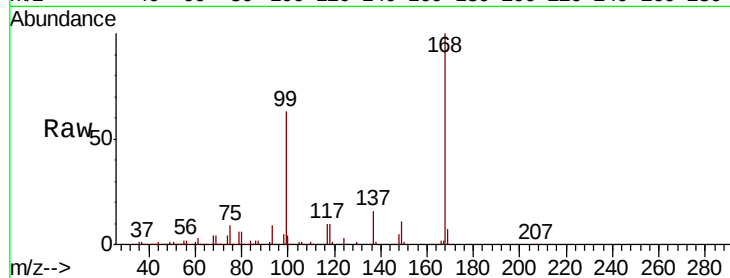
FC-MW10S-20201002

Tot Ion:168 Resp: 203534

Ion Ratio Lower Upper

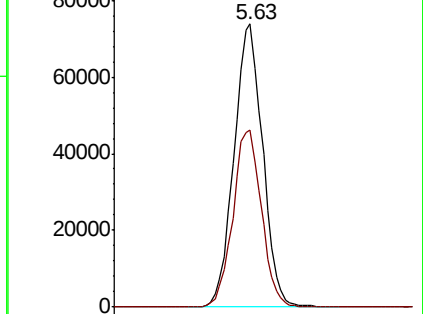
168 100

99 62.7 46.1 69.1

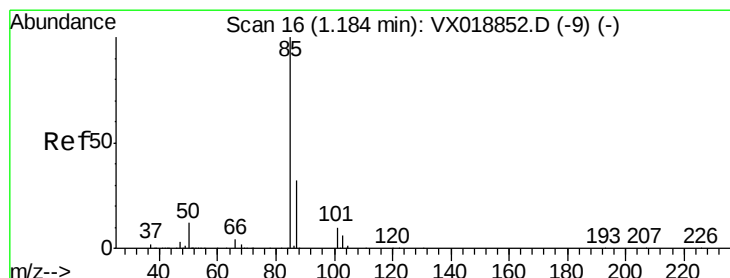
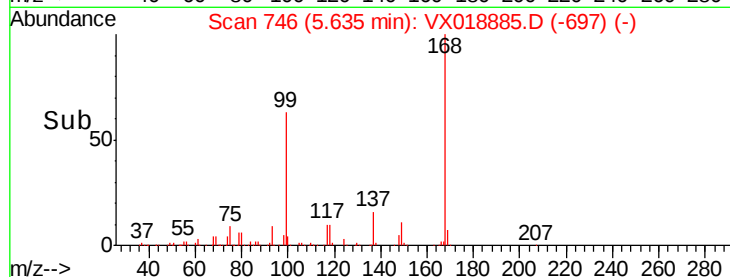


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



Time-->



#2

Dichlorodifluoromethane

Concen: 1.627 ug/l

RT: 1.21 min Scan# 20

Delta R.T. 0.02 min

Lab File: VX018885.D

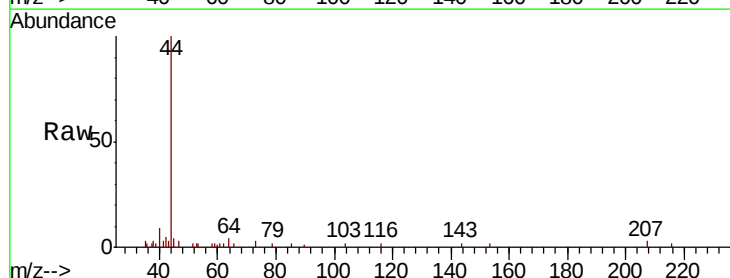
Acq: 10 Oct 2020 03:58

Tgt Ion: 85 Resp: 21

Ion Ratio Lower Upper

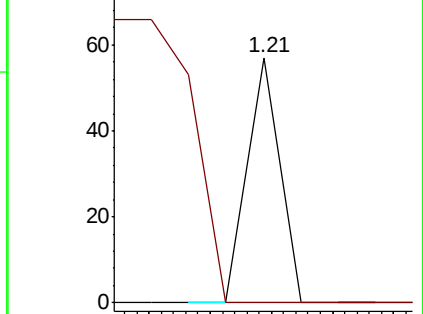
85 100

87 0.0 15.9 47.7#

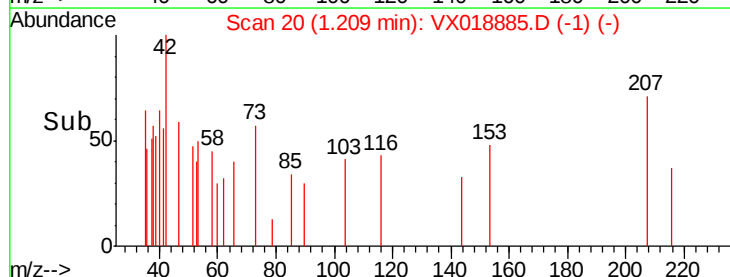


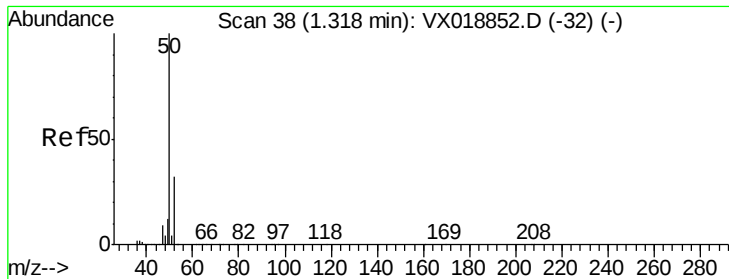
Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0



Time-->





#3

Chloromethane

Concen: 1.672 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

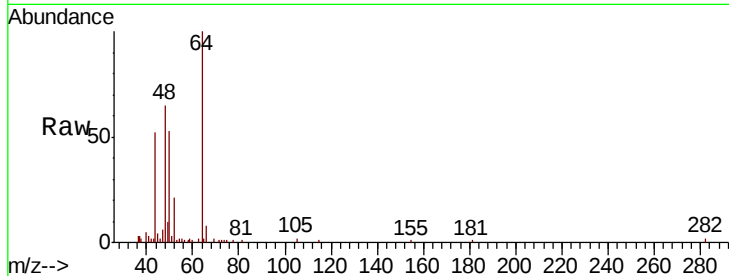
FC-MW10S-20201002

Tot Ion: 50 Resp: 3189

Ion Ratio Lower Upper

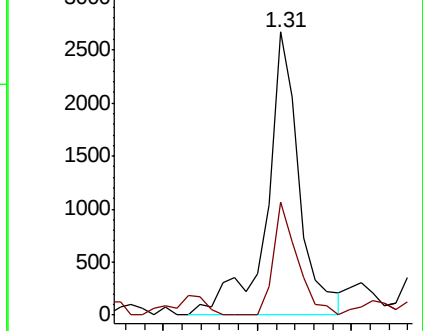
50 100

52 35.6 25.2 37.8

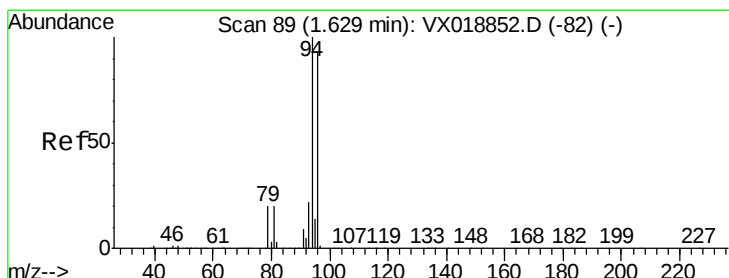
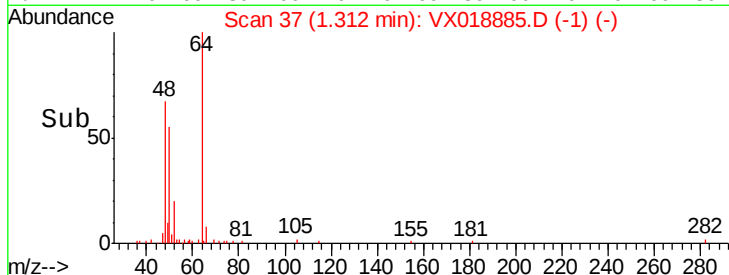


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: 0.529 ug/l

RT: 1.65 min Scan# 93

Delta R.T. 0.02 min

Lab File: VX018885.D

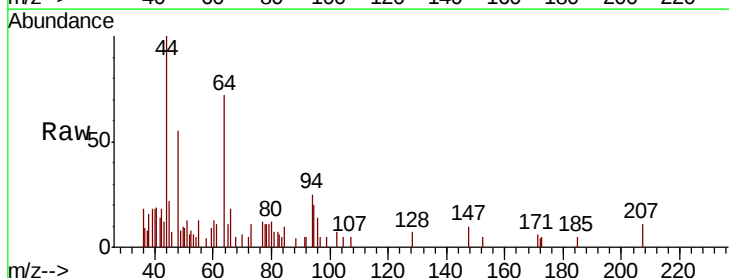
Acq: 10 Oct 2020 03:58

Tgt Ion: 94 Resp: 628

Ion Ratio Lower Upper

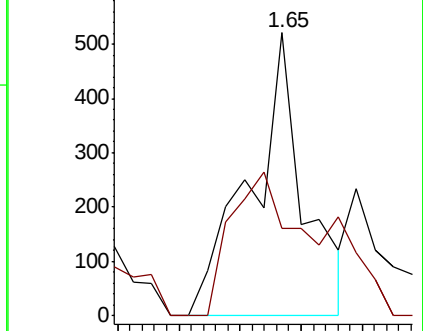
94 100

96 30.9 74.5 111.7#

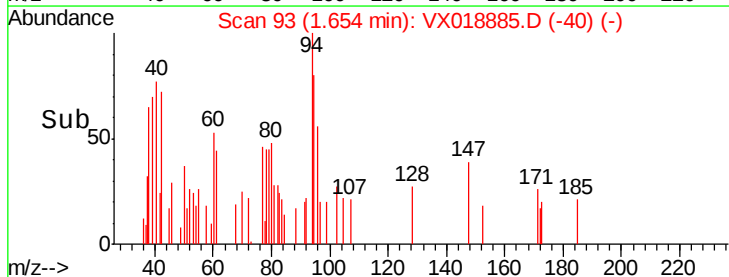


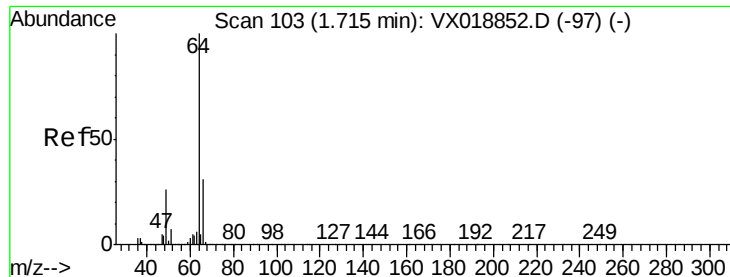
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: 0.354 ug/l

