

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072318\
 Data File : VX003612.D
 Acq On : 23 Jul 2018 18:43
 Operator : JC/SP
 Sample : J4048-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 YT-MW-6

Quant Time: Jul 24 01:43:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	359552	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	333733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181520	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	148933	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
35) Dibromofluoromethane	5.51	113	136845	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	8.72	98	508733	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	11.14	95	170615	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	

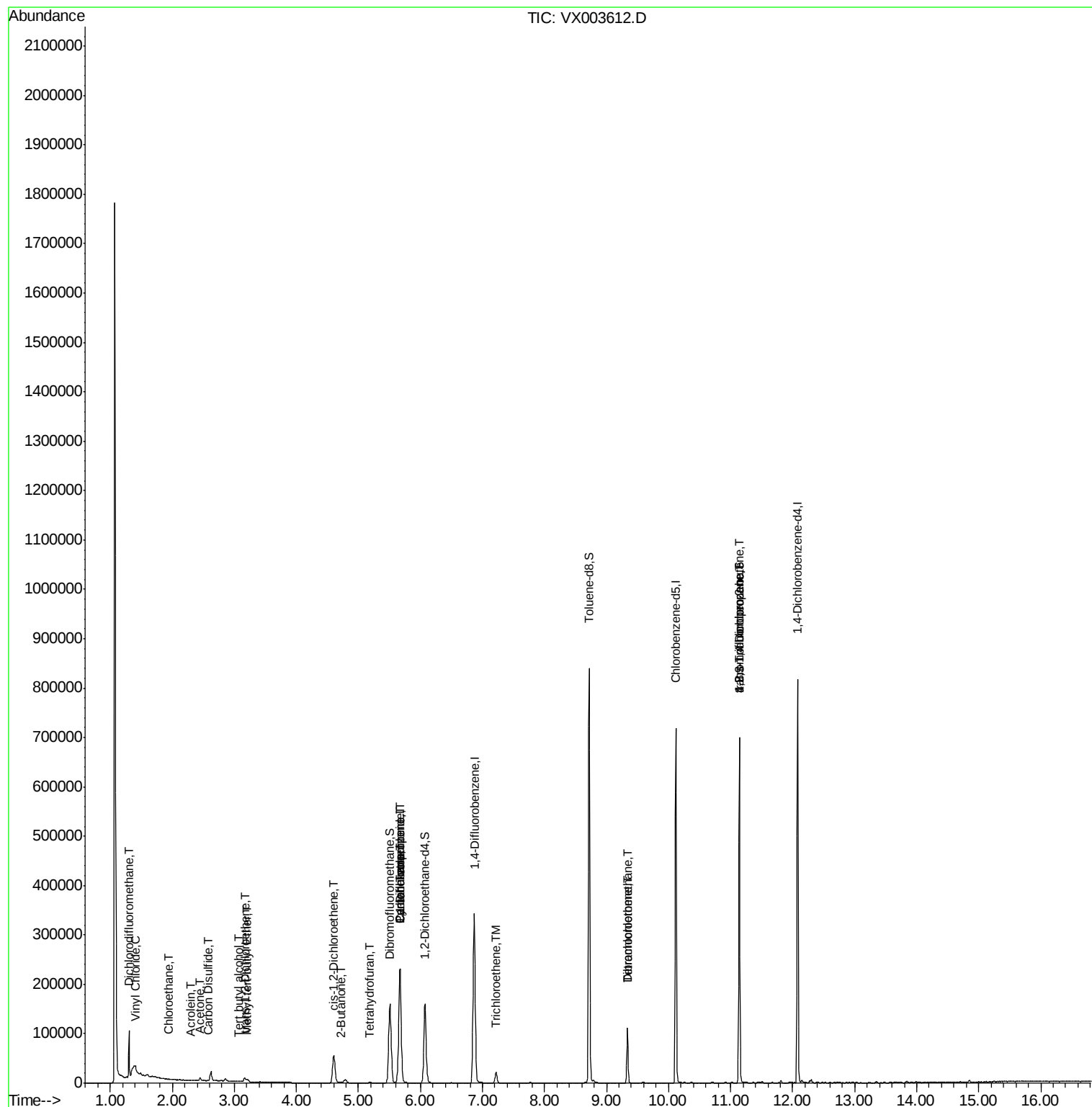
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	7564	3.169	ug/l	97
3) Chloromethane	1.34	50	524	Below Cal	#	43
4) Vinyl Chloride	1.40	62	4057	1.288	ug/l #	1
5) Bromomethane	1.67	94	888	Below Cal		90
6) Chloroethane	1.94	64	462	0.248	ug/l #	85
11) Tert butyl alcohol	3.07	59	461	0.794	ug/l #	73
13) Acrolein	2.31	56	63	0.240	ug/l #	14
16) Acetone	2.45	43	6034	5.443	ug/l #	82
17) Carbon Disulfide	2.57	76	3589	0.522	ug/l #	91
19) Methyl tert-butyl Ether	3.21	73	4984	0.603	ug/l	92
20) Methylene Chloride	2.86	84	2202	Below Cal	#	84
21) trans-1,2-Dichloroethene	3.17	96	3210	1.139	ug/l	87
25) 2-Butanone	4.71	43	1208	0.649	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	36165	11.528	ug/l	98
29) Tetrahydrofuran	5.18	42	763	0.621	ug/l	100
31) Cyclohexane	5.67	56	3789	0.857	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15291	3.939	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21099	5.541	ug/l #	18
44) Trichloroethene	7.22	130	9295	2.659	ug/l	98
60) Dibromochloromethane	9.34	129	20945	7.208	ug/l #	11
64) Tetrachloroethene	9.34	164	23704	5.830	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	80953	24.825	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	80953	69.535	ug/l #	7

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

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QLast Update : Thu Jul 19 17:09:44 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampleId :

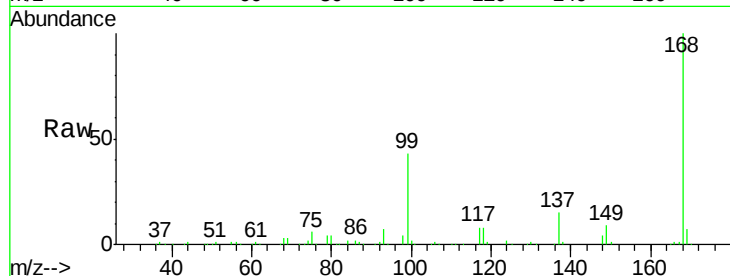
YT-MW-6

Tgt Ion:168 Resp: 247922

Ion Ratio Lower Upper

168 100

99 43.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

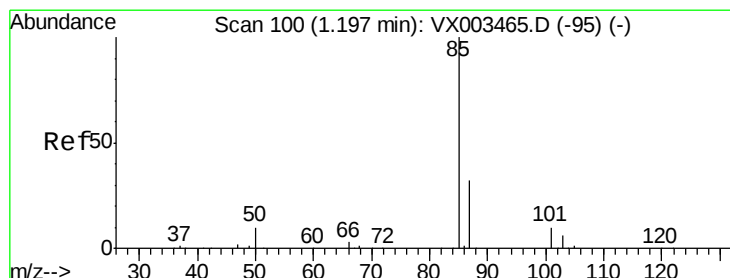
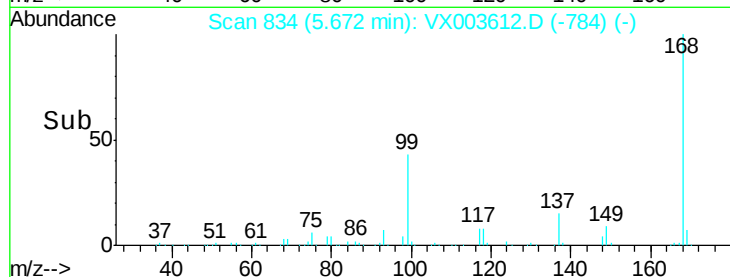
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 3.169 ug/l

RT: 1.30 min Scan# 117

Delta R.T. 0.10 min

Lab File: VX003612.D

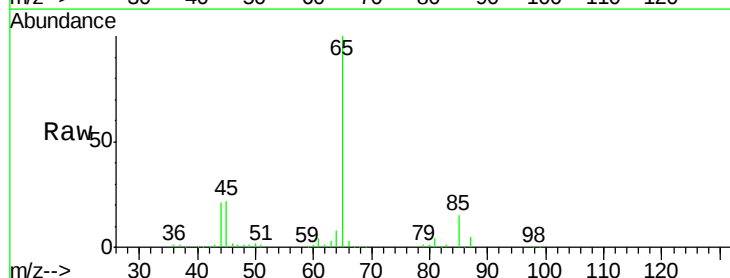
Acq: 23 Jul 2018 18:43

Tgt Ion: 85 Resp: 7564

Ion Ratio Lower Upper

85 100

87 33.8 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.30

8000

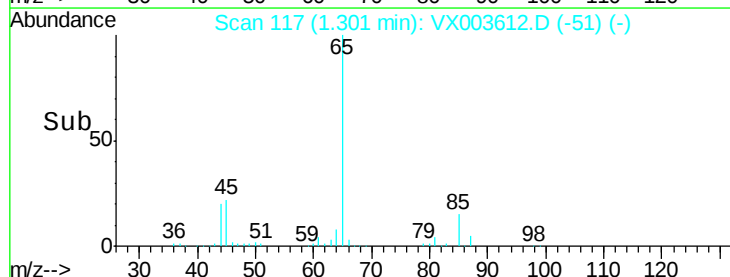
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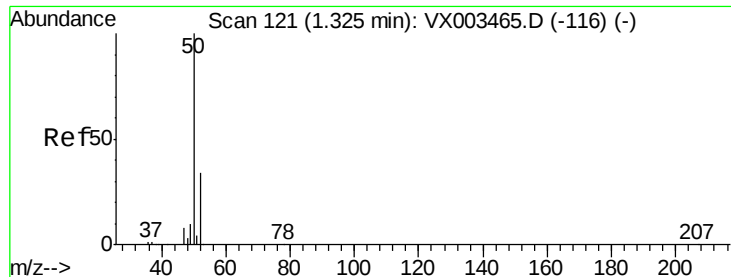
4000

2000

0

Time--> 1.25 1.30 1.35





#3

Chloromethane

Concen: Below Cal

RT: 1.34 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampleId :

