

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
 Data File : VX010652.D  
 Acq On : 03 Jul 2019 19:55  
 Operator : JC/SP  
 Sample : K3666-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MWHR2-8-070219

Quant Time: Jul 04 03:39:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 235229   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 361322   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 333121   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 150271   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 117861   | 53.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.88% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 111351   | 50.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.74% |          |
| 50) Toluene-d8              | 8.71  | 98   | 427202   | 50.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.02% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 144749   | 47.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.80%  |          |

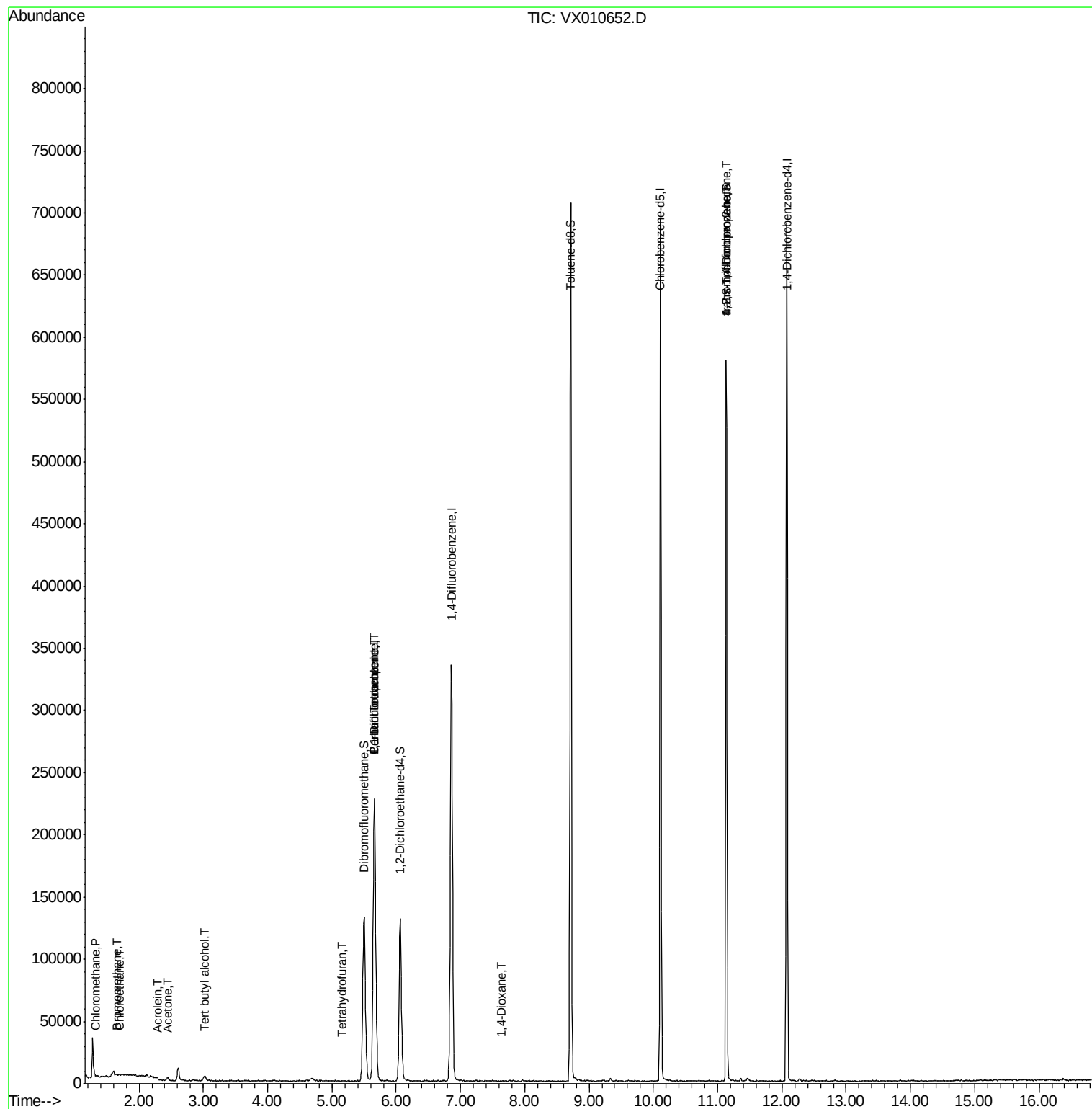
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 579      | 0.304  | ug/l # | 74     |
| 5) Bromomethane                | 1.65  | 94   | 537      | 0.528  | ug/l # | 56     |
| 6) Chloroethane                | 1.69  | 64   | 353      | 0.287  | ug/l # | 62     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2221     | 3.848  | ug/l # | 84     |
| 13) Acrolein                   | 2.29  | 56   | 212      | 0.554  | ug/l # | 72     |
| 16) Acetone                    | 2.45  | 43   | 3452     | 3.123  | ug/l   | 88     |
| 29) Tetrahydrofuran            | 5.15  | 42   | 260      | 0.259  | ug/l # | 40     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 13854    | 4.825  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 21478    | 6.908  | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.63  | 88   | 30       | 0.458  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 70984    | 25.922 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 70984    | 60.474 | ug/l # | 16     |

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

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QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

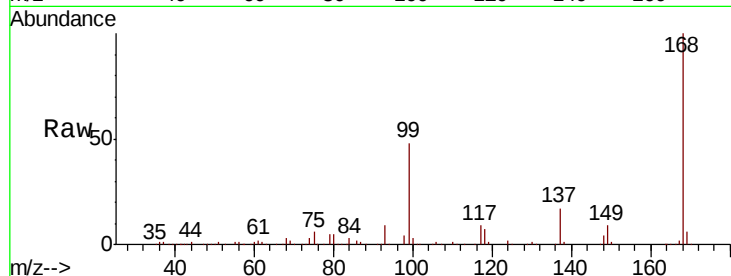
MWHR2-8-070219

Tot Ion:168 Resp: 235229

Ion Ratio Lower Upper

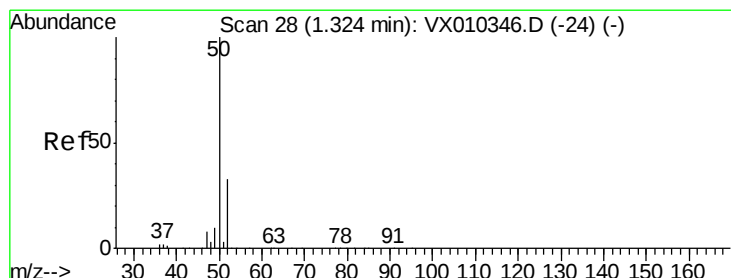
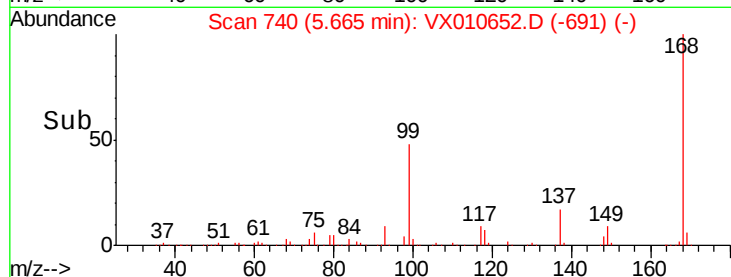
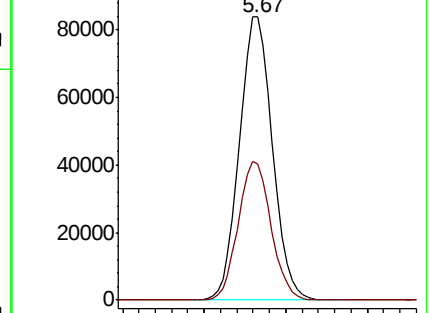
168 100