RT: 1.73 min Scan# 106

Delta R.T. 0.02 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

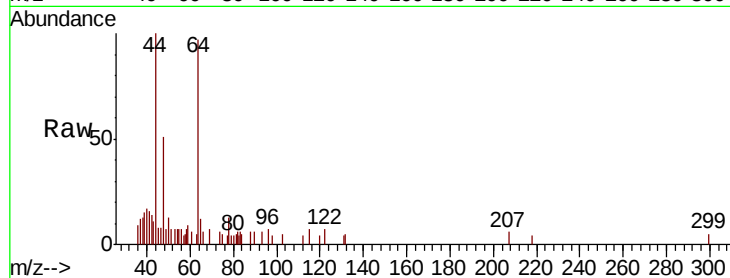
FC-MW10S-20201002

Tot Ion: 64 Resp: 505

Ion Ratio Lower Upper

64 100

66 0.0 24.7 37.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

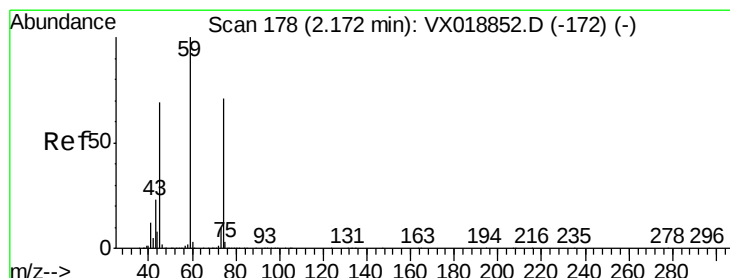
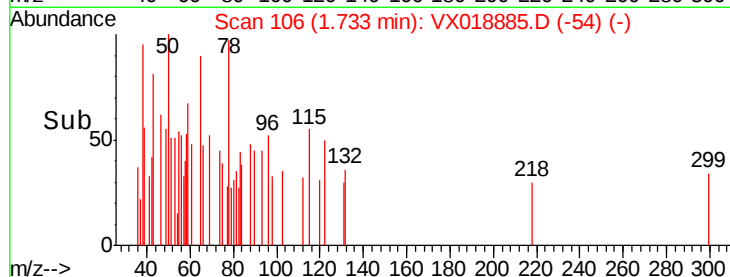
1500

1000

500

0

Time-->



#8

Diethyl Ether

Concen: 1.212 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VX018885.D

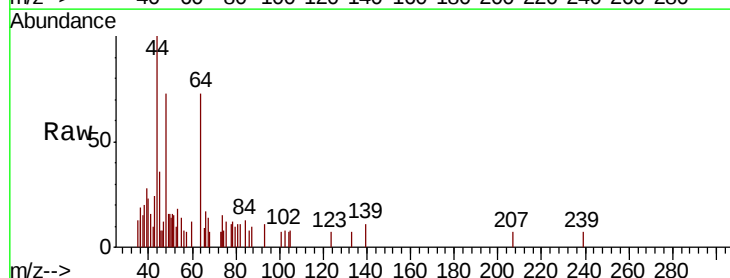
Acq: 10 Oct 2020 03:58

Tgt Ion: 74 Resp: 218

Ion Ratio Lower Upper

74 100

45 65.1 47.0 141.2



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

300

250

200

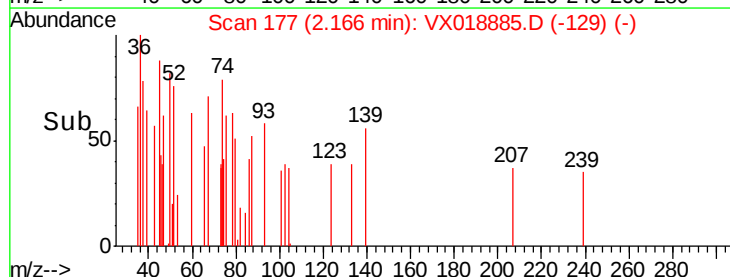
150

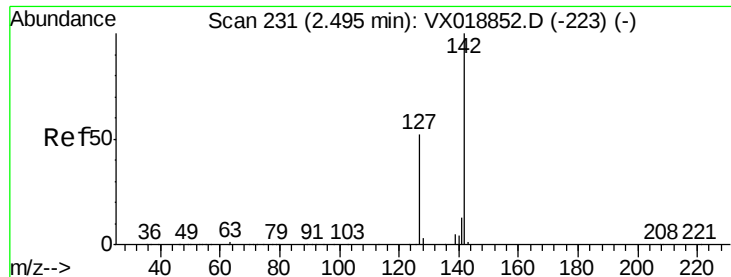
100

50

0

Time-->

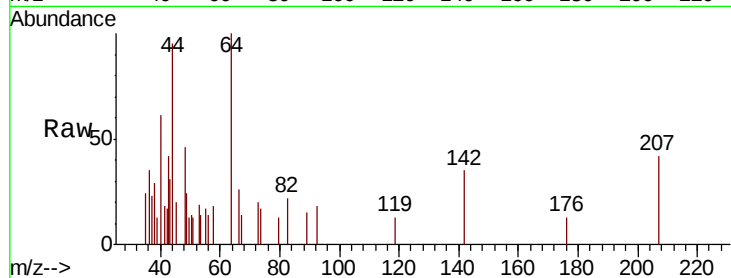




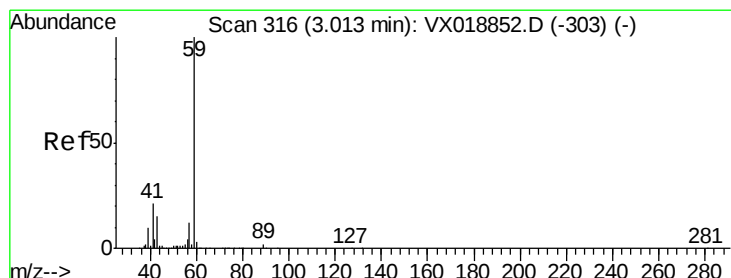
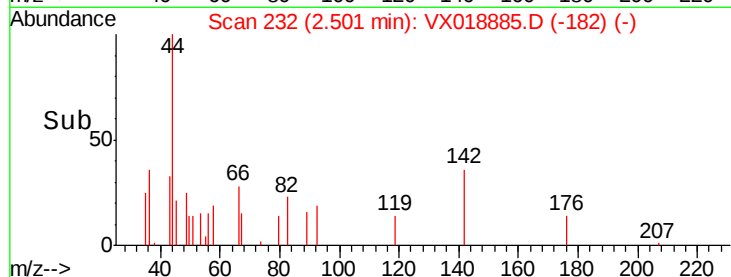
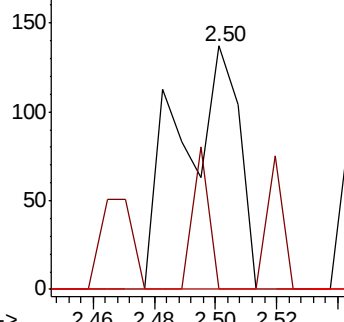
#10
Methyl Iodide
Concen: 4.071 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Instrument :
MSVOA_X
ClientSampleId :
FC-MW10S-20201002

Tot Ion:142 Resp: 183
Ion Ratio Lower Upper
142 100
127 15.8 42.0 63.0#
141 0.0 11.8 17.6#

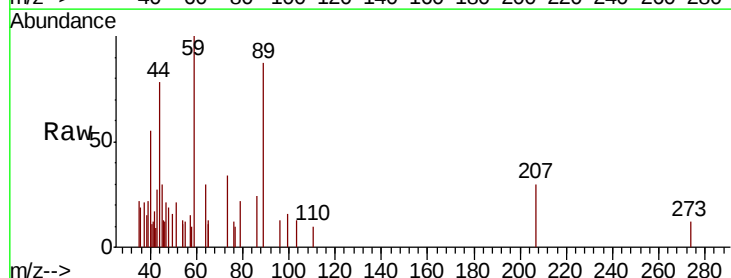


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

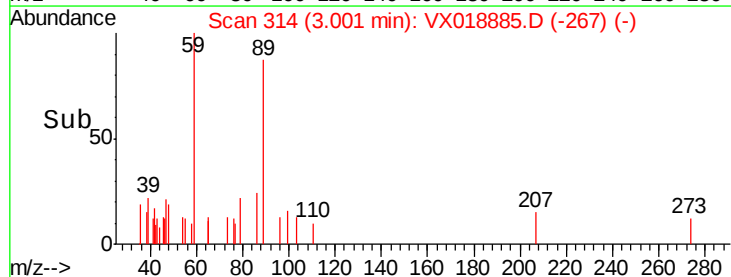
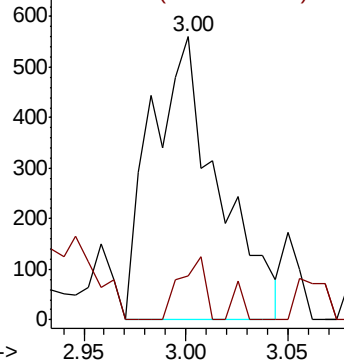


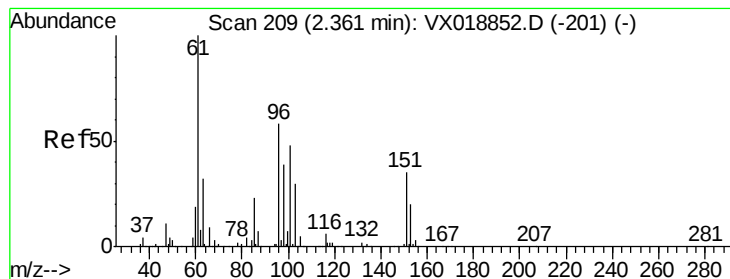
#11
Tert butyl alcohol
Concen: 2.712 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Tgt Ion: 59 Resp: 1282
Ion Ratio Lower Upper
59 100
57 8.3 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.727 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.00 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