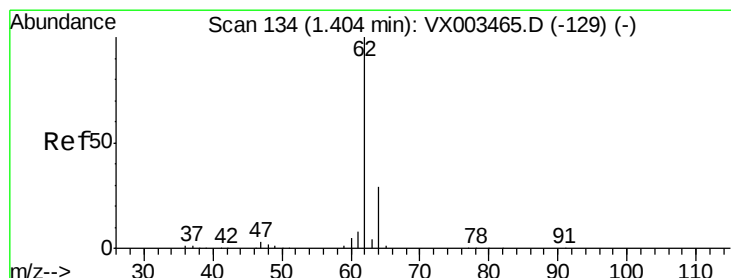
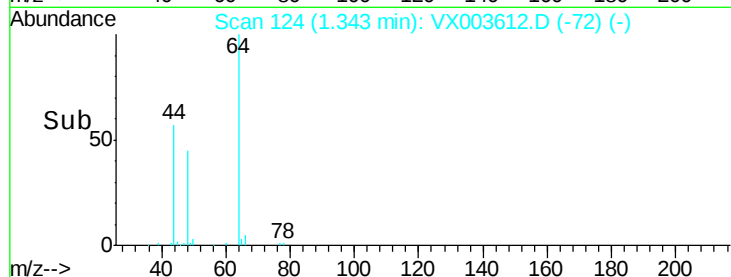
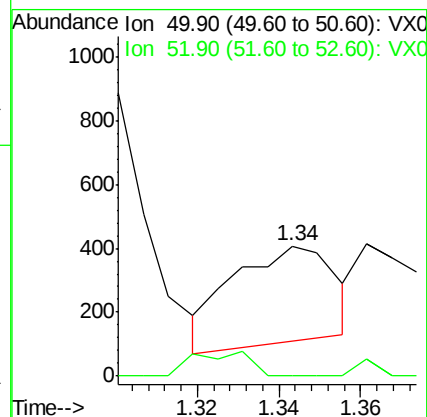
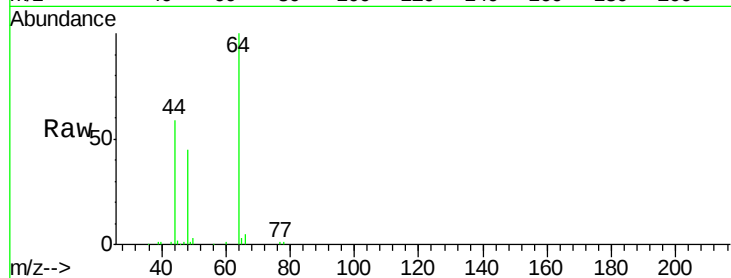
YT-MW-6

Tgt Ion: 50 Resp: 524

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#



#4

Vinyl Chloride

Concen: 1.288 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003612.D

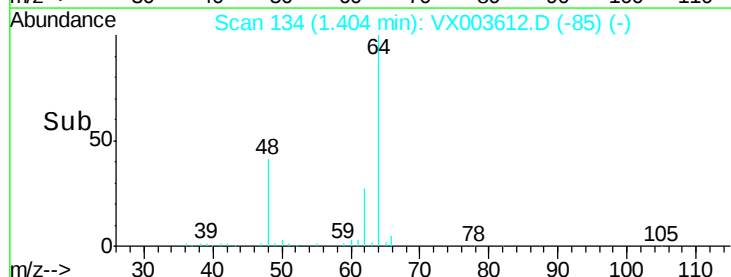
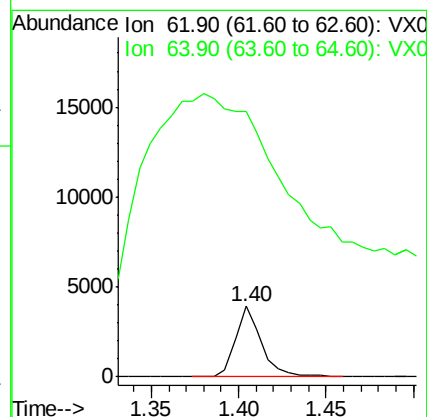
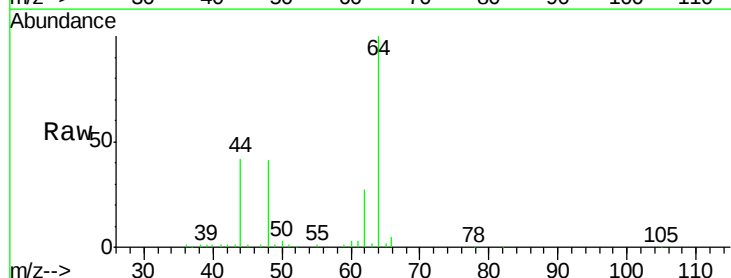
Acq: 23 Jul 2018 18:43

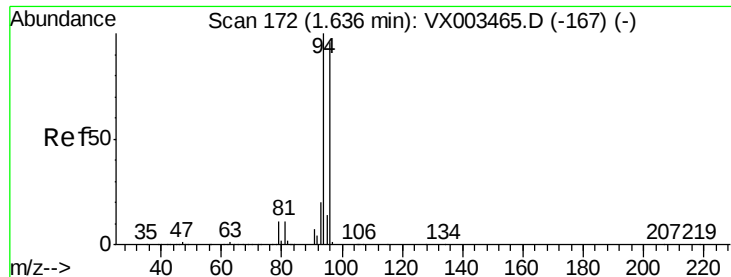
Tgt Ion: 62 Resp: 4057

Ion Ratio Lower Upper

62 100

64 184.6 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampled :

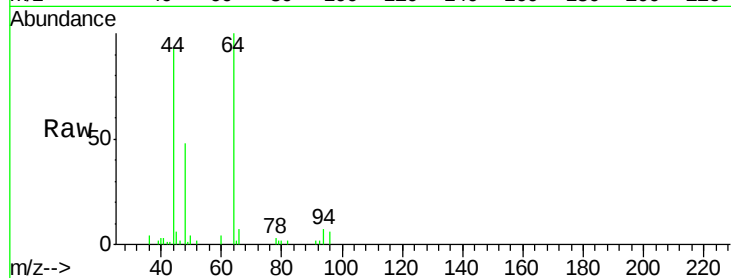
YT-MW-6

Tgt Ion: 94 Resp: 888

Ion Ratio Lower Upper

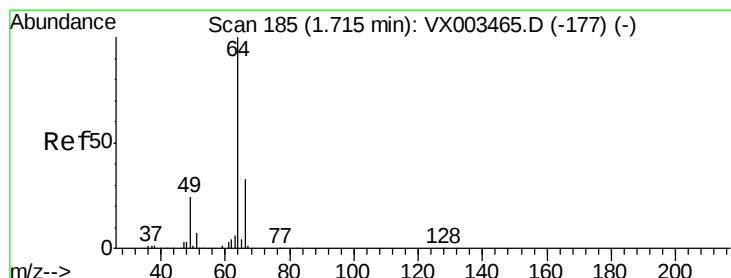
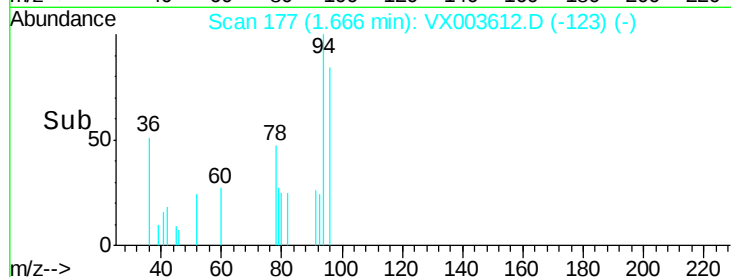
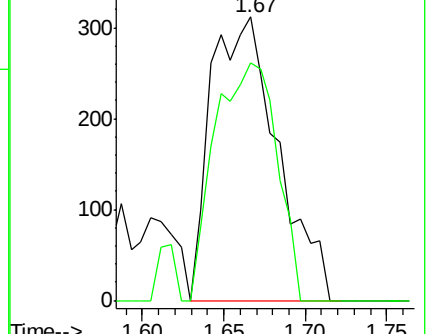
94 100

96 83.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.248 ug/l

RT: 1.94 min Scan# 222

Delta R.T. 0.23 min

Lab File: VX003612.D

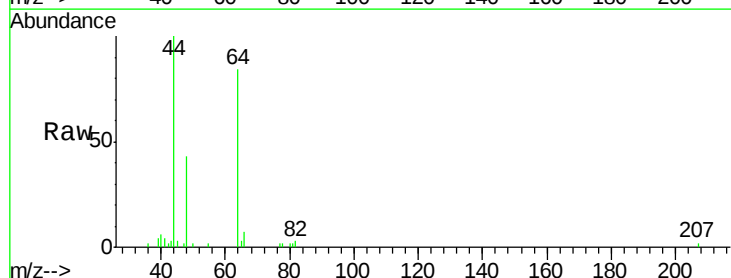
Acq: 23 Jul 2018 18:43

Tgt Ion: 64 Resp: 462

Ion Ratio Lower Upper

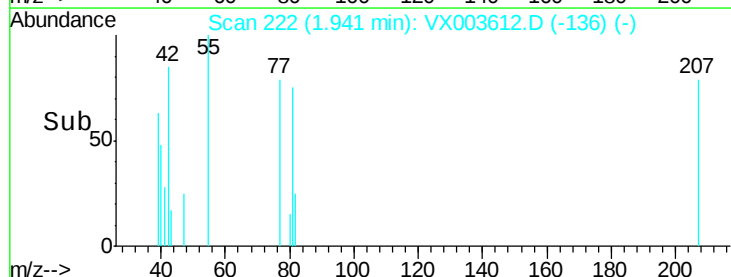
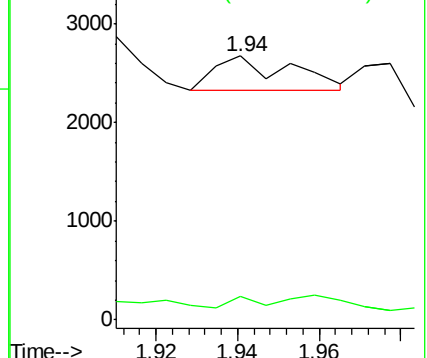
64 100

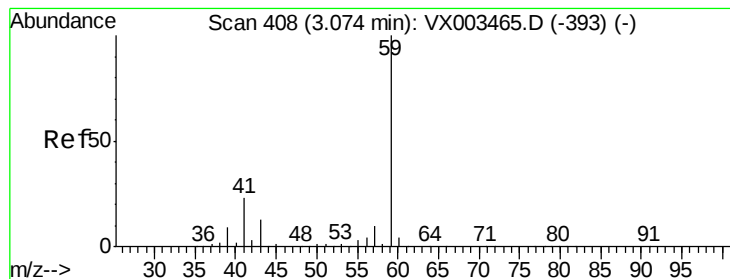
66 23.7 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



