

Data File : VX001745.D
Acq On : 15 May 2018 15:08
Operator : JC/MD
Sample : J2737-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Quant Time: May 16 05:02:47 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
Quant Title : SW846 8260
QLast Update : Tue May 15 01:36:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	249369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	337282	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	281487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	147391	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	190075	56.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.74%	
35) Dibromofluoromethane	5.51	113	152901	53.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.44%	
50) Toluene-d8	8.72	98	513984	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
62) 4-Bromofluorobenzene	11.14	95	165370	45.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.10%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.20	85	634	0.25	ug/l	79
3) Chloromethane	1.32	50	647	0.24	ug/l #	79
4) Vinyl Chloride	1.40	62	5105	1.75	ug/l #	1
5) Bromomethane	1.65	94	1480	Below	Cal	95
6) Chloroethane	1.79	64	882	0.48	ug/l #	45
10) Methyl Iodide	2.52	142	1710	0.73	ug/l	95
11) Tert butyl alcohol	3.09	59	2043	3.44	ug/l	99
13) Acrolein	2.26	56	155	0.37	ug/l #	1
16) Acetone	2.45	43	1882	1.43	ug/l #	86
17) Carbon Disulfide	2.57	76	1332	0.21	ug/l	100
21) trans-1,2-Dichloroethene	3.17	96	1216	0.45	ug/l	84
25) 2-Butanone	4.73	43	602	0.30	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	48773	15.79	ug/l	94
29) Tetrahydrofuran	5.21	42	807	0.62	ug/l #	53
36) 1,1-Dichloropropene	5.67	75	15145	3.90	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21295	5.24	ug/l #	16
40) Benzene	6.15	78	13282	1.16	ug/l	97
52) Toluene	8.79	92	1892	0.26	ug/l	90
55) 1,1,2-Trichloroethane	9.09	97	1986	0.71	ug/l #	20
59) 2-Hexanone	9.32	43	1452	0.51	ug/l	70
60) Dibromochloromethane	9.34	129	1552	0.54	ug/l #	11
64) Tetrachloroethene	9.34	164	1840	0.50	ug/l #	84
76) 1,2,3-Trichloropropane	11.14	75	79131	28.23	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	79131	81.88	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

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MSVOA_X

ClientSampleId :

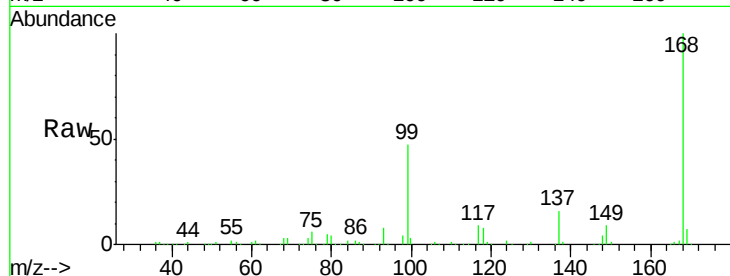
BFB

Tgt Ion:168 Resp: 249369

Ion Ratio Lower Upper

168 100

99 46.9 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

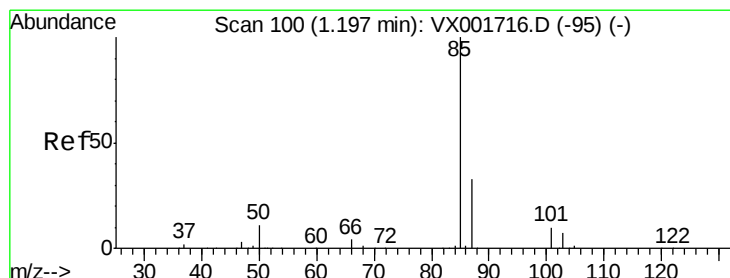
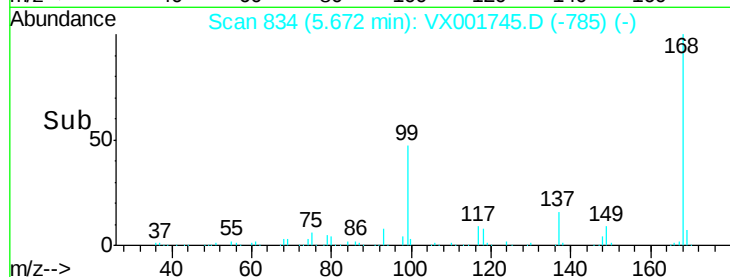
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.25 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX001745.D

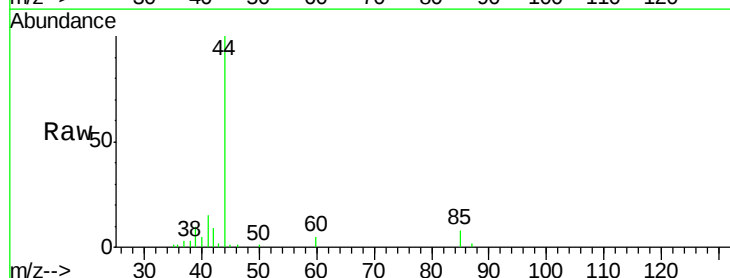
Acq: 15 May 2018 15:08

Tgt Ion: 85 Resp: 634

Ion Ratio Lower Upper

85 100

87 20.9 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

800

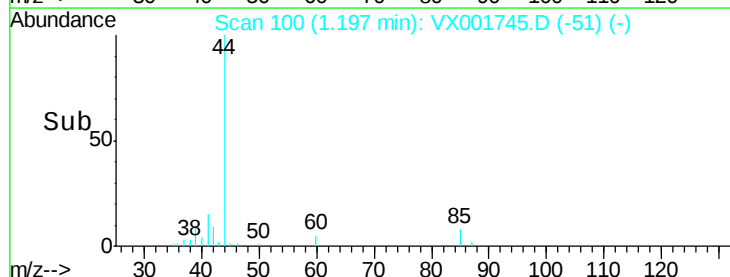
600

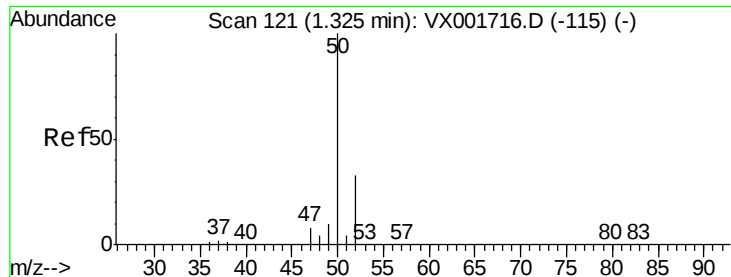
400

200

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

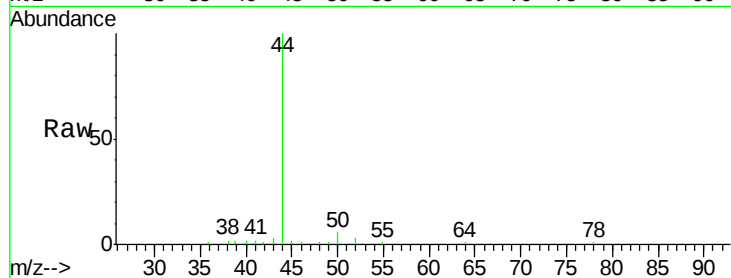
BFB

Tgt Ion: 50 Resp: 647

Ion Ratio Lower Upper

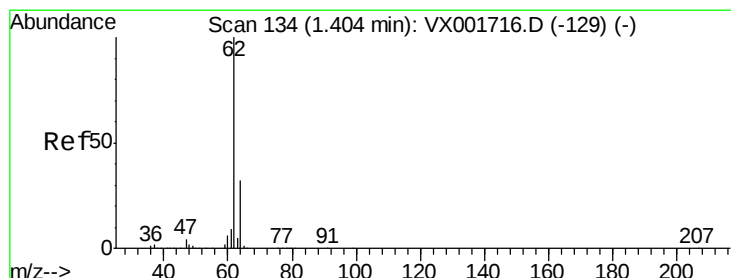
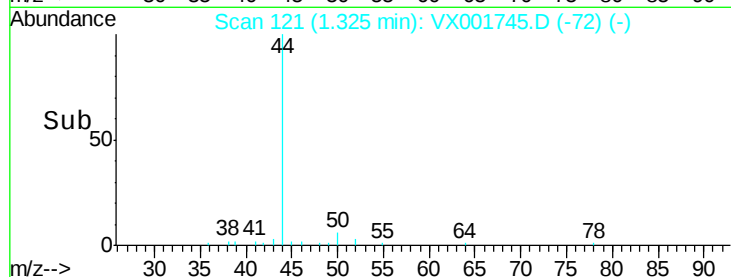
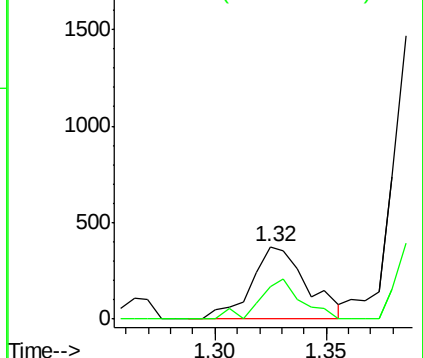
50 100

52 44.6 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 1.75 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX001745.D

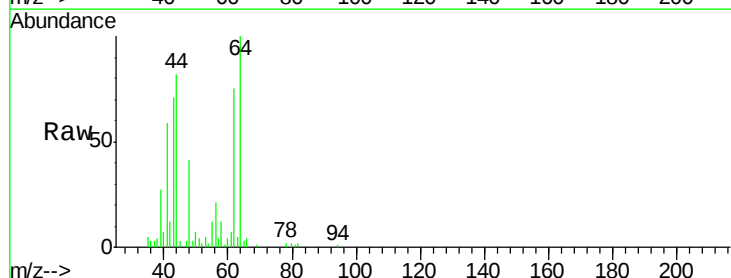
Acq: 15 May 2018 15:08

Tgt Ion: 62 Resp: 5105

Ion Ratio Lower Upper

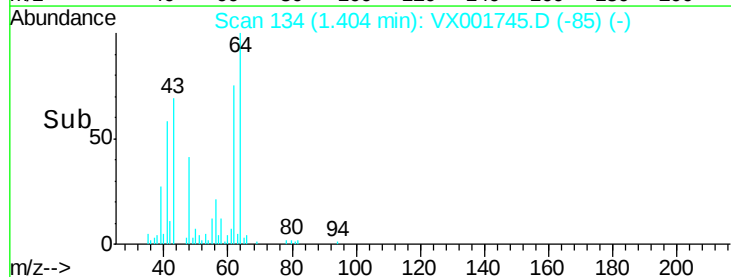
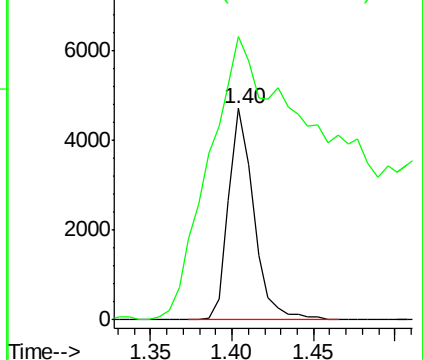
62 100

