

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080718\  
 Data File : VF059912.D  
 Acq On : 7 Aug 2018 10:16  
 Operator : VA/AP  
 Sample : J4298-01  
 Misc : 3.82g/5mL/MSVOA F/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Aug 07 10:52:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F080418S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 04 07:08:36 2018  
 Response via : Initial Calibration

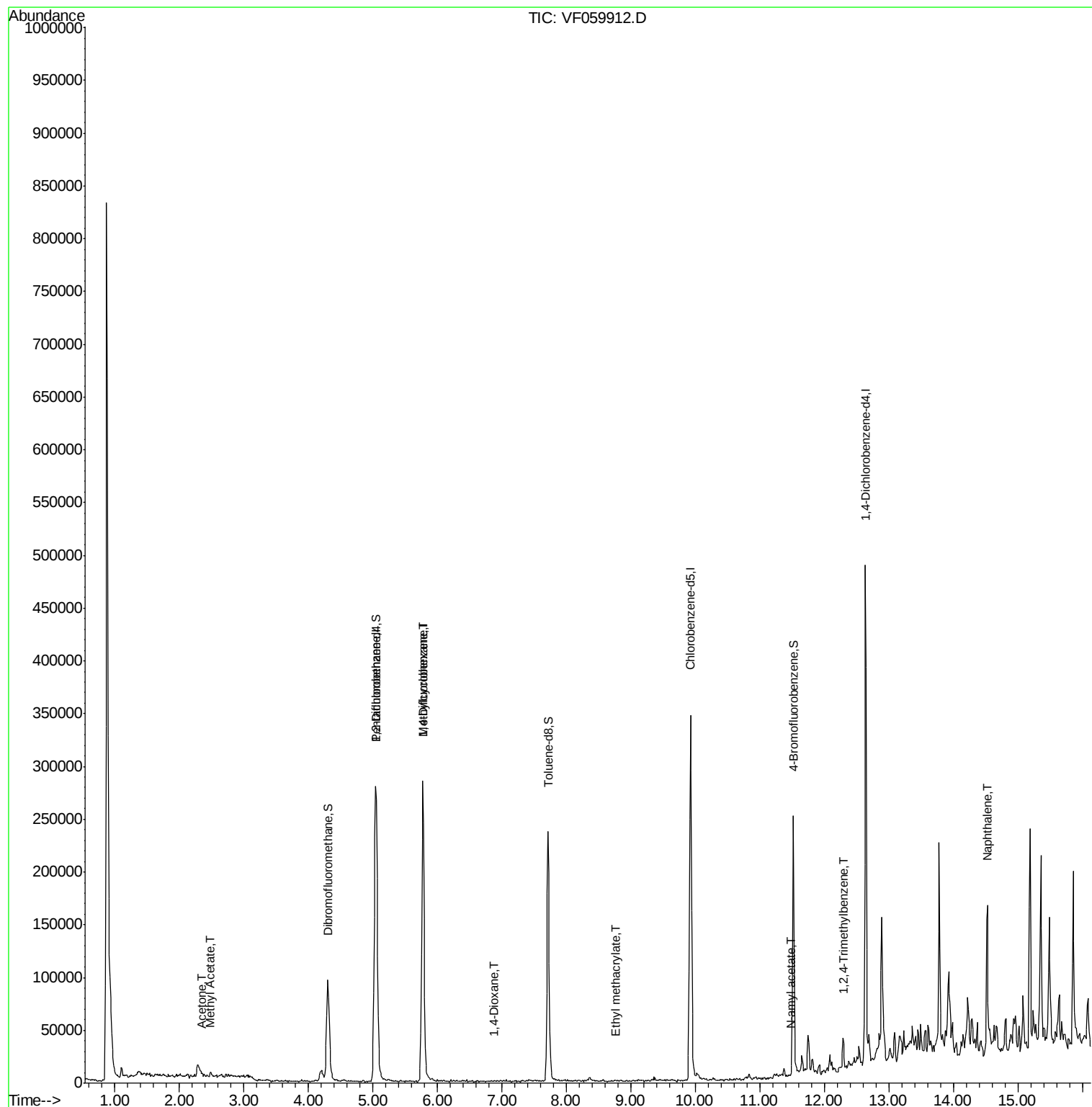
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene       | 5.05  | 168  | 203575   | 50.00     | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene     | 5.77  | 114  | 272346   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.92  | 117  | 231341   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.63 | 152  | 115212   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 93761    | 25.55     | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 51.10% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 86857    | 32.05     | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 64.10% |          |
| 50) Toluene-d8              | 7.72  | 98   | 184437   | 31.99     | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 63.98% |          |
| 62) 4-Bromofluorobenzene    | 11.52 | 95   | 85193    | 26.30     | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 52.60% |          |
| Target Compounds            |       |      |          |           |        |          |
|                             |       |      |          |           | Qvalue |          |
| 16) Acetone                 | 2.35  | 43   | 1243     | 1.835     | ug/l # | 70       |
| 18) Methyl Acetate          | 2.48  | 43   | 2018     | 1.766     | ug/l # | 56       |
| 20) Methylene Chloride      | 2.29  | 84   | 7143     | Below Cal | #      | 77       |
| 39) Methylcyclohexane       | 5.76  | 83   | 4135     | 1.750     | ug/l # | 39       |
| 40) Benzene                 | 4.84  | 78   | 171      | Below Cal | #      | 49       |
| 49) 1,4-Dioxane             | 6.87  | 88   | 88       | 90.825    | ug/l # | 16       |
| 56) Ethyl methacrylate      | 8.78  | 69   | 255      | 3.508     | ug/l # | 6        |
| 74) N-amyl acetate          | 11.47 | 43   | 1155     | 3.571     | ug/l # | 46       |
| 84) 1,2,4-Trimethylbenzene  | 12.29 | 105  | 11998    | 1.751     | ug/l   | 98       |
| 95) Naphthalene             | 14.53 | 128  | 16426    | 3.512     | ug/l # | 89       |