FC-MW10S-20201002

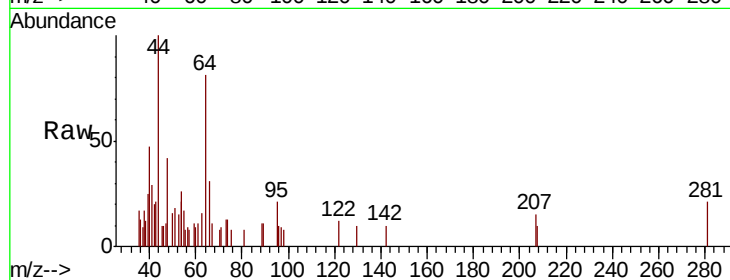
Tot Ion: 96 Resp: 42

Ion Ratio Lower Upper

96 100

61 0.0 137.0 205.6#

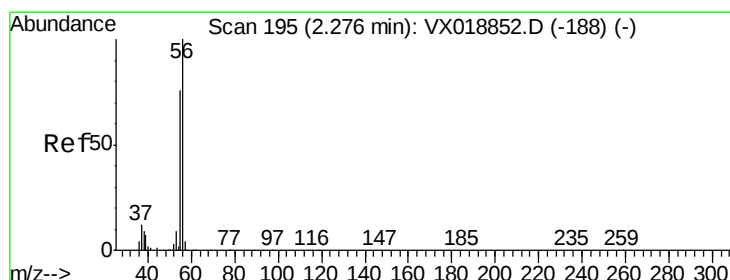
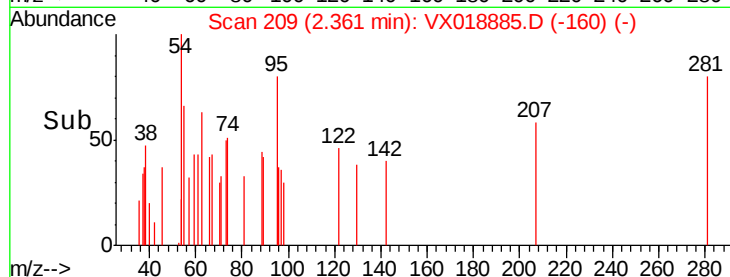
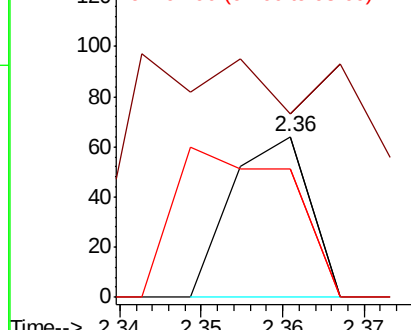
98 79.7 53.9 80.9



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.330 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX018885.D

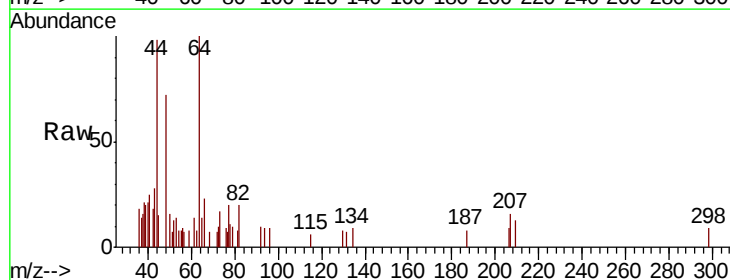
Acq: 10 Oct 2020 03:58

Tgt Ion: 56 Resp: 130

Ion Ratio Lower Upper

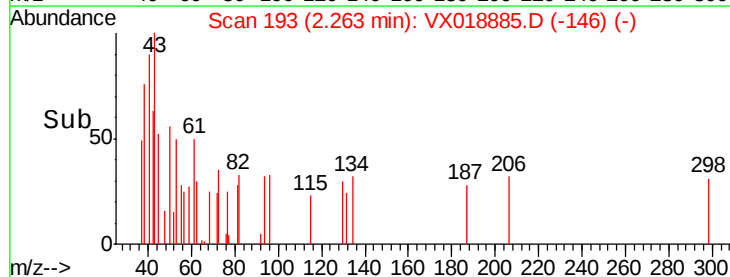
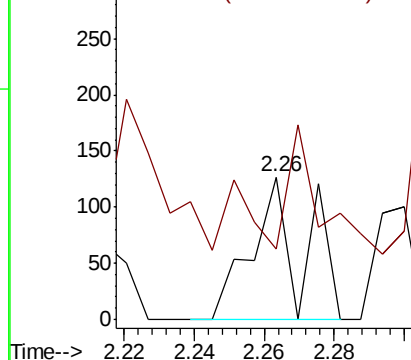
56 100

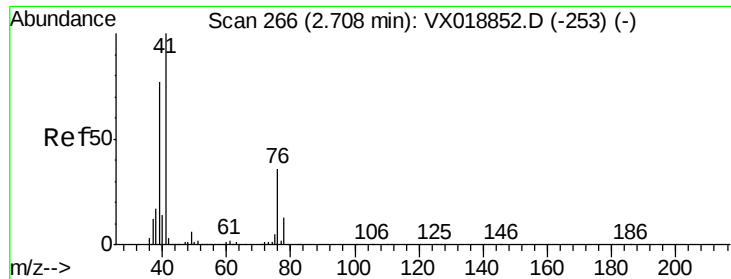
55 100.8 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

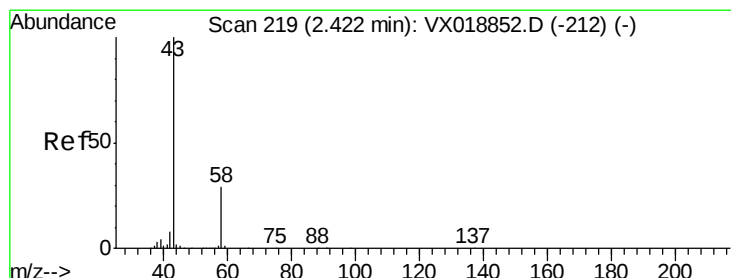
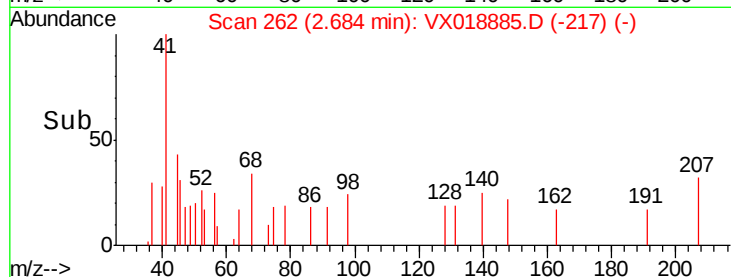
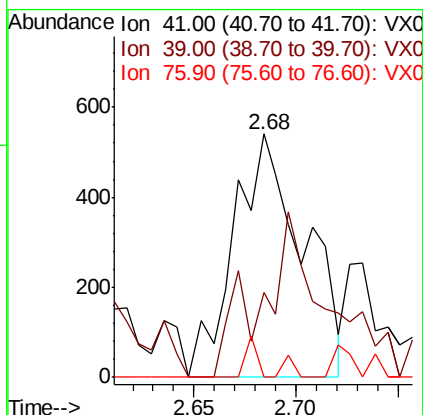
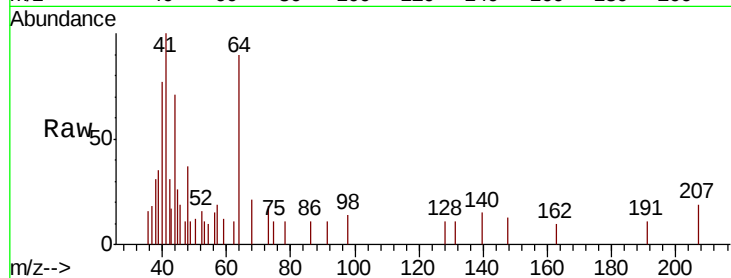




#14
Allvl chloride
Concen: 0.376 ug/l
RT: 2.68 min Scan# 262
Delta R.T. -0.02 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

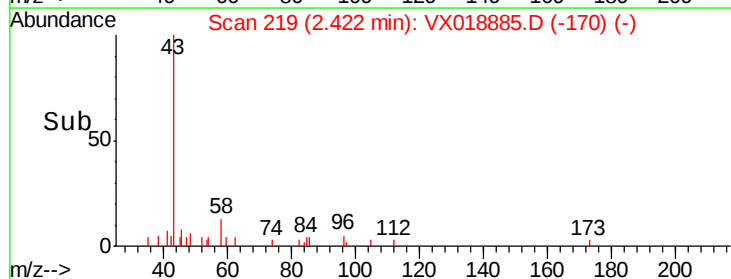
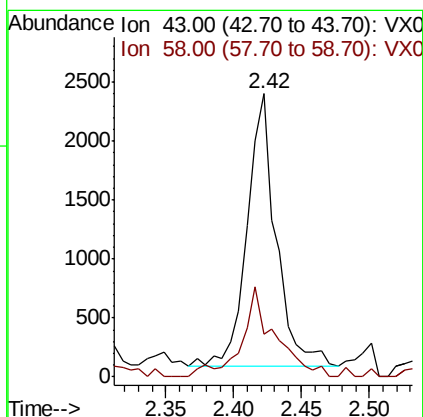
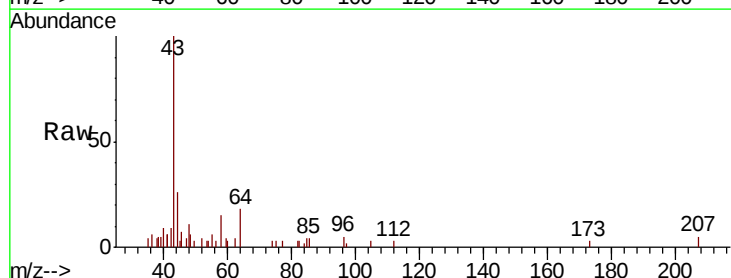
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FC-MW10S-20201002

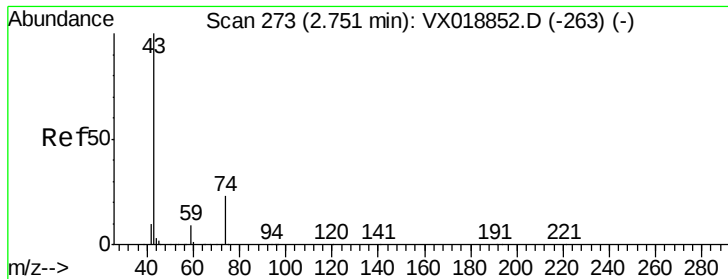
Tot Ion: 41 Resp: 1282
Ion Ratio Lower Upper
41 100
39 12.5 57.8 86.8#
76 2.7 26.8 40.2#