99 48.3 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.304 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010652.D

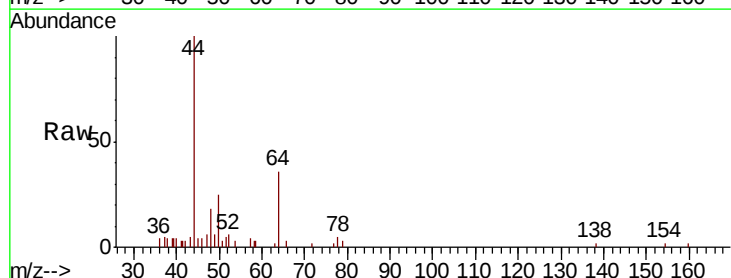
Acq: 03 Jul 2019 19:55

Tgt Ion: 50 Resp: 579

Ion Ratio Lower Upper

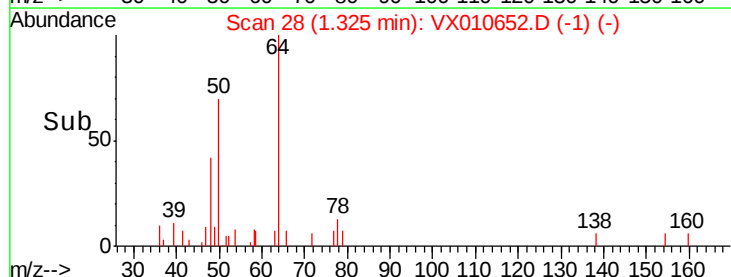
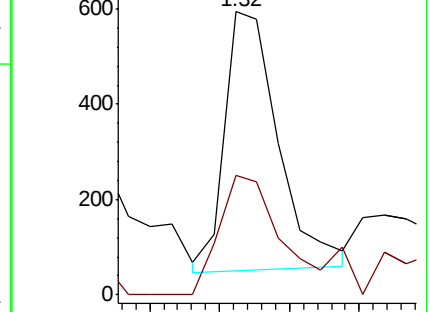
50 100

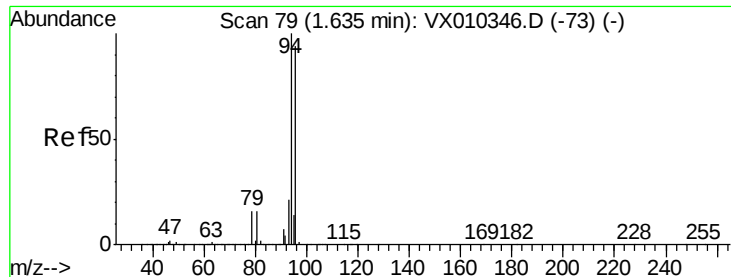
52 48.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.528 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

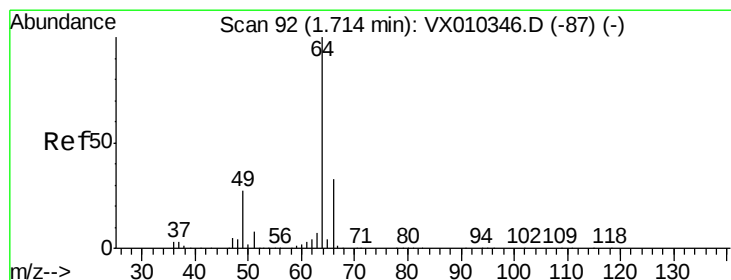
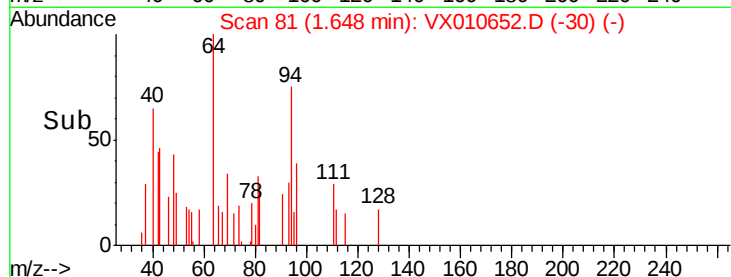
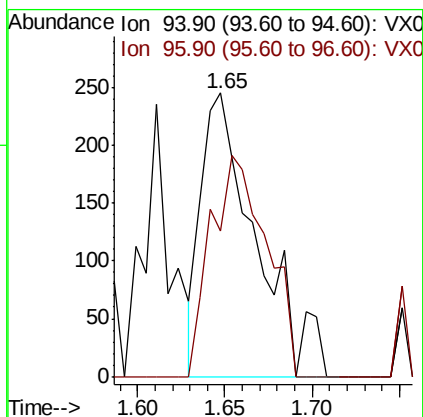
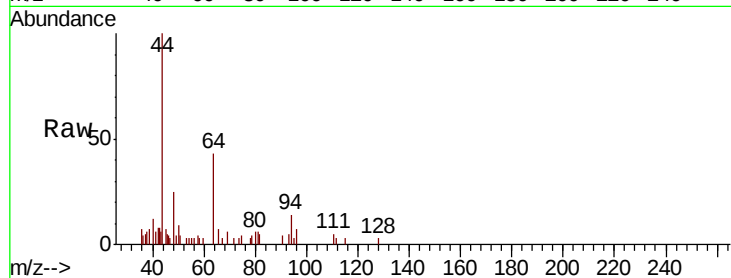
MWHR2-8-070219