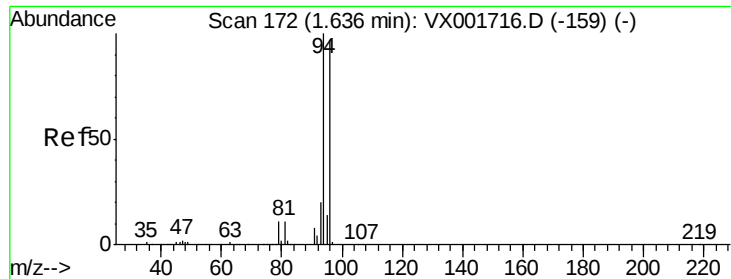
64 95.6 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

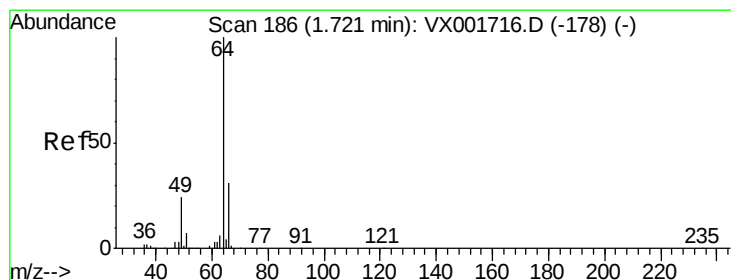
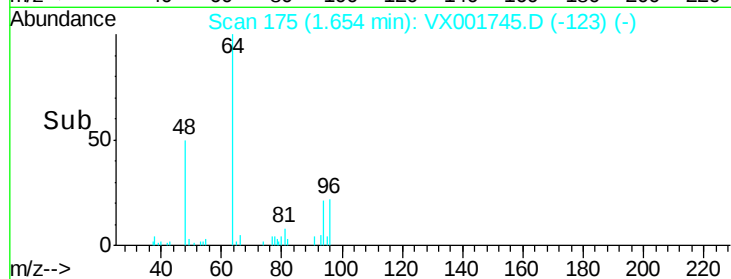
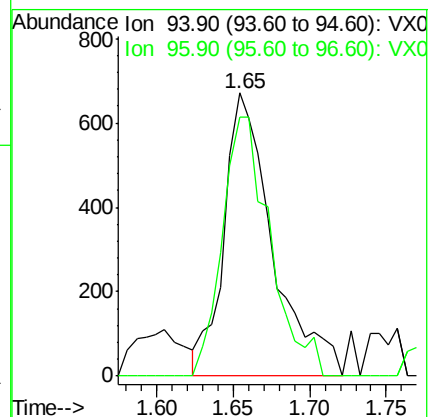
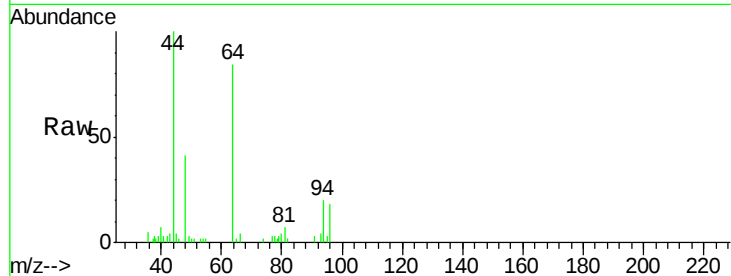
BFB

Tgt Ion: 94 Resp: 1480

Ion Ratio Lower Upper

94 100

96 91.5 77.4 116.0



#6

Chloroethane

Concen: 0.48 ug/l

RT: 1.79 min Scan# 197

Delta R.T. 0.07 min

Lab File: VX001745.D

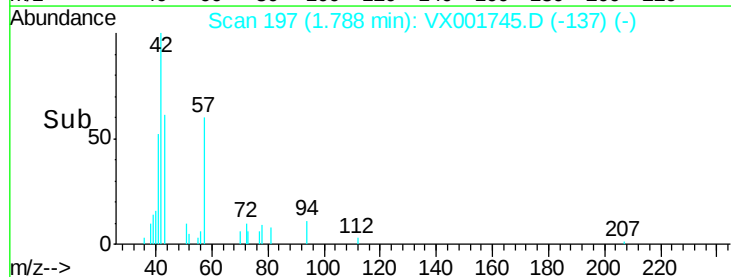
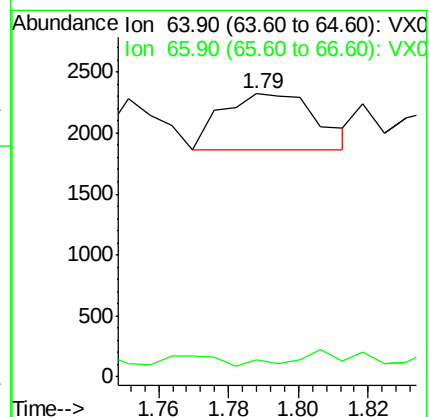
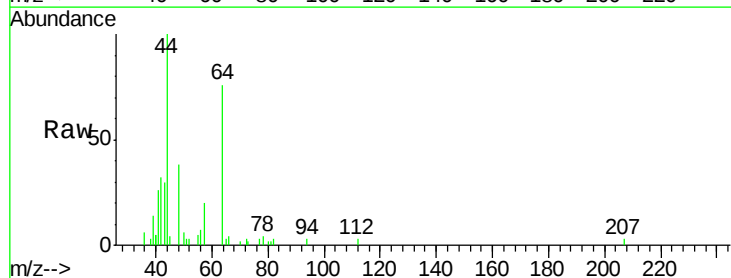
Acq: 15 May 2018 15:08

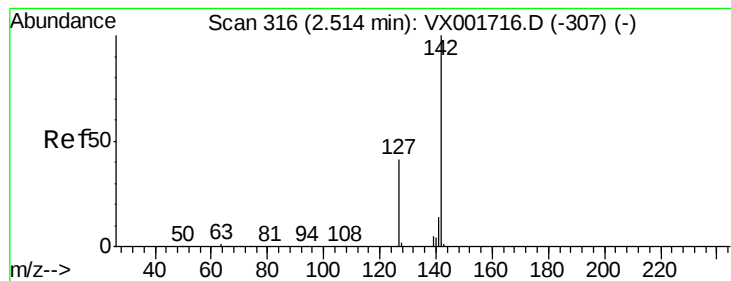
Tgt Ion: 64 Resp: 882

Ion Ratio Lower Upper

64 100

66 1.1 25.2 37.8#





#10

Methyl Iodide

Concen: 0.73 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampled :

BFB

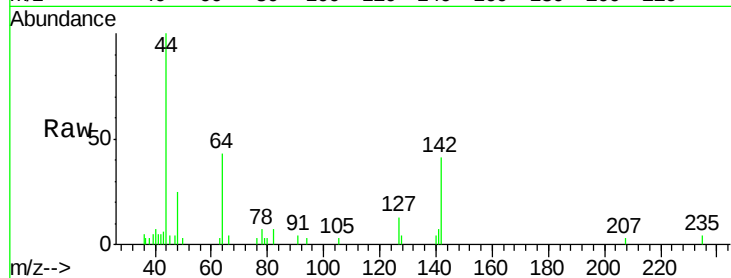
Tgt Ion: 142 Resp: 1710

Ion Ratio Lower Upper

142 100

127 37.7 32.5 48.7

141 12.3 11.4 17.0



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

Time-->

2.52

800

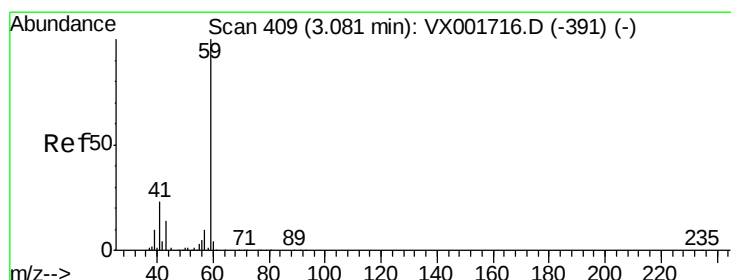
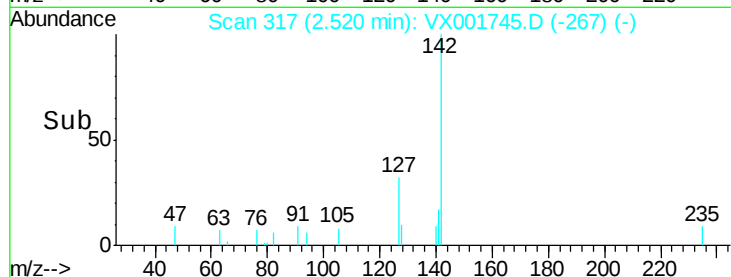
600