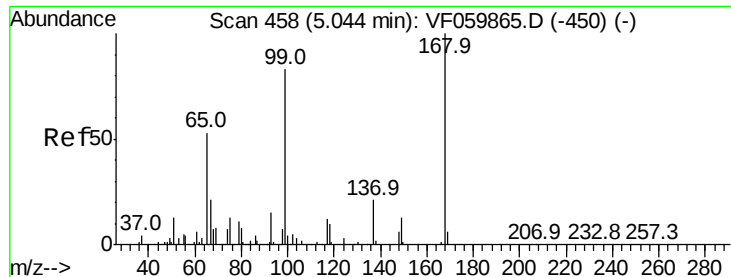
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF080718\  
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Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Aug 07 10:52:26 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F080418S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 04 07:08:36 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

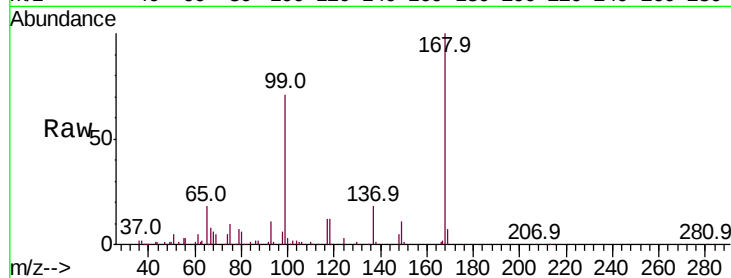
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 203575

