

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070618\
 Data File : VX003230.D
 Acq On : 06 Jul 2018 23:20
 Operator : JC/MD
 Sample : J3846-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Quant Time: Jul 07 00:46:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	279592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	390118	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	200275	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	177980	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
35) Dibromofluoromethane	5.51	113	150961	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	8.72	98	540396	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
62) 4-Bromofluorobenzene	11.14	95	197728	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

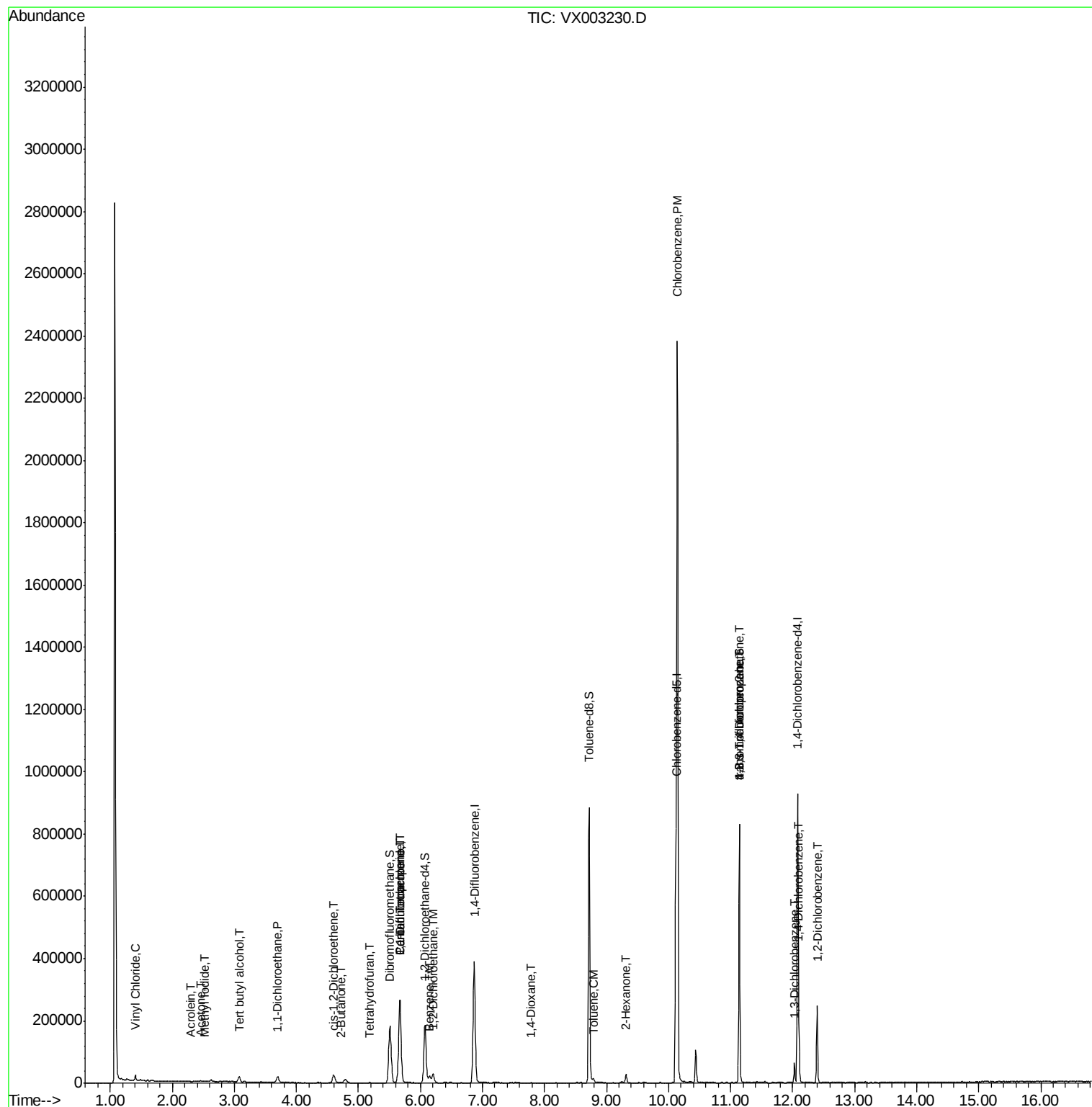
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	128	Below Cal		75
3) Chloromethane	1.33	50	812	Below Cal		99
4) Vinyl Chloride	1.40	62	11214	3.55 ug/l	#	84
5) Bromomethane	1.64	94	1811	Below Cal		97
6) Chloroethane	1.73	64	1136	Below Cal		98
10) Methyl Iodide	2.52	142	2203	6.84 ug/l		98
11) Tert butyl alcohol	3.07	59	22845	29.67 ug/l		96
13) Acrolein	2.29	56	152	4.58 ug/l	#	14
16) Acetone	2.45	43	3179	1.99 ug/l		95
24) 1,1-Dichloroethane	3.70	63	18856	3.34 ug/l		99
25) 2-Butanone	4.71	43	998	0.42 ug/l		94
27) cis-1,2-Dichloroethene	4.60	96	16108	4.78 ug/l		94
29) Tetrahydrofuran	5.18	42	695	0.46 ug/l	#	84
36) 1,1-Dichloropropene	5.67	75	17820	4.17 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	24469	5.21 ug/l	#	16
40) Benzene	6.15	78	24182	1.95 ug/l	#	89
42) 1,2-Dichloroethane	6.20	62	29915	5.96 ug/l		95
49) 1,4-Dioxane	7.77	88	333	4.30 ug/l	#	39
52) Toluene	8.79	92	3292	0.41 ug/l		98
59) 2-Hexanone	9.31	43	15572	4.24 ug/l		80
65) Chlorobenzene	10.14	112	1043782	112.69 ug/l		99
76) 1,2,3-Trichloropropane	11.14	75	96606	26.63 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	96606	75.43 ug/l	#	7
87) 1,3-Dichlorobenzene	12.03	146	21104	3.01 ug/l		98
88) 1,4-Dichlorobenzene	12.10	146	61156	8.48 ug/l		97
91) 1,2-Dichlorobenzene	12.40	146	82253	11.63 ug/l		98

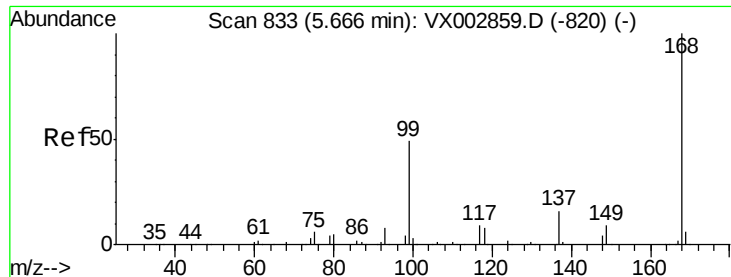
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070618\
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ClientSampleId :
BFB

Quant Time: Jul 07 00:46:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampled :

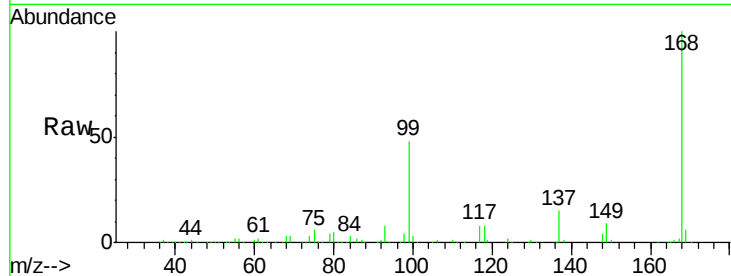
BFB

Tot Ion:168 Resp: 279592

Ion Ratio Lower Upper

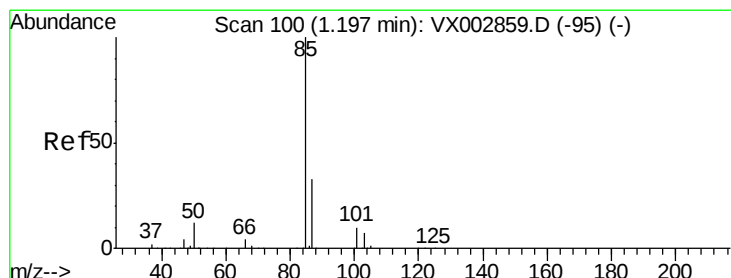
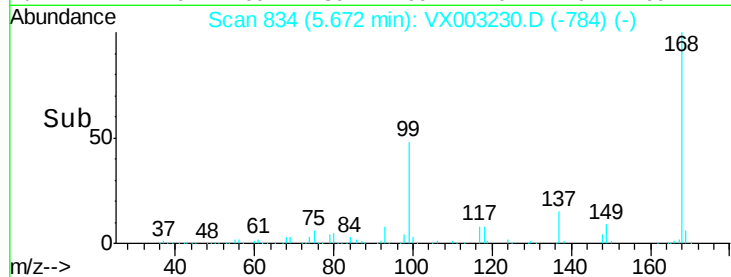
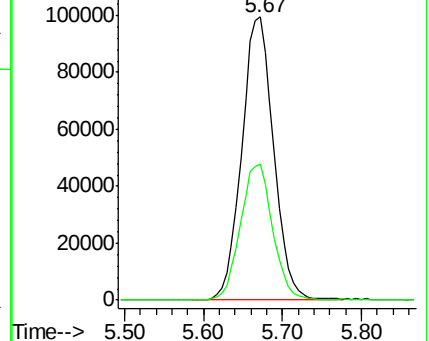
168 100

99 48.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003230.D

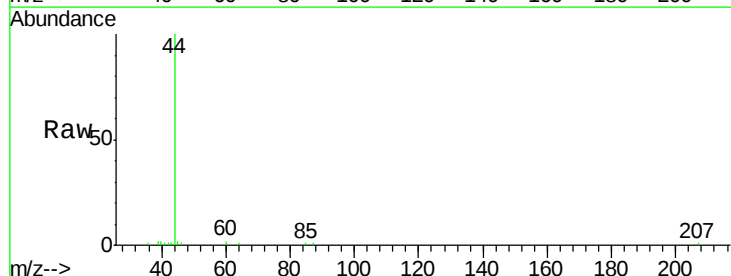
Acq: 06 Jul 2018 23:20

Tgt Ion: 85 Resp: 128

Ion Ratio Lower Upper

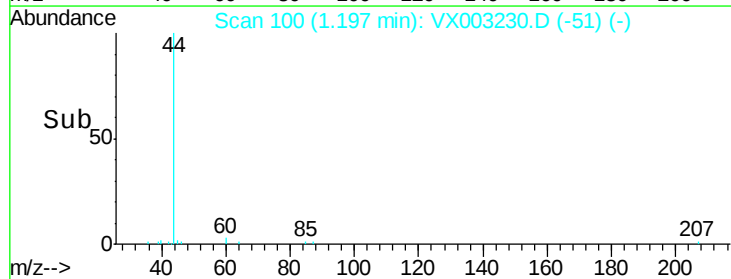
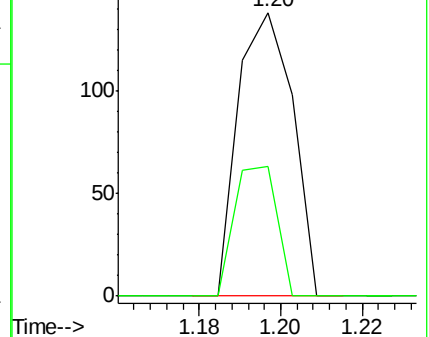
85 100

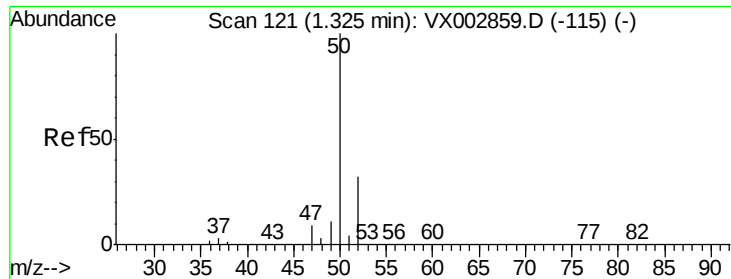
87 45.7 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampleId :

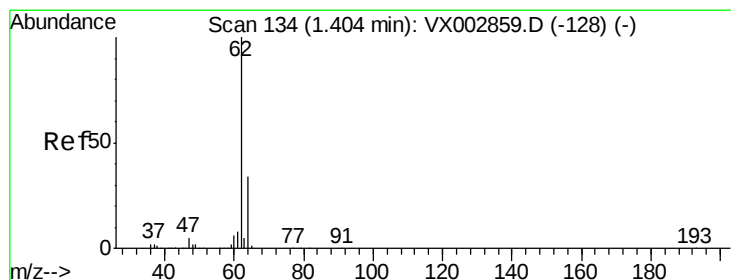
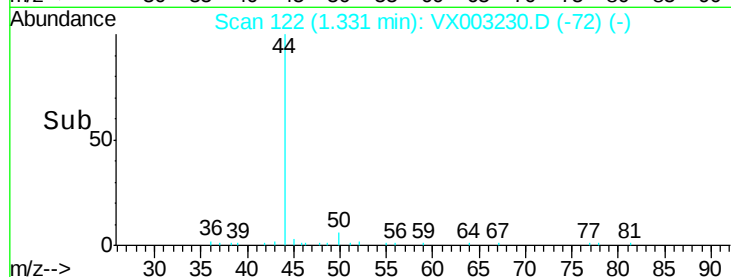
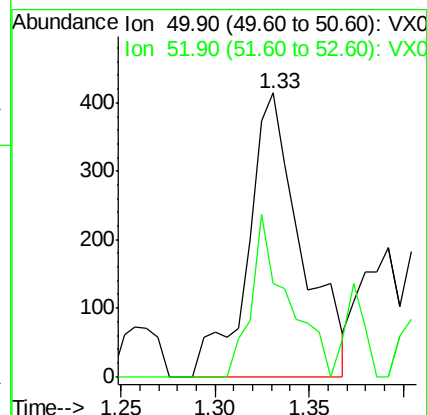
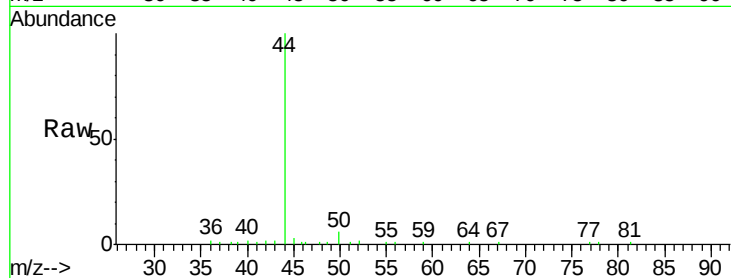
BFB

Tot Ion: 50 Resp: 812

Ion Ratio Lower Upper

50 100

52 32.9 25.7 38.5



#4

Vinyl Chloride

Concen: 3.55 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003230.D

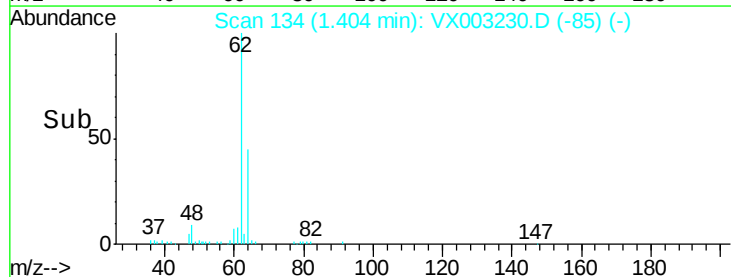
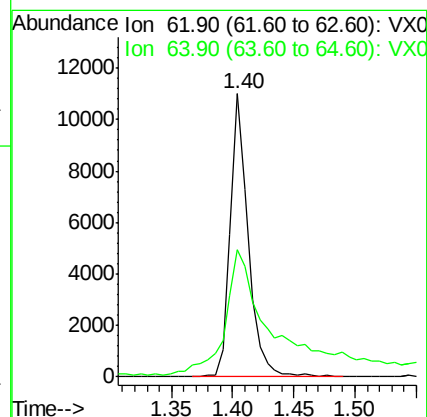
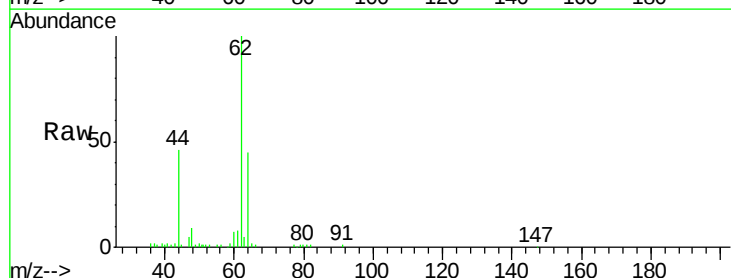
Acq: 06 Jul 2018 23:20

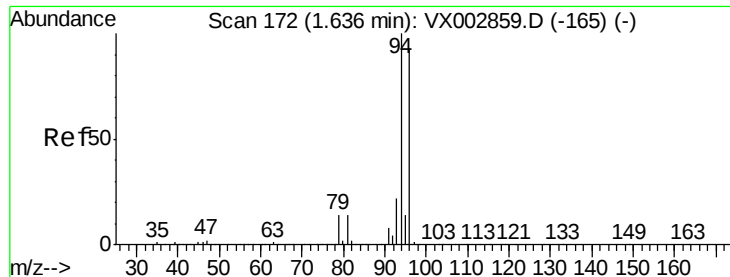
Tgt Ion: 62 Resp: 11214

Ion Ratio Lower Upper

62 100

64 40.6 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampled :

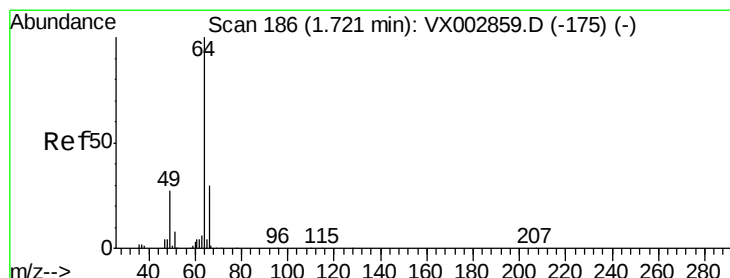
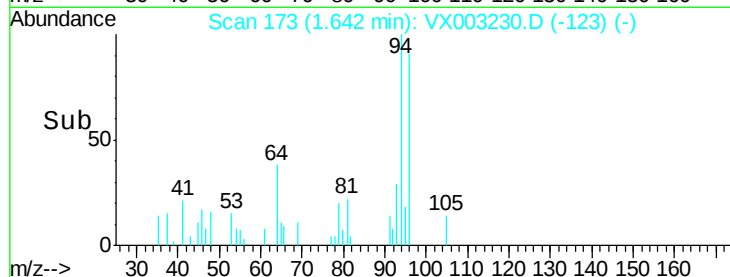
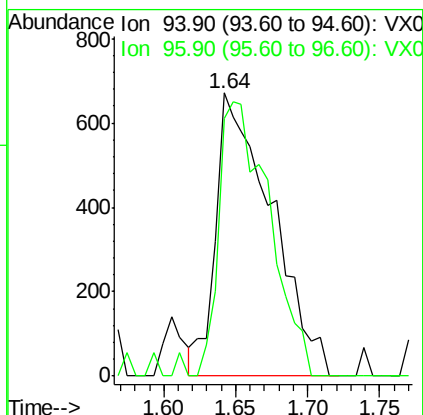
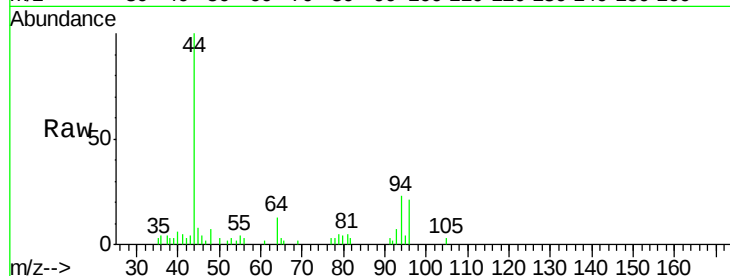
BFB

Tot Ion: 94 Resp: 1811

Ion Ratio Lower Upper

94 100

96 90.9 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003230.D

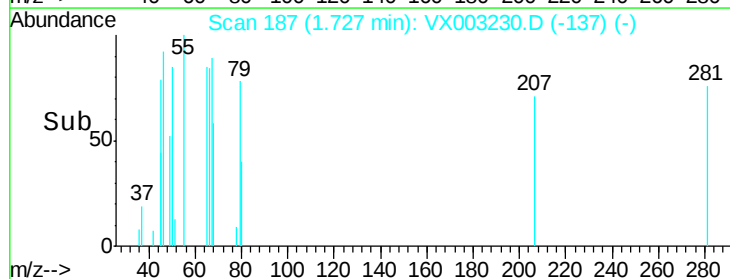
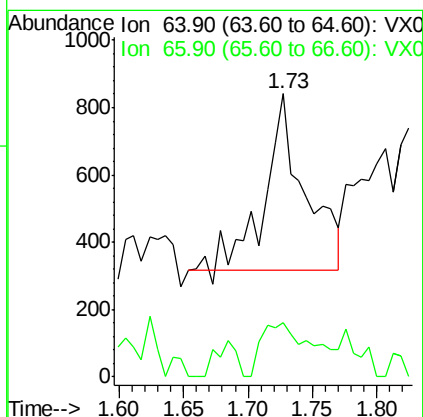
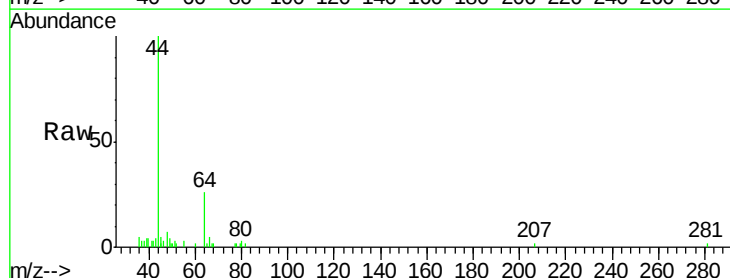
Acq: 06 Jul 2018 23:20

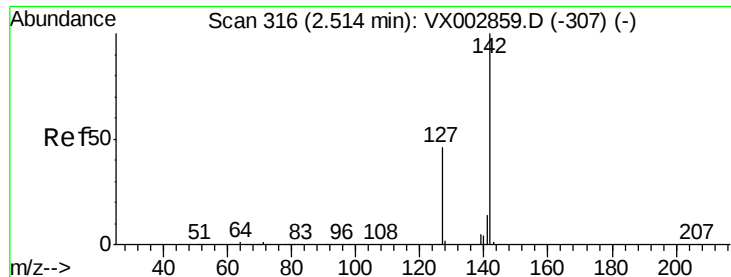
Tgt Ion: 64 Resp: 1136

Ion Ratio Lower Upper

64 100

66 31.0 25.5 38.3

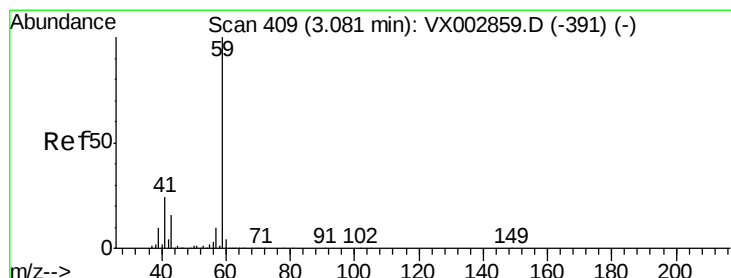
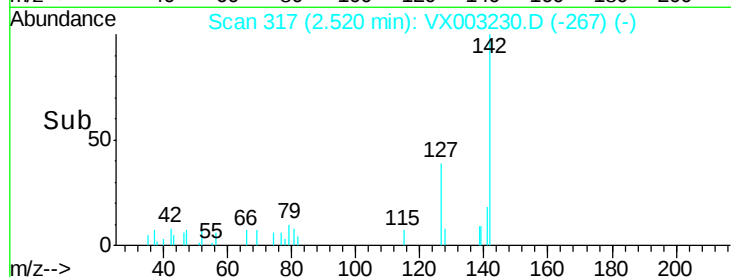
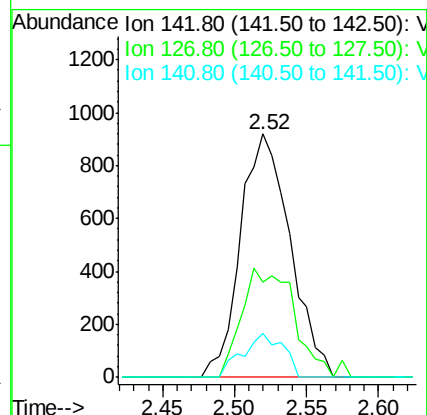
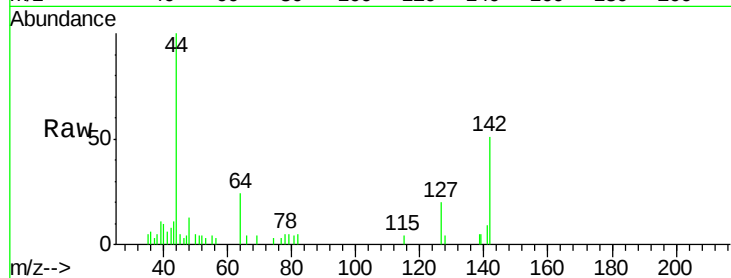