400

200

0

2.45 2.50 2.55 2.60



#11

Tert butyl alcohol

Concen: 3.44 ug/l

RT: 3.09 min Scan# 410

Delta R.T. 0.01 min

Lab File: VX001745.D

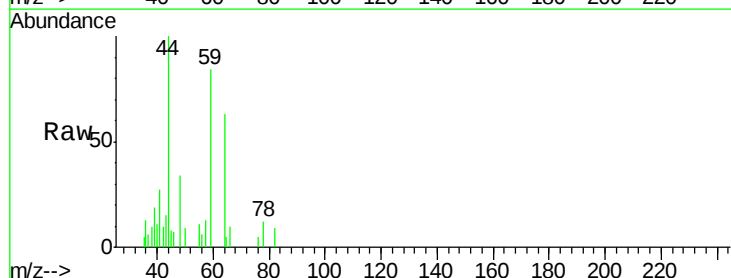
Acq: 15 May 2018 15:08

Tgt Ion: 59 Resp: 2043

Ion Ratio Lower Upper

59 100

57 11.0 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Time-->

3.09

1000

800

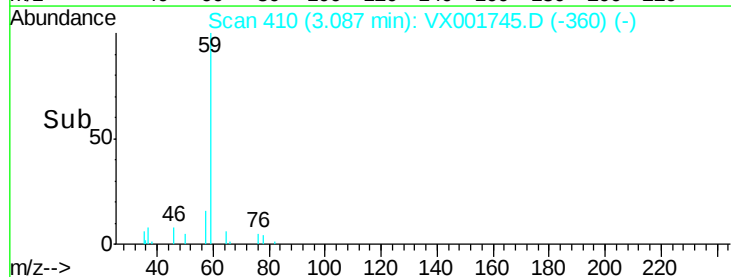
600

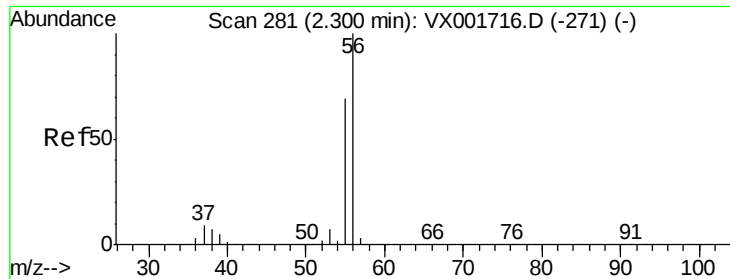
400

200

0

3.05 3.10 3.15

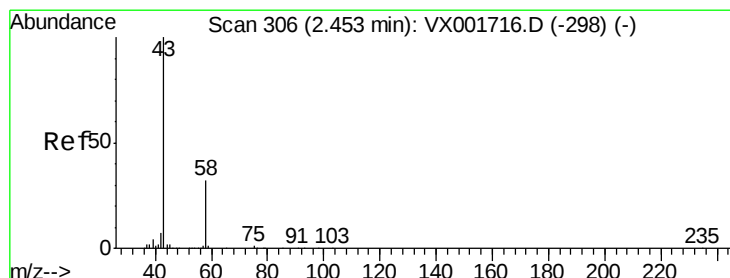
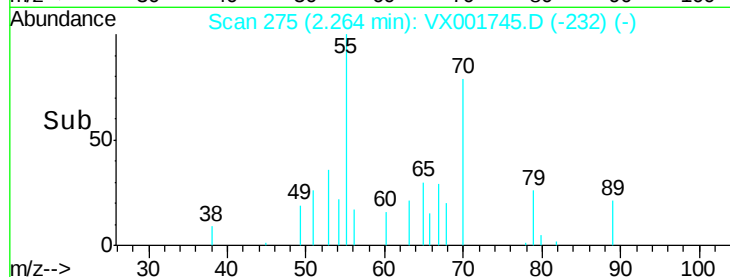
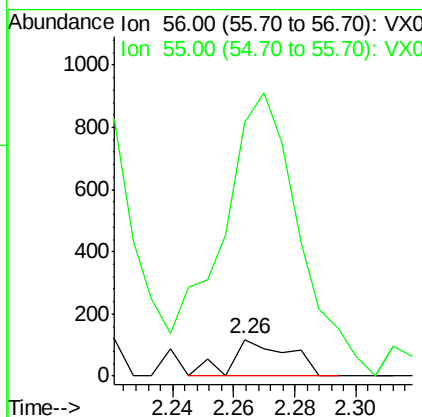
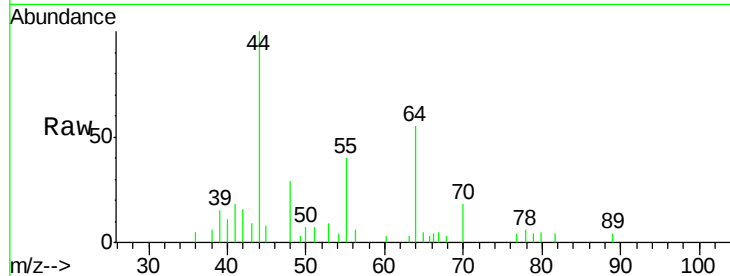




#13
Acrolein
Concen: 0.37 ug/l
RT: 2.26 min Scan# 275
Delta R.T. -0.04 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

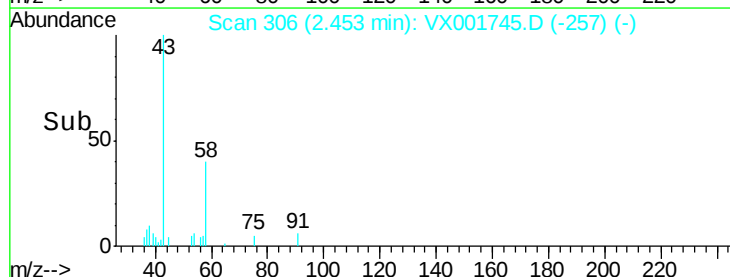
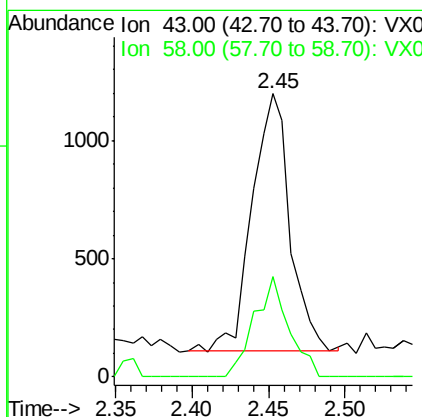
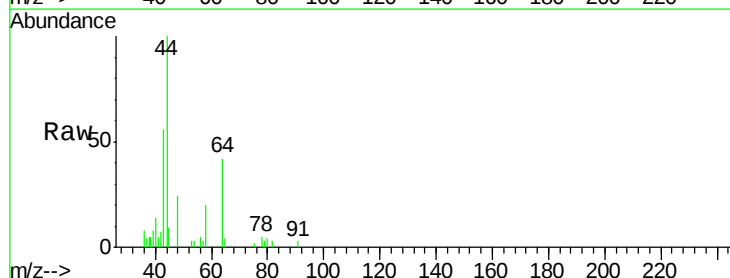
Instrument :
MSVOA_X
ClientSampled :
BFB

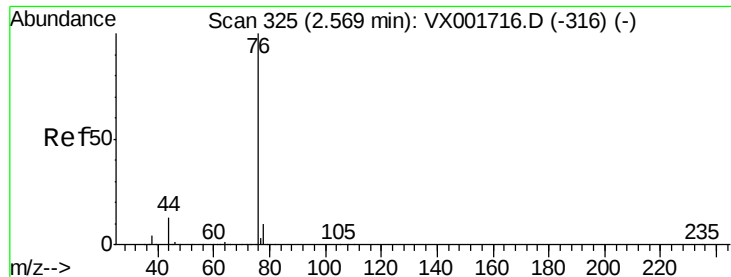
Tgt Ion: 56 Resp: 155
Ion Ratio Lower Upper
56 100
55 1035.5 56.2 84.2#



#16
Acetone
Concen: 1.43 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

Tgt Ion: 43 Resp: 1882
Ion Ratio Lower Upper
43 100
58 39.2 25.3 37.9#

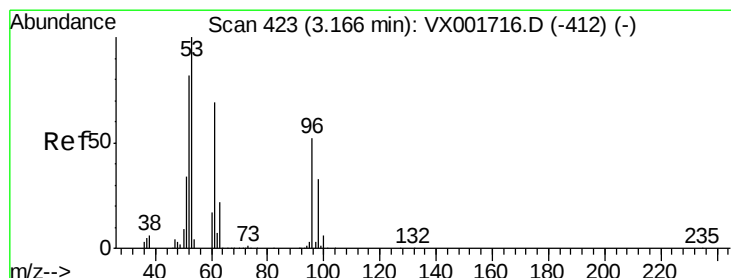
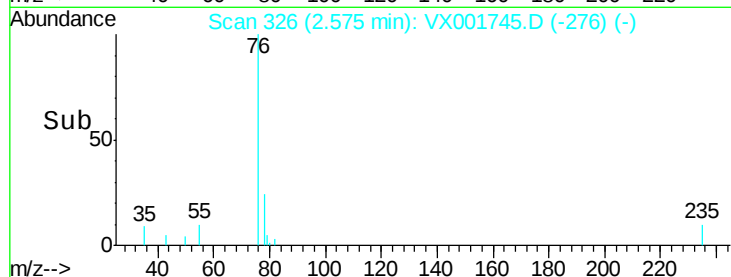
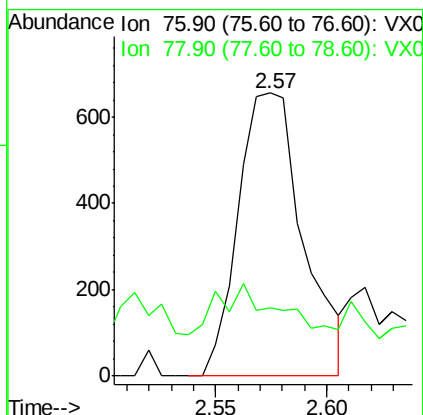
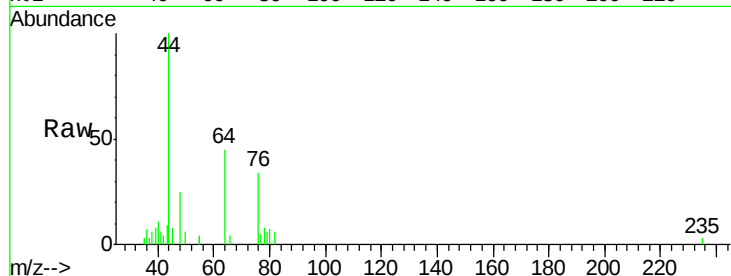




#17
Carbon Disulfide
Concen: 0.21 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

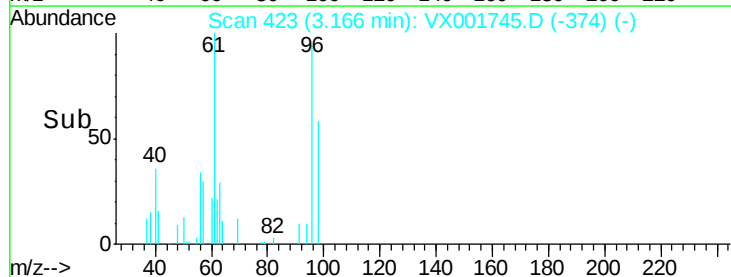
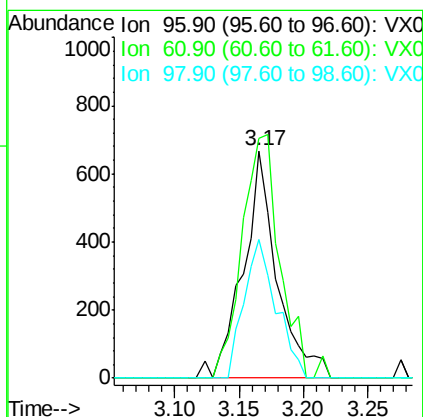
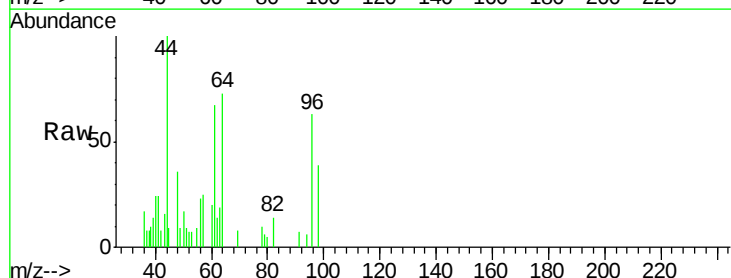
Instrument :
MSVOA_X
ClientSampled :
BFB