#16
Acetone
Concen: Below Cal
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Tgt Ion: 43 Resp: 3457
Ion Ratio Lower Upper
43 100
58 15.8 23.0 34.4#

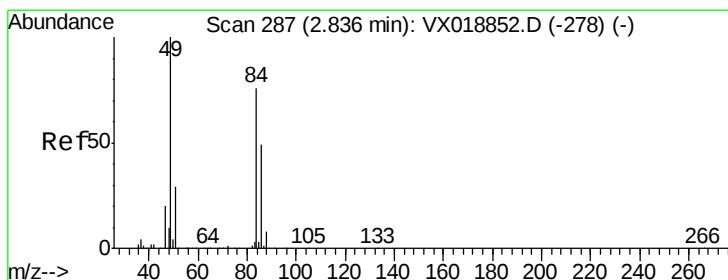
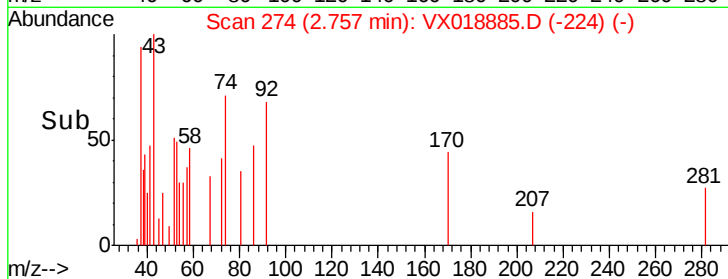
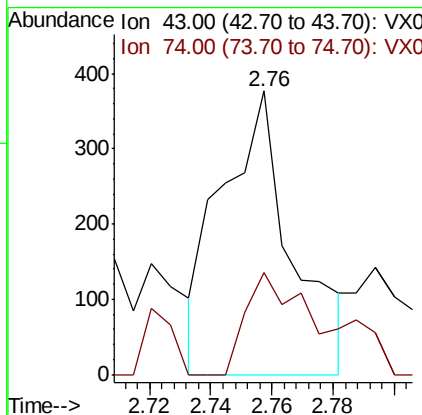
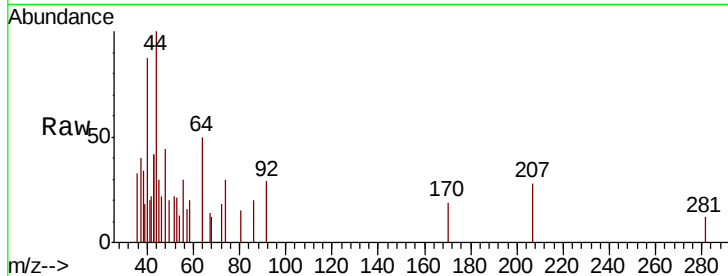




#18
Methyl Acetate
Concen: 0.244 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

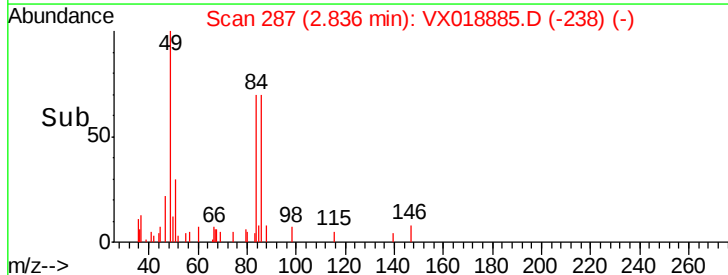
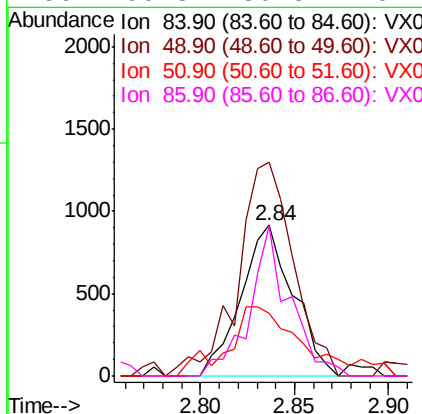
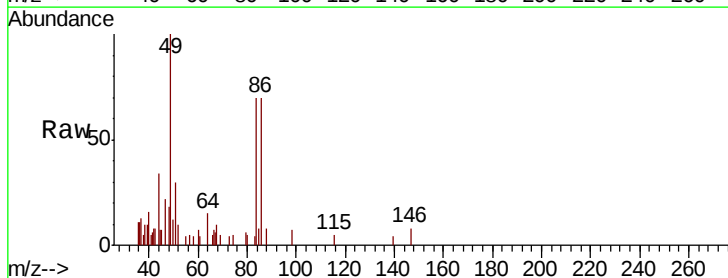
Instrument :
MSVOA_X
ClientSampleId :
FC-MW10S-20201002

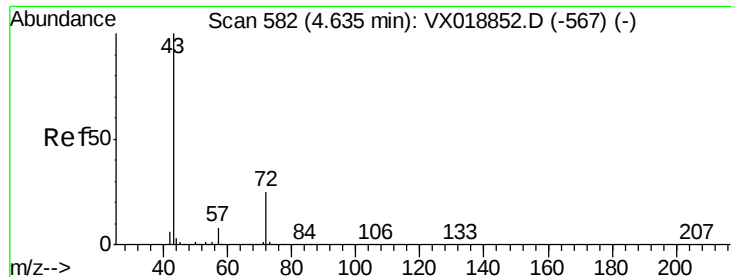
Tot Ion: 43 Resp: 608
Ion Ratio Lower Upper
43 100
74 39.8 18.9 28.3#



#20
Methylene Chloride
Concen: 1.317 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Tgt Ion: 84 Resp: 1759
Ion Ratio Lower Upper
84 100
49 141.9 104.8 157.2
51 32.2 30.6 46.0
86 99.8 50.8 76.2#





#25

2-Butanone

Concen: 0.264 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

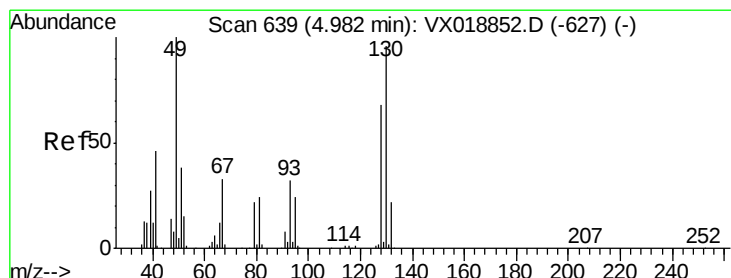
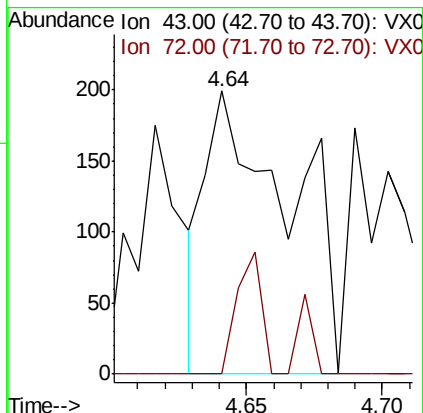
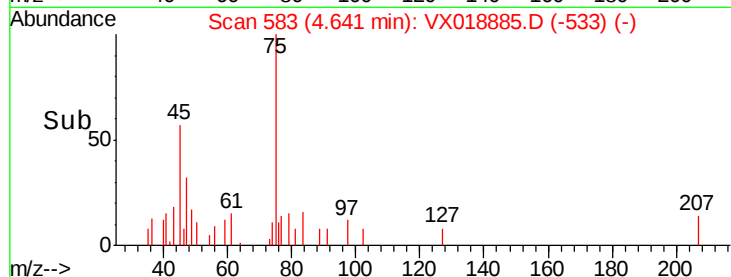
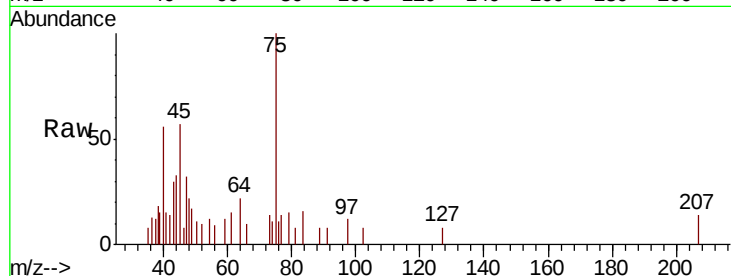
FC-MW10S-20201002

Tot Ion: 43 Resp: 429

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.4#



#28

Bromochloromethane

Concen: 1.555 ug/l

RT: 4.98 min Scan# 638

Delta R.T. -0.01 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

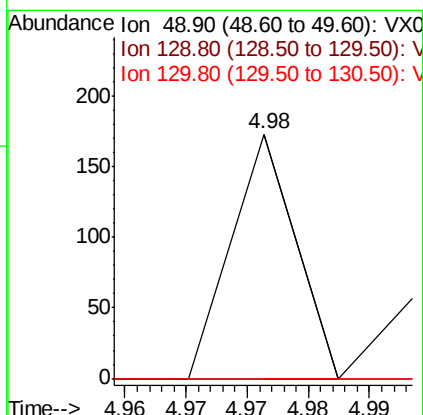
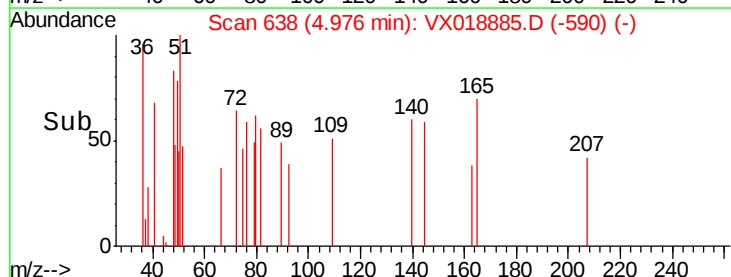
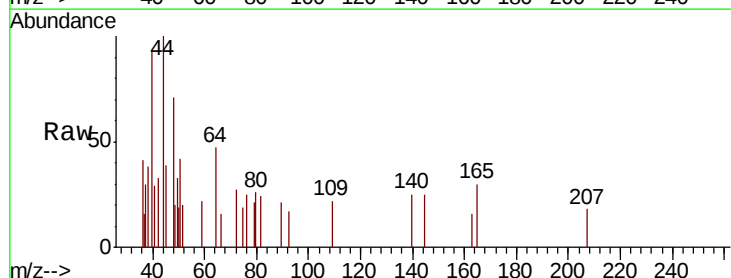
Tgt Ion: 49 Resp: 63