#10
Methyl Iodide
Concen: 6.84 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

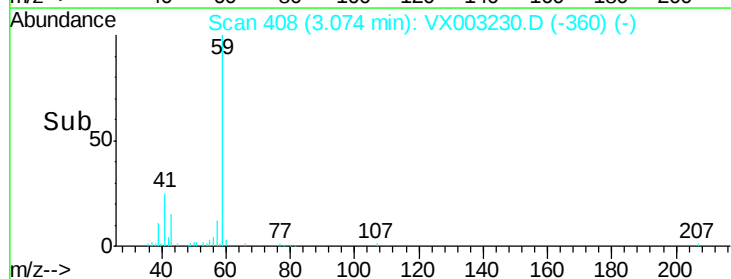
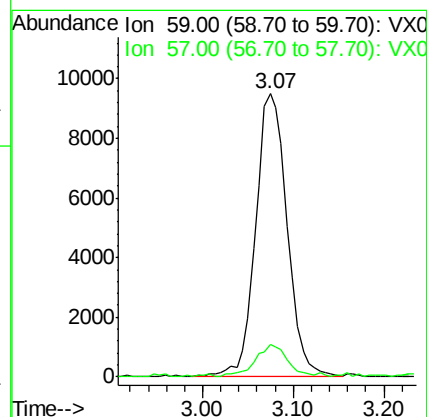
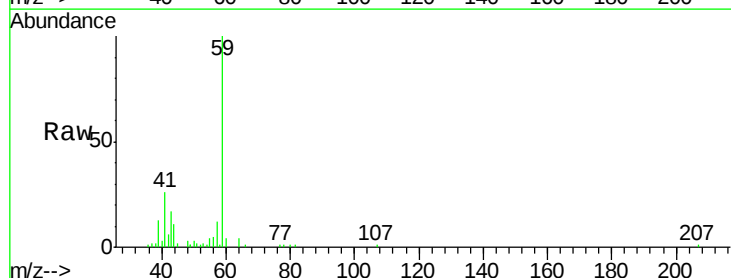
Instrument :
MSVOA_X
ClientSampled :
BFB

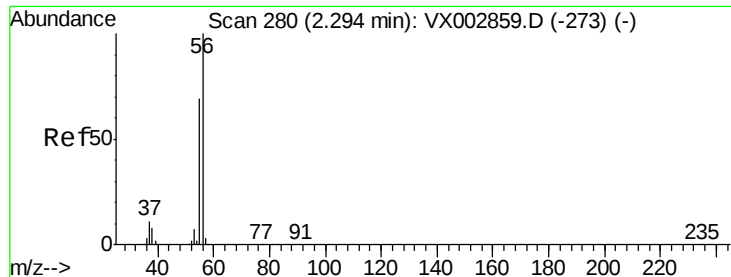
Tot Ion:142 Resp: 2203
Ion Ratio Lower Upper
142 100
127 47.6 36.6 55.0
141 14.5 11.3 16.9



#11
Tert butyl alcohol
Concen: 29.67 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Tgt Ion: 59 Resp: 22845
Ion Ratio Lower Upper
59 100
57 11.6 8.2 12.2





#13

Acrolein

Concen: 4.58 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampled :

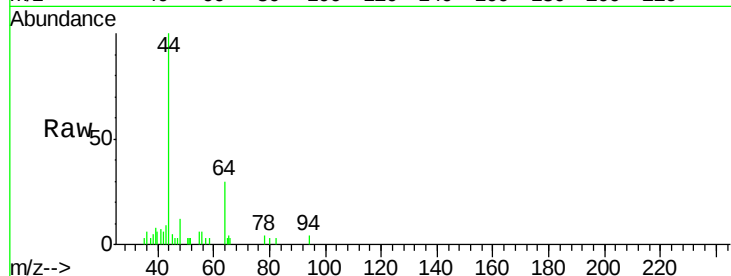
BFB

Tot Ion: 56 Resp: 152

Ion Ratio Lower Upper

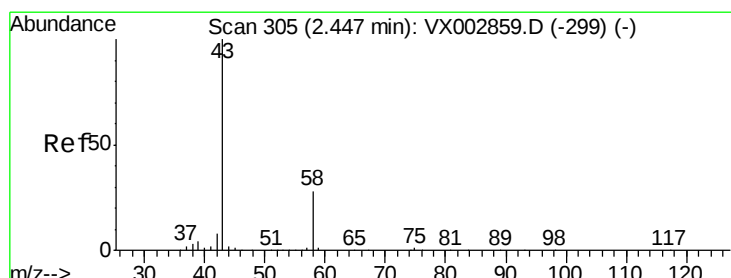
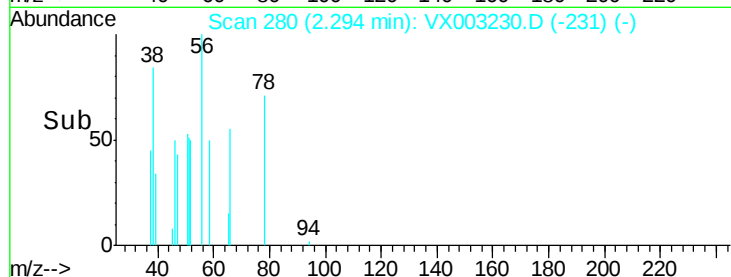
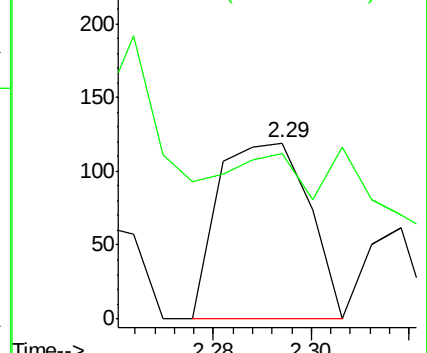
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.99 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003230.D

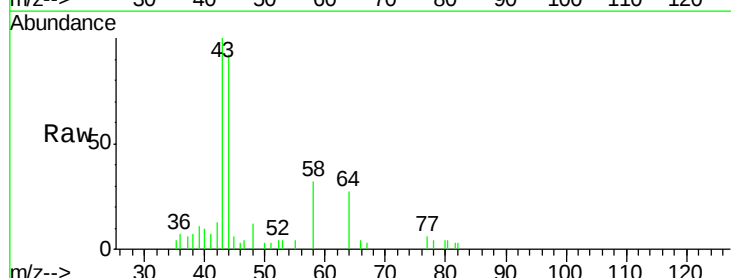
Acq: 06 Jul 2018 23:20

Tgt Ion: 43 Resp: 3179

Ion Ratio Lower Upper

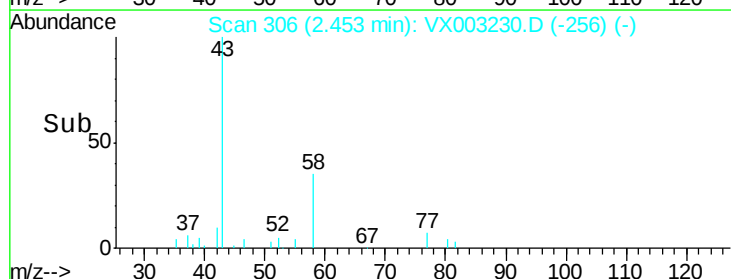
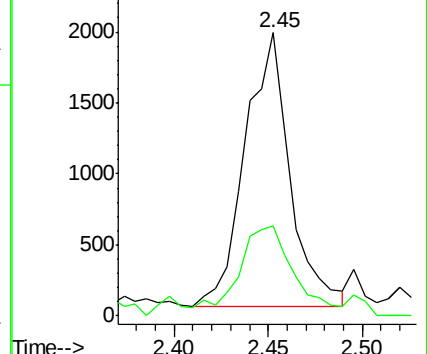
43 100

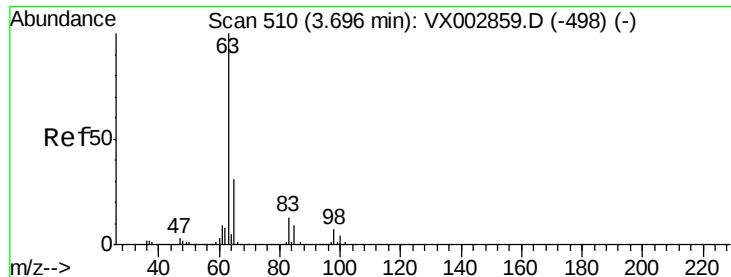
58 30.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#24

1,1-Dichloroethane

Concen: 3.34 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.00 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampled :

BFB

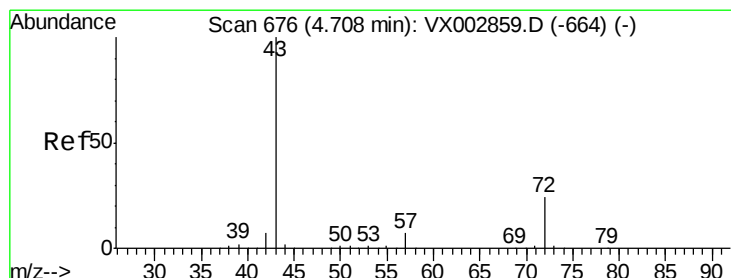
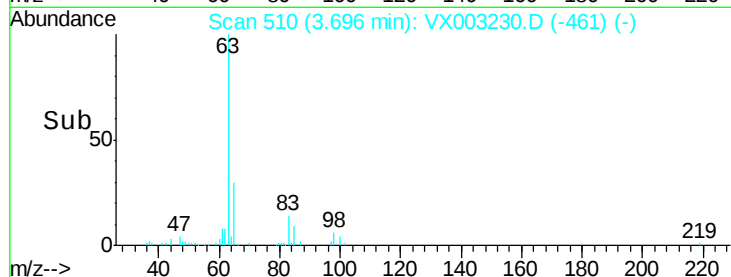
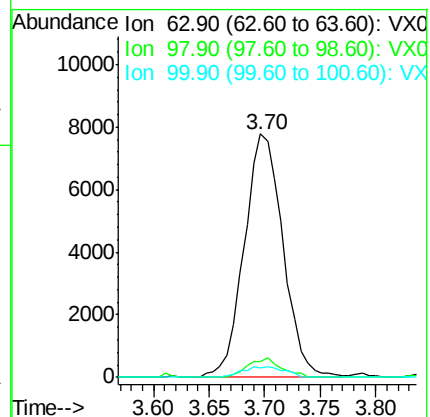
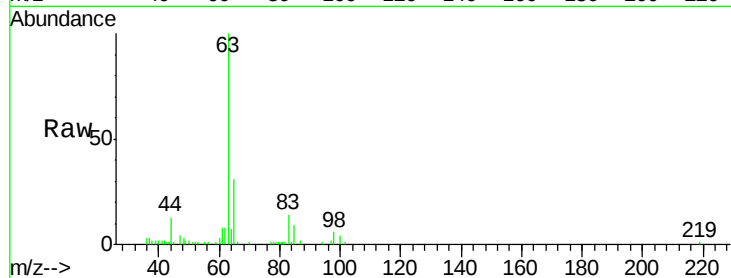
Tot Ion: 63 Resp: 18856