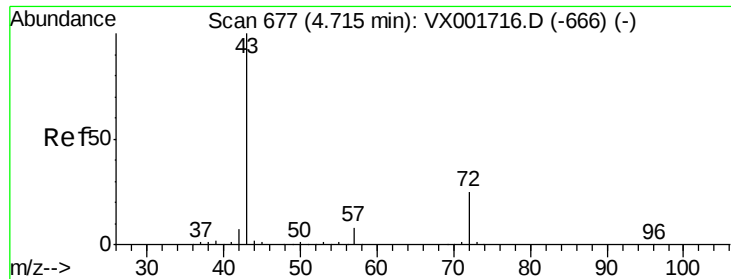
Tgt Ion: 76 Resp: 1332
Ion Ratio Lower Upper
76 100
78 9.5 7.6 11.4



#21
trans-1,2-Dichloroethene
Concen: 0.45 ug/l
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

Tgt Ion: 96 Resp: 1216
Ion Ratio Lower Upper
96 100
61 105.8 105.8 158.8
98 61.3 50.2 75.4





#25

2-Butanone

Concen: 0.30 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampled :

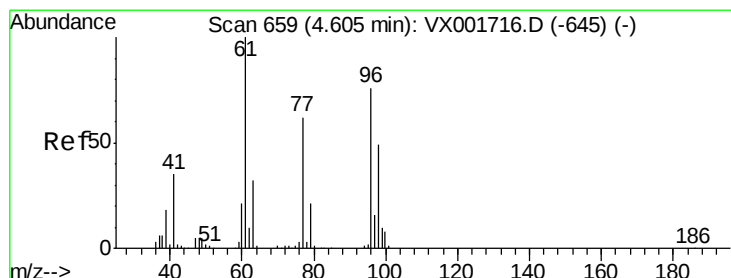
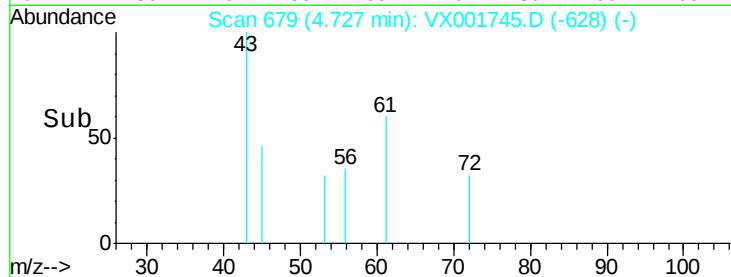
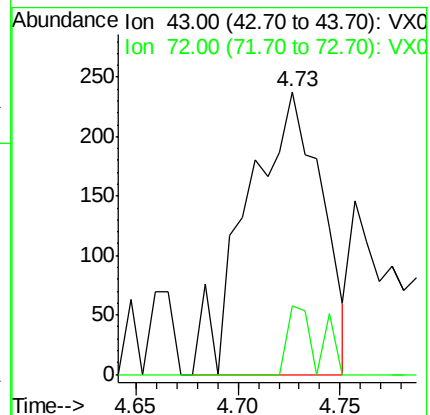
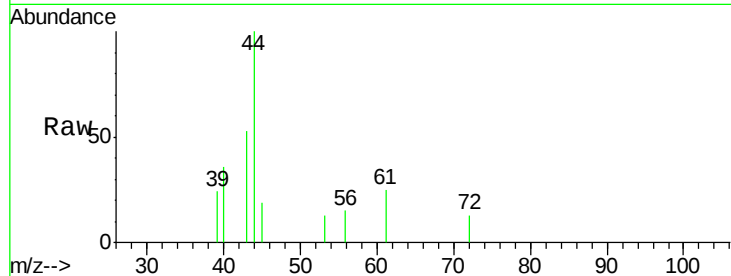
BFB

Tgt Ion: 43 Resp: 602

Ion Ratio Lower Upper

43 100

72 24.4 19.8 29.6



#27

cis-1,2-Dichloroethene

Concen: 15.79 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

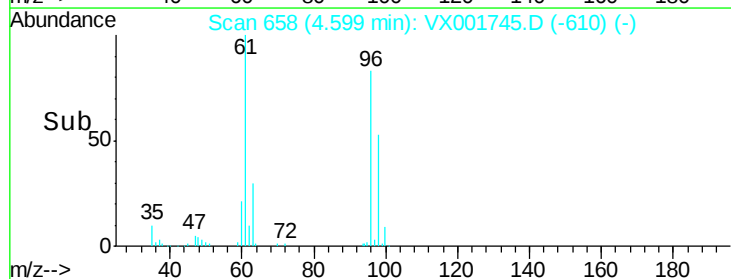
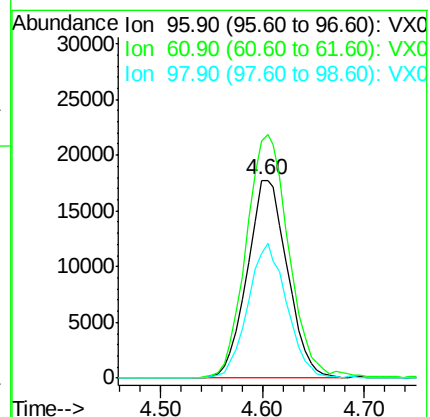
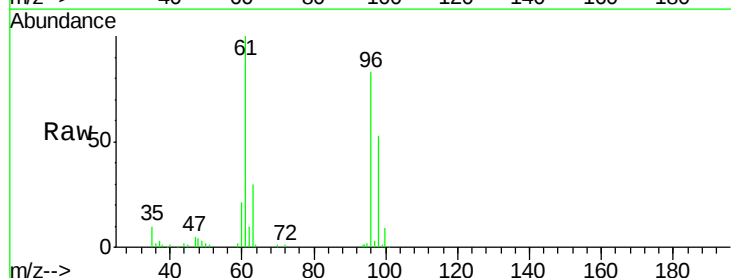
Tgt Ion: 96 Resp: 48773

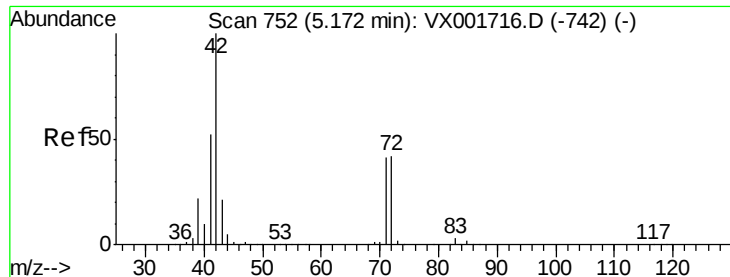
Ion Ratio Lower Upper

96 100

61 130.8 0.0 280.4

98 65.9 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.62 ug/l

RT: 5.21 min Scan# 758

Delta R.T. 0.04 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampled :

BFB

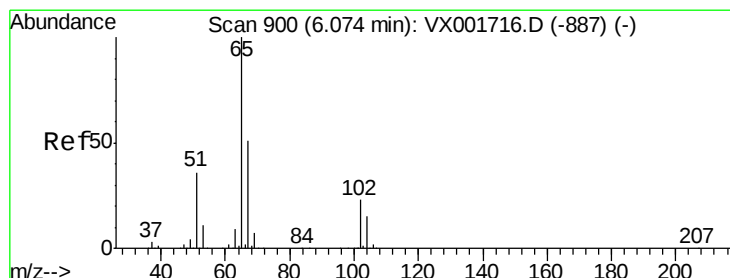
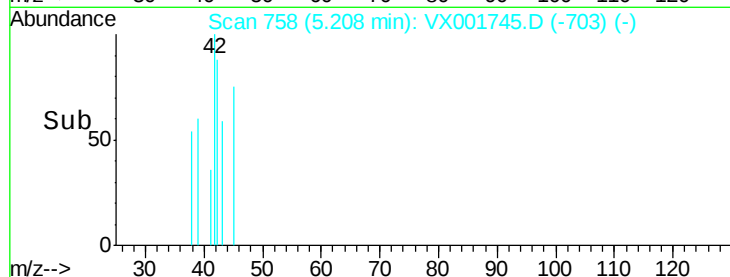
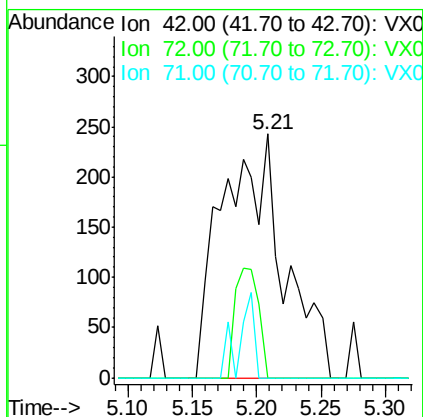
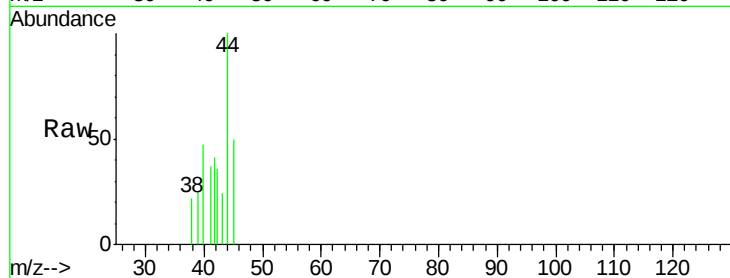
Tgt Ion: 42 Resp: 807

Ion Ratio Lower Upper

42 100

72 17.2 35.4 53.2#

71 8.9 33.2 49.8#



#33

1,2-Dichloroethane-d4

Concen: 56.87 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001745.D

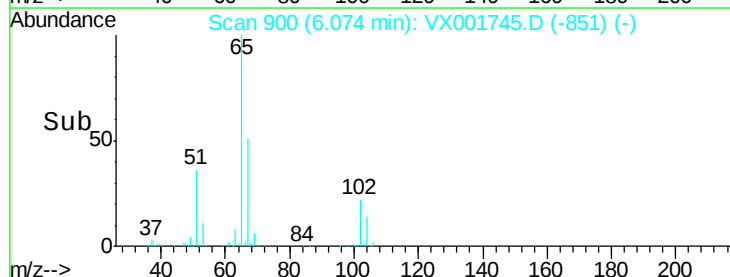
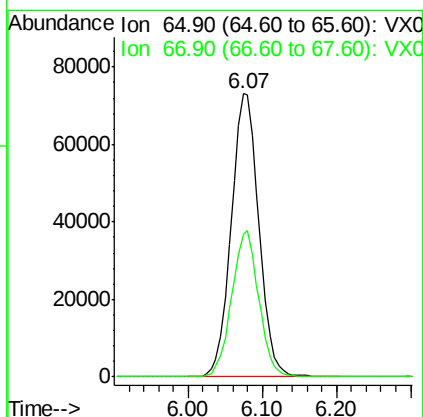
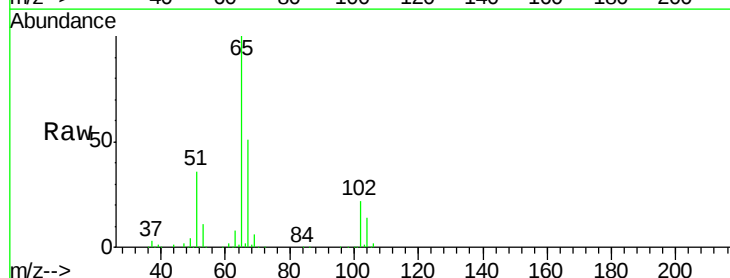
Acq: 15 May 2018 15:08