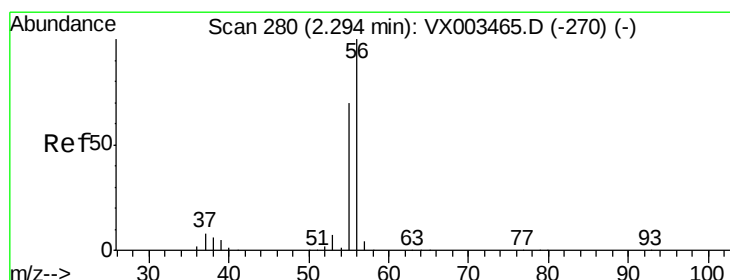
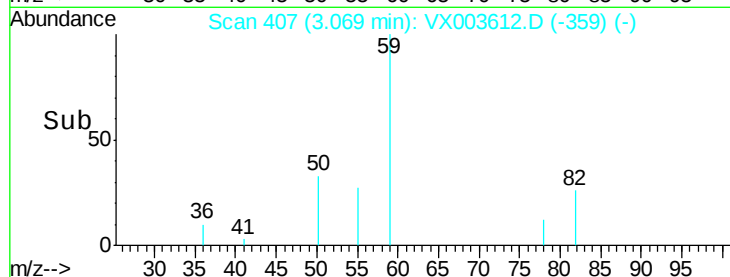
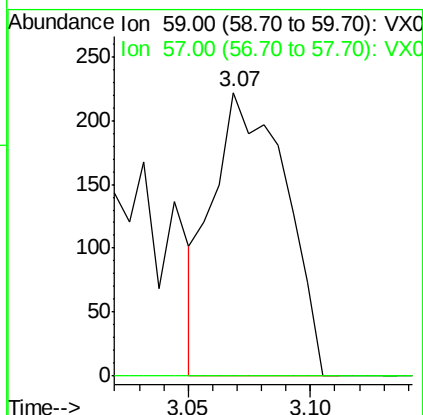
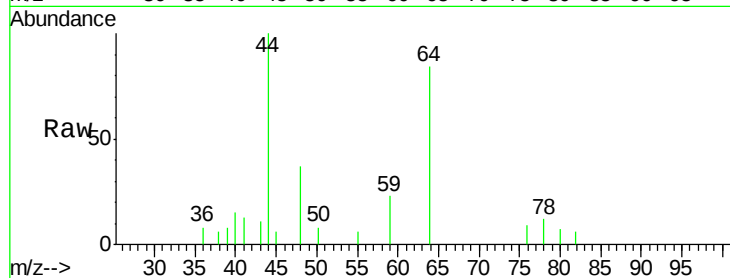


#11

Tert butyl alcohol
 Concen: 0.794 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX003612.D
 Acq: 23 Jul 2018 18:43

Instrument :
 MSVOA_X
 ClientSampleId :
 YT-MW-6

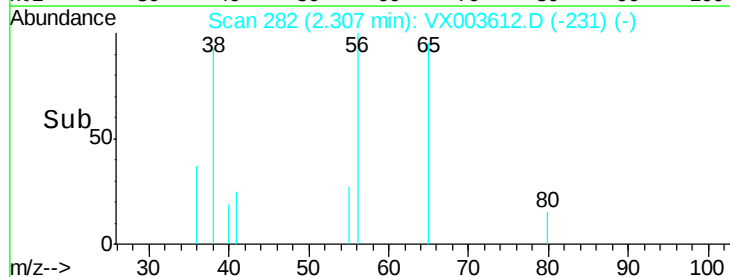
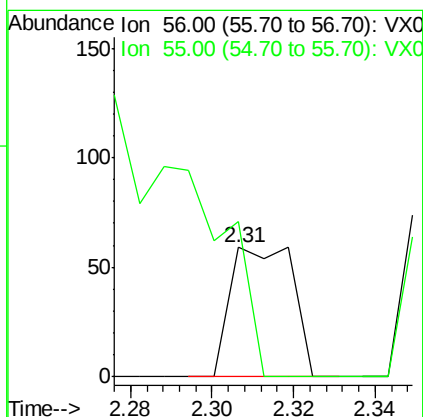
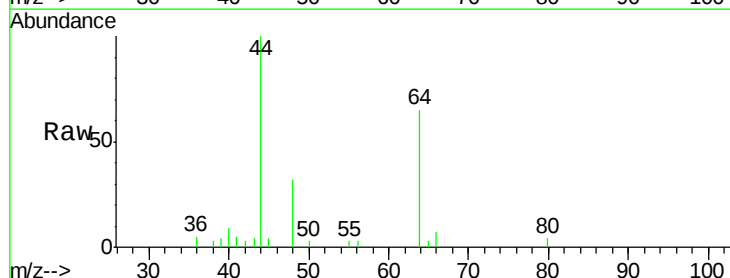
Tgt Ion: 59 Resp: 461
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

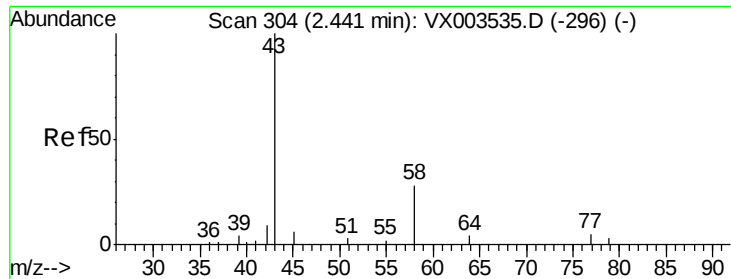


#13

Acrolein
 Concen: 0.240 ug/l
 RT: 2.31 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VX003612.D
 Acq: 23 Jul 2018 18:43

Tgt Ion: 56 Resp: 63
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 5.443 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampleId :

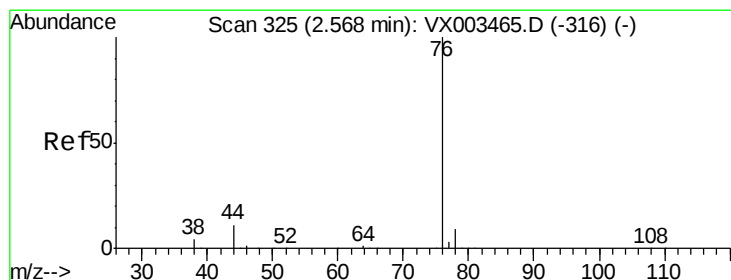
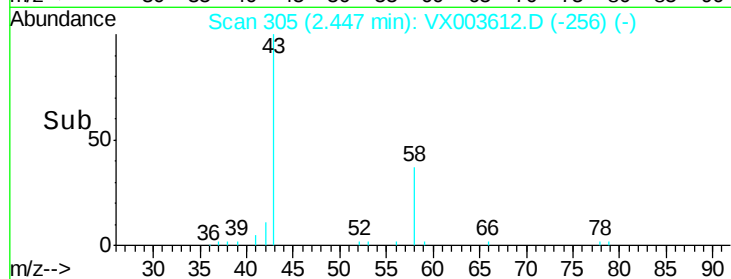
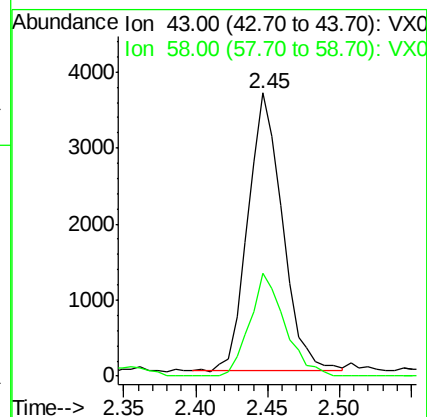
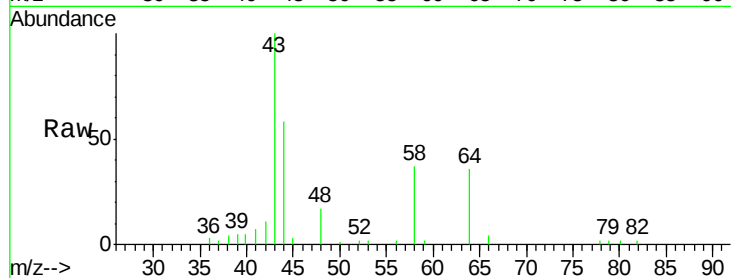
YT-MW-6

Tgt Ion: 43 Resp: 6034

Ion Ratio Lower Upper

43 100

58 37.2 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.522 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003612.D

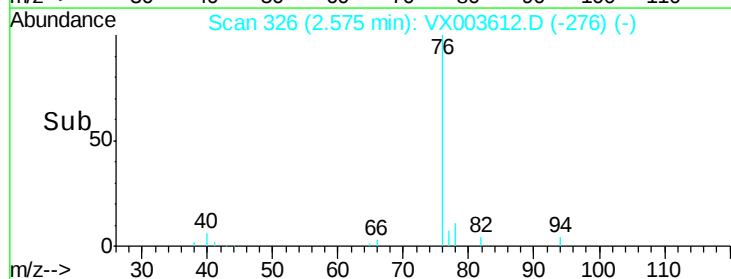
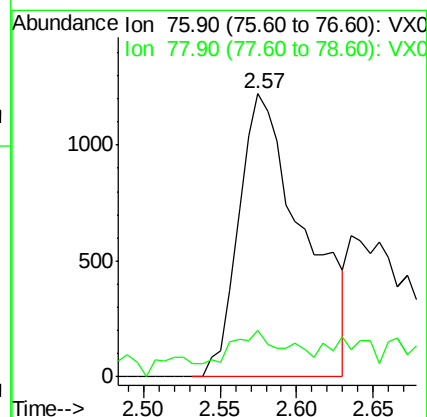
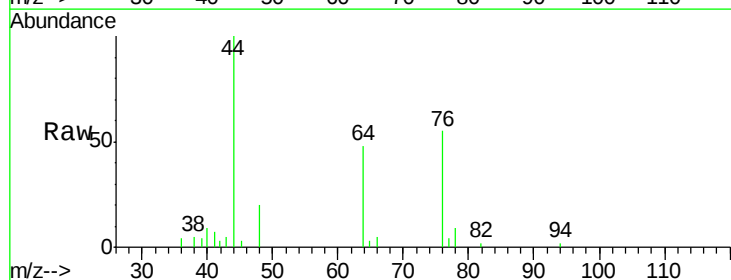
Acq: 23 Jul 2018 18:43