Ion Ratio Lower Upper

63 100

98 6.3 3.4 10.2

100 3.8 2.0 6.0



#25

2-Butanone

Concen: 0.42 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003230.D

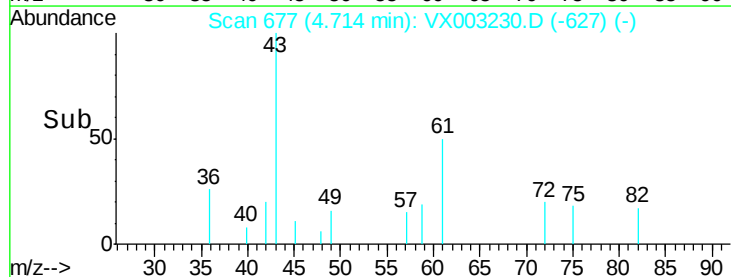
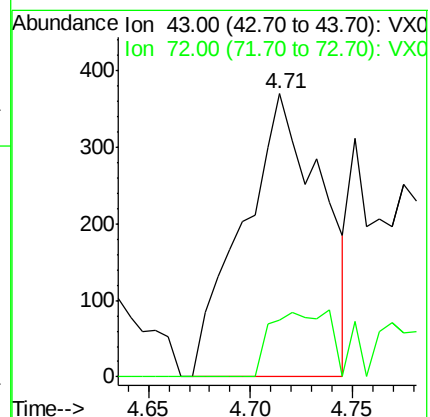
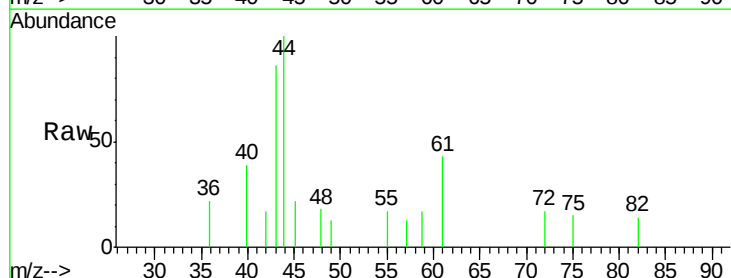
Acq: 06 Jul 2018 23:20

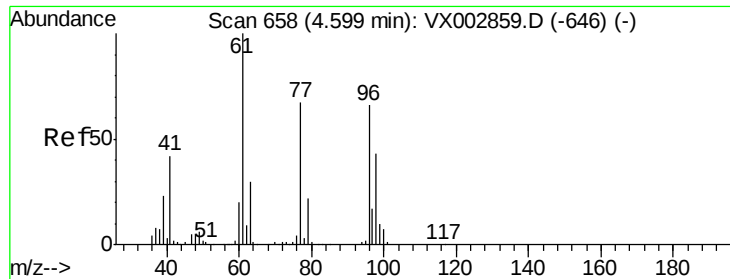
Tgt Ion: 43 Resp: 998

Ion Ratio Lower Upper

43 100

72 20.3 18.5 27.7





#27

cis-1,2-Dichloroethene

Concen: 4.78 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampled :

BFB

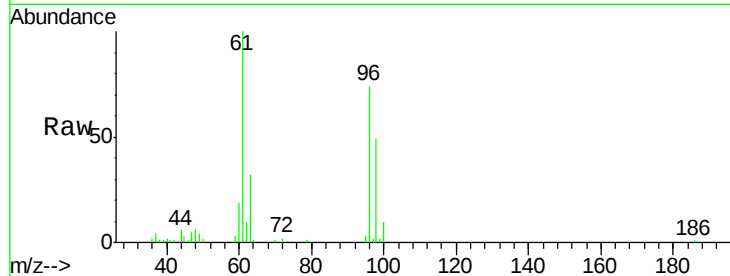
Tot Ion: 96 Resp: 16108

Ion Ratio Lower Upper

96 100

61 153.5 0.0 330.2

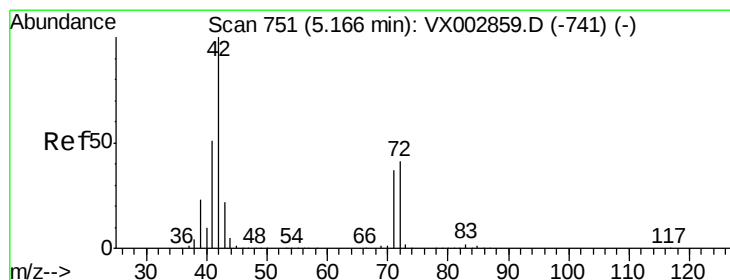
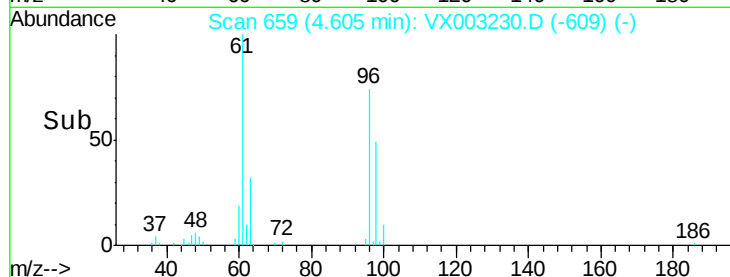
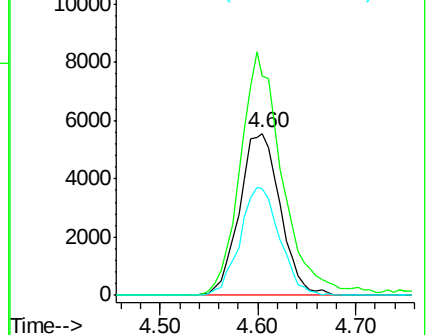
98 64.6 0.0 130.2



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



#29

Tetrahydrofuran

Concen: 0.46 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

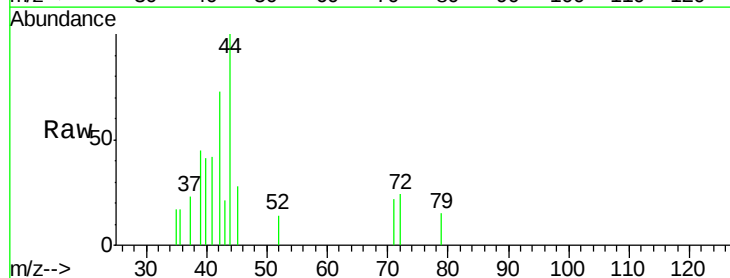
Tgt Ion: 42 Resp: 695

Ion Ratio Lower Upper

42 100

72 30.5 32.0 48.0#

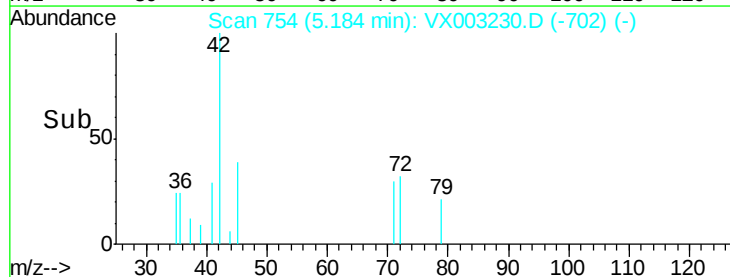
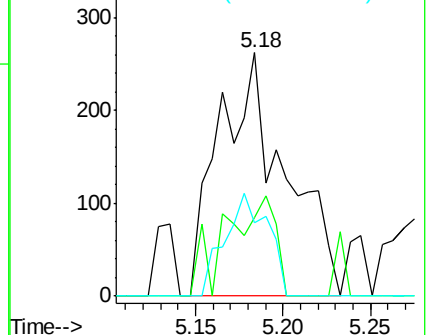
71 27.3 30.1 45.1#



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

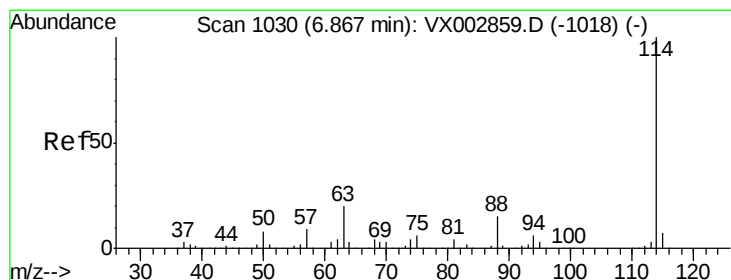
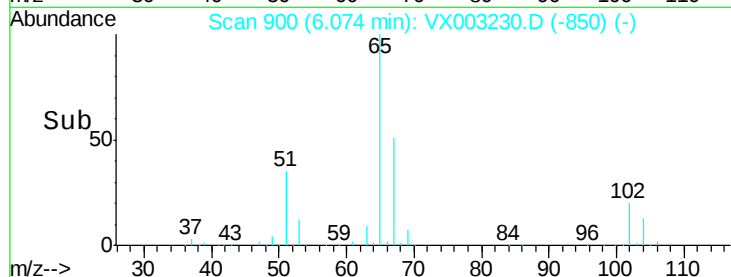
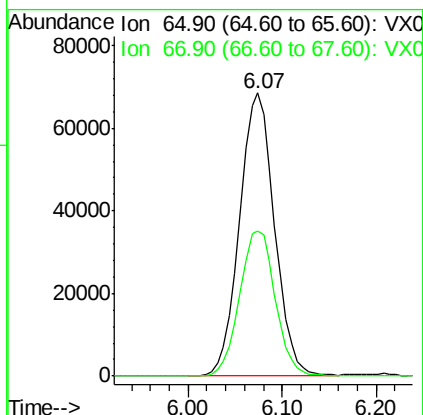
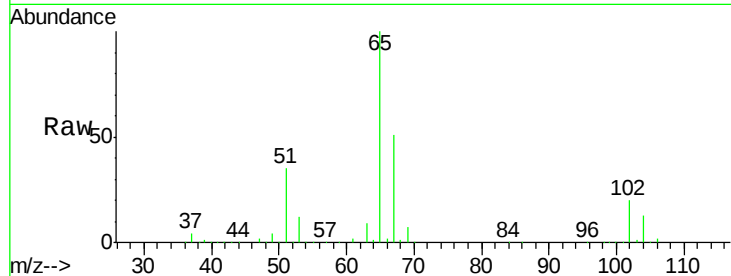




#33
 1,2-Dichloroethane-d4
 Concen: 46.05 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003230.D
 Acq: 06 Jul 2018 23:20

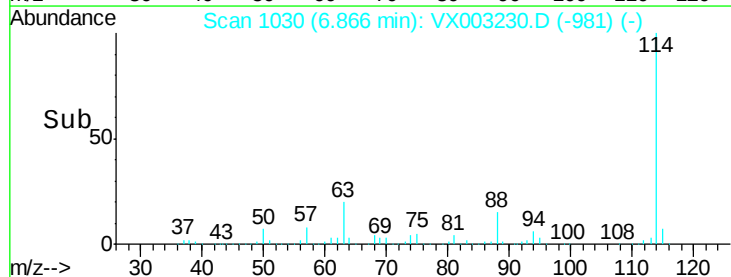
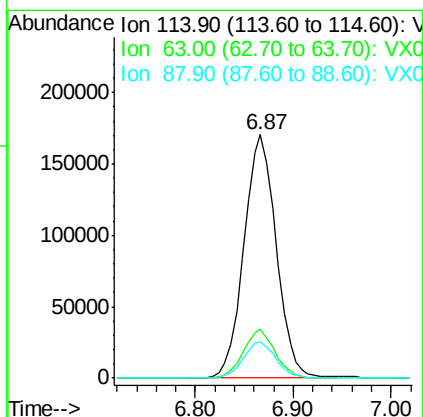
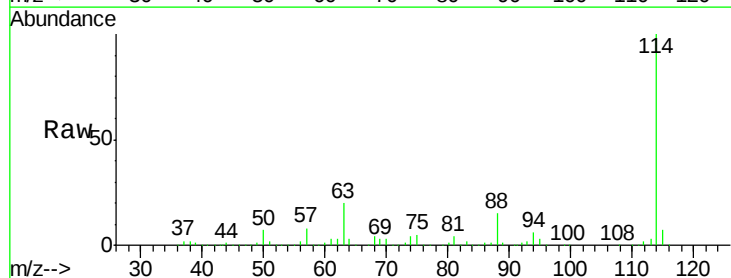
Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