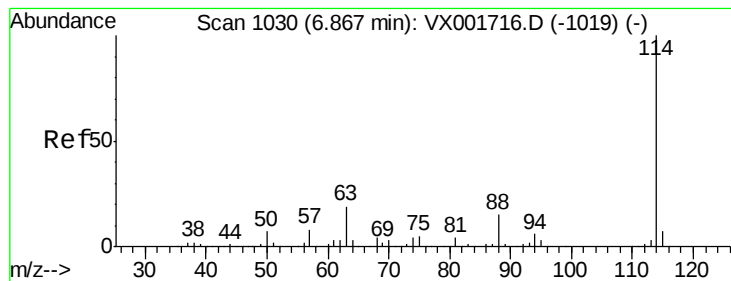
Tgt Ion: 65 Resp: 190075

Ion Ratio Lower Upper

65 100

67 50.4 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

BFB

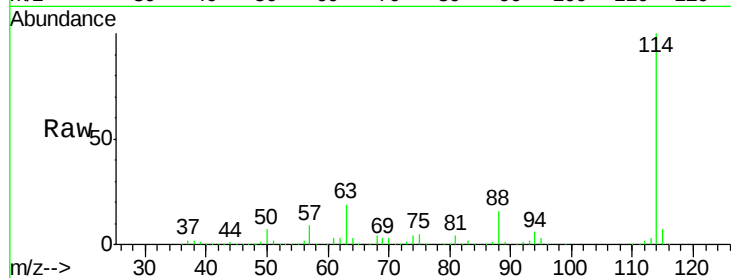
Tgt Ion:114 Resp: 337282

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.0

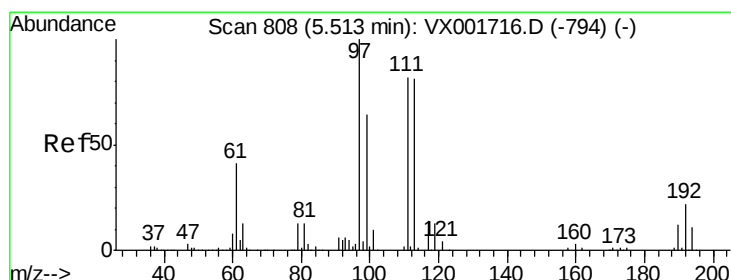
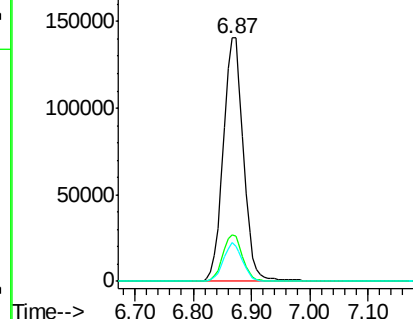
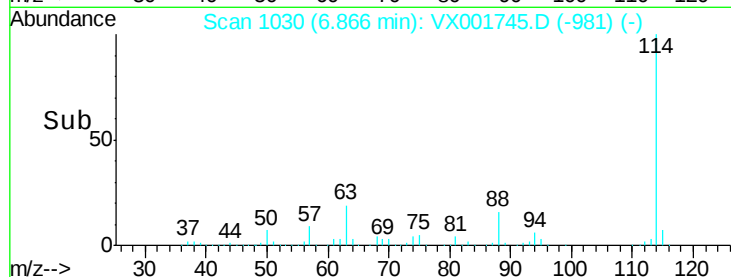
88 15.9 0.0 29.8



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: 53.72 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

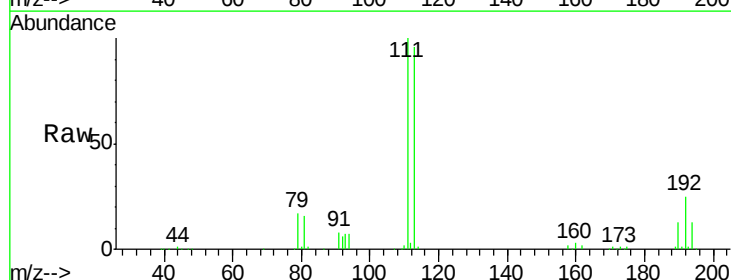
Tgt Ion:113 Resp: 152901

Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

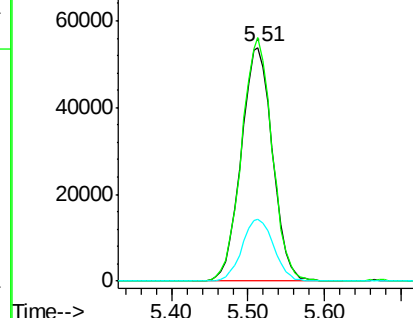
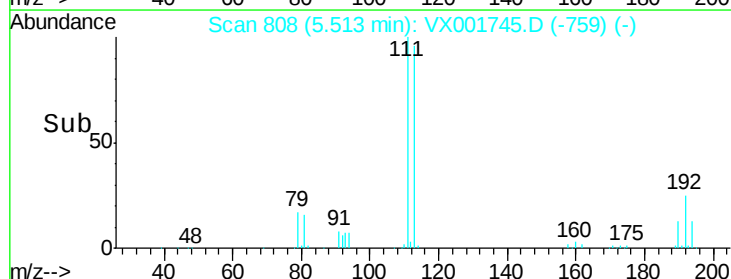
192 26.8 21.6 32.4

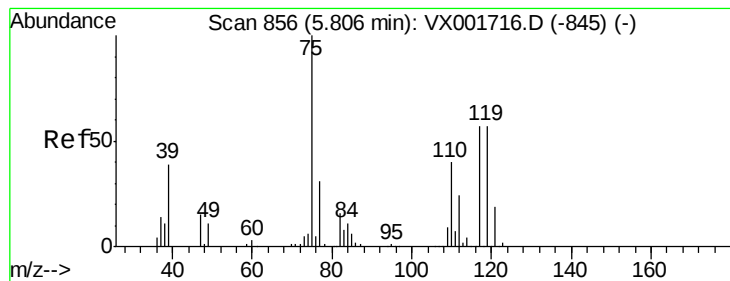


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.90 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampled :

BFB

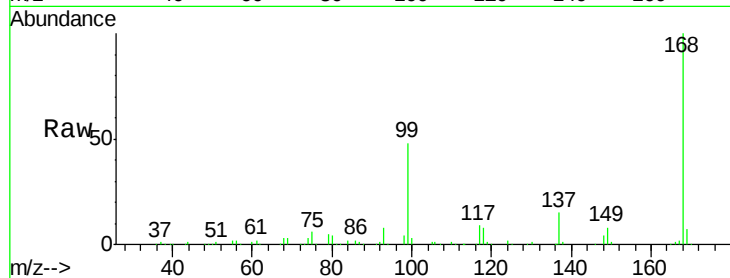
Tgt Ion: 75 Resp: 15145

Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.1#

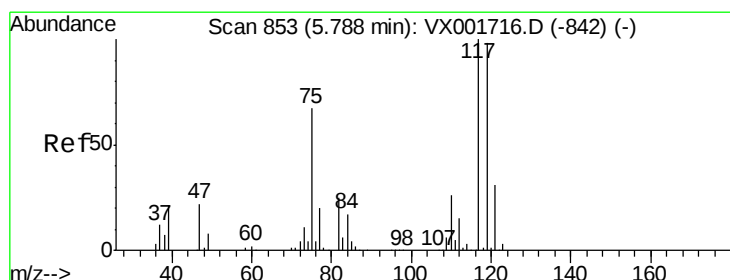
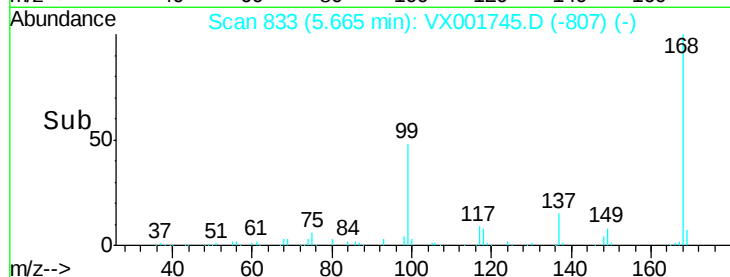
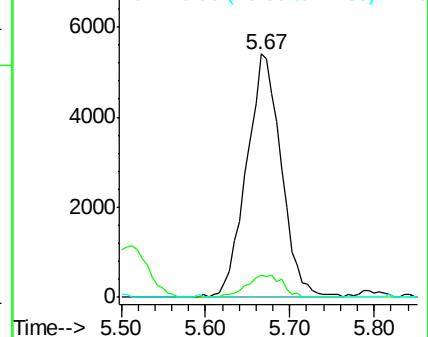
77 0.0 24.6 37.0#



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: 5.24 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

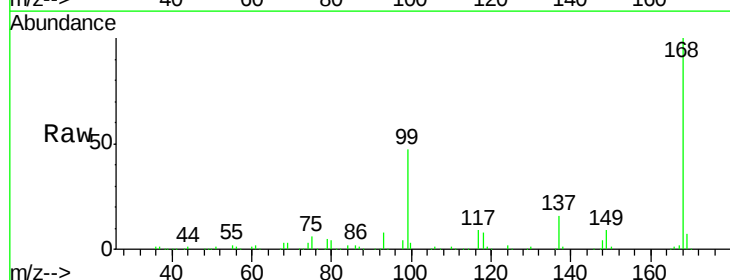
Tgt Ion: 117 Resp: 21295

Ion Ratio Lower Upper

117 100

119 6.0 77.6 116.4#

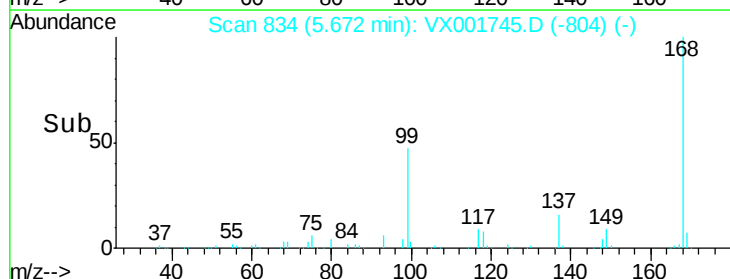
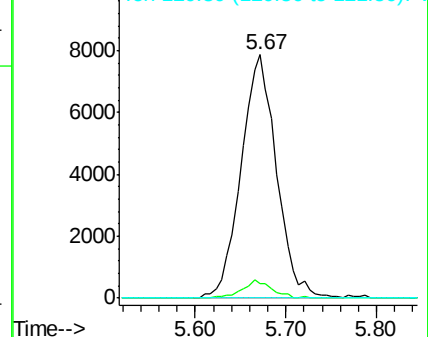
121 0.0 24.6 36.8#