Tot Ion: 94 Resp: 537

Ion Ratio Lower Upper

94 100

96 51.4 75.5 113.3#



#6

Chloroethane

Concen: 0.287 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX010652.D

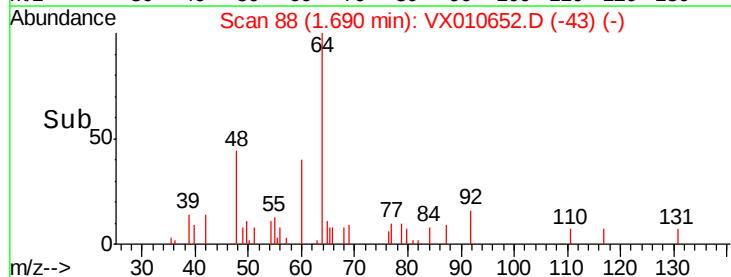
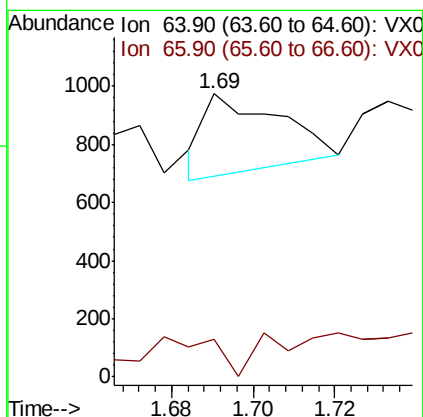
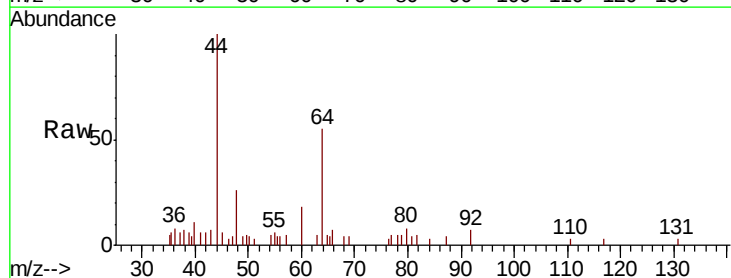
Acq: 03 Jul 2019 19:55

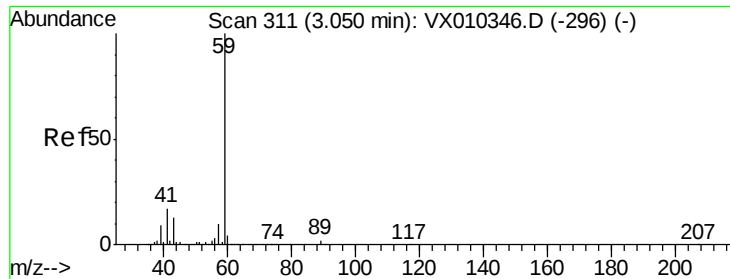
Tgt Ion: 64 Resp: 353

Ion Ratio Lower Upper

64 100

66 11.8 26.6 40.0#

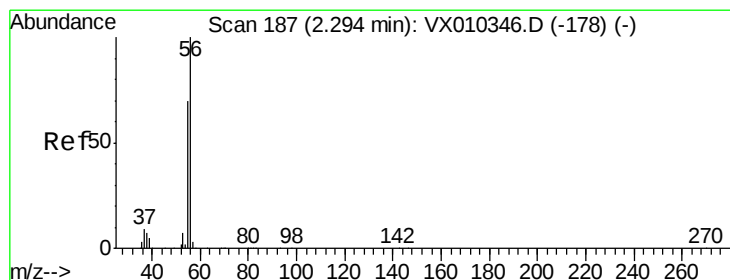
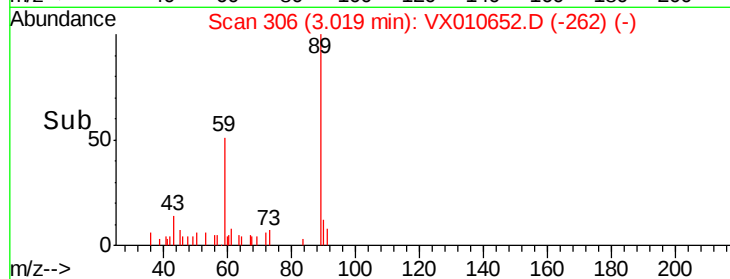
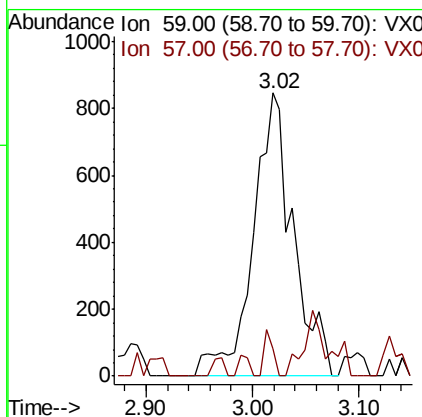
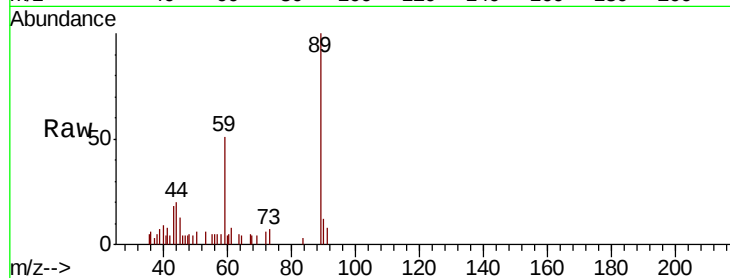




#11  
Tert butvl alcohol  
Concen: 3.848 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.03 min  
Lab File: VX010652.D  
Acq: 03 Jul 2019 19:55

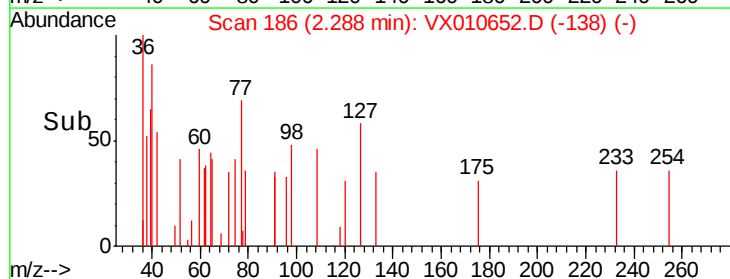
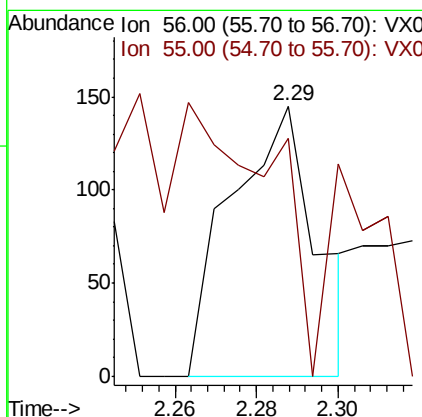
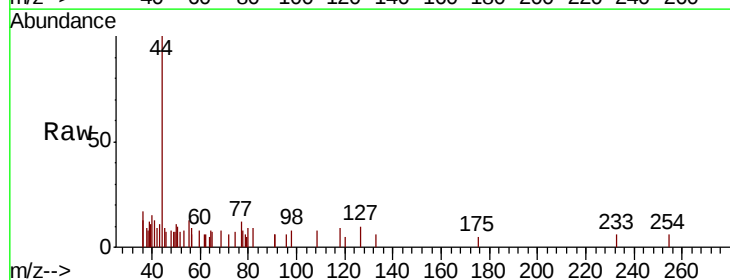
Instrument :  
MSVOA\_X  
ClientSampleId :  
MWHR2-8-070219