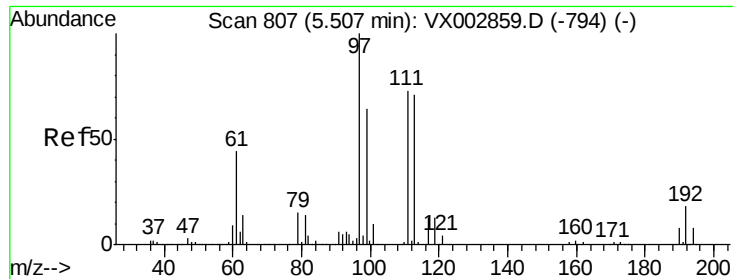
Tot Ion: 65 Resp: 177980
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003230.D
 Acq: 06 Jul 2018 23:20

Tgt Ion: 114 Resp: 390118
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.4
 88 14.7 0.0 30.0

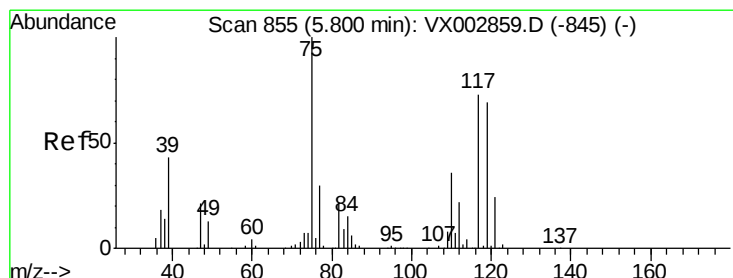
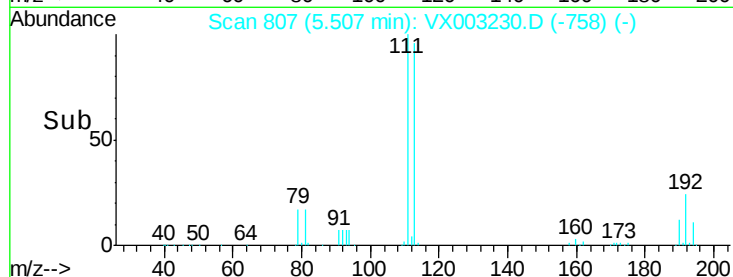
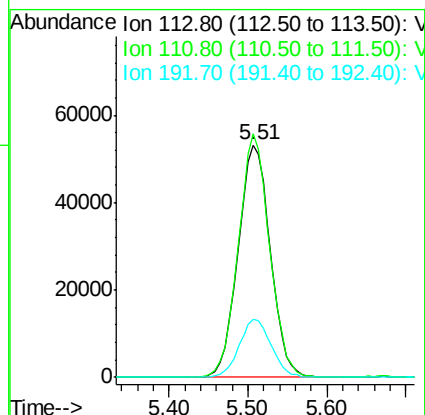
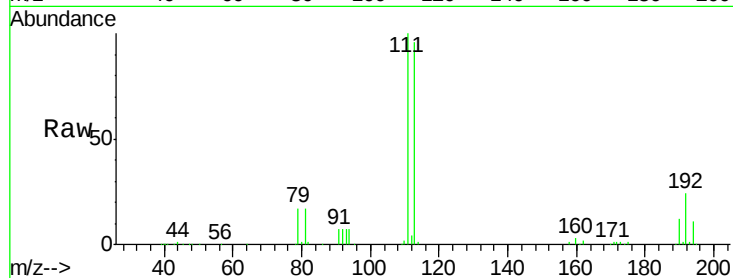




#35
Dibromofluoromethane
Concen: 48.86 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

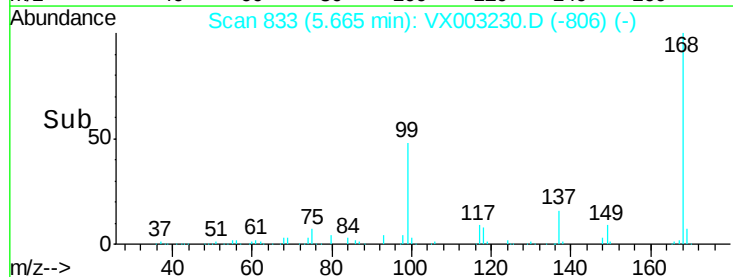
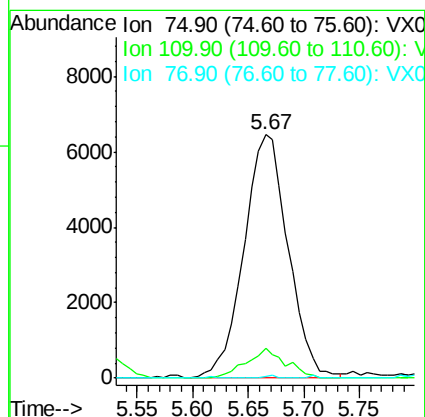
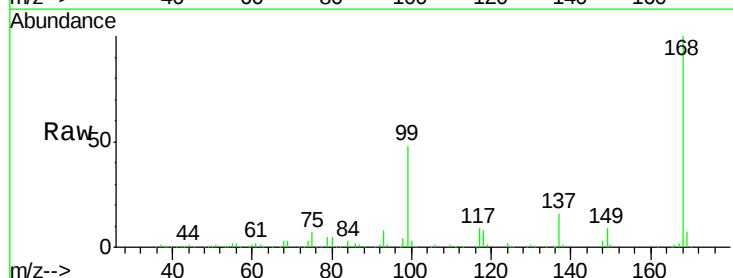
Instrument :
MSVOA_X
ClientSampleId :
BFB

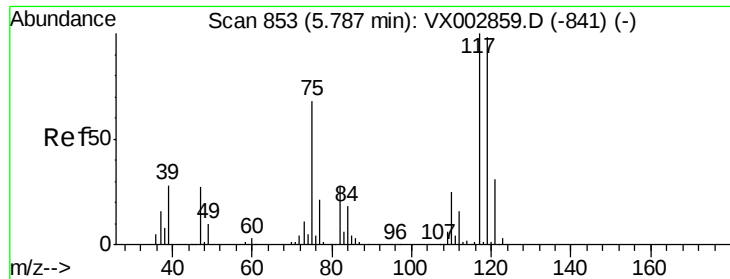
Tot Ion:113 Resp: 150961
Ion Ratio Lower Upper
113 100
111 101.5 81.4 122.0
192 24.9 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.17 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Tgt Ion: 75 Resp: 17820
Ion Ratio Lower Upper
75 100
110 10.8 18.1 54.4#
77 0.2 24.3 36.5#

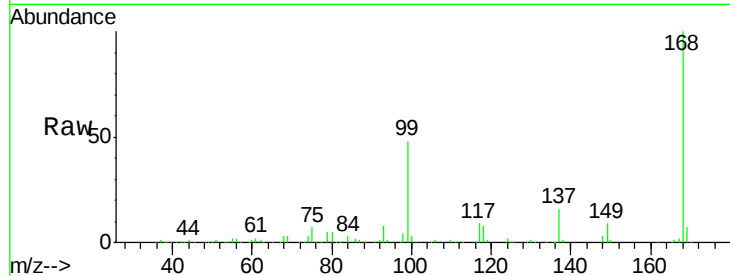




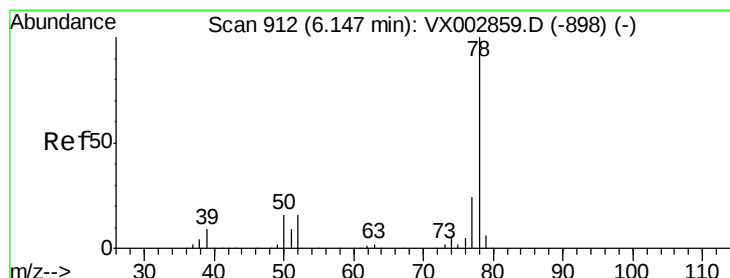
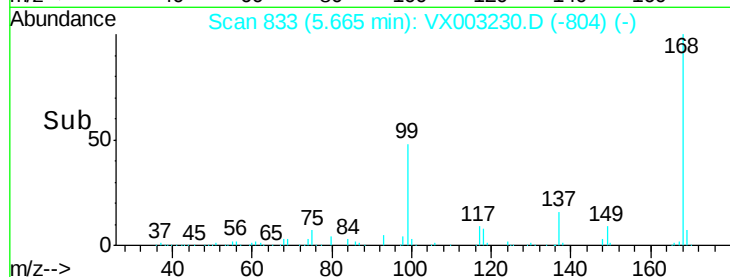
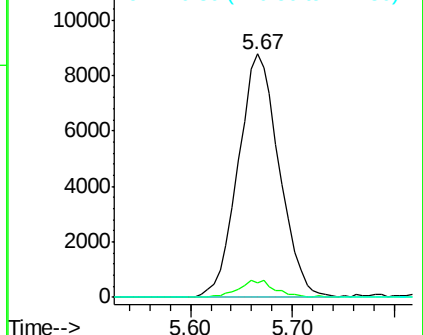
#38
Carbon Tetrachloride
Concen: 5.21 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Instrument :
MSVOA_X
ClientSampleId :
BFB

Tot Ion:117 Resp: 24469
Ion Ratio Lower Upper
117 100
119 5.7 77.4 116.0#
121 0.0 24.4 36.6#

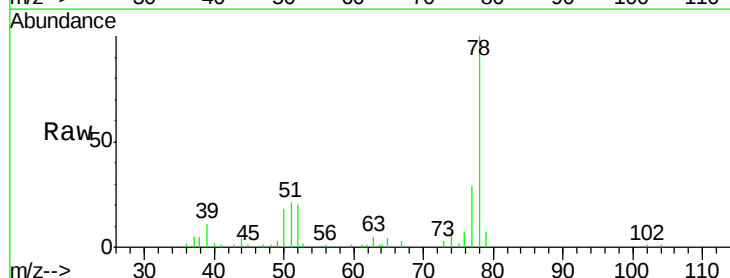


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

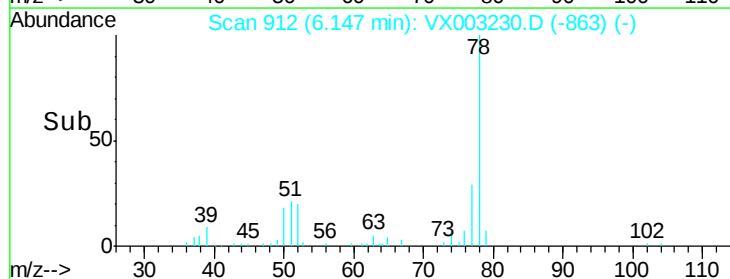
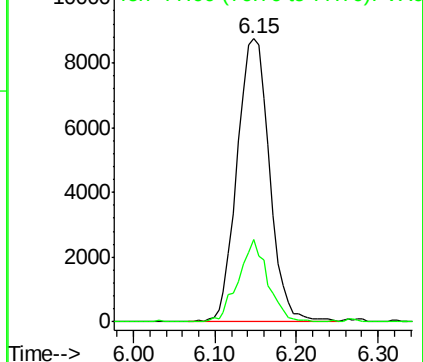


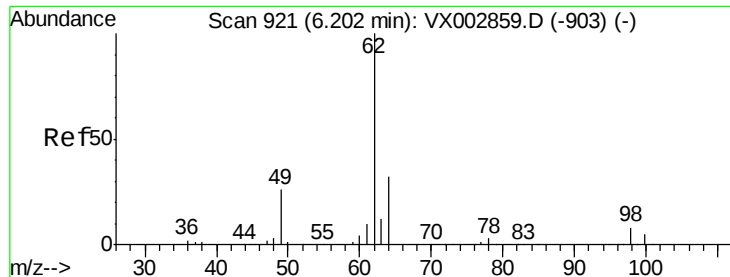
#40
Benzene
Concen: 1.95 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Tgt Ion: 78 Resp: 24182
Ion Ratio Lower Upper
78 100
77 29.1 19.1 28.7#