Ion Ratio Lower Upper

168 100

99 70.9 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

40000

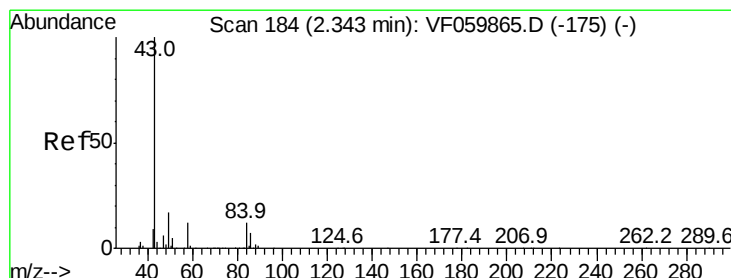
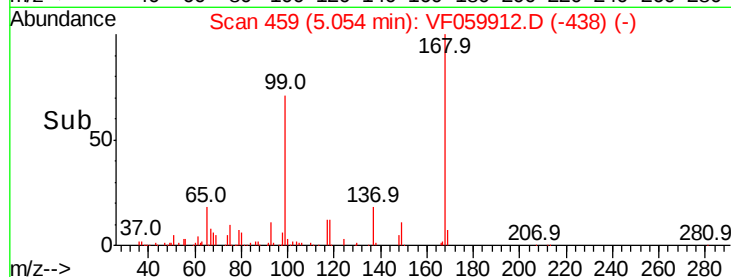
20000