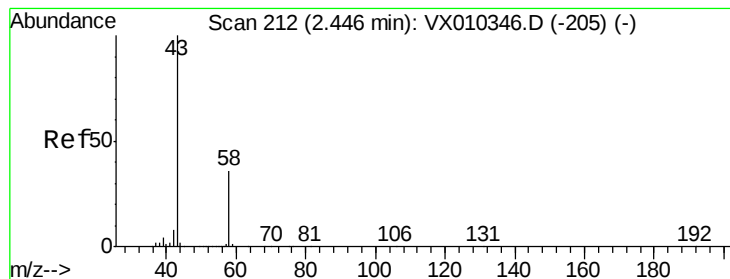
Tot Ion: 59 Resp: 2221  
Ion Ratio Lower Upper  
59 100  
57 3.7 7.7 11.5#



#13  
Acrolein  
Concen: 0.554 ug/l  
RT: 2.29 min Scan# 186  
Delta R.T. -0.01 min  
Lab File: VX010652.D  
Acq: 03 Jul 2019 19:55

Tgt Ion: 56 Resp: 212  
Ion Ratio Lower Upper  
56 100  
55 48.1 56.9 85.3#





#16

Acetone

Concen: 3.123 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

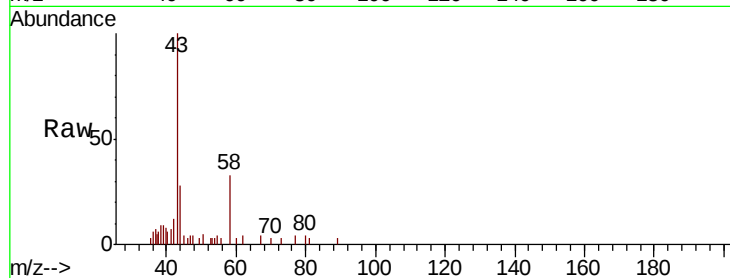
MWHR2-8-070219

Tot Ion: 43 Resp: 3452

Ion Ratio Lower Upper

43 100

58 29.1 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

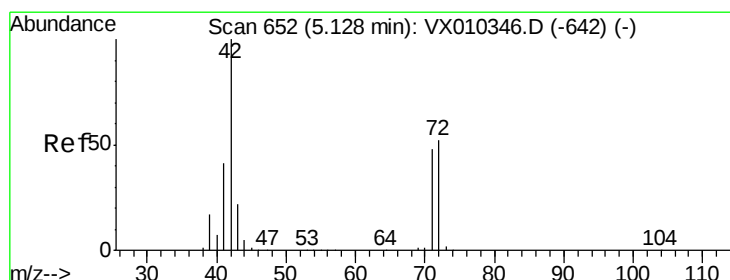
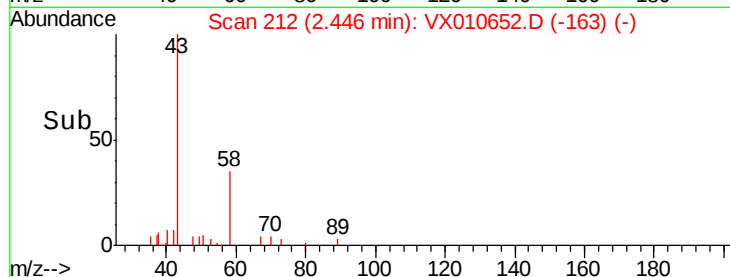
1000