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

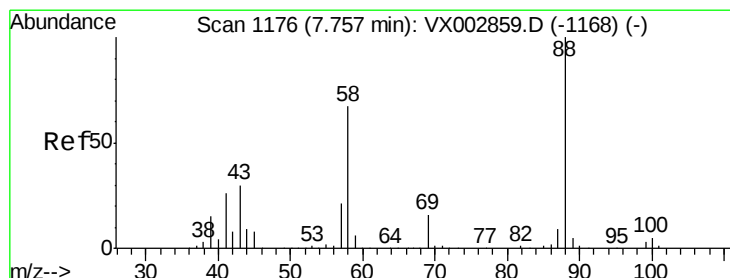
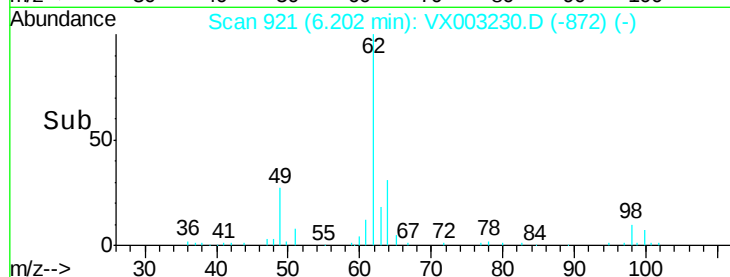
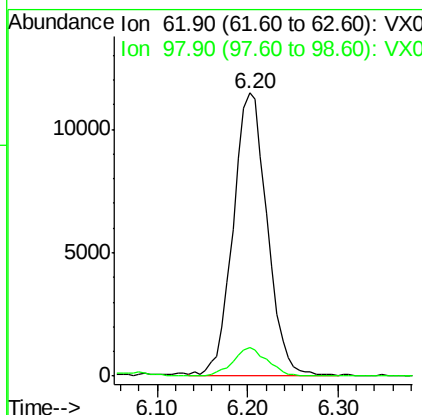
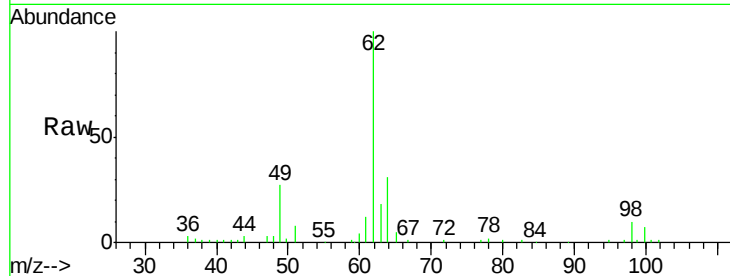




#42
 1,2-Dichloroethane
 Concen: 5.96 ug/l
 RT: 6.20 min Scan# 921
 Delta R.T. -0.00 min
 Lab File: VX003230.D
 Acq: 06 Jul 2018 23:20

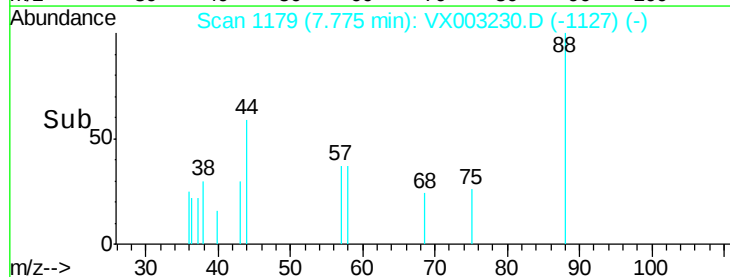
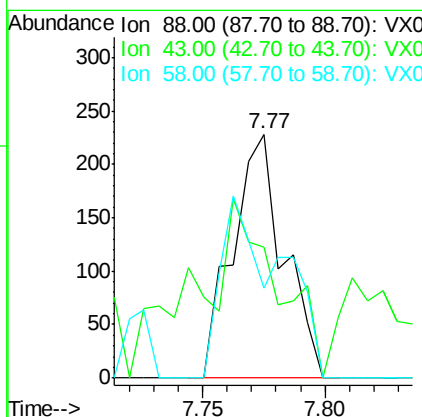
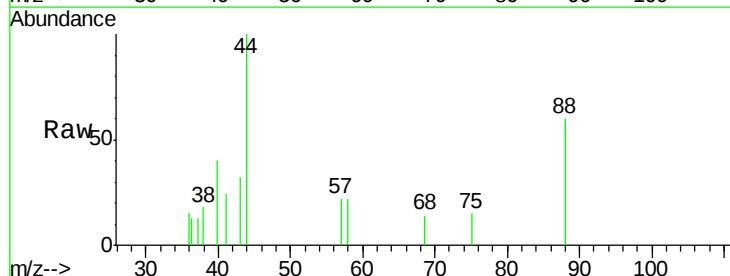
Instrument :
 MSVOA_X
 ClientSampled :
 BFB

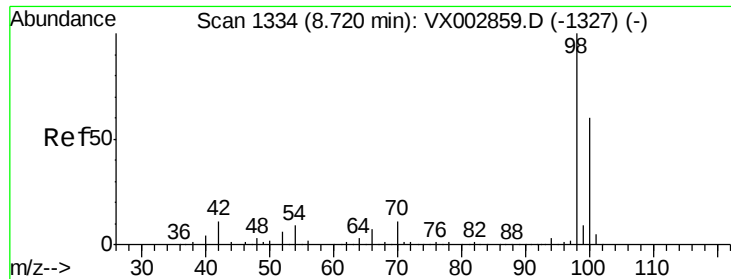
Tot Ion: 62 Resp: 29915
 Ion Ratio Lower Upper
 62 100
 98 10.1 0.0 16.6



#49
 1,4-Dioxane
 Concen: 4.30 ug/l
 RT: 7.77 min Scan# 1179
 Delta R.T. 0.02 min
 Lab File: VX003230.D
 Acq: 06 Jul 2018 23:20

Tgt Ion: 88 Resp: 333
 Ion Ratio Lower Upper
 88 100
 43 118.3 29.8 44.6#
 58 52.9 57.1 85.7#

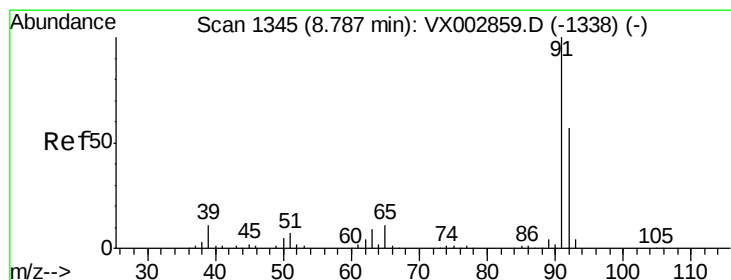
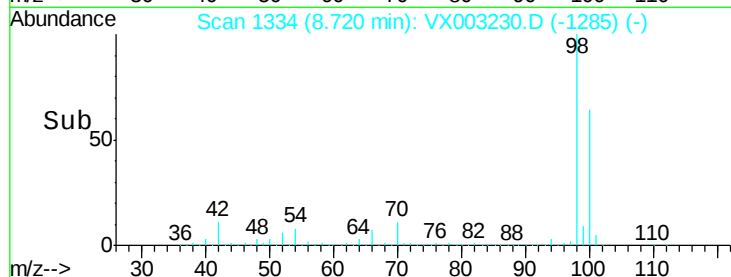
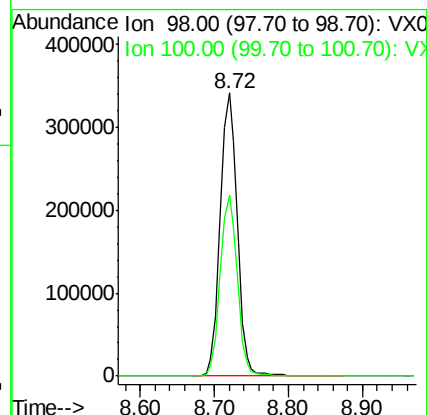
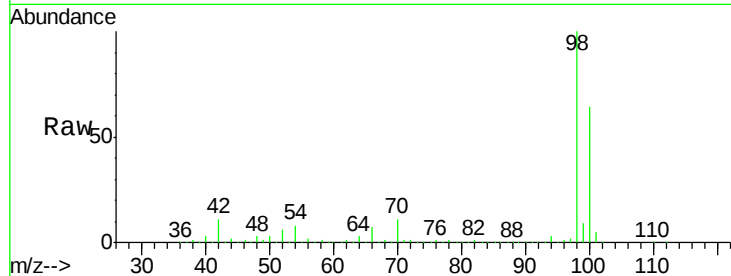




#50
Toluene-d8
Concen: 47.90 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

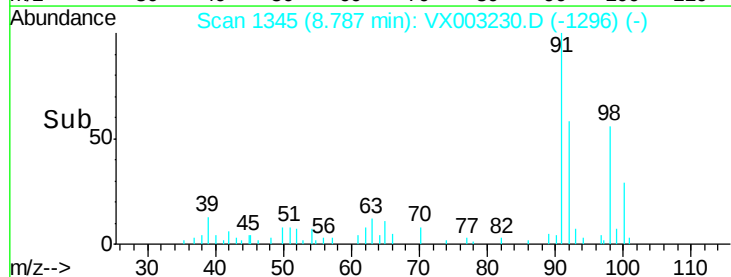
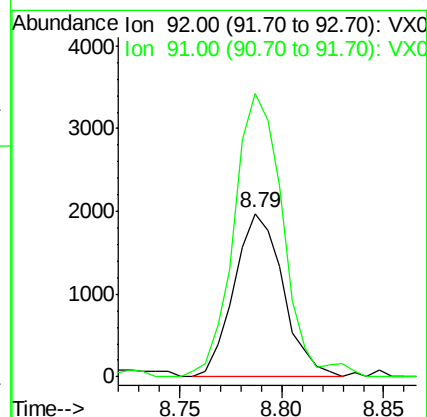
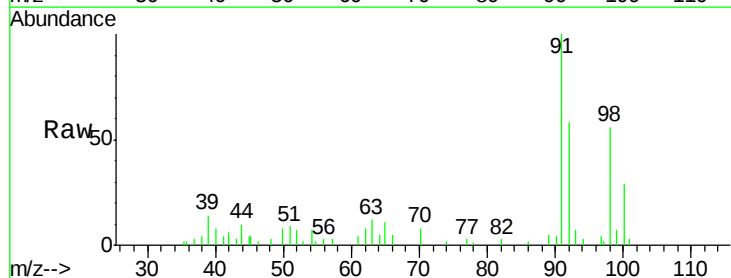
Instrument :
MSVOA_X
ClientSampleId :
BFB

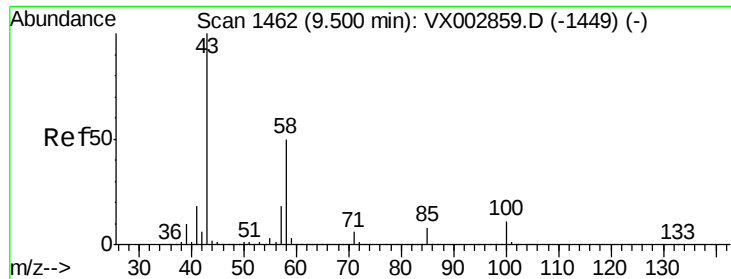
Tot Ion: 98 Resp: 540396
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



#52
Toluene
Concen: 0.41 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Tgt Ion: 92 Resp: 3292
Ion Ratio Lower Upper
92 100
91 173.0 140.4 210.6