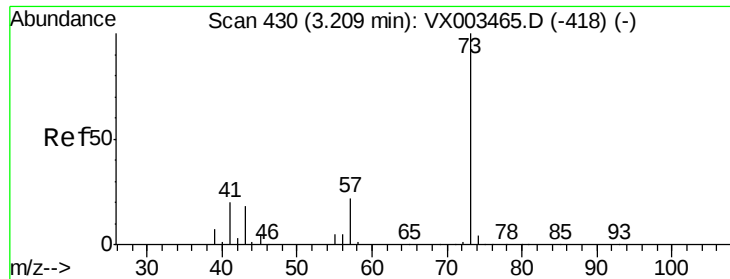
Tgt Ion: 76 Resp: 3589

Ion Ratio Lower Upper

76 100

78 11.8 6.9 10.3#

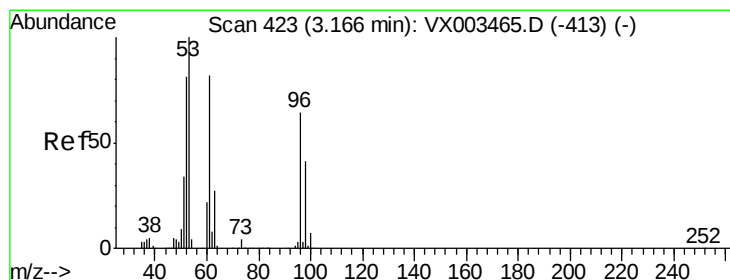
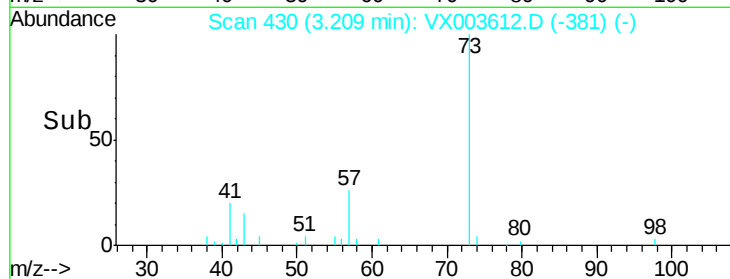
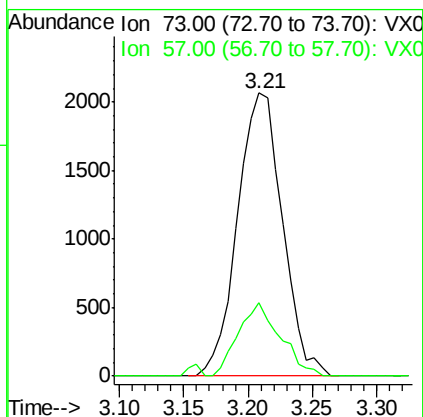
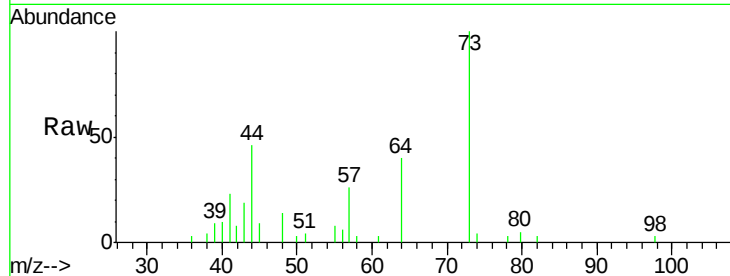




#19
Methyl tert-butyl Ether
Concen: 0.603 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX003612.D
Acq: 23 Jul 2018 18:43

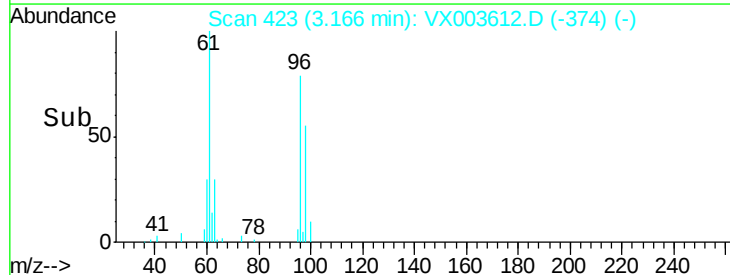
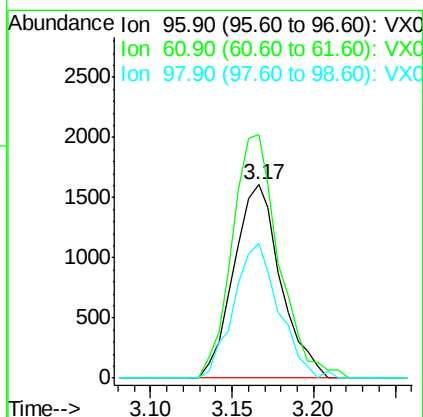
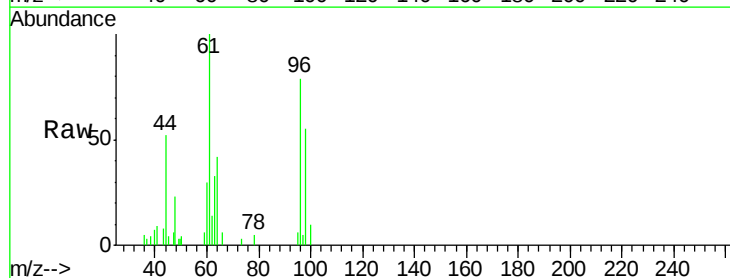
Instrument :
MSVOA_X
ClientSampleId :
YT-MW-6

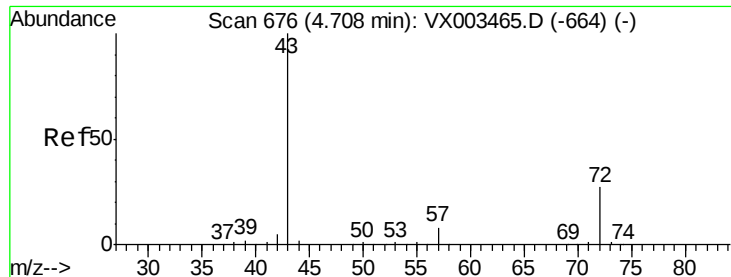
Tgt Ion: 73 Resp: 4984
Ion Ratio Lower Upper
73 100
57 26.1 17.7 26.5



#21
trans-1,2-Dichloroethene
Concen: 1.139 ug/l
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX003612.D
Acq: 23 Jul 2018 18:43

Tgt Ion: 96 Resp: 3210
Ion Ratio Lower Upper
96 100
61 125.8 117.0 175.4
98 69.6 52.4 78.6





#25

2-Butanone

Concen: 0.649 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampled :

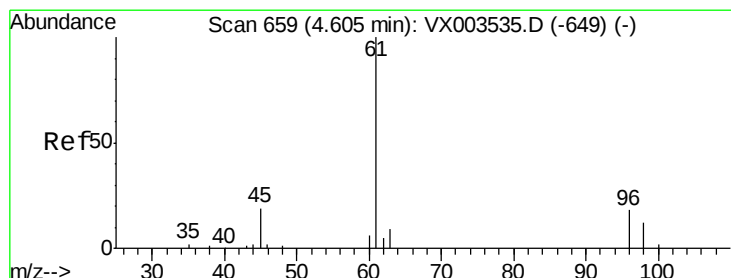
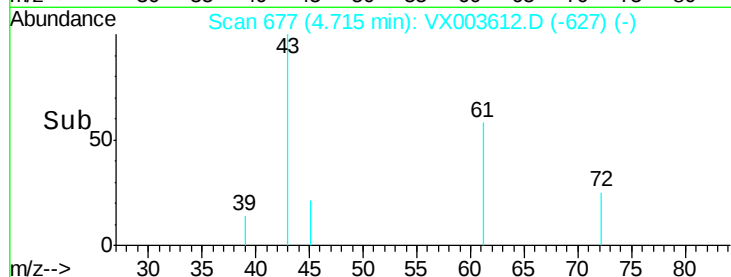
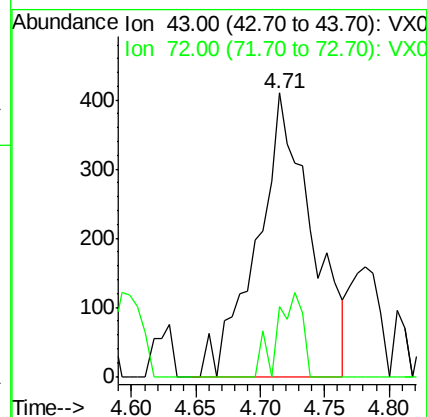
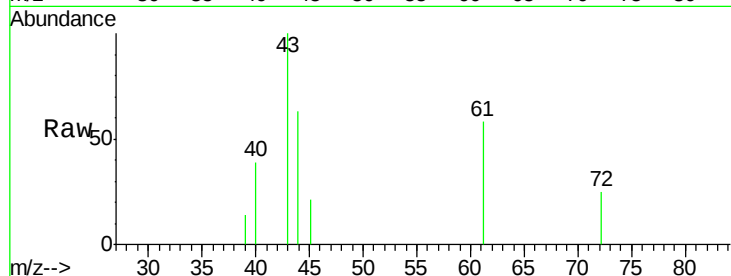
YT-MW-6

Tgt Ion: 43 Resp: 1208

Ion Ratio Lower Upper

43 100

72 24.9 18.5 27.7



#27

cis-1,2-Dichloroethene

Concen: 11.528 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

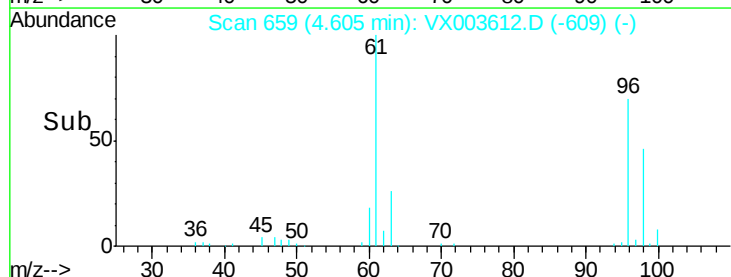
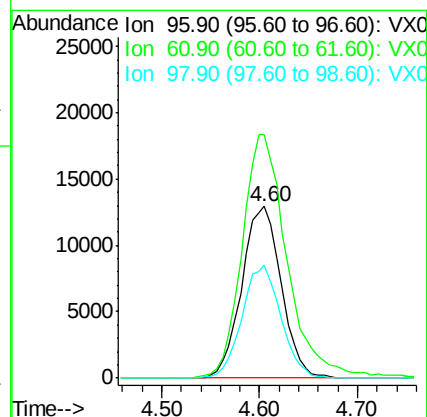
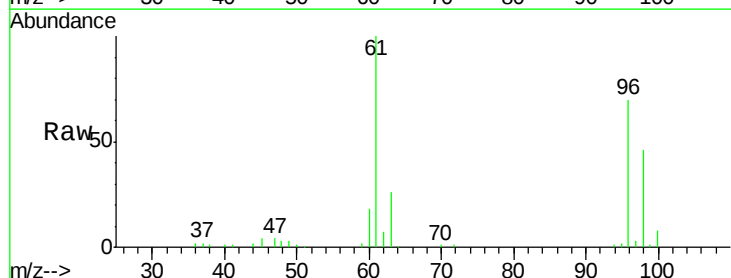
Tgt Ion: 96 Resp: 36165