0

Time-->

4.90 5.00 5.10 5.20

5.05



#16

Acetone

Concen: 1.835 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF059912.D

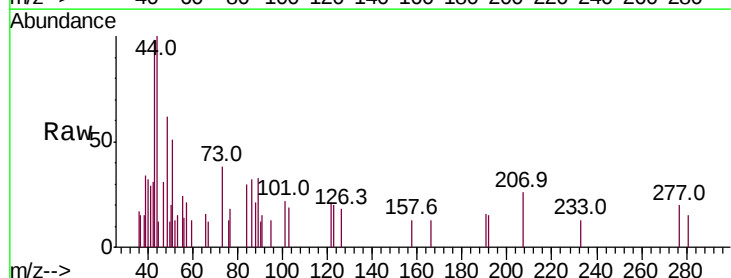
Acq: 7 Aug 2018 10:16

Tgt Ion: 43 Resp: 1243

Ion Ratio Lower Upper

43 100

58 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

800

600

400

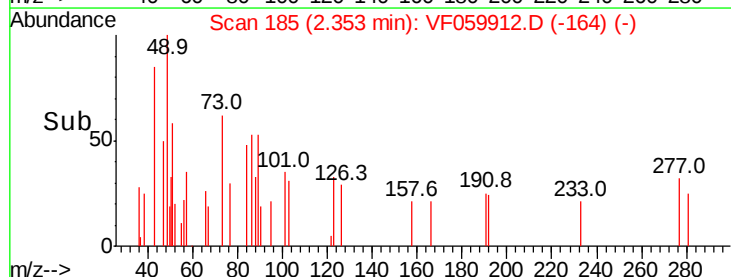
200

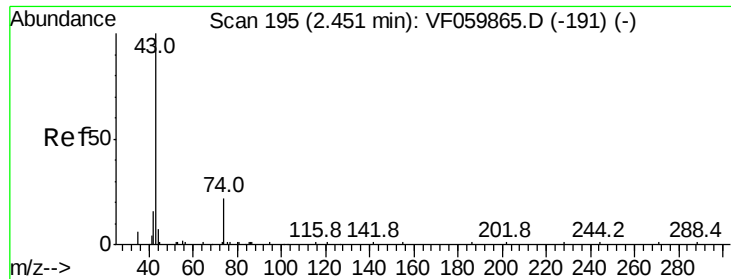
0

Time-->

2.30 2.35

2.35

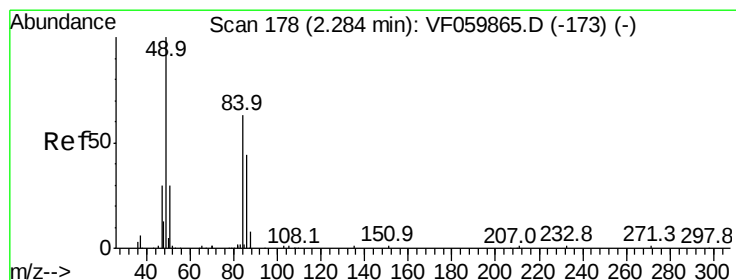
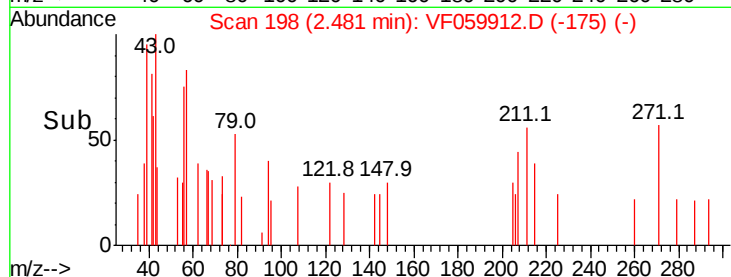
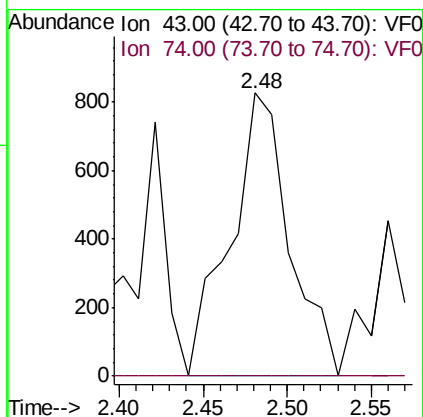
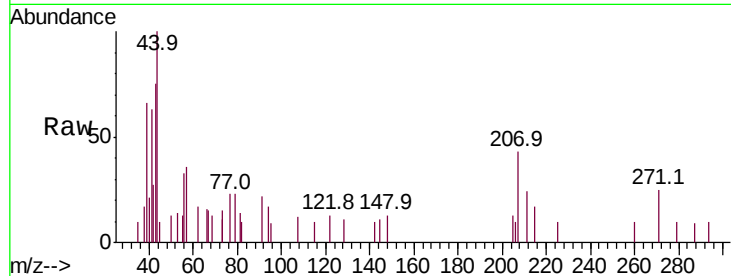




#18  
Methyl Acetate  
Concen: 1.766 ug/l  
RT: 2.48 min Scan# 198  
Delta R.T. 0.03 min  
Lab File: VF059912.D  
Acq: 7 Aug 2018 10:16

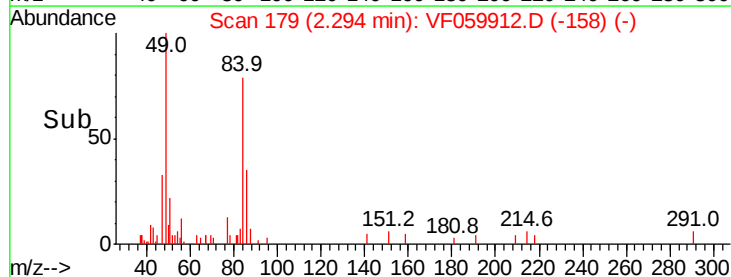
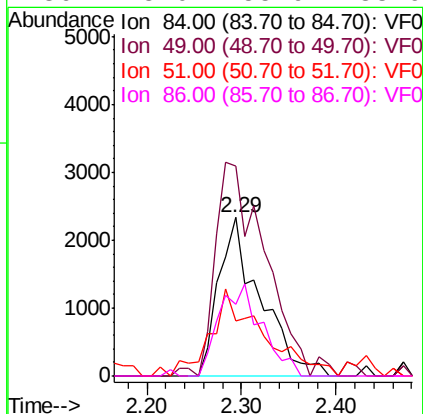
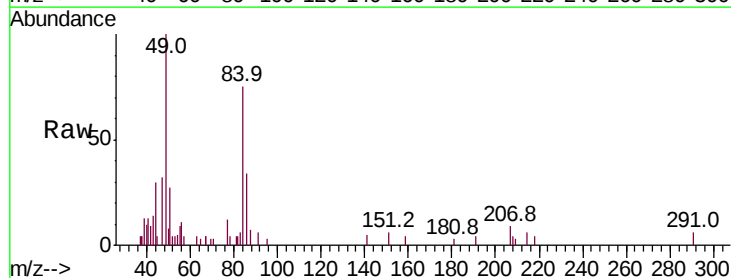
Instrument :  
MSVOA\_F  
ClientSampled :