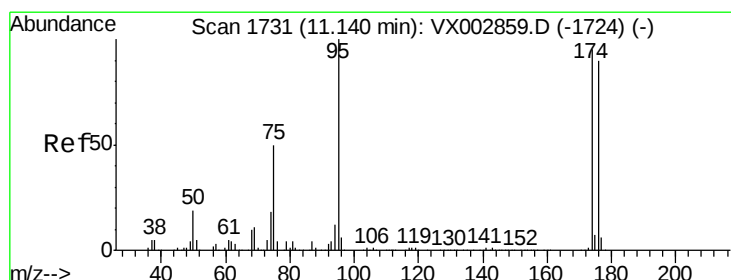
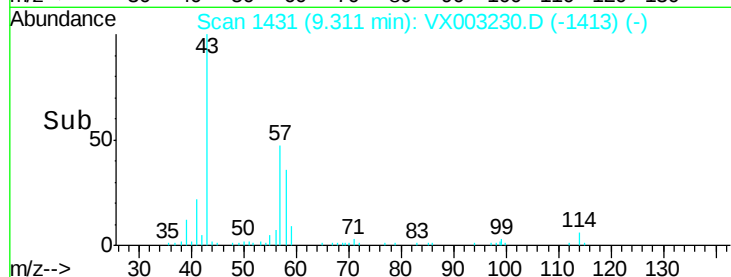
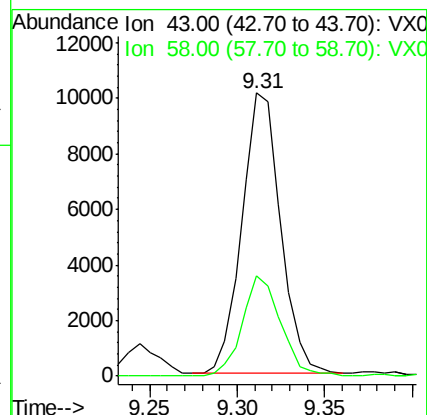
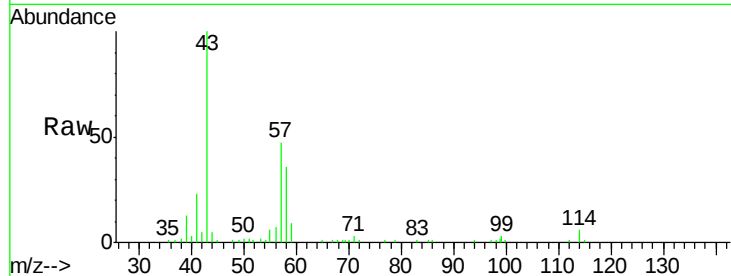




#59
2-Hexanone
Concen: 4.24 ug/l
RT: 9.31 min Scan# 1431
Delta R.T. -0.19 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

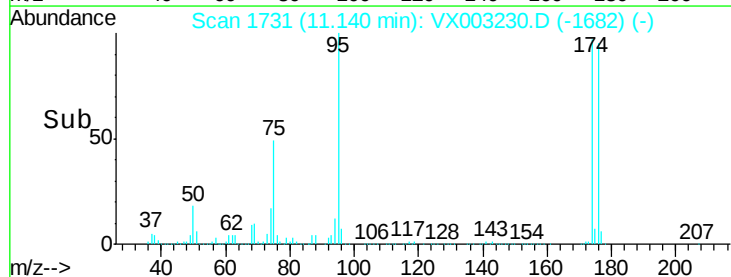
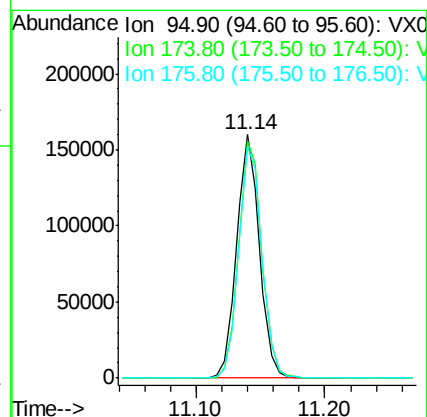
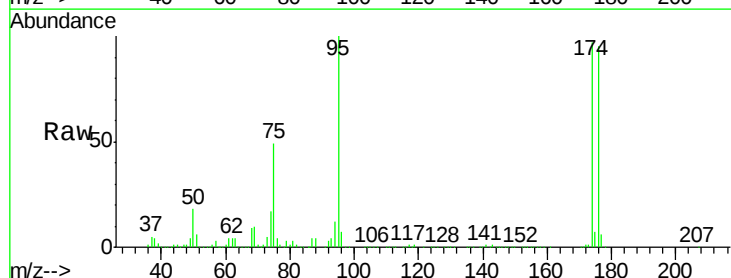
Instrument :
MSVOA_X
ClientSampled :
BFB

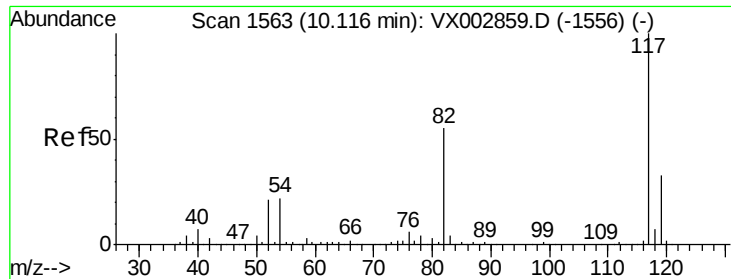
Tot Ion: 43 Resp: 15572
Ion Ratio Lower Upper
43 100
58 35.2 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 45.45 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Tgt Ion: 95 Resp: 197728
Ion Ratio Lower Upper
95 100
174 99.1 0.0 187.4
176 97.3 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampleId :

BFB

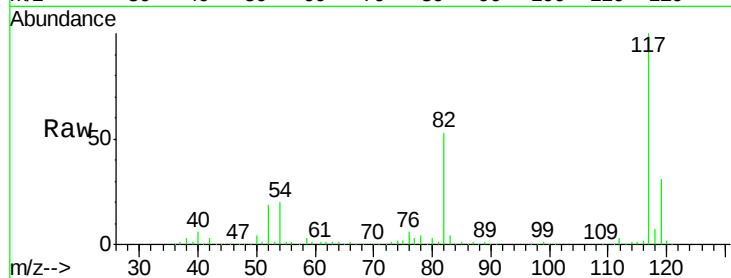
Tot Ion:117 Resp: 364677

Ion Ratio Lower Upper

117 100

82 52.6 45.0 67.4

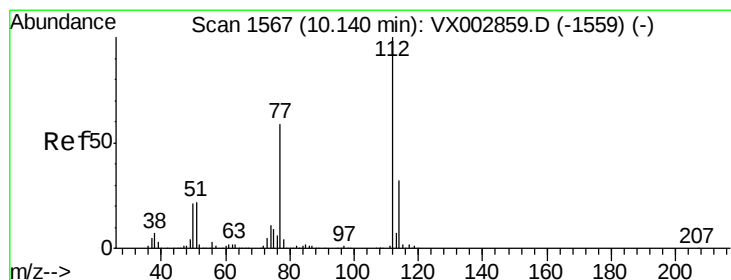
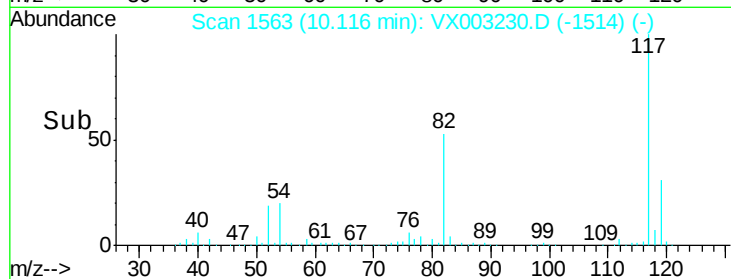
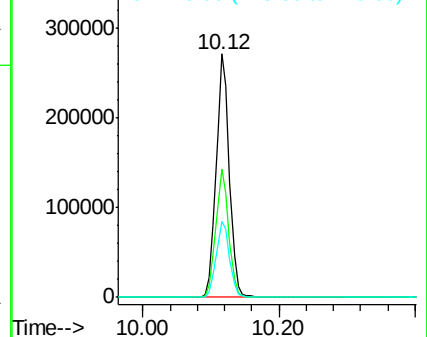
119 31.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#65

Chlorobenzene

Concen: 112.69 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX003230.D

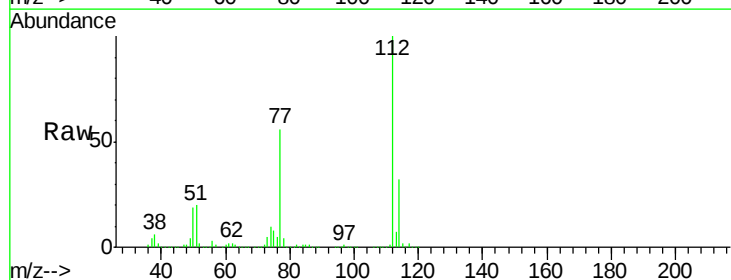
Acq: 06 Jul 2018 23:20

Tgt Ion:112 Resp: 1043782

Ion Ratio Lower Upper

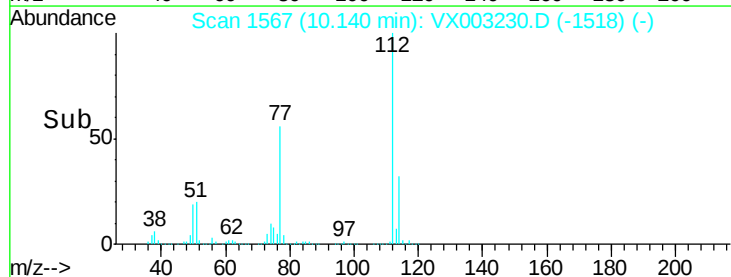
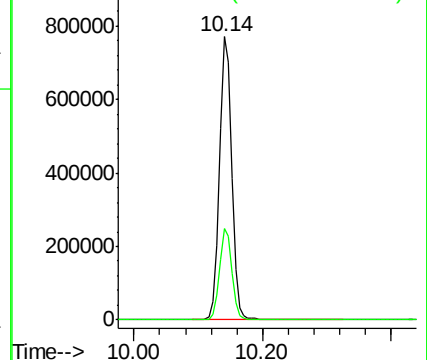
112 100

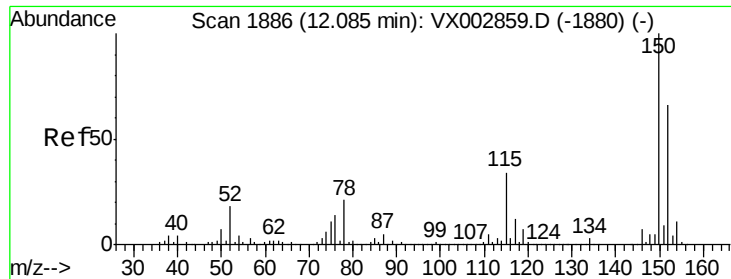
114 32.4 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003230.D

Acq: 06 Jul 2018 23:20

Instrument :

MSVOA_X

ClientSampleId :

BFB

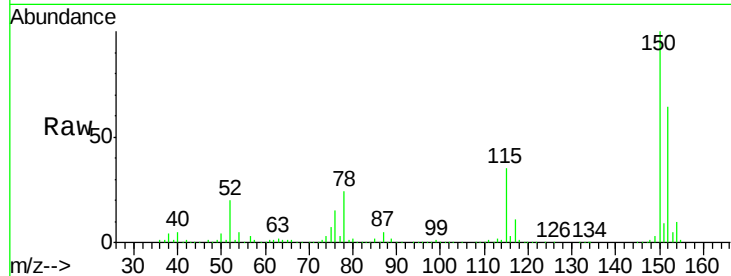
Tot Ion:152 Resp: 200275

Ion Ratio Lower Upper

152 100

115 53.8 40.1 120.2

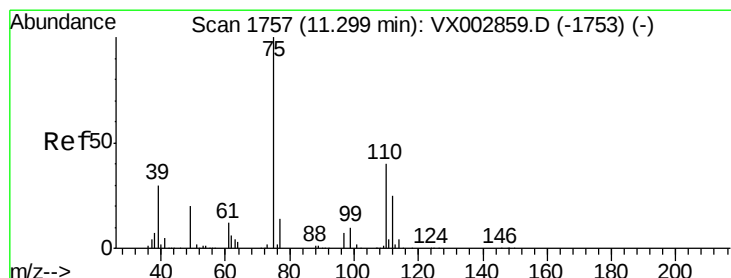
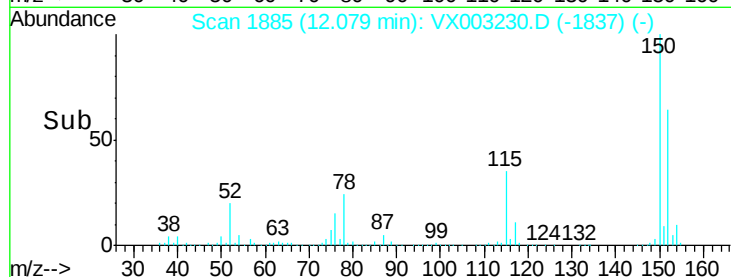
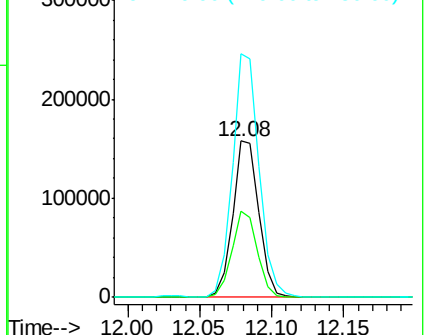
150 159.2 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003230.D