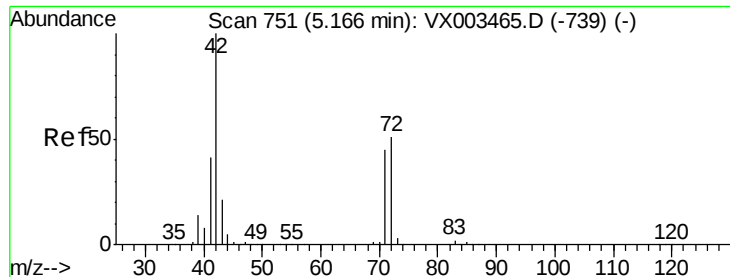
Ion Ratio Lower Upper

96 100

61 161.7 0.0 330.2

98 64.9 0.0 130.2

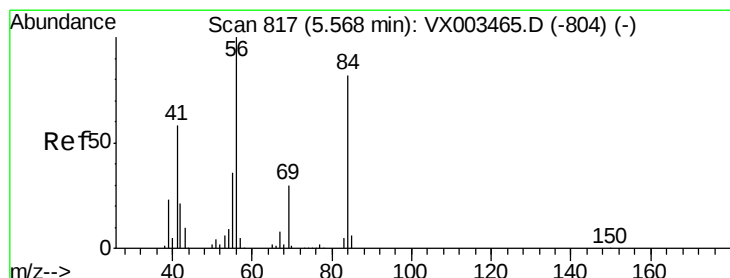
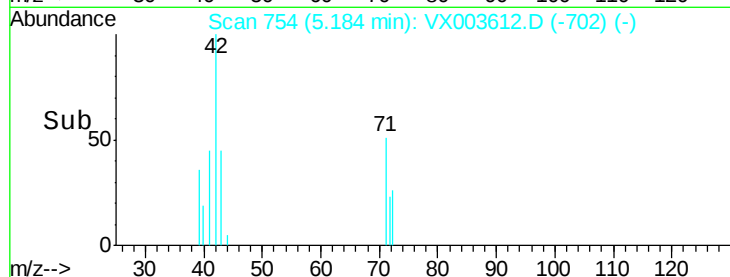
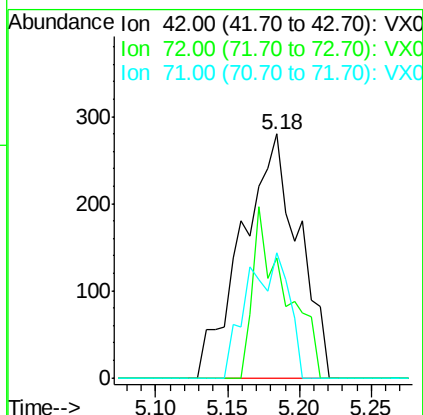
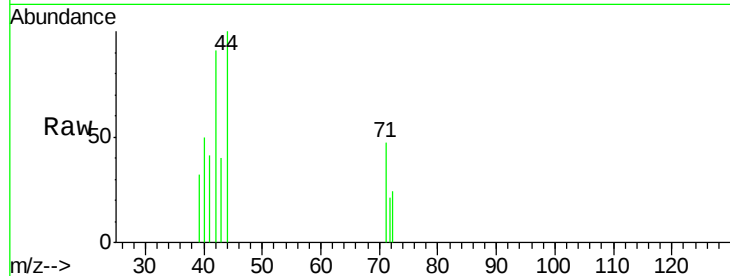




#29
Tetrahydrofuran
Concen: 0.621 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX003612.D
Acq: 23 Jul 2018 18:43

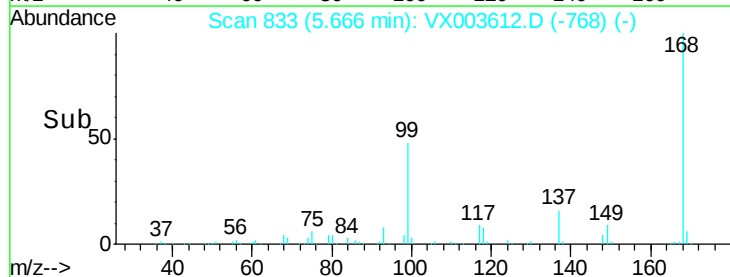
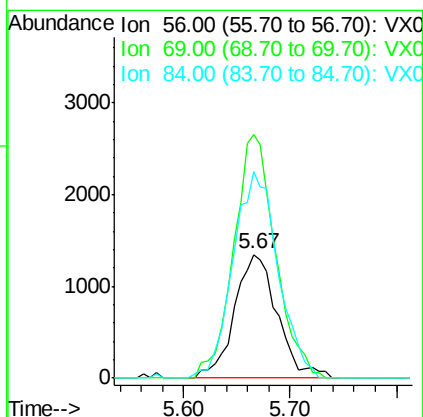
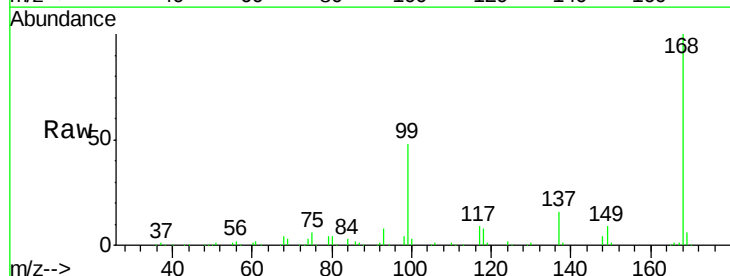
Instrument :
MSVOA_X
ClientSampleId :
YT-MW-6

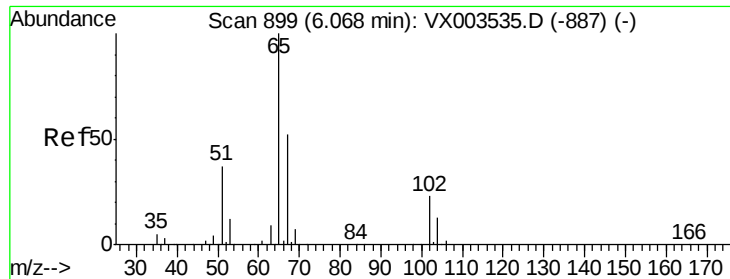
Tgt Ion: 42 Resp: 763
Ion Ratio Lower Upper
42 100
72 40.0 32.0 48.0
71 37.6 30.1 45.1



#31
Cyclohexane
Concen: 0.857 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.10 min
Lab File: VX003612.D
Acq: 23 Jul 2018 18:43

Tgt Ion: 56 Resp: 3789
Ion Ratio Lower Upper
56 100
69 196.6 23.7 35.5#
84 167.3 64.1 96.1#

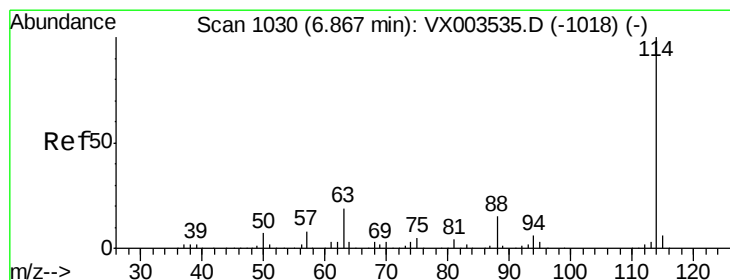
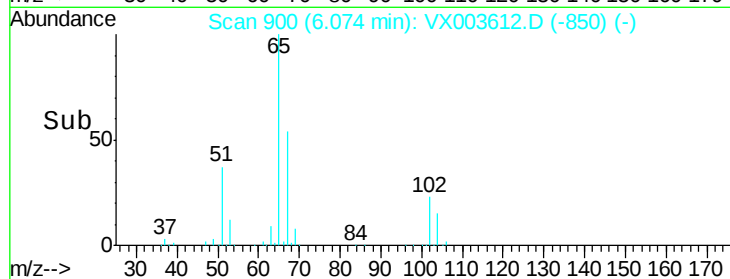
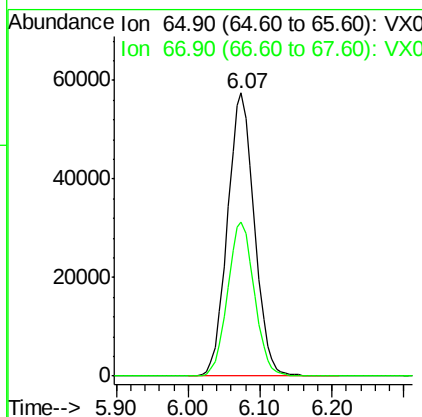
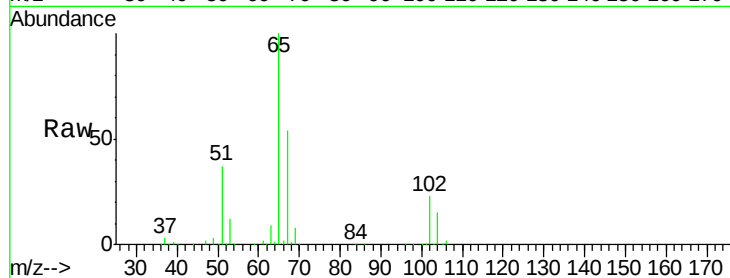




#33
 1,2-Dichloroethane-d4
 Concen: 50.749 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003612.D
 Acq: 23 Jul 2018 18:43