500

0

2.40 2.50

Time-->



#29

Tetrahydrofuran

Concen: 0.259 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

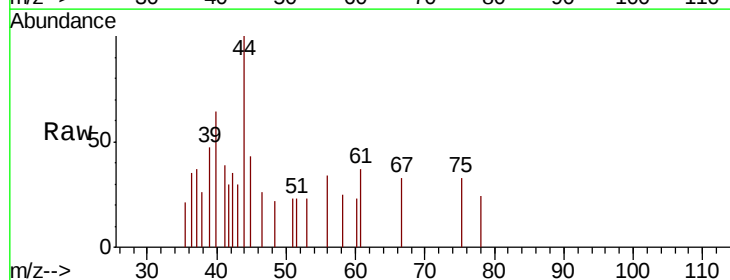
Tgt Ion: 42 Resp: 260

Ion Ratio Lower Upper

42 100

72 7.3 40.6 60.8#

71 8.8 37.8 56.8#



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

250

200

150

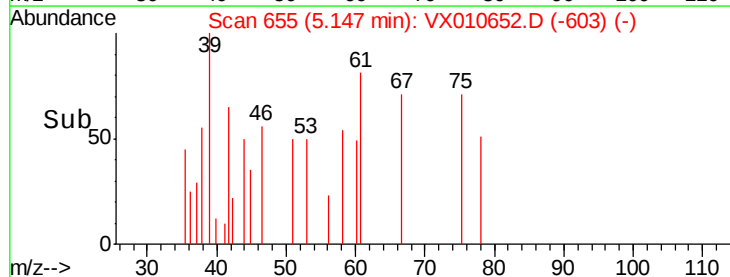
100

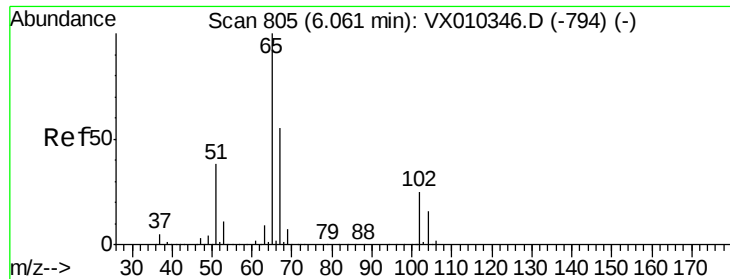
50

0

5.12 5.14 5.16 5.18

Time-->





#33

1,2-Dichloroethane-d4

Concen: 53.439 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

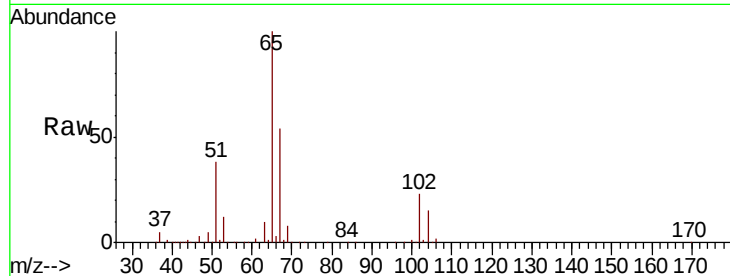
MWHR2-8-070219

Tot Ion: 65 Resp: 117861

Ion Ratio Lower Upper

65 100

67 54.5 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

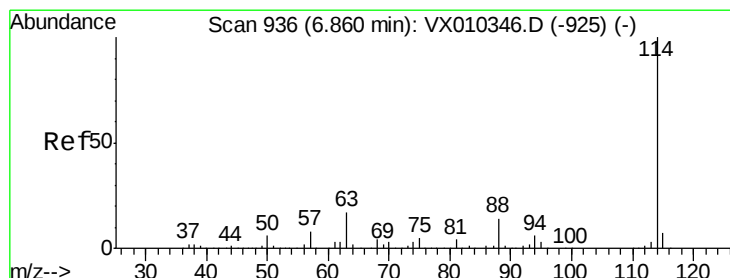
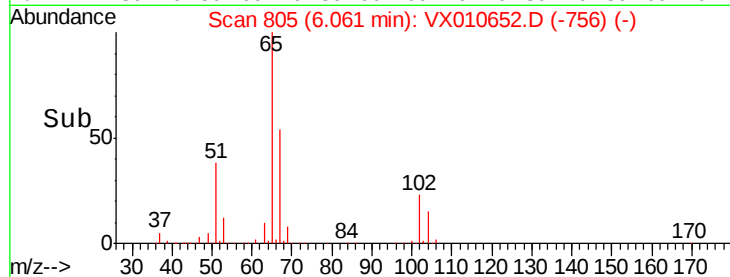
20000

10000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

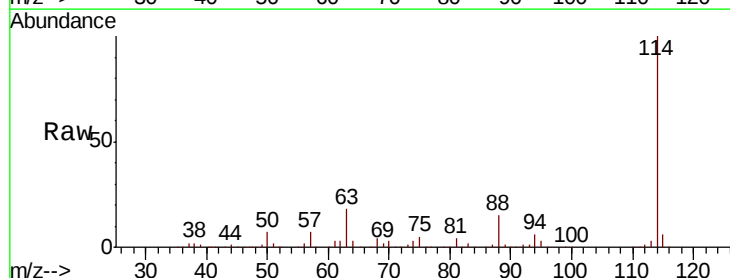
Tgt Ion: 114 Resp: 361322

Ion Ratio Lower Upper

114 100

63 17.7 0.0 33.8

88 14.5 0.0 27.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

150000

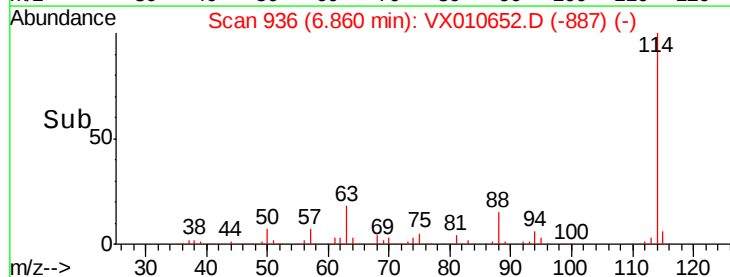
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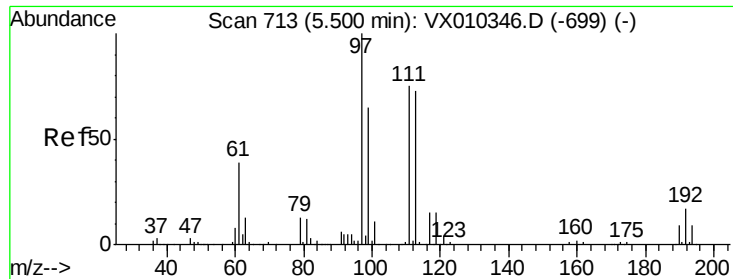
50000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 50.369 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

MWHR2-8-070219

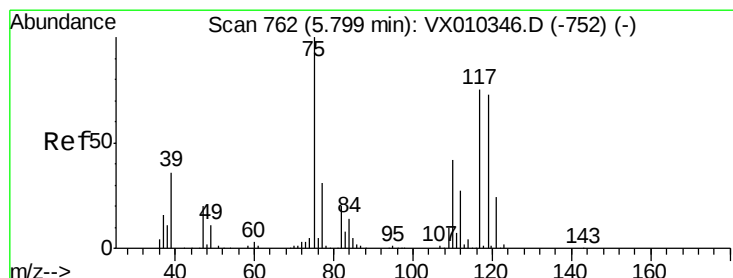
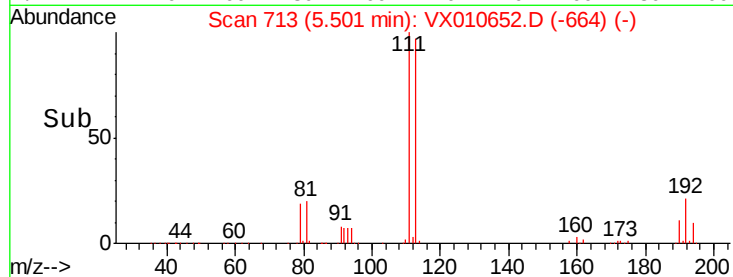
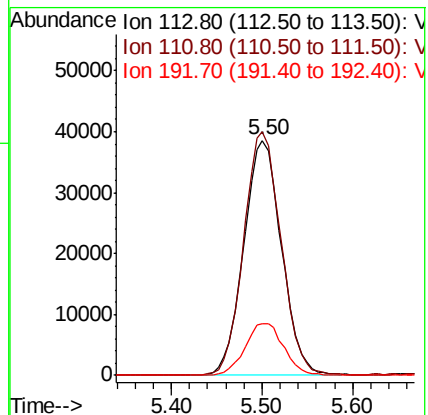
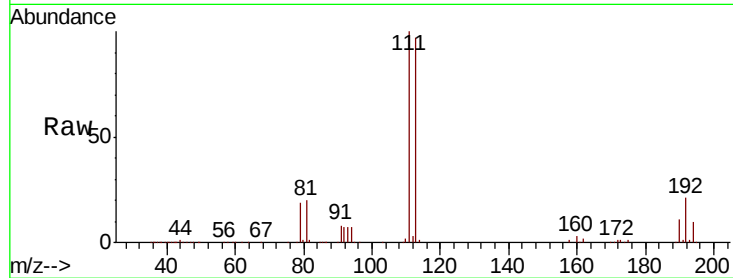
Tot Ion:113 Resp: 111351