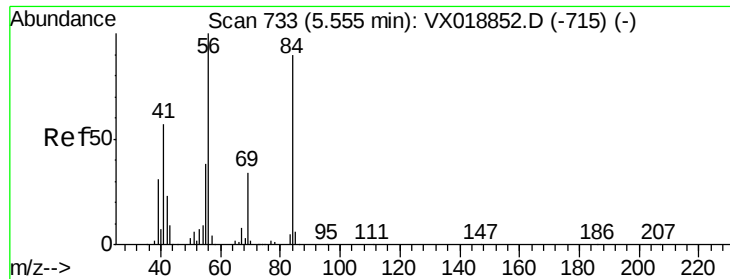
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 0.0 71.2 106.8#

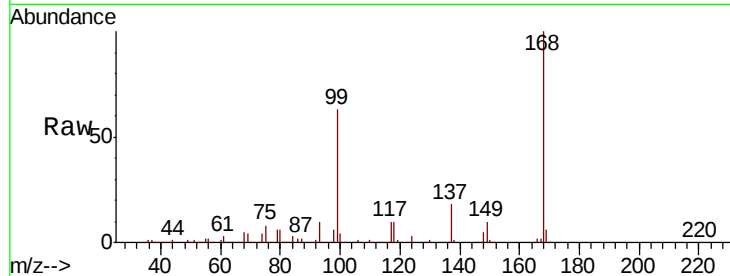




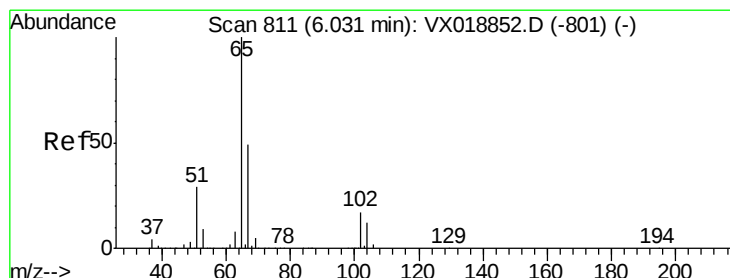
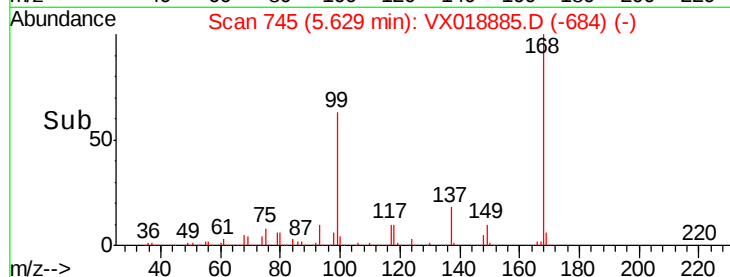
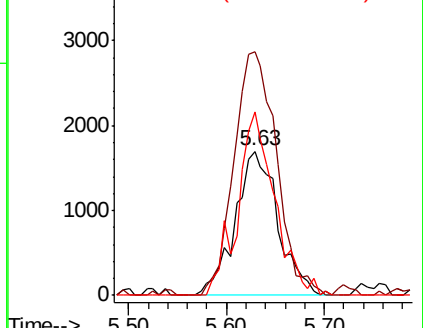
#31
Cyclohexane
Concen: 1.848 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Instrument :
MSVOA_X
ClientSampleId :
FC-MW10S-20201002

Tot Ion: 56 Resp: 5181
Ion Ratio Lower Upper
56 100
69 168.9 27.1 40.7#
84 127.5 71.7 107.5#

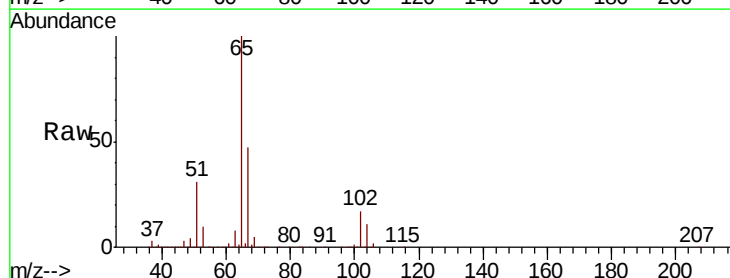


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

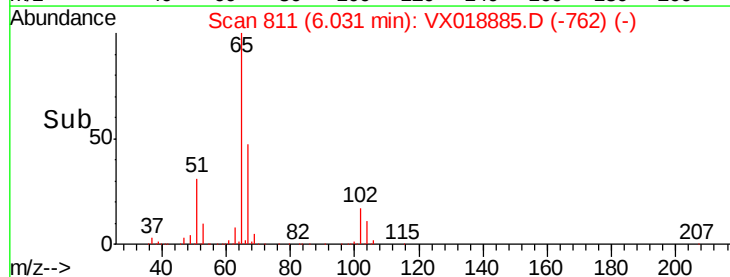
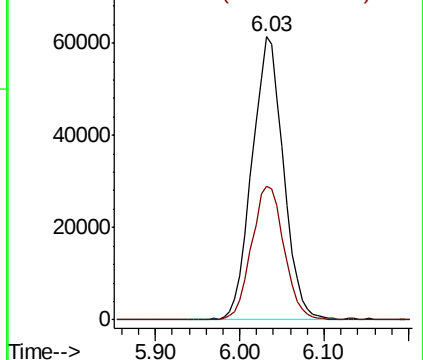


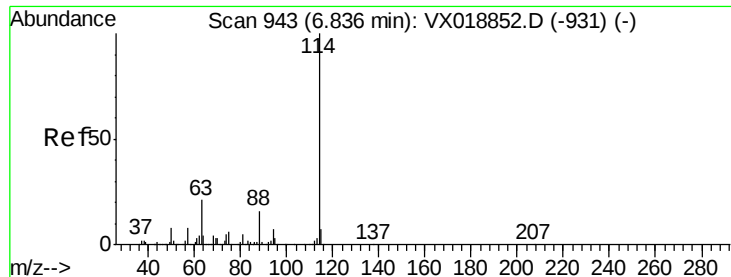
#33
1,2-Dichloroethane-d4
Concen: 52.122 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Tgt Ion: 65 Resp: 156466
Ion Ratio Lower Upper
65 100
67 48.8 0.0 97.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

FC-MW10S-20201002

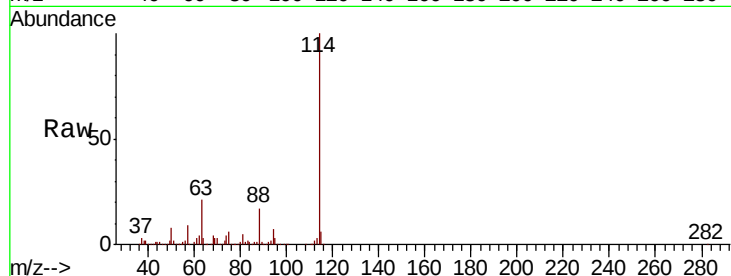
Tot Ion:114 Resp: 325845

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.4

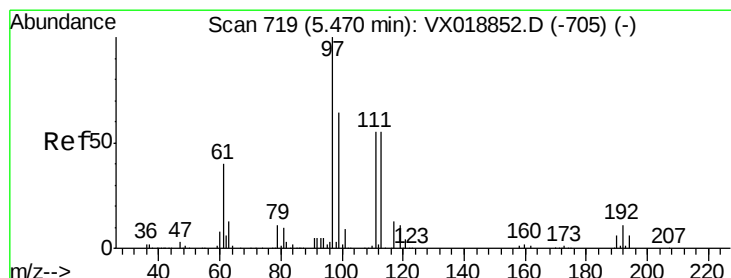
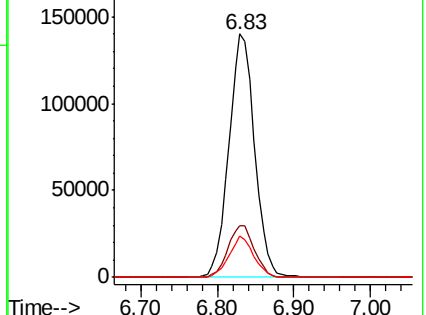
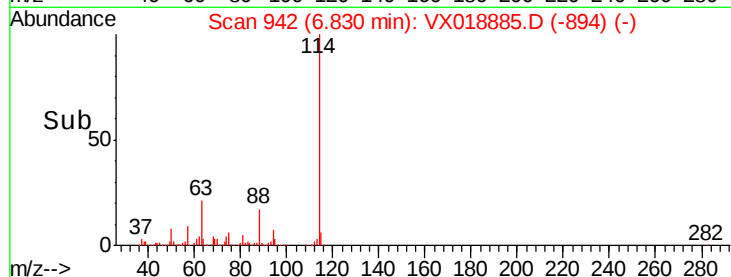
88 16.9 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.319 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

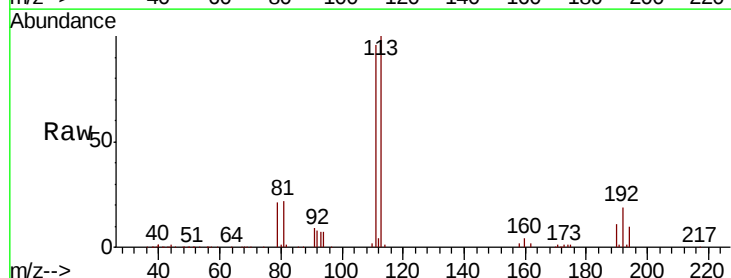
Tgt Ion:113 Resp: 116849

Ion Ratio Lower Upper

113 100

111 101.3 80.1 120.1

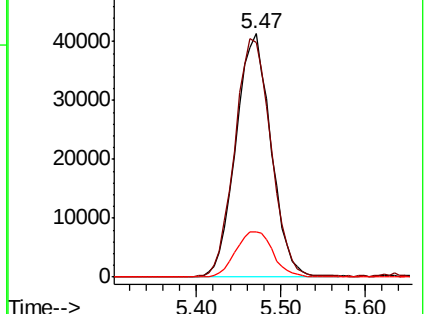
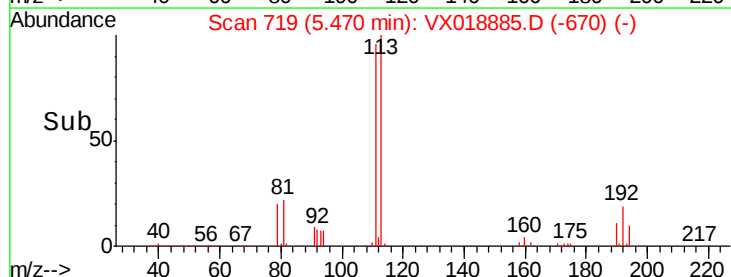
192 19.9 16.0 24.0