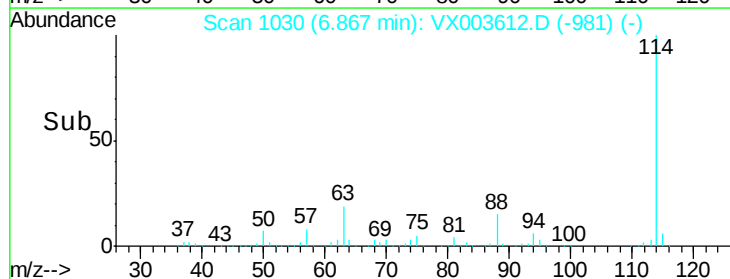
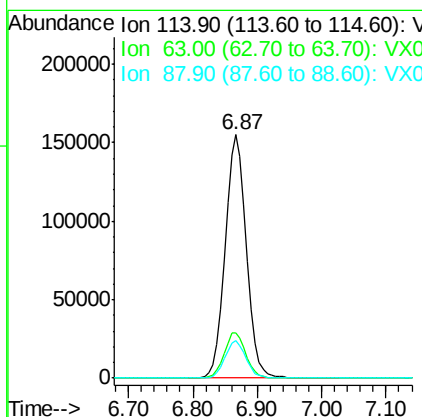
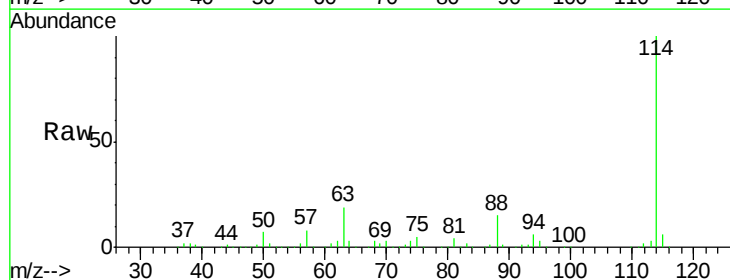
Instrument :
 MSVOA_X
 ClientSampleId :
 YT-MW-6

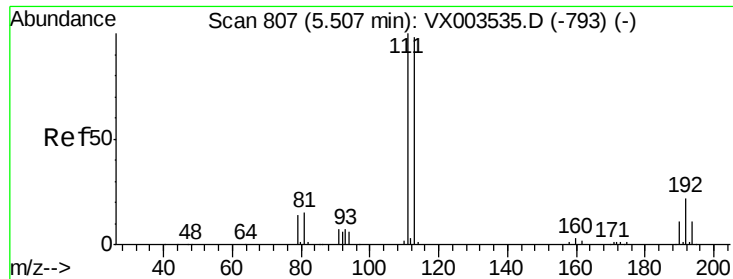
Tgt Ion: 65 Resp: 148933
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003612.D
 Acq: 23 Jul 2018 18:43

Tgt Ion: 114 Resp: 359552
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 41.4
 88 15.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.969 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampled :

YT-MW-6

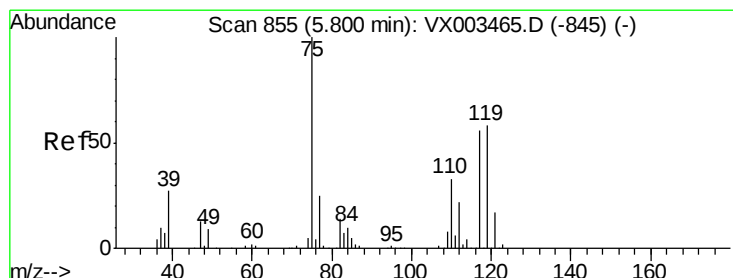
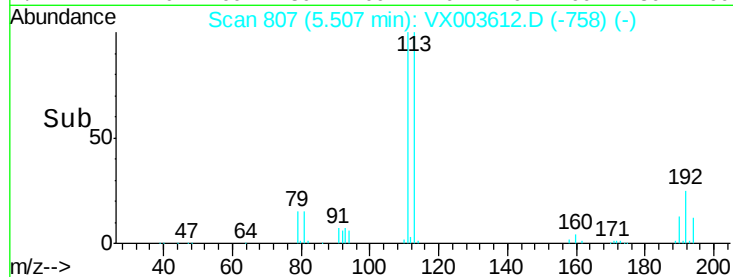
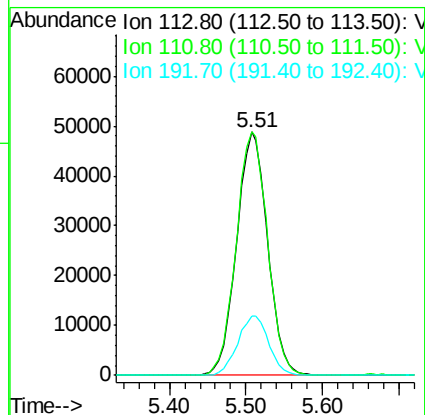
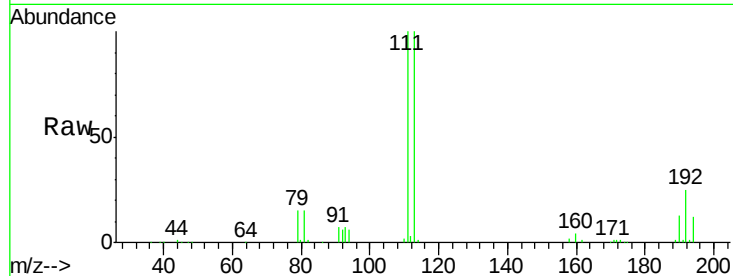
Tgt Ion:113 Resp: 136845

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

192 24.6 19.1 28.7



#36

1,1-Dichloropropene

Concen: 3.939 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

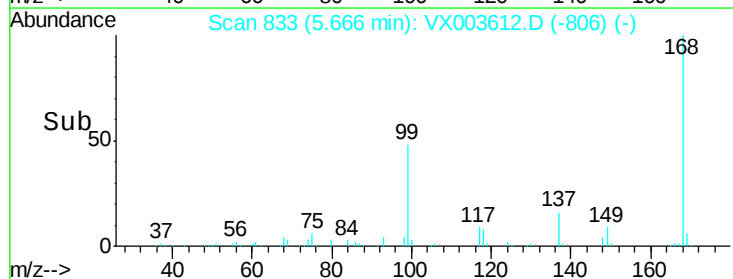
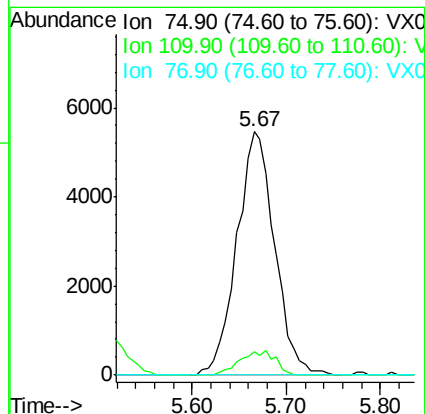
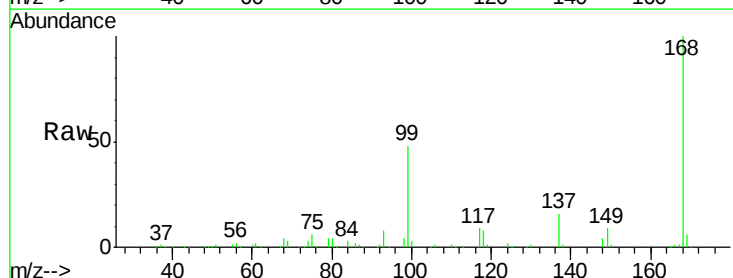
Tgt Ion: 75 Resp: 15291

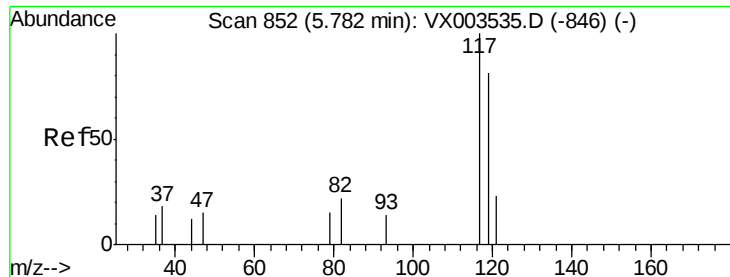
Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.541 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampled :

YT-MW-6

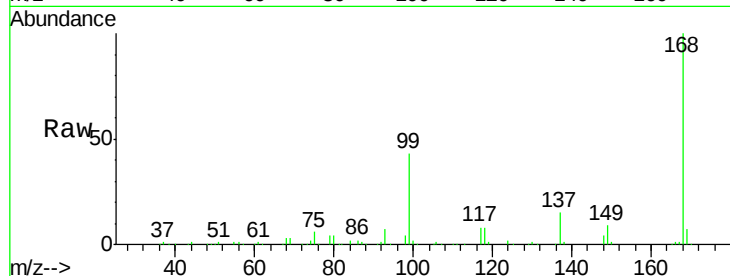
Tgt Ion:117 Resp: 21099

Ion Ratio Lower Upper

117 100

119 7.5 77.4 116.0#

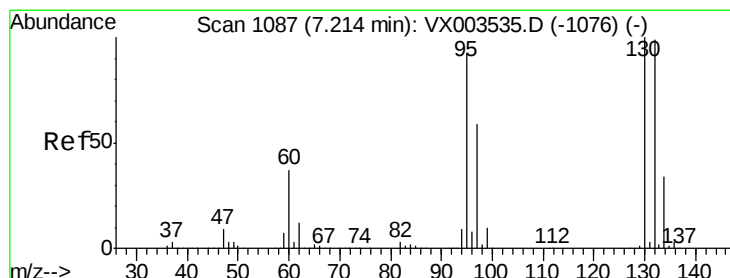
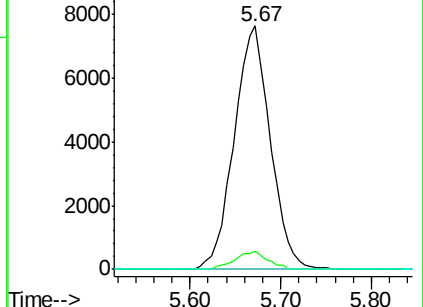
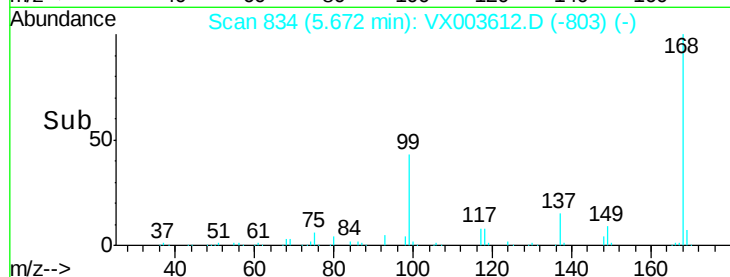
121 0.0 24.4 36.6#