Ion Ratio Lower Upper

113 100

111 102.3 81.2 121.8

192 22.6 18.6 27.8



#36

1,1-Dichloropropene

Concen: 4.825 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

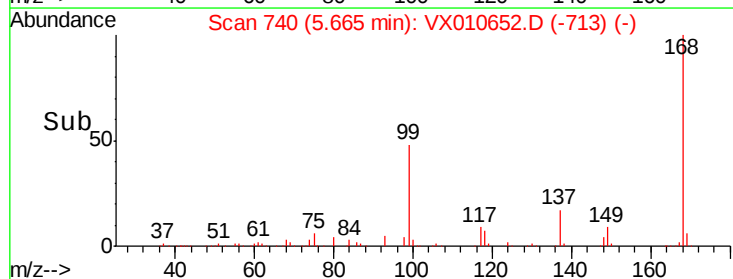
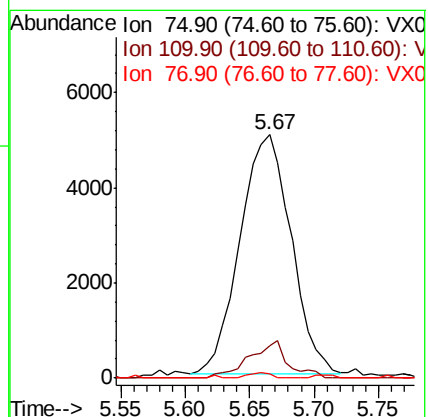
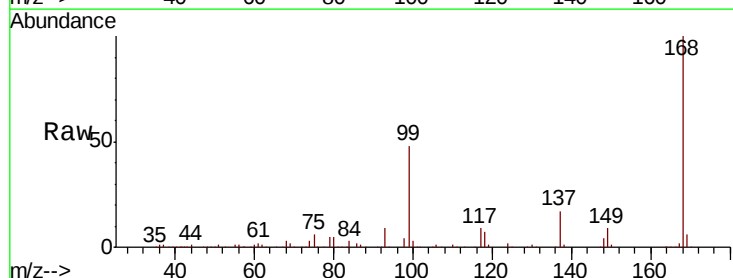
Tgt Ion: 75 Resp: 13854

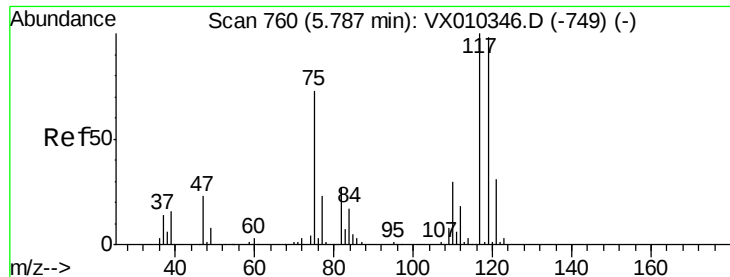
Ion Ratio Lower Upper

75 100

110 11.8 20.8 62.2#

77 0.9 25.4 38.0#





#38

Carbon Tetrachloride

Concen: 6.908 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

MWHR2-8-070219

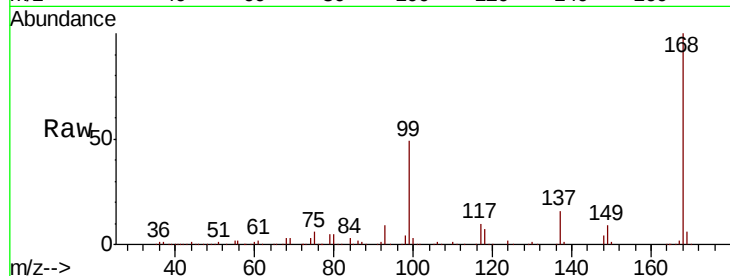
Tot Ion:117 Resp: 21478

Ion Ratio Lower Upper

117 100

119 3.9 78.2 117.4#

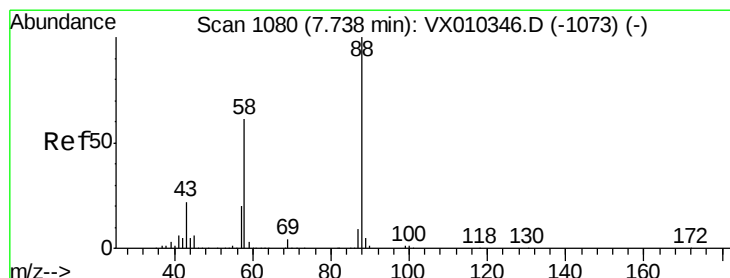
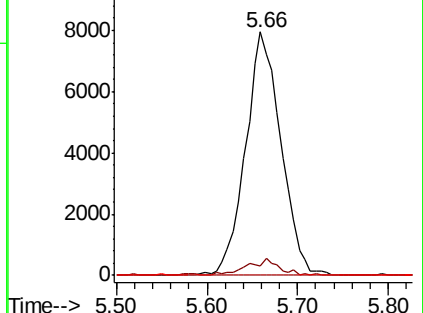
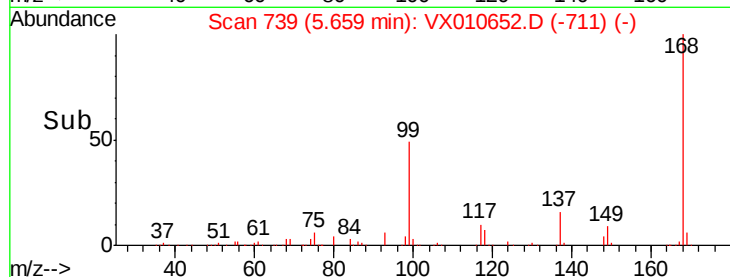
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.458 ug/l

RT: 7.63 min Scan# 1063

Delta R.T. -0.10 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

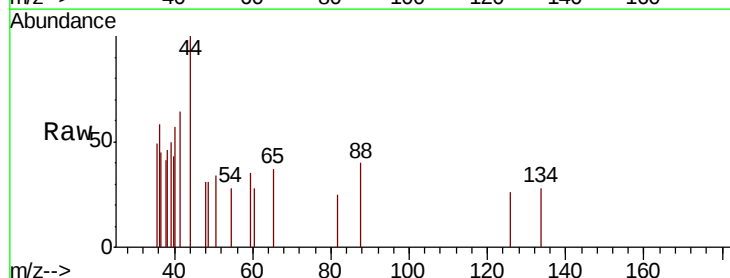
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 556.7 20.2 30.2#

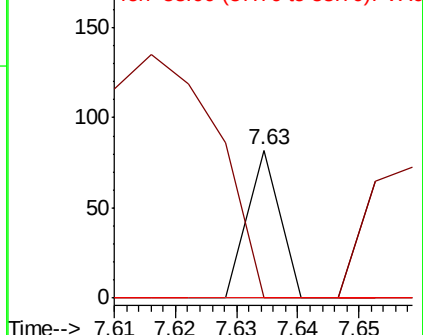
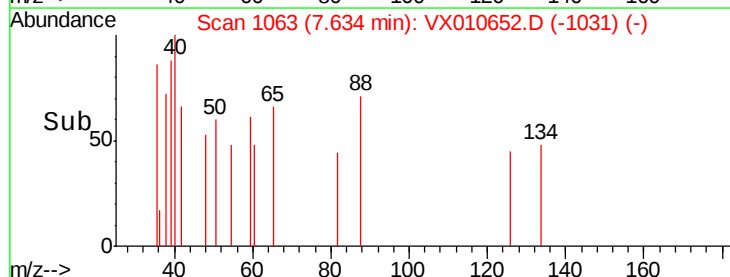
58 0.0 49.5 74.3#