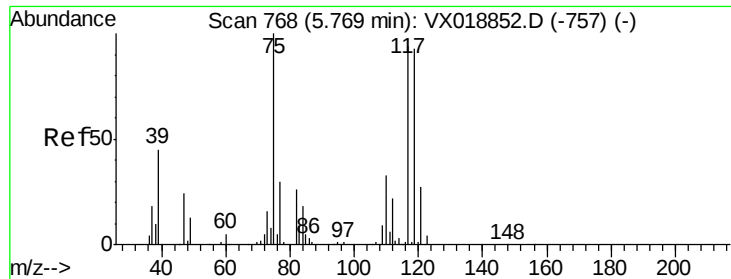


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.072 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

FC-MW10S-20201002

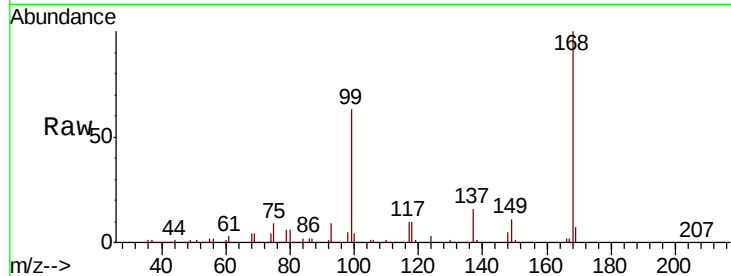
Tot Ion: 75 Resp: 17375

Ion Ratio Lower Upper

75 100

110 10.9 17.8 53.5#

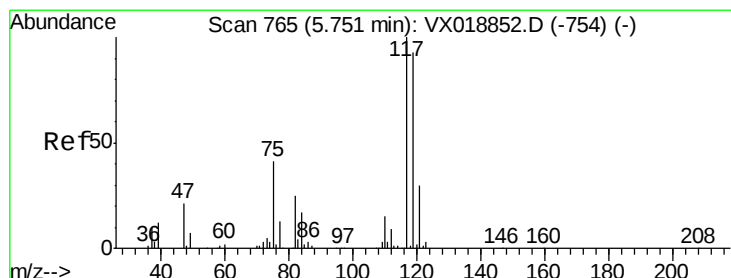
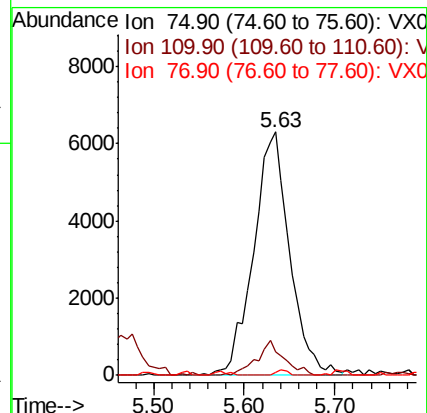
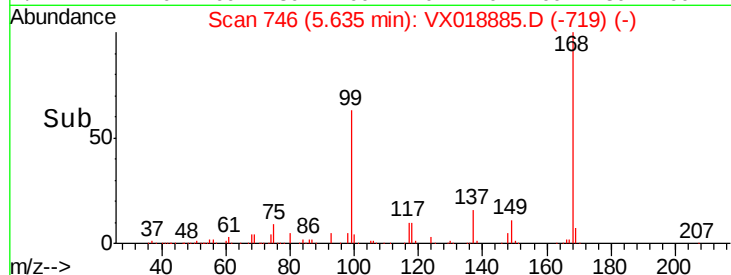
77 0.7 24.2 36.4#



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: 5.341 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

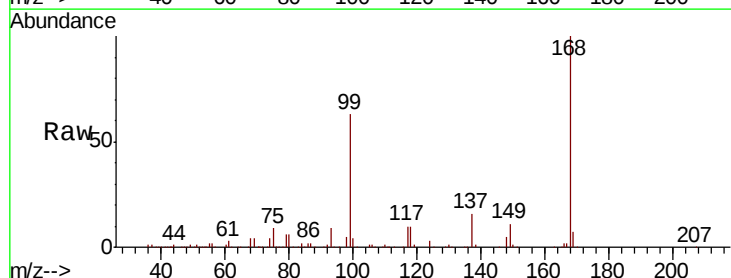
Tgt Ion:117 Resp: 22681

Ion Ratio Lower Upper

117 100

119 8.4 73.9 110.9#

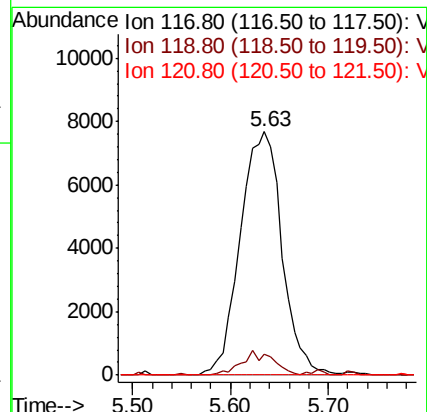
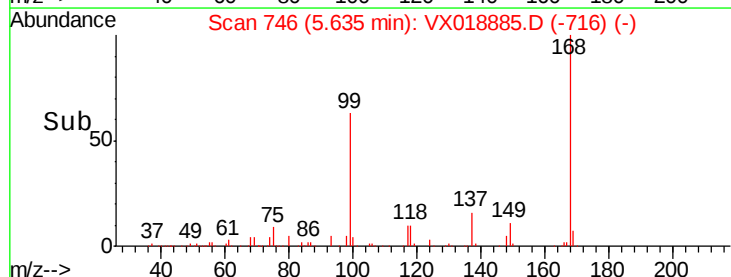
121 0.0 23.6 35.4#

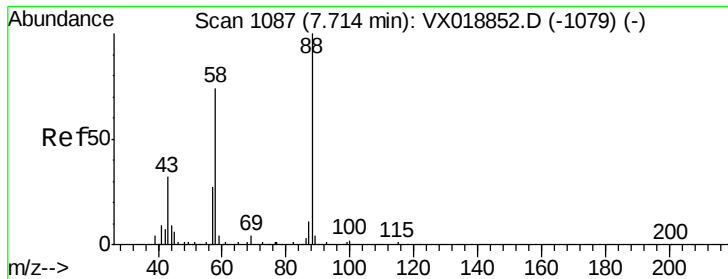


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.511 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

FC-MW10S-20201002

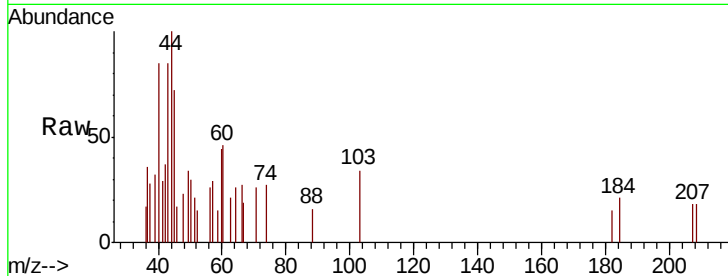
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 425.0 31.0 46.6#

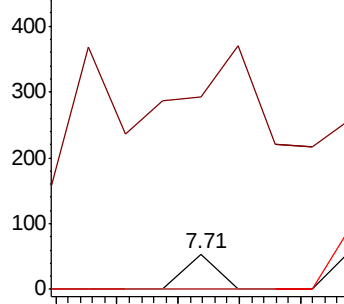
58 0.0 59.3 88.9#



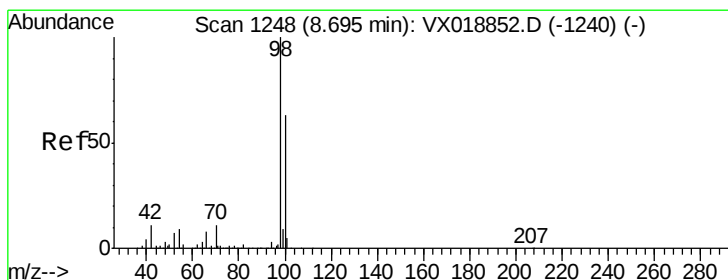
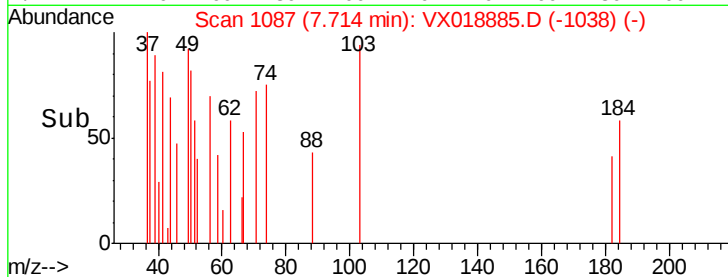
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 49.981 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018885.D

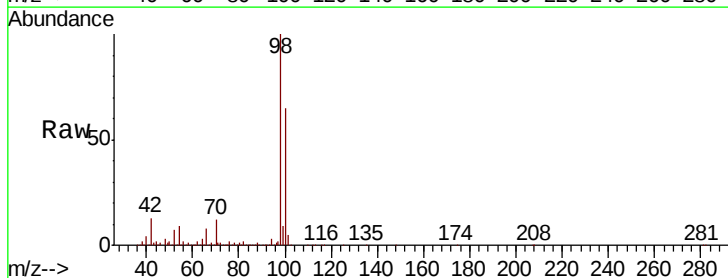
Acq: 10 Oct 2020 03:58

Tgt Ion: 98 Resp: 402603

Ion Ratio Lower Upper

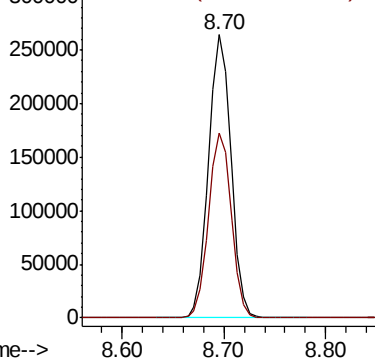
98 100

100 66.1 53.1 79.7

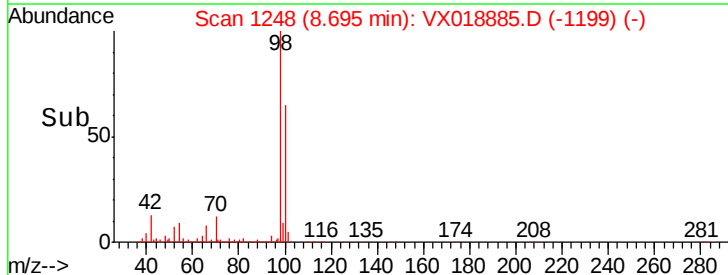


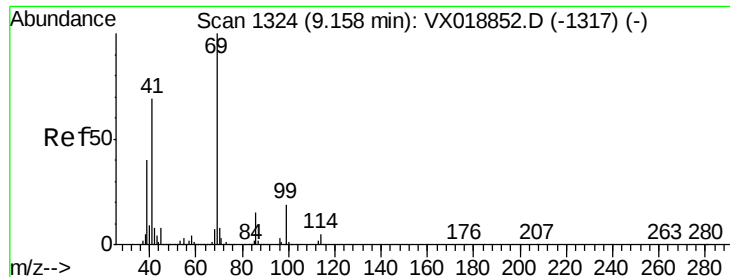
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#56