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



#44

Trichloroethene

Concen: 2.659 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003612.D

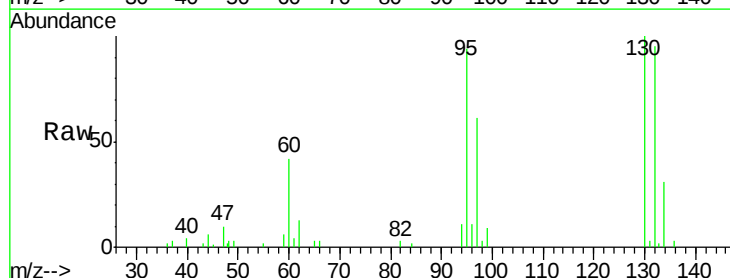
Acq: 23 Jul 2018 18:43

Tgt Ion:130 Resp: 9295

Ion Ratio Lower Upper

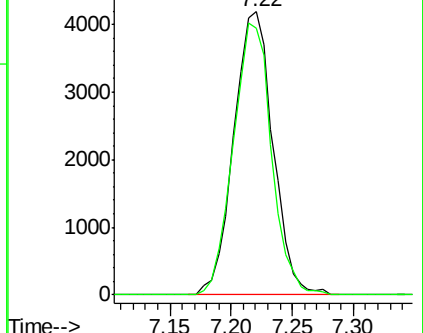
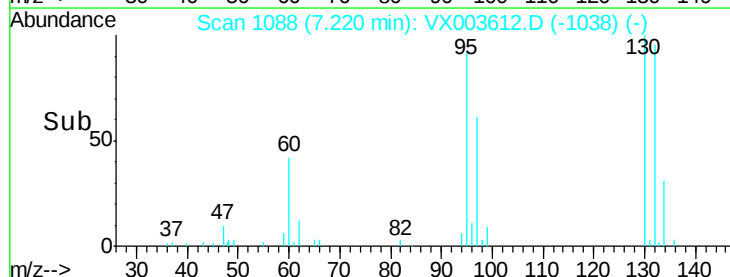
130 100

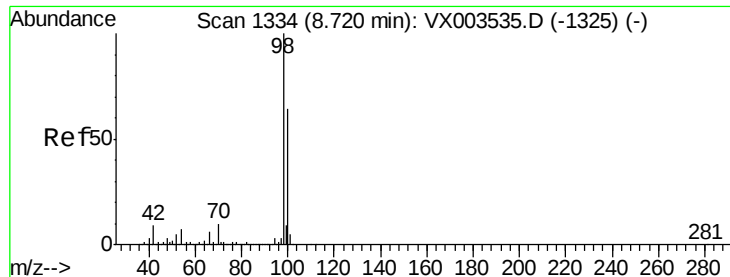
95 94.2 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

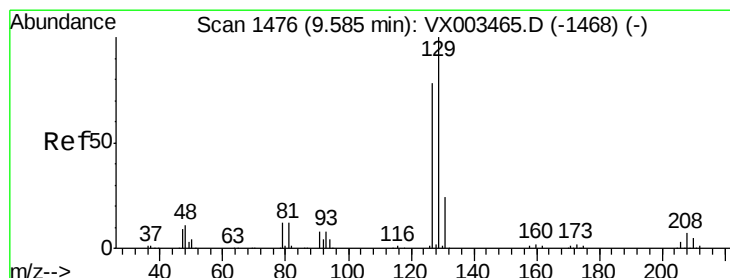
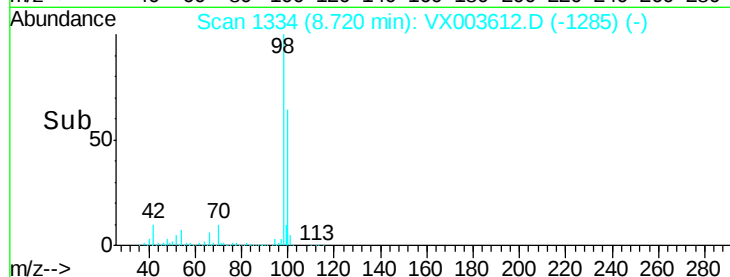
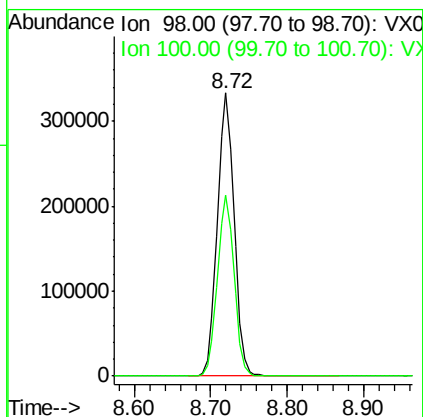
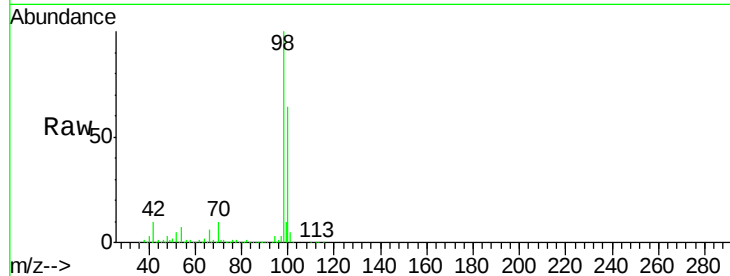




#50
Toluene-d8
Concen: 49.423 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003612.D
Acq: 23 Jul 2018 18:43

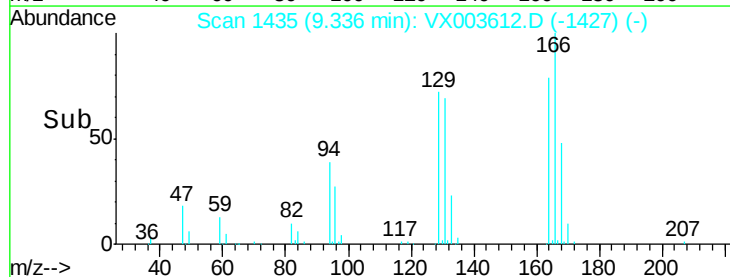
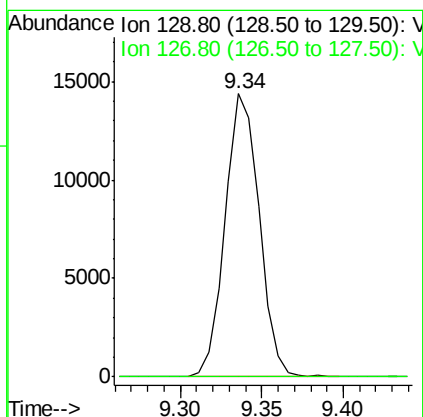
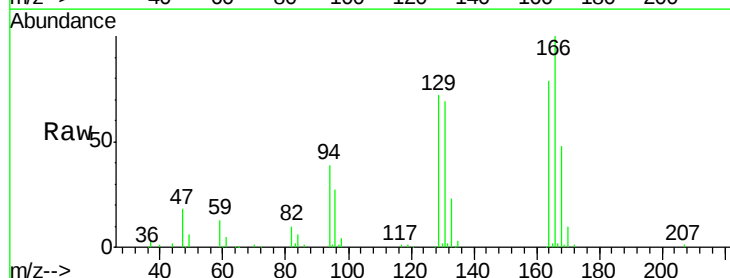
Instrument :
MSVOA_X
ClientSampleId :
YT-MW-6

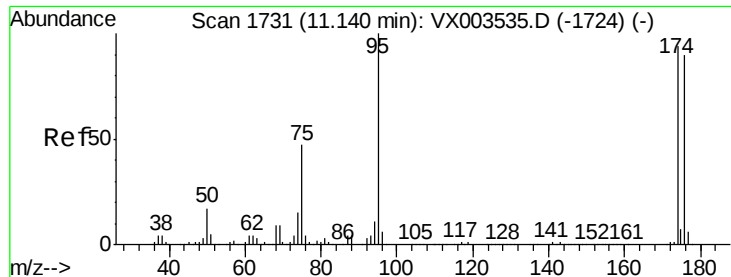
Tgt Ion: 98 Resp: 508733
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#60
Dibromochloromethane
Concen: 7.208 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX003612.D
Acq: 23 Jul 2018 18:43

Tgt Ion: 129 Resp: 20945
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 45.419 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampleId :

YT-MW-6

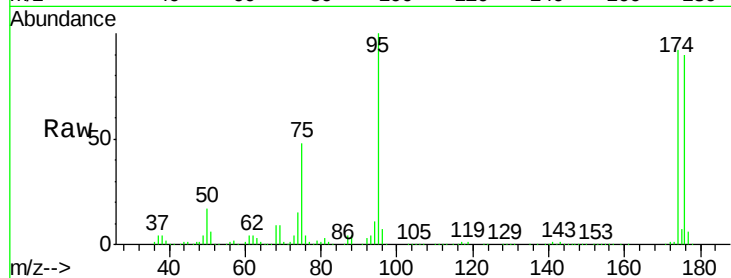
Tgt Ion: 95 Resp: 170615

Ion Ratio Lower Upper

95 100

174 96.1 0.0 187.4

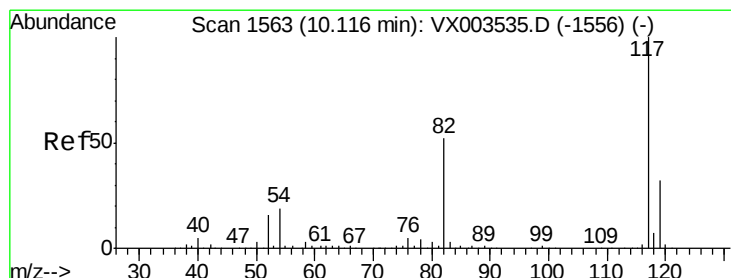
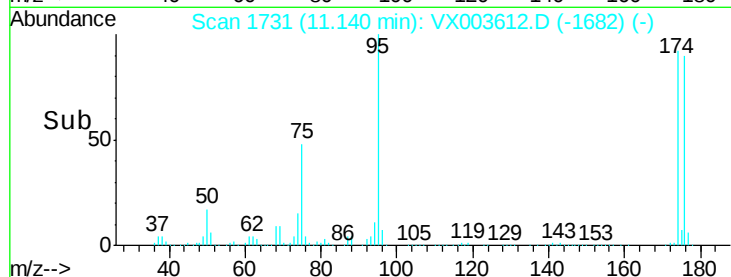
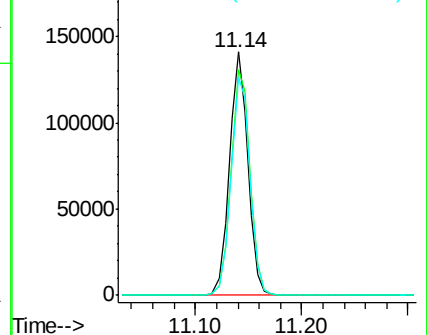
176 92.6 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003612.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003612.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003612.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