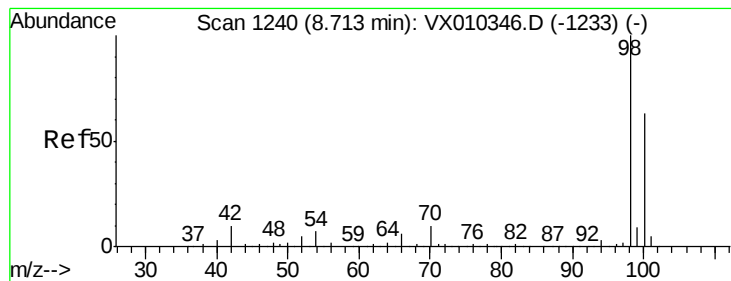


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.510 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

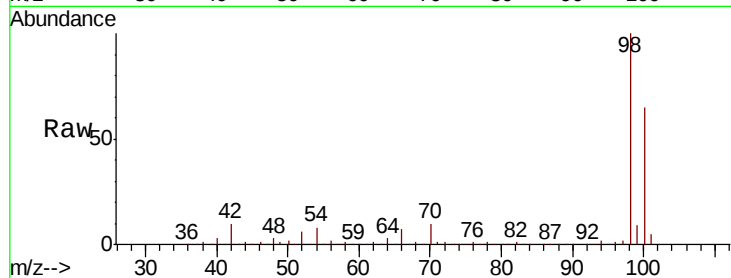
MWHR2-8-070219

Tot Ion: 98 Resp: 427202

Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

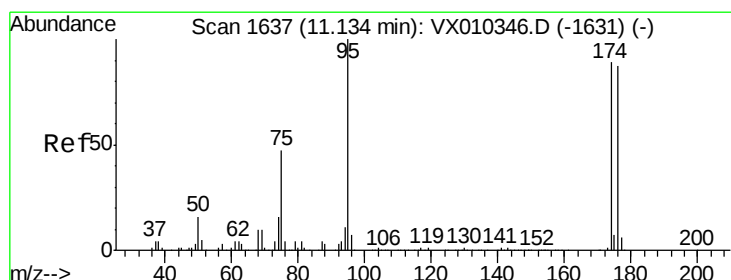
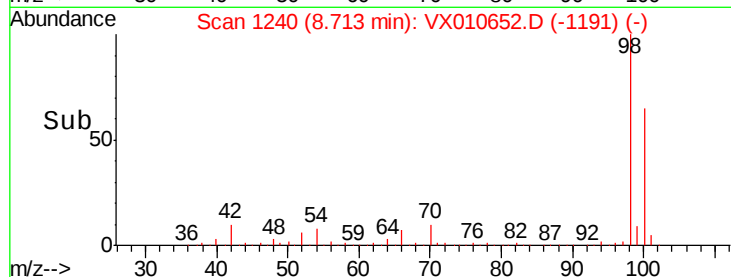
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.405 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

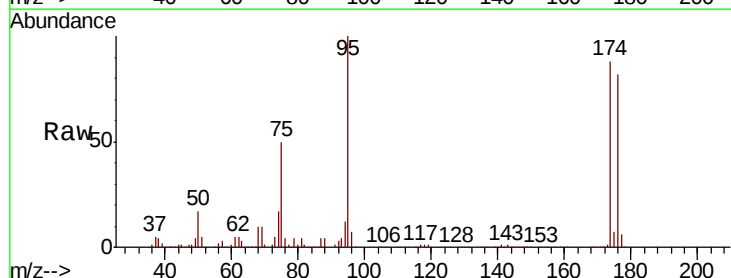
Tgt Ion: 95 Resp: 144749

Ion Ratio Lower Upper

95 100

174 93.3 0.0 187.6

176 90.0 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

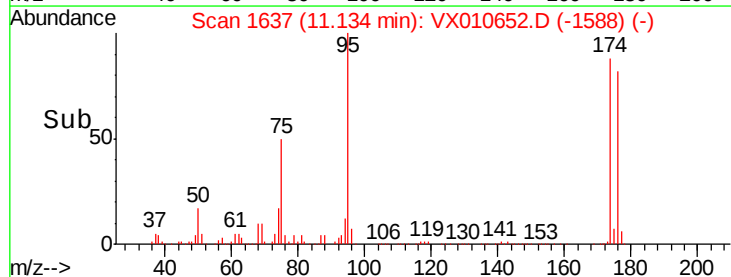
150000

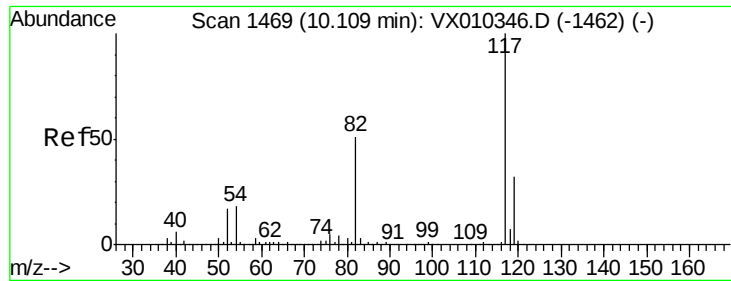
100000

50000

0

Time-->

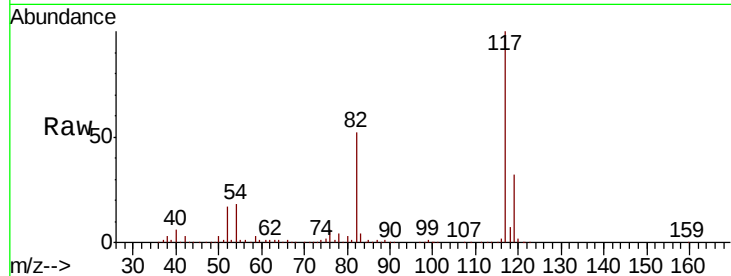




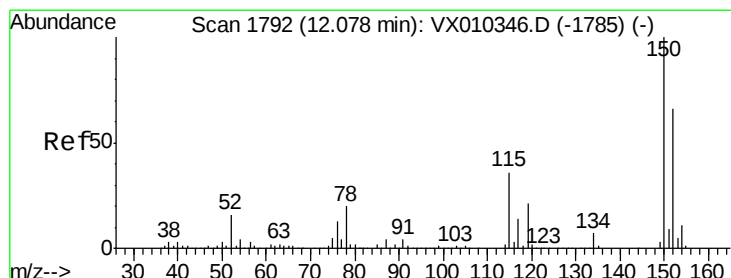
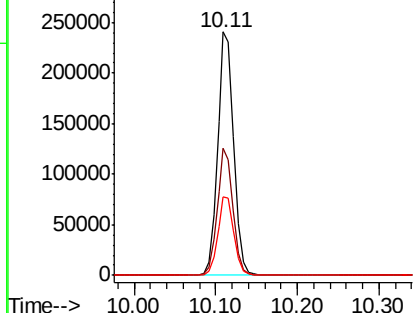
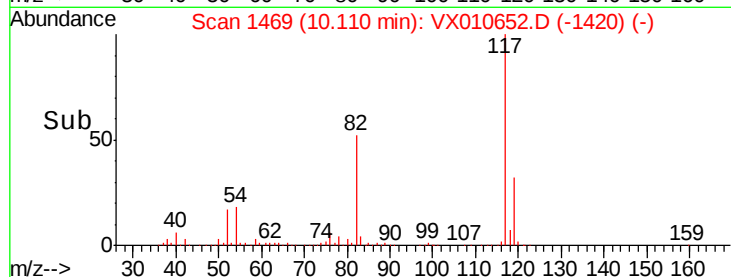
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010652.D  
Acq: 03 Jul 2019 19:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
MWHR2-8-070219