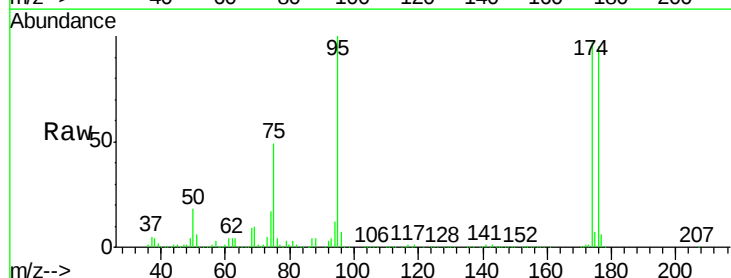
Acq: 06 Jul 2018 23:20

Tgt Ion: 75 Resp: 96606

Ion Ratio Lower Upper

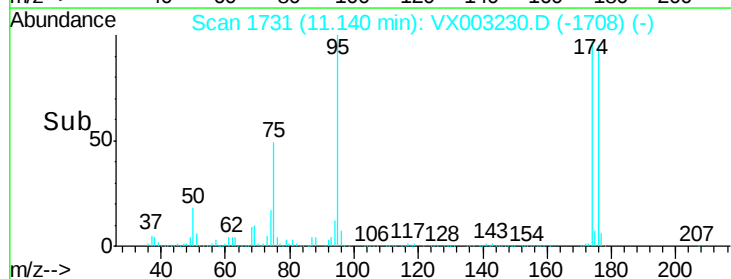
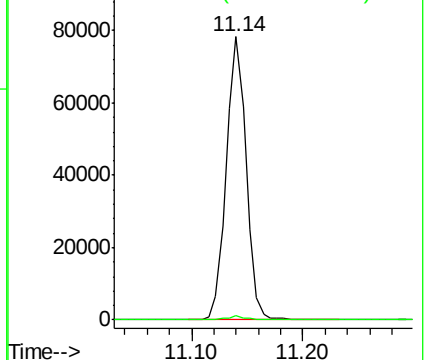
75 100

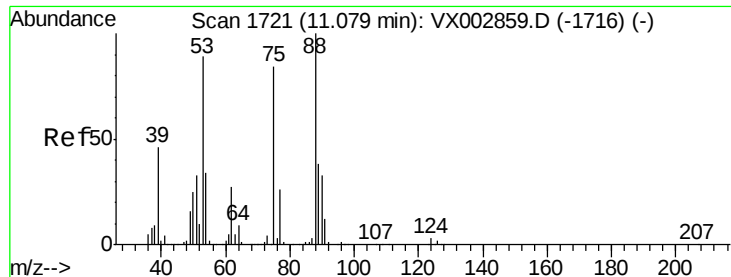
77 1.5 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

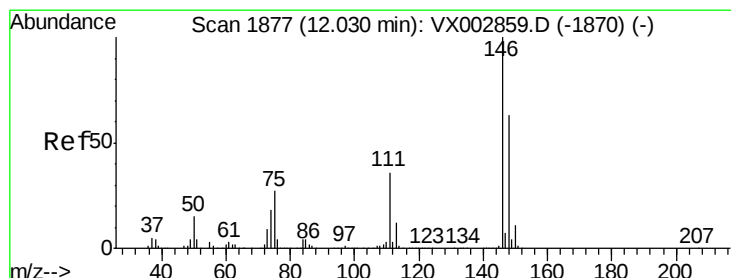
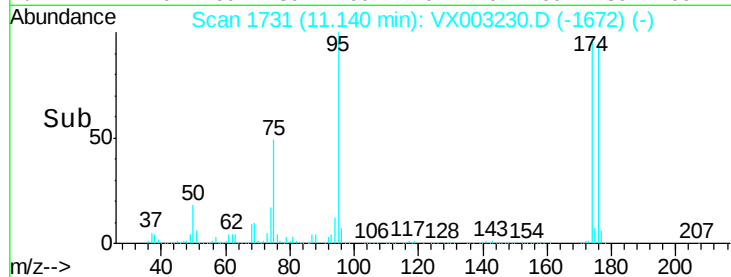
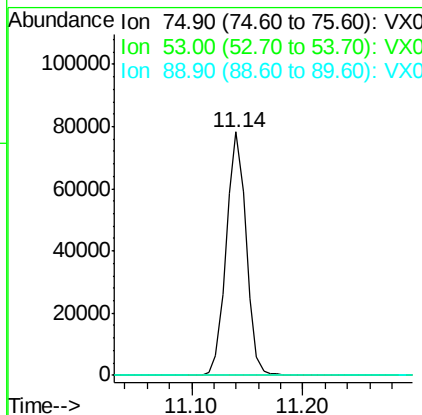
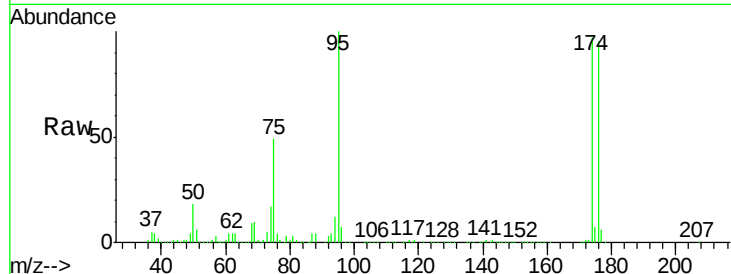




#81
trans-1,4-Dichloro-2-butene
Concen: 75.43 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

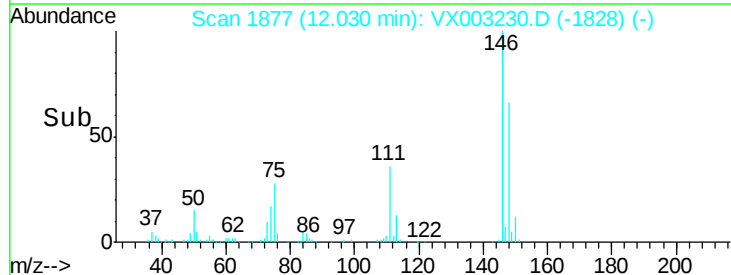
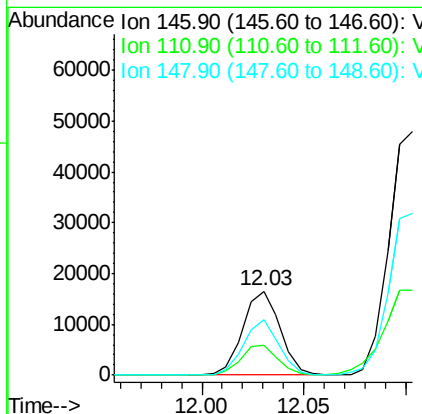
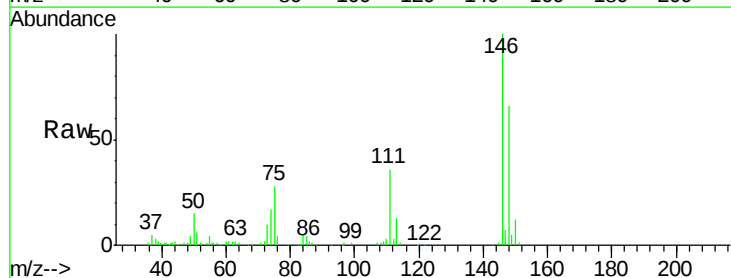
Instrument :
MSVOA_X
ClientSampled :
BFB

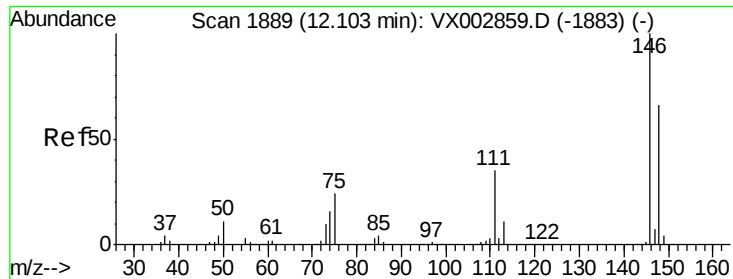
Tot Ion: 75 Resp: 96606
Ion Ratio Lower Upper
75 100
53 0.3 86.8 130.2#
89 0.0 38.2 57.2#



#87
1,3-Dichlorobenzene
Concen: 3.01 ug/l
RT: 12.03 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX003230.D
Acq: 06 Jul 2018 23:20

Tgt Ion: 146 Resp: 21104
Ion Ratio Lower Upper
146 100
111 36.4 18.9 56.7
148 62.9 32.1 96.3

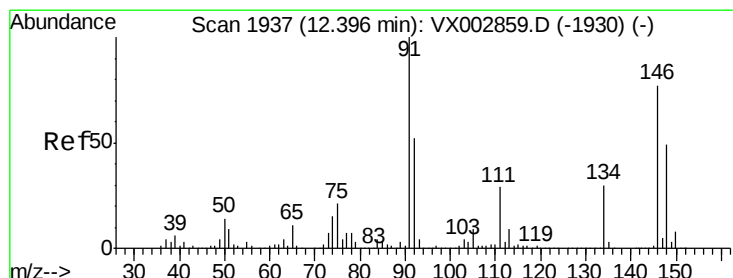
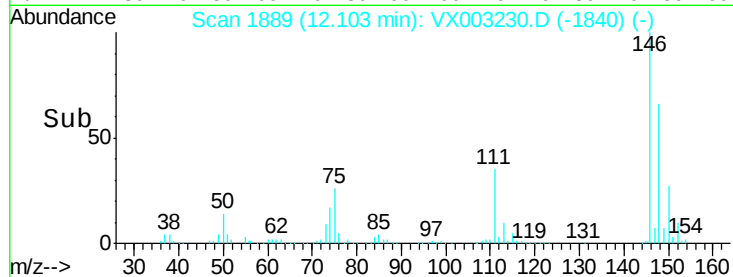
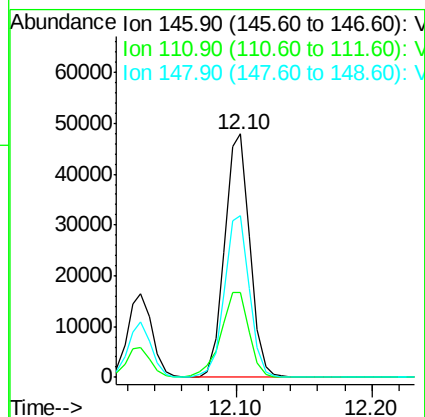
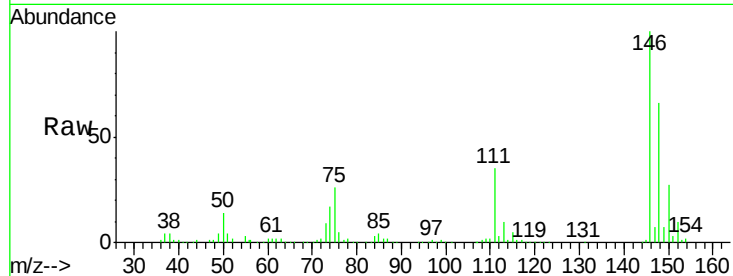




#88
 1,4-Dichlorobenzene
 Concen: 8.48 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VX003230.D
 Acq: 06 Jul 2018 23:20

Instrument :
 MSVOA_X
 ClientSampled :
 BFB

Tot Ion:146 Resp: 61156
 Ion Ratio Lower Upper
 146 100
 111 39.6 18.7 56.1
 148 66.3 32.4 97.0



#91
 1,2-Dichlorobenzene
 Concen: 11.63 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX003230.D
 Acq: 06 Jul 2018 23:20

Tgt Ion:146 Resp: 82253
 Ion Ratio Lower Upper
 146 100
 111 37.9 19.4 58.1
 148 65.3 31.7 95.1