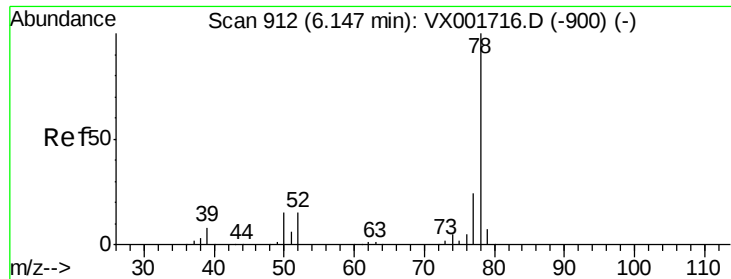


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

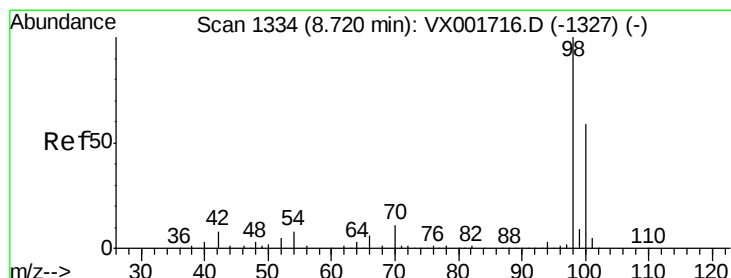
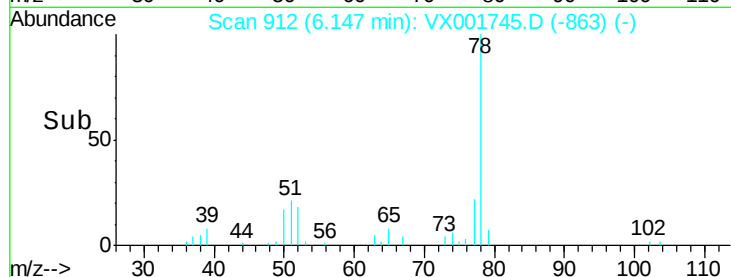
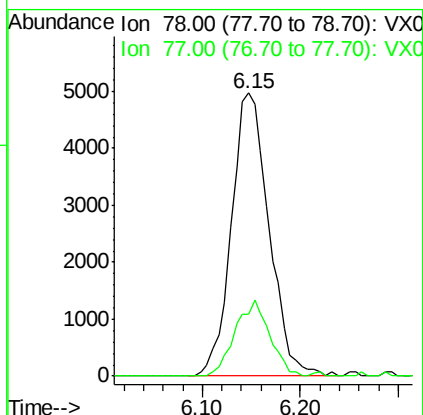
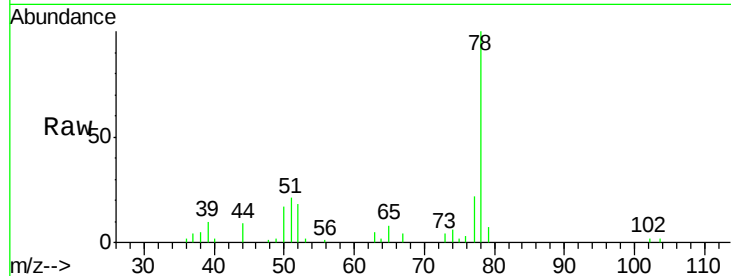




#40
Benzene
Concen: 1.16 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

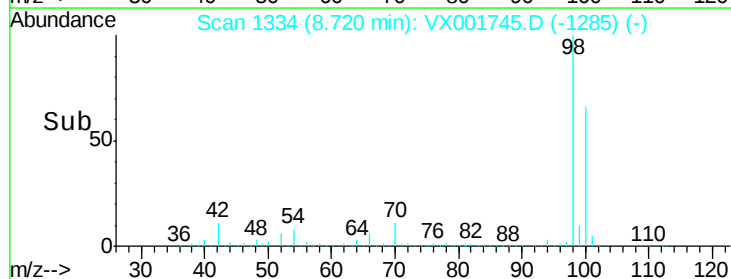
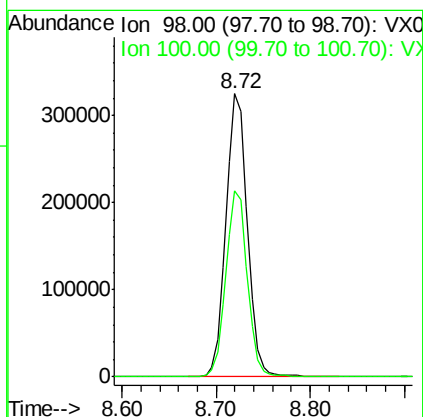
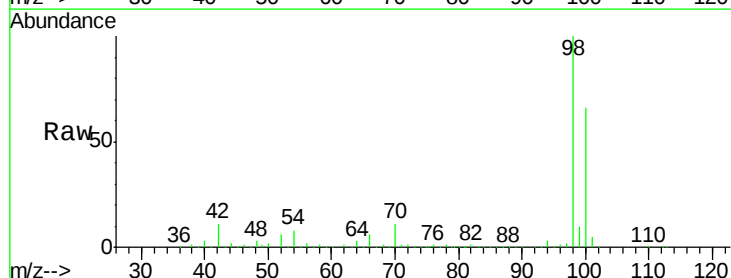
Instrument :
MSVOA_X
ClientSampled :
BFB

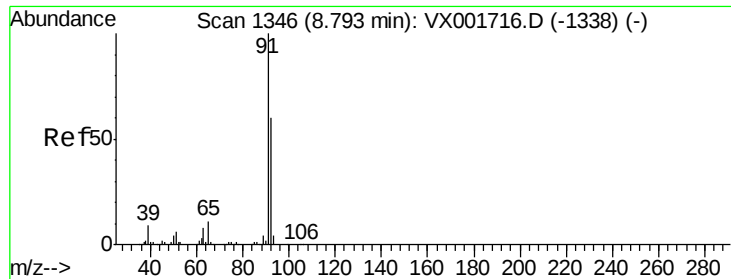
Tgt Ion: 78 Resp: 13282
Ion Ratio Lower Upper
78 100
77 22.1 19.0 28.4



#50
Toluene-d8
Concen: 50.42 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

Tgt Ion: 98 Resp: 513984
Ion Ratio Lower Upper
98 100
100 65.8 54.0 81.0





#52

Toluene

Concen: 0.26 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

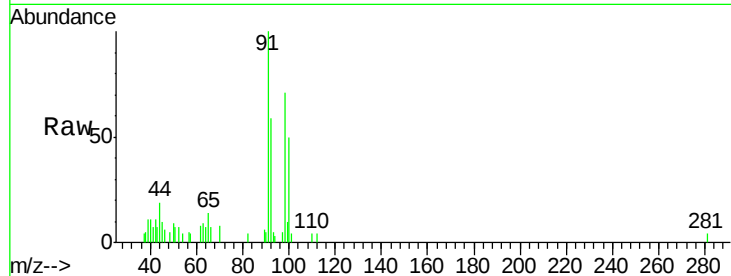
BFB

Tgt Ion: 92 Resp: 1892

Ion Ratio Lower Upper

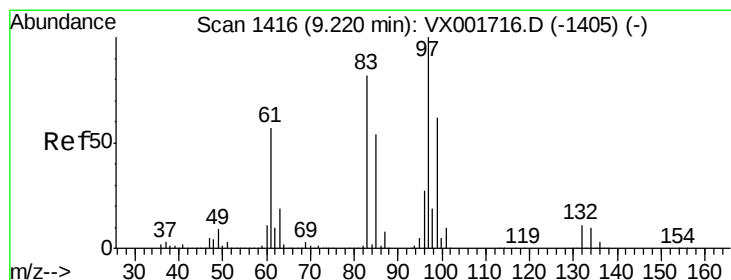
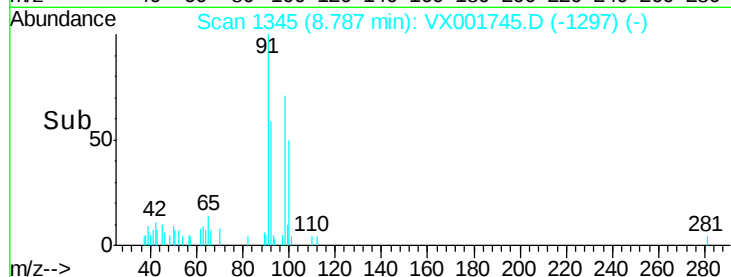
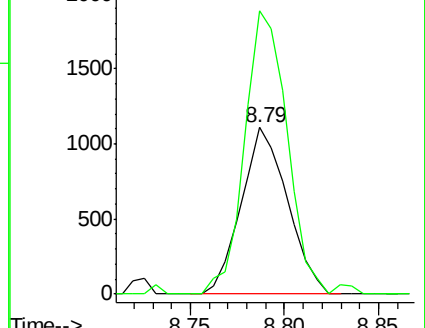
92 100

91 155.3 135.5 203.3



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.71 ug/l

RT: 9.09 min Scan# 1394

Delta R.T. -0.13 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Tgt Ion: 97 Resp: 1986