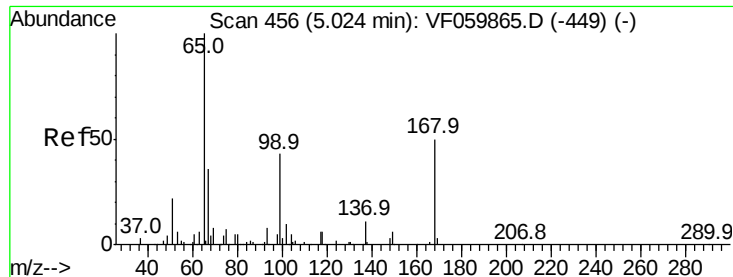
Tot Ion: 43 Resp: 2018  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.3 24.5#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.29 min Scan# 179  
Delta R.T. 0.01 min  
Lab File: VF059912.D  
Acq: 7 Aug 2018 10:16

Tgt Ion: 84 Resp: 7143  
Ion Ratio Lower Upper  
84 100  
49 132.6 128.7 193.1  
51 35.1 39.3 58.9#  
86 45.0 55.9 83.9#





#33

1,2-Dichloroethane-d4

Concen: 25.547 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

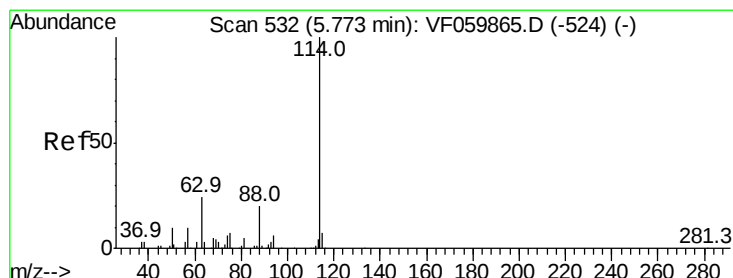
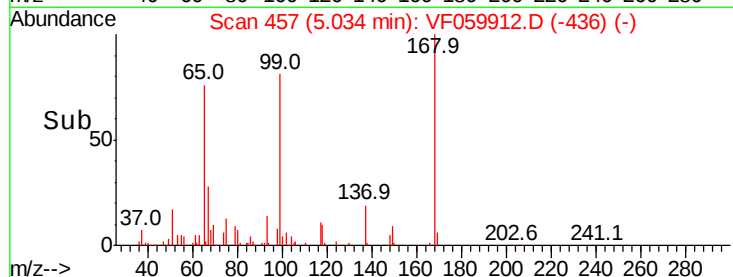
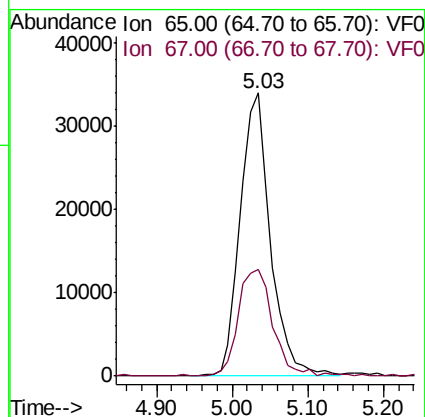
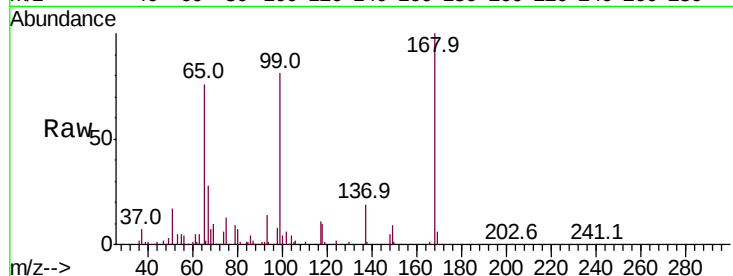
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 65 Resp: 93761