Tot Ion:117 Resp: 333121  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.2 61.8  
119 32.3 25.5 38.3

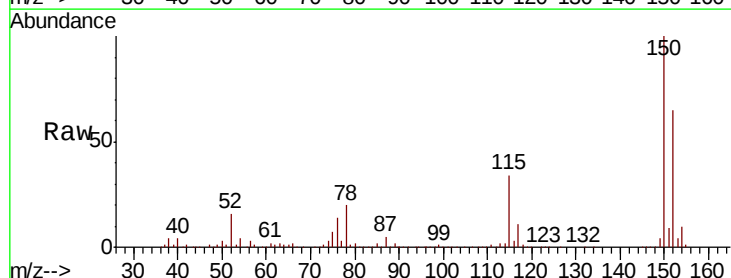


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

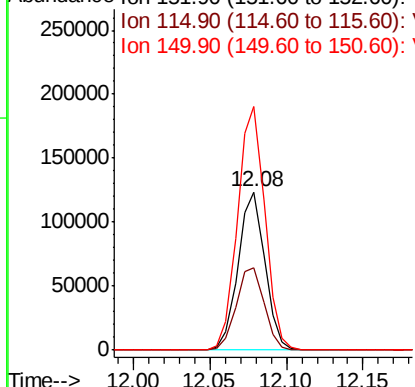
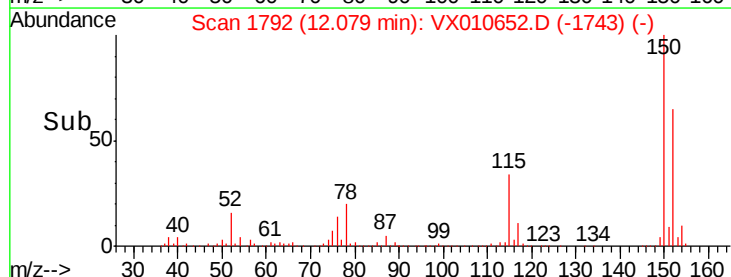


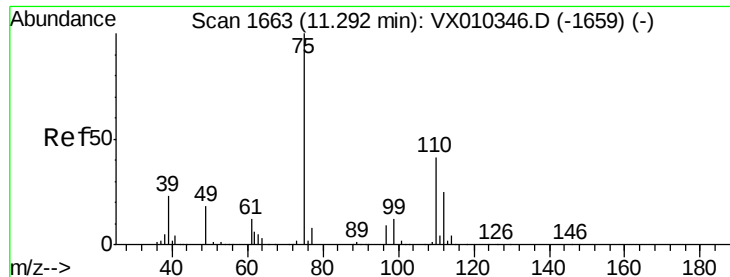
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010652.D  
Acq: 03 Jul 2019 19:55

Tgt Ion:152 Resp: 150271  
Ion Ratio Lower Upper  
152 100  
115 54.4 38.6 115.7  
150 157.1 0.0 347.4



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: 25.922 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

Instrument :

MSVOA\_X

ClientSampleId :

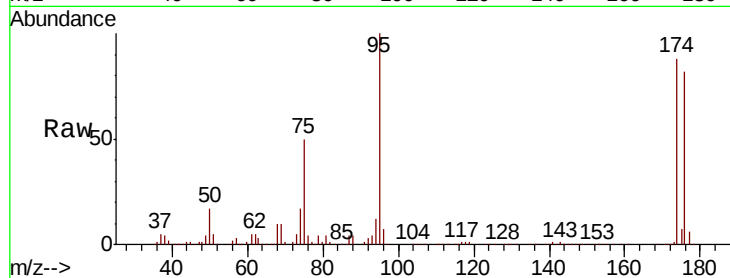
MWHR2-8-070219

Tot Ion: 75 Resp: 70984

Ion Ratio Lower Upper

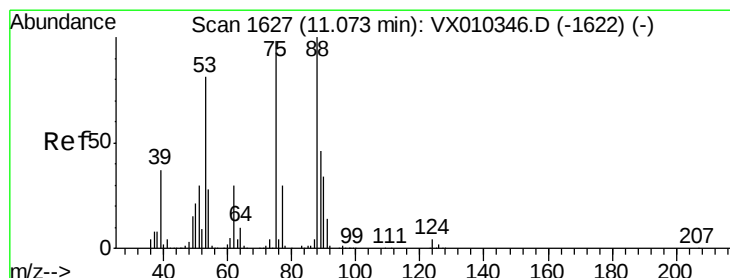
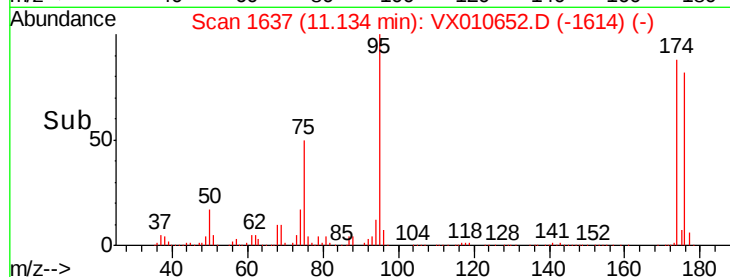
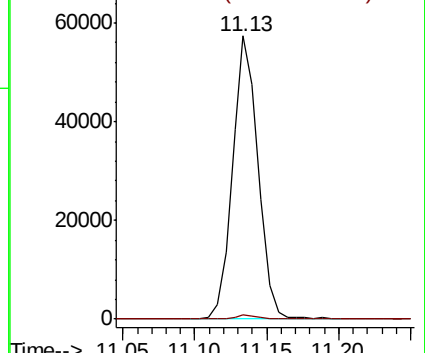
75 100

77 1.4 22.6 67.8#



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: 60.474 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010652.D

Acq: 03 Jul 2019 19:55

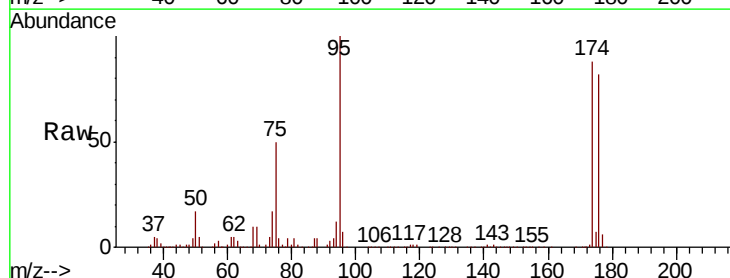
Tgt Ion: 75 Resp: 70984

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