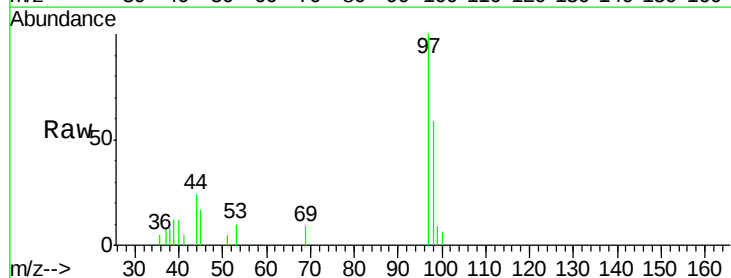
Ion Ratio Lower Upper

97 100

83 0.0 65.8 98.8#

85 0.0 43.4 65.0#

99 9.4 49.8 74.6#

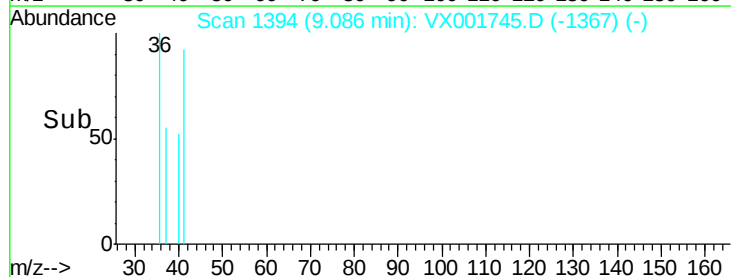
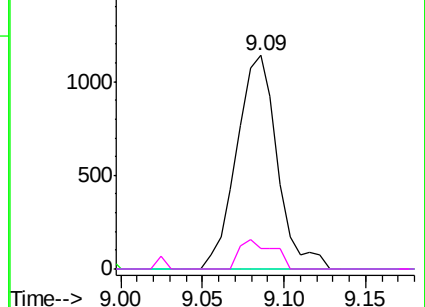


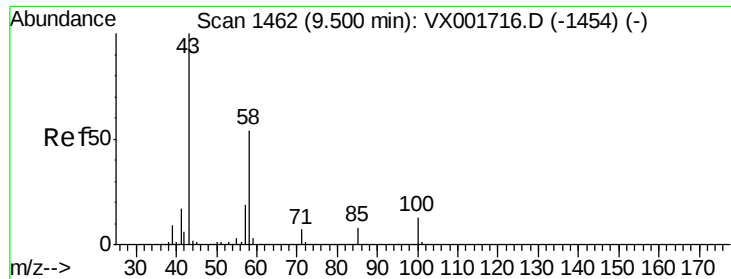
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

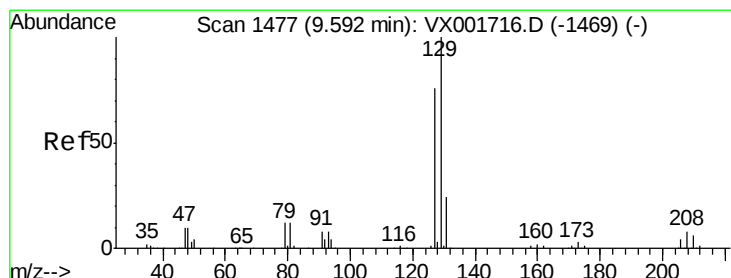
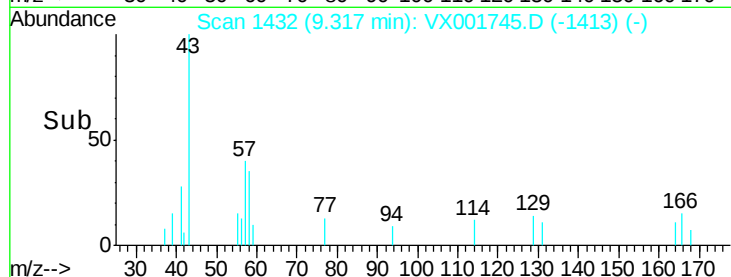
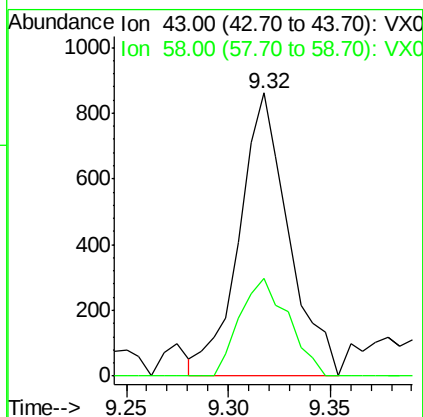
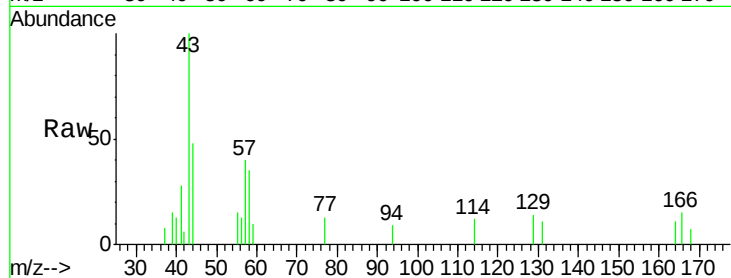




#59
2-Hexanone
Concen: 0.51 ug/l
RT: 9.32 min Scan# 1432
Delta R.T. -0.18 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

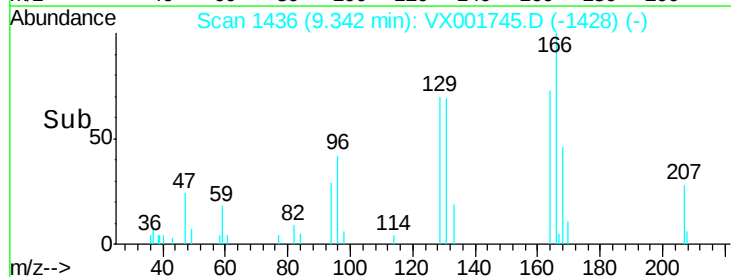
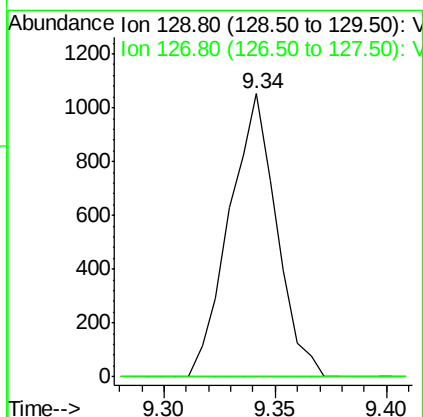
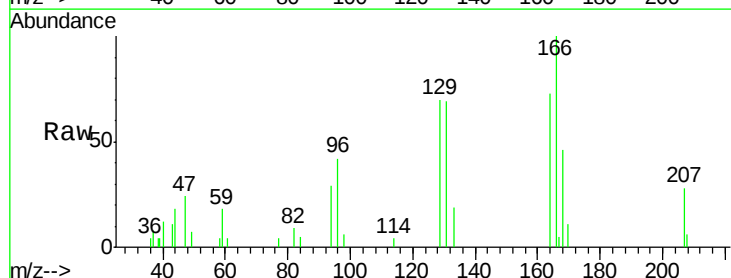
Instrument :
MSVOA_X
ClientSampleId :
BFB

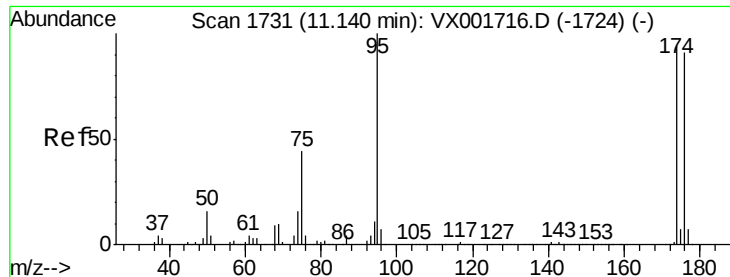
Tgt Ion: 43 Resp: 1452
Ion Ratio Lower Upper
43 100
58 34.0 27.7 83.1



#60
Dibromochloromethane
Concen: 0.54 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

Tgt Ion: 129 Resp: 1552
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 45.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

BFB

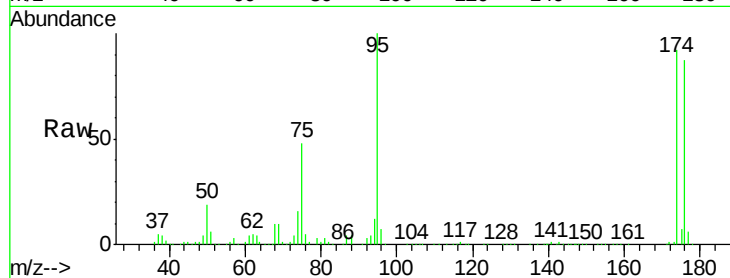
Tgt Ion: 95 Resp: 165370

Ion Ratio Lower Upper

95 100

174 101.9 0.0 201.8

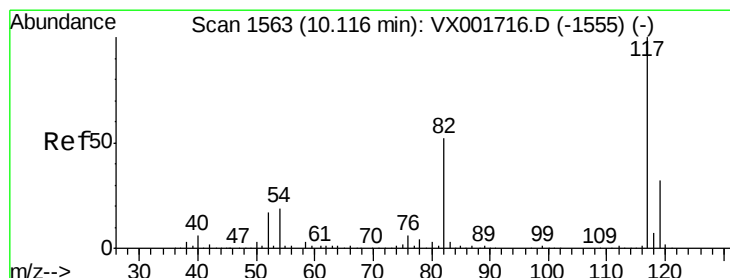
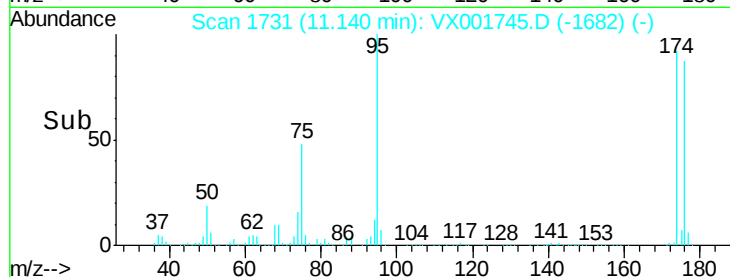
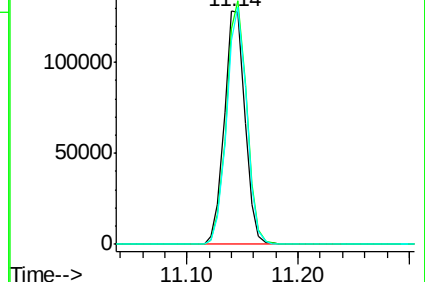
176 98.3 0.0 196.8



Abundance Ion 94.90 (94.60 to 95.60): VX001716.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX001716.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX001716.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