Ion Ratio Lower Upper

65 100

67 37.5 0.0 77.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

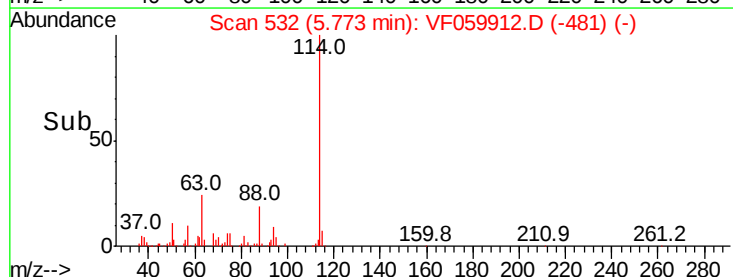
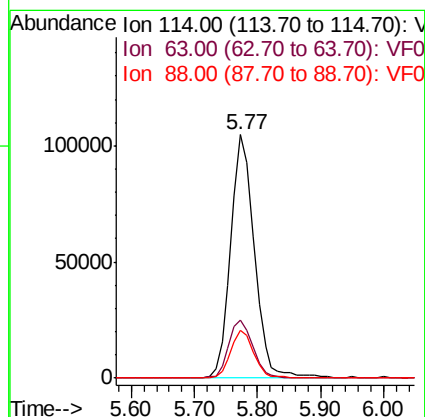
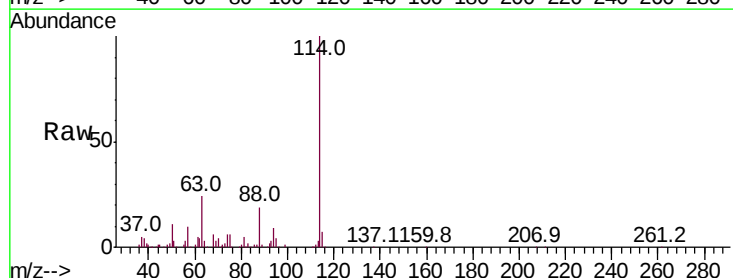
Tgt Ion: 114 Resp: 272346

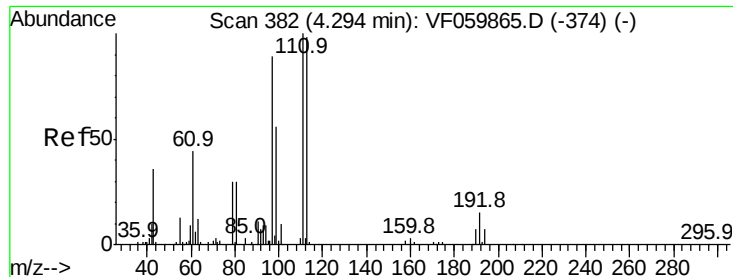
Ion Ratio Lower Upper

114 100

63 24.0 0.0 48.0

88 19.5 0.0 39.4





#35

Dibromofluoromethane

Concen: 32.054 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

Instrument :  
MSVOA\_F  
ClientSampleId :