Ethyl methacrylate

Concen: 2.942 ug/l

RT: 9.14 min Scan# 1321

Delta R.T. -0.02 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

FC-MW10S-20201002

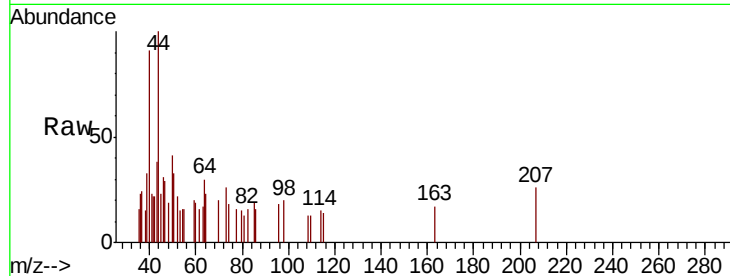
Tot Ion: 69 Resp: 29

Ion Ratio Lower Upper

69 100

41 0.0 54.6 81.8#

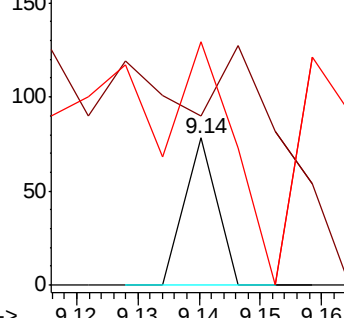
39 1065.5 31.5 47.3#



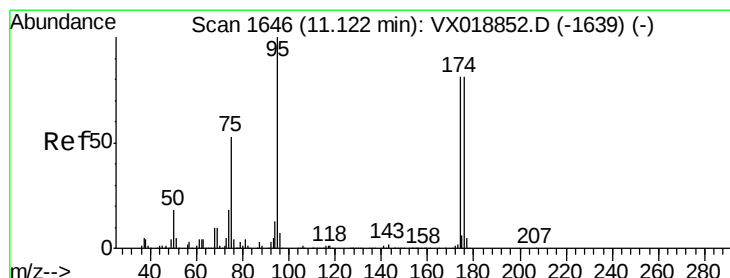
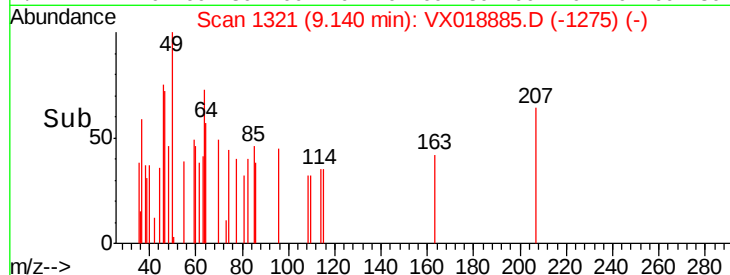
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#62

4-Bromofluorobenzene

Concen: 47.726 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

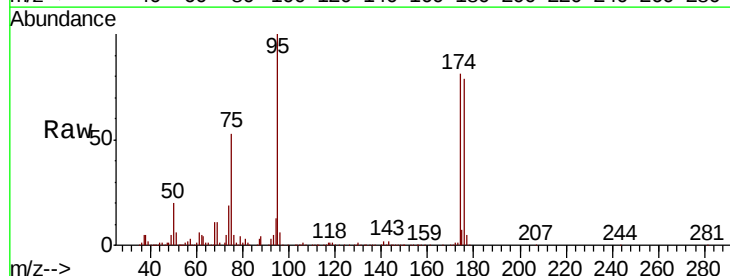
Tgt Ion: 95 Resp: 153220

Ion Ratio Lower Upper

95 100

174 81.5 0.0 160.0

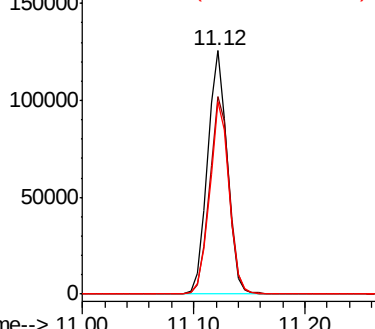
176 78.0 0.0 161.2



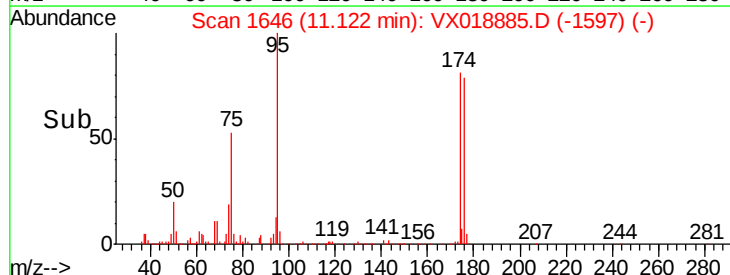
Abundance Ion 94.90 (94.60 to 95.60): VX0

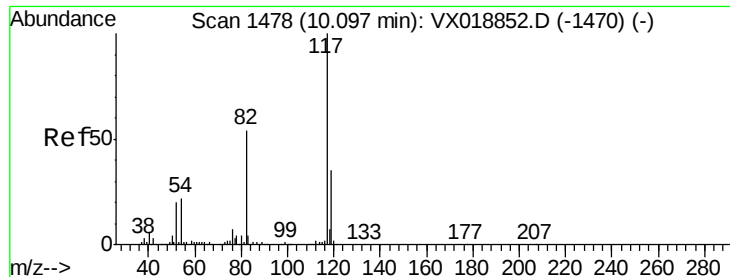
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

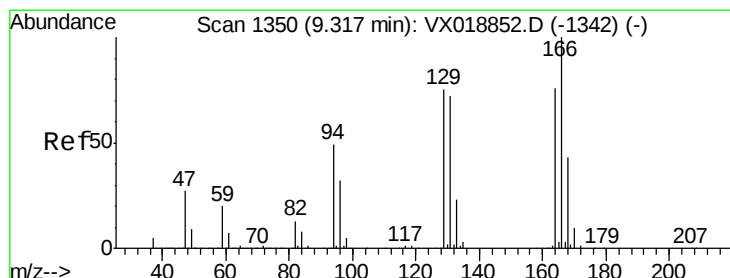
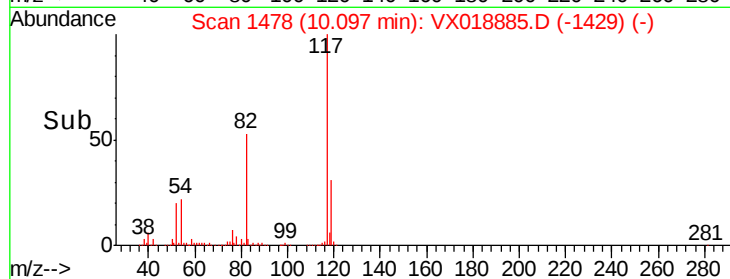
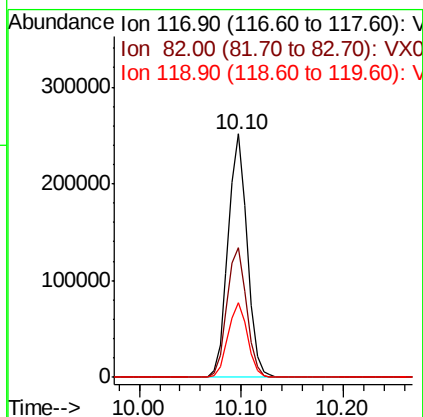
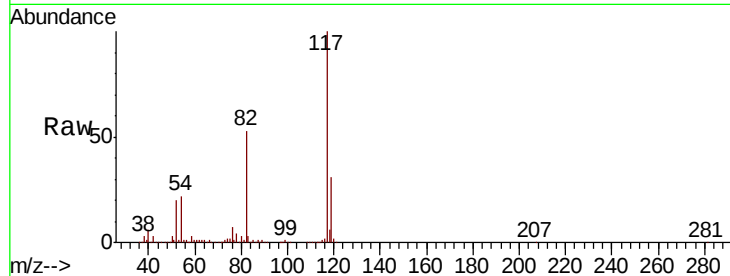




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

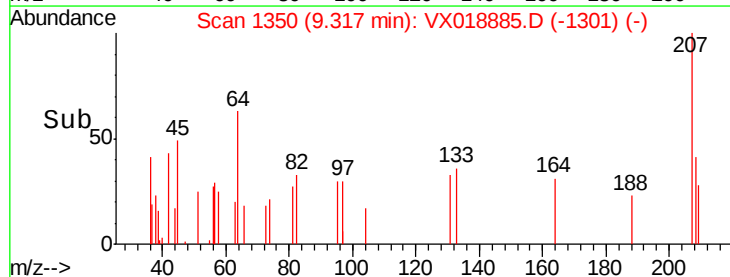
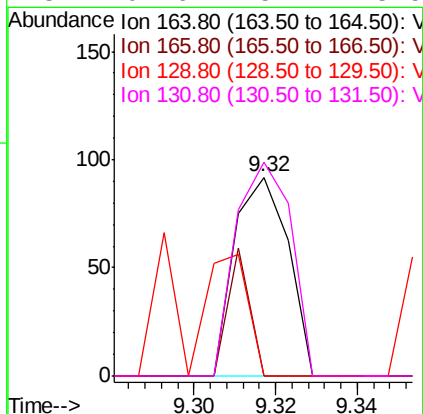
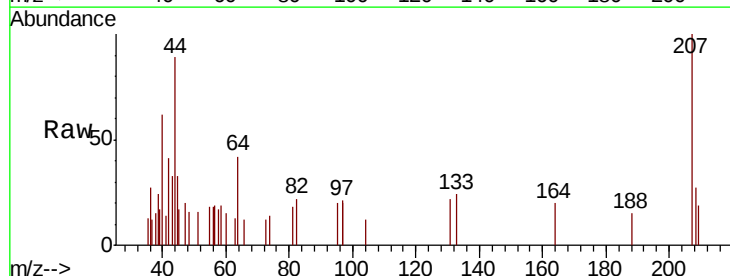
Instrument :
MSVOA_X
ClientSampleId :
FC-MW10S-20201002