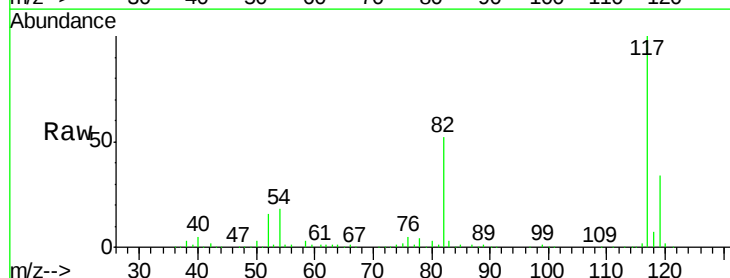
Tgt Ion: 117 Resp: 281487

Ion Ratio Lower Upper

117 100

82 51.6 41.4 62.2

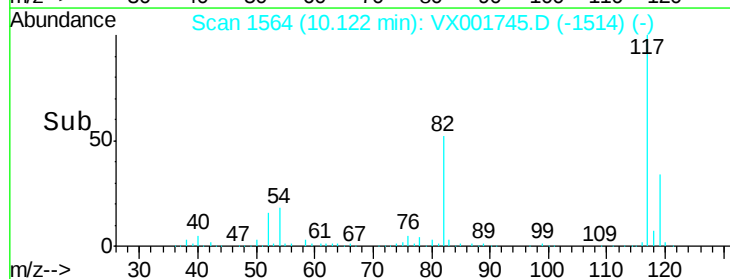
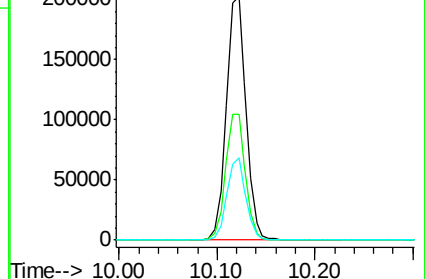
119 33.7 25.6 38.4

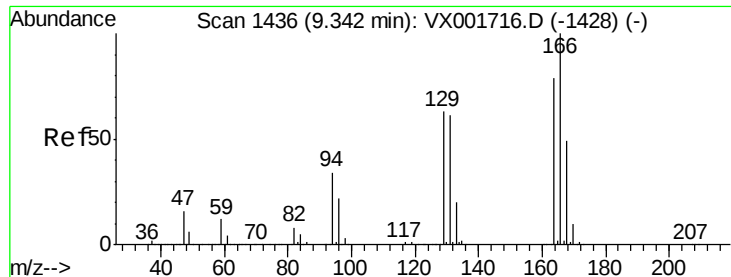


Abundance Ion 116.90 (116.60 to 117.60): VX001716.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX001716.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX001716.D (-1555) (-)

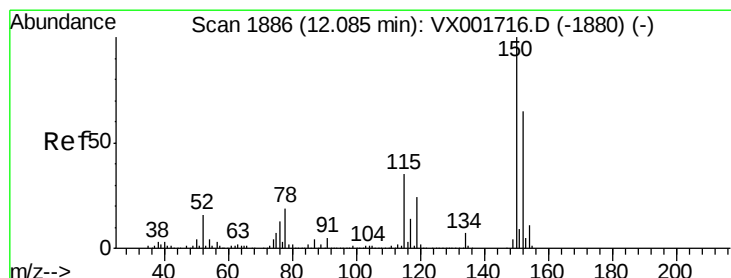
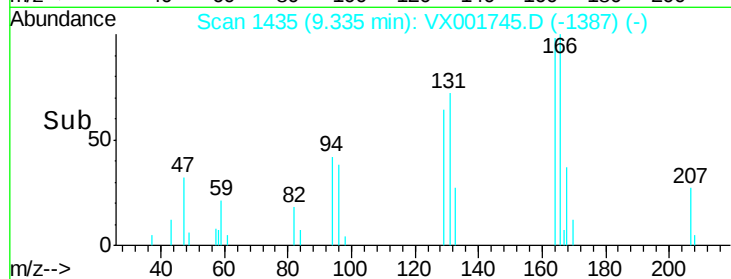
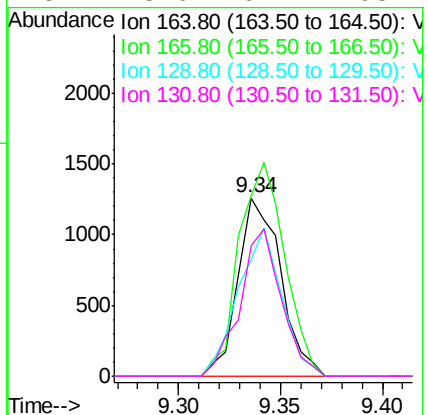
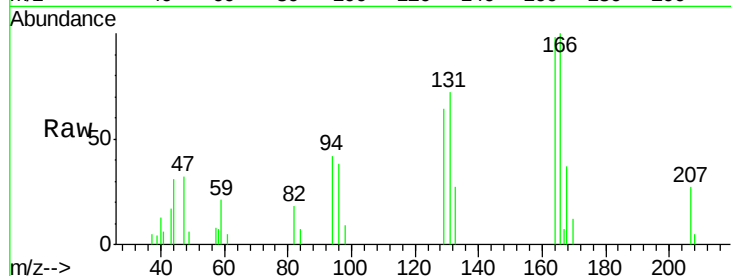




#64
Tetrachloroethene
Concen: 0.50 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

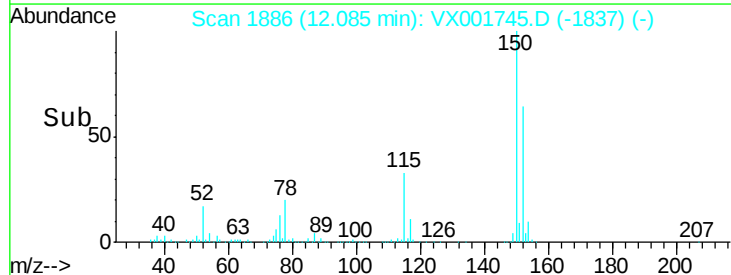
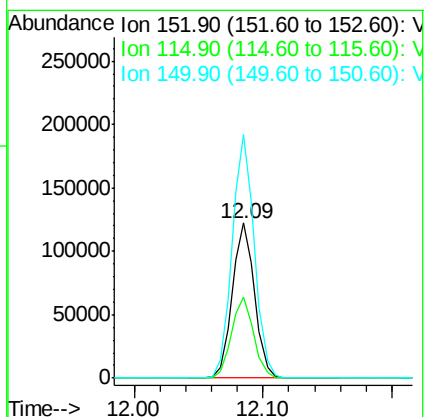
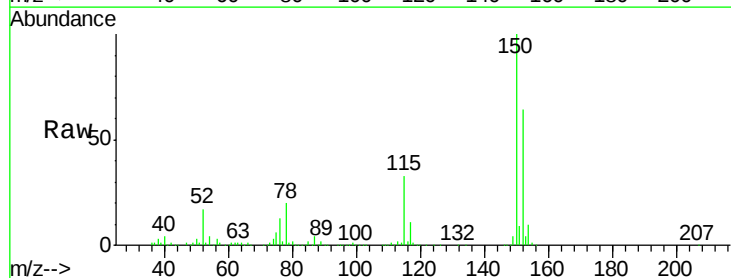
Instrument :
MSVOA_X
ClientSampleId :
BFB

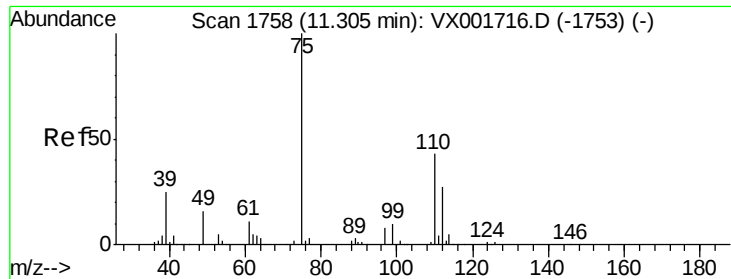
Tgt Ion:164 Resp: 1840
Ion Ratio Lower Upper
164 100
166 101.6 101.8 152.8#
129 65.5 63.8 95.6
131 73.6 62.2 93.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX001745.D
Acq: 15 May 2018 15:08

Tgt Ion:152 Resp: 147391
Ion Ratio Lower Upper
152 100
115 52.1 37.4 112.2
150 156.3 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 28.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

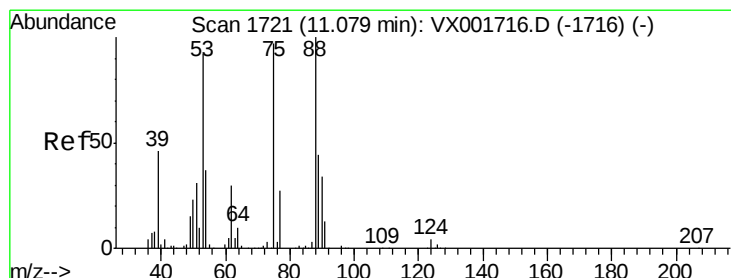
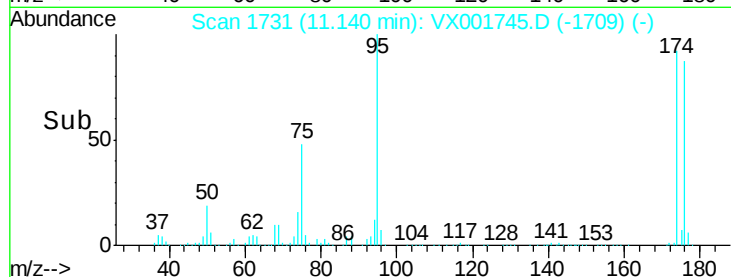
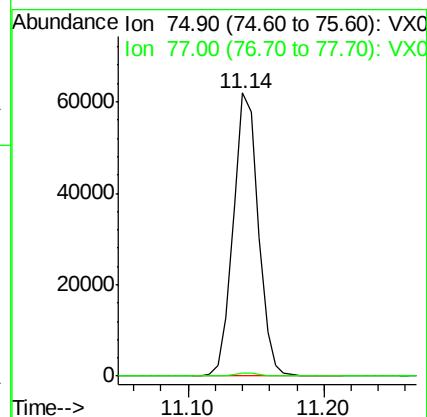
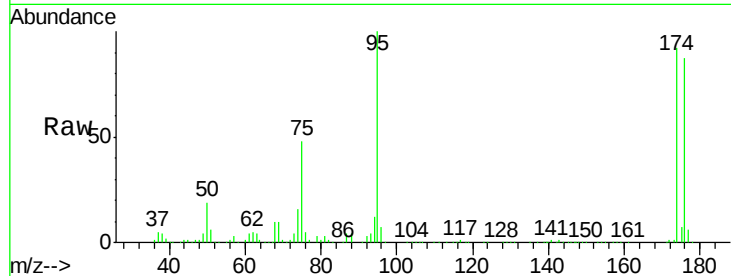
BFB

Tgt Ion: 75 Resp: 79131

Ion Ratio Lower Upper

75 100

77 1.2 18.9 56.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001745.D

Acq: 15 May 2018 15:08

Tgt Ion: 75 Resp: 79131

Ion Ratio Lower Upper

75 100

53 0.2 79.4 119.2#

89 0.0 38.8 58.2#