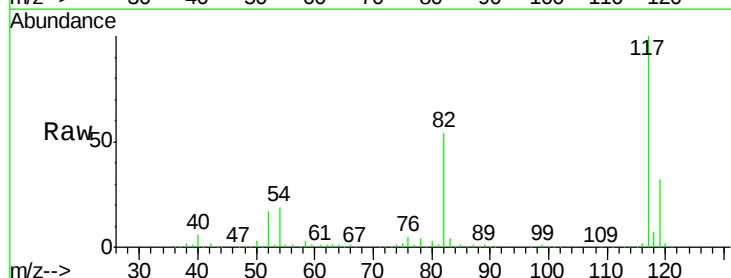
Tgt Ion: 117 Resp: 333733

Ion Ratio Lower Upper

117 100

82 53.5 45.0 67.4

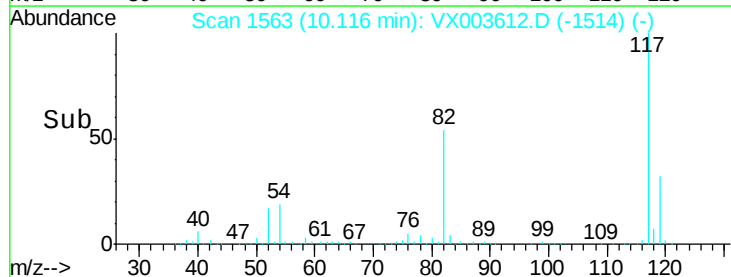
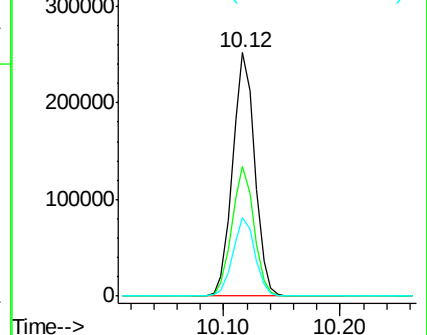
119 32.0 25.8 38.6

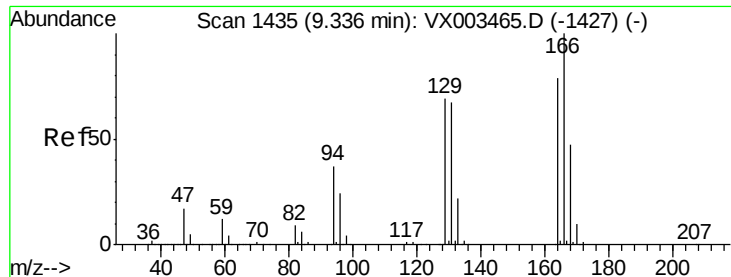


Abundance Ion 116.90 (116.60 to 117.60): VX003612.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003612.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003612.D (-1514) (-)





#64

Tetrachloroethene

Concen: 5.830 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. 0.00 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampleId :

YT-MW-6

Tgt Ion:164 Resp: 23704

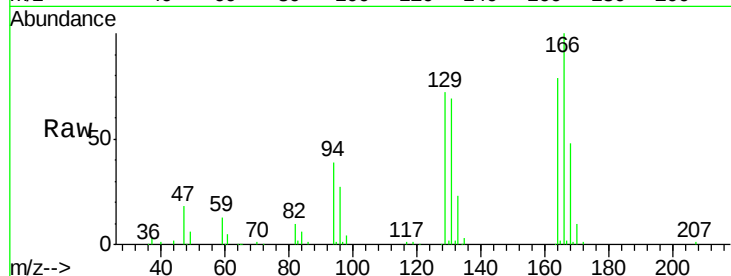
Ion Ratio Lower Upper

164 100

166 125.9 102.9 154.3

129 90.2 68.6 102.8

131 86.9 66.8 100.2

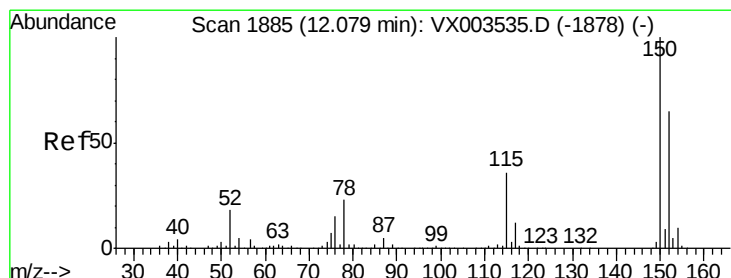
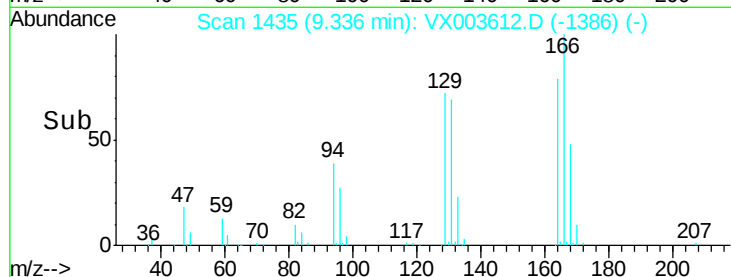
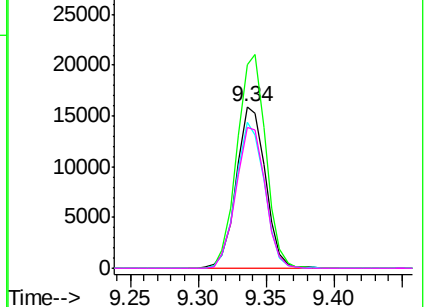


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

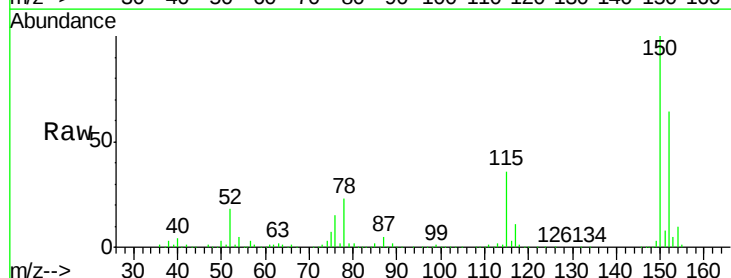
Tgt Ion:152 Resp: 181520

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

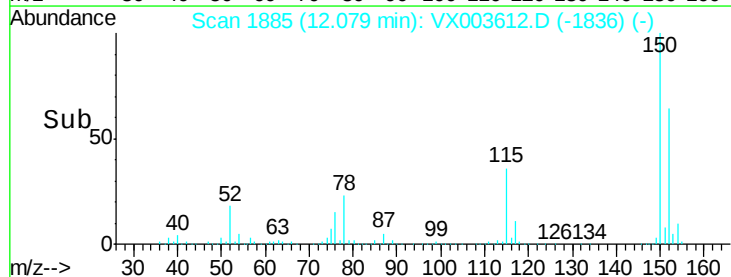
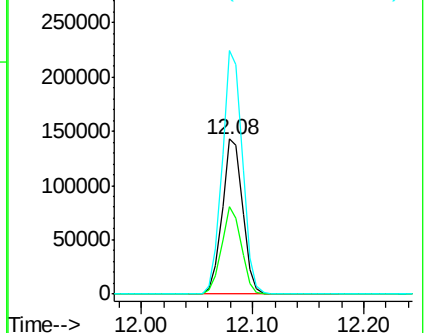
150 155.8 0.0 347.2

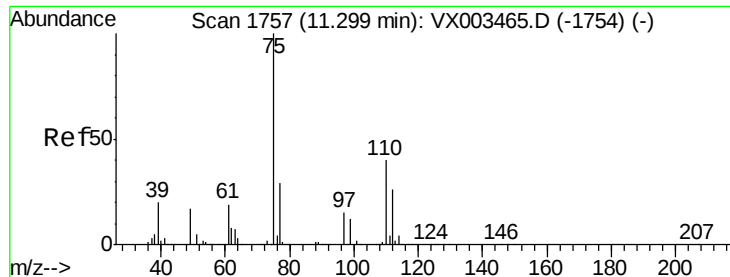


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.825 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

Instrument :

MSVOA_X

ClientSampleId :

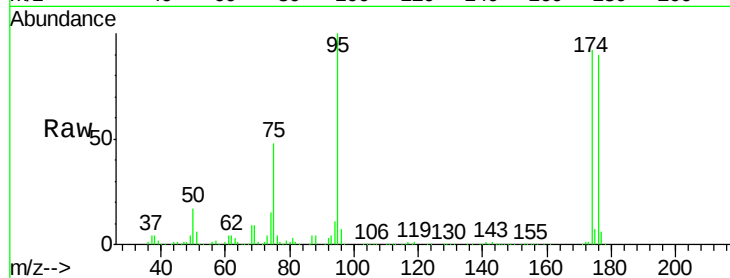
YT-MW-6

Tgt Ion: 75 Resp: 80953

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

60000

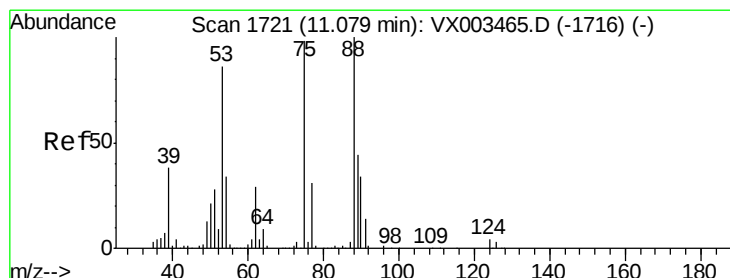
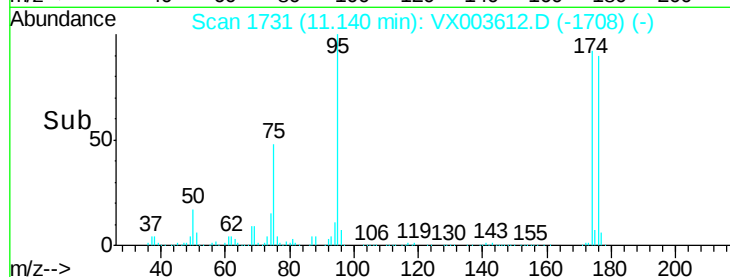
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 69.535 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003612.D

Acq: 23 Jul 2018 18:43

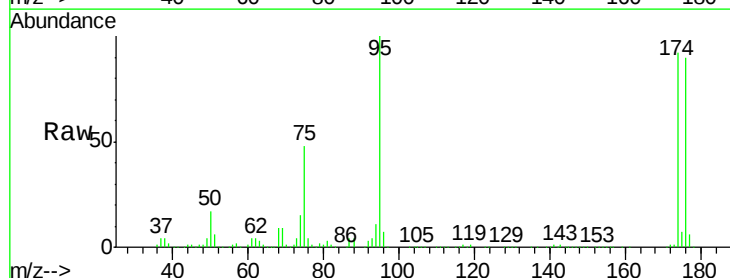
Tgt Ion: 75 Resp: 80953

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.14

80000

60000

40000

20000

0

Time-->

11.10 11.20