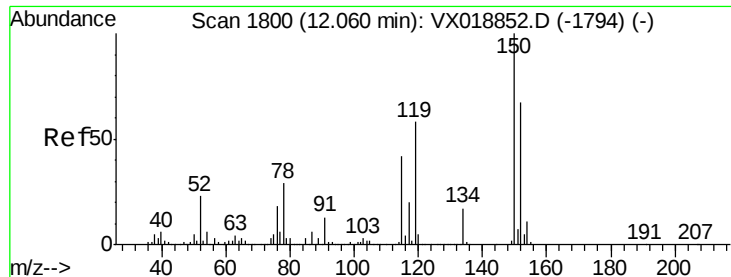
Tot Ion:117 Resp: 324747
Ion Ratio Lower Upper
117 100
82 53.3 43.4 65.2
119 30.7 28.3 42.5



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Tgt Ion:164 Resp: 84
Ion Ratio Lower Upper
164 100
166 0.0 105.4 158.0#
129 0.0 79.0 118.6#
131 107.6 75.7 113.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018885.D

Acq: 10 Oct 2020 03:58

Instrument :

MSVOA_X

ClientSampleId :

FC-MW10S-20201002

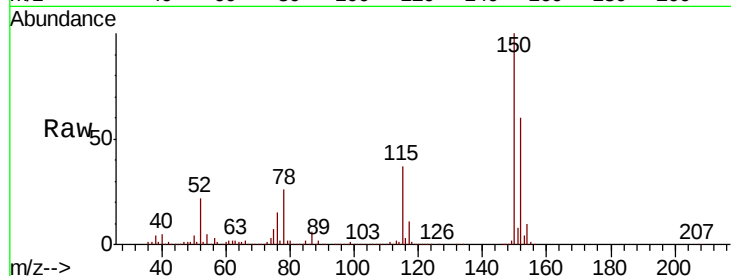
Tot Ion:152 Resp: 164599

Ion Ratio Lower Upper

152 100

115 58.8 41.8 125.4

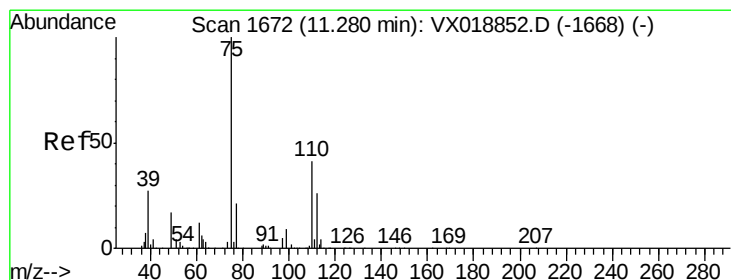
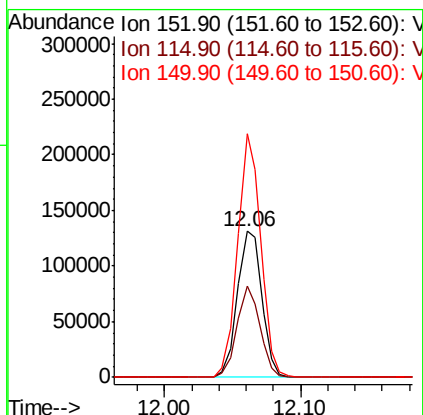
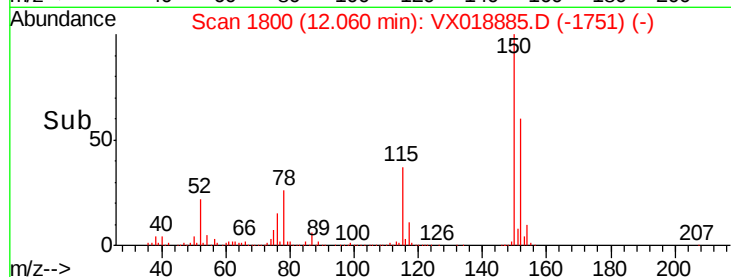
150 157.0 0.0 347.6



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: 23.058 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018885.D

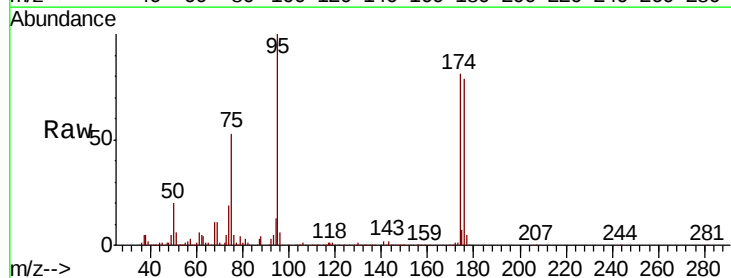
Acq: 10 Oct 2020 03:58

Tgt Ion: 75 Resp: 81776

Ion Ratio Lower Upper

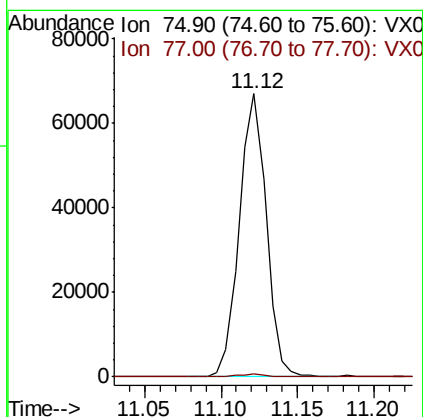
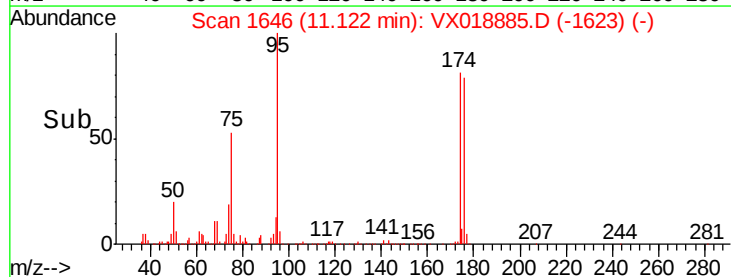
75 100

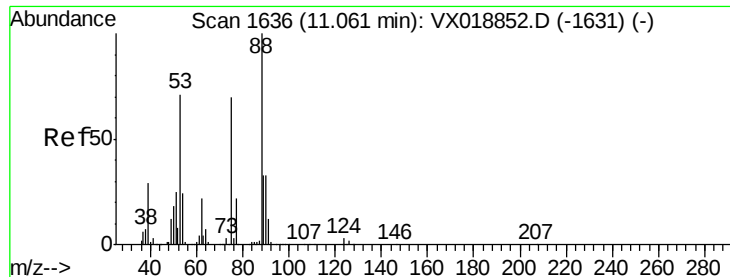
77 1.1 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

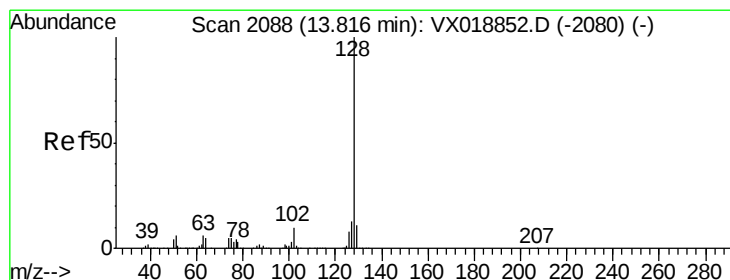
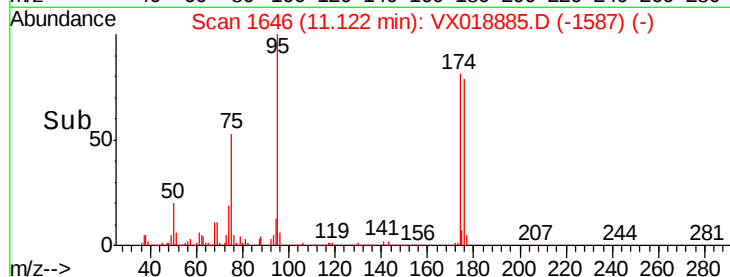
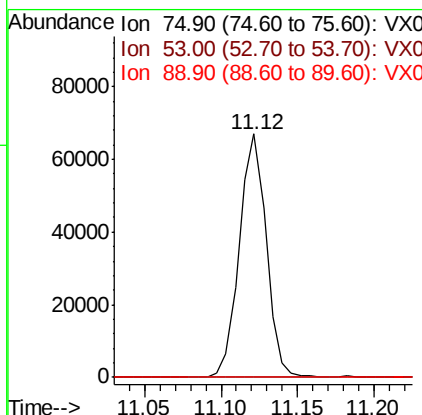
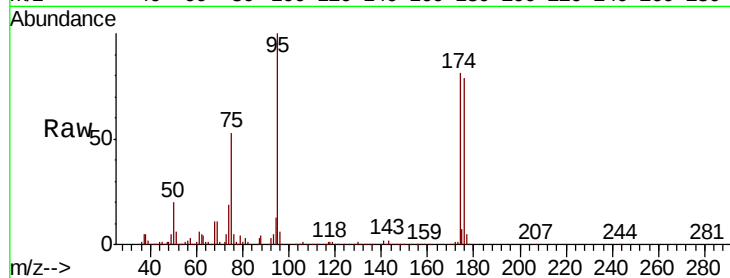




#81
trans-1,4-Dichloro-2-butene
Concen: 65.344 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Instrument :
MSVOA_X
ClientSampleId :
FC-MW10S-20201002

Tot Ion: 75 Resp: 81776
Ion Ratio Lower Upper
75 100
53 0.4 85.0 127.4#
89 0.1 39.0 58.4#



#95
Naphthalene
Concen: 3.107 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018885.D
Acq: 10 Oct 2020 03:58

Tgt Ion: 128 Resp: 359
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.6 13.0#