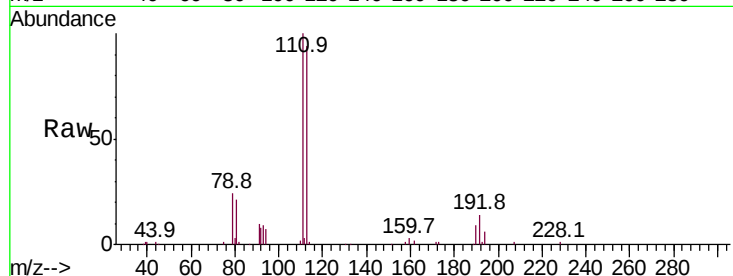
Tot Ion:113 Resp: 86857

Ion Ratio Lower Upper

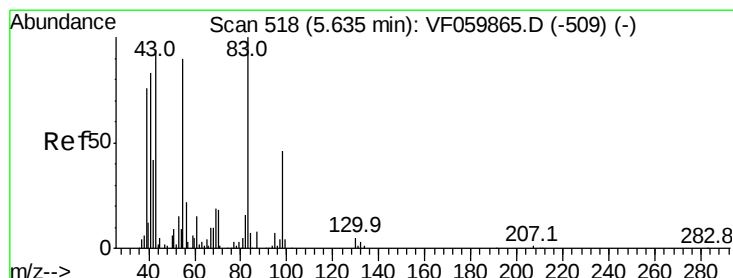
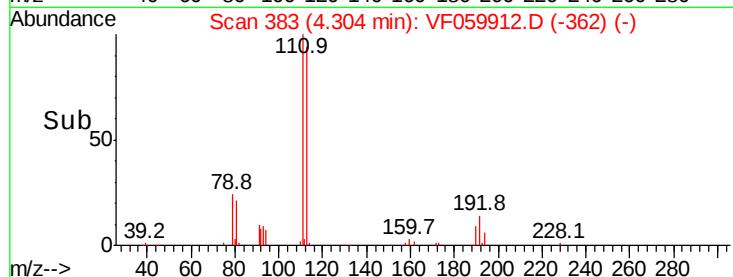
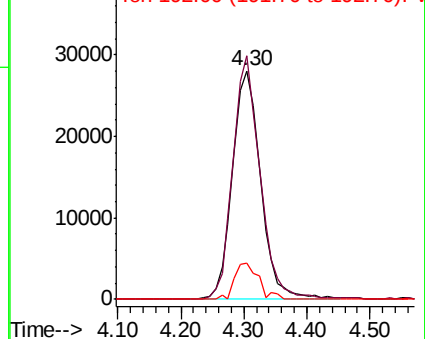
113 100

111 106.6 81.8 122.8

192 15.7 12.4 18.6



Abundance Ion 113.00 (112.70 to 113.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 192.00 (191.70 to 192.70): V



#39

Methylcyclohexane

Concen: 1.750 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.13 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

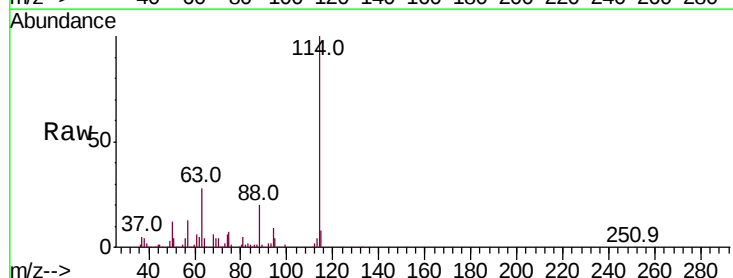
Tgt Ion: 83 Resp: 4135

Ion Ratio Lower Upper

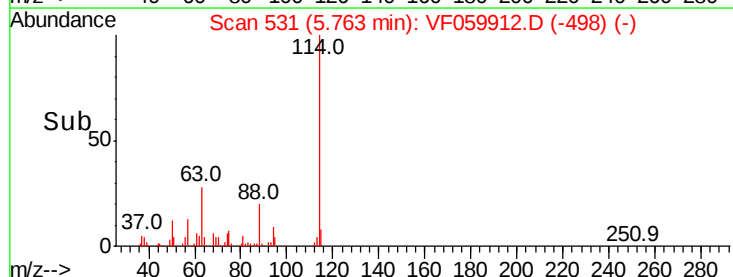
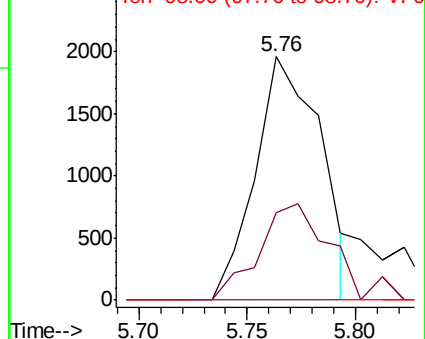
83 100

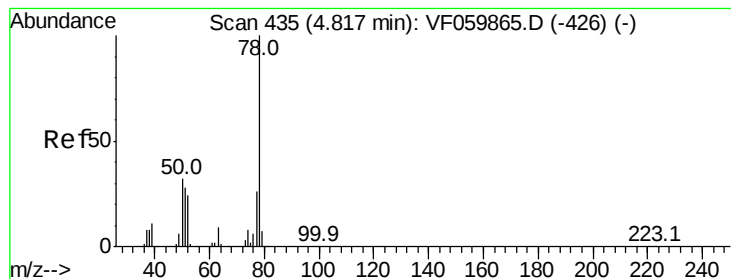
55 36.1 72.0 108.0#

98 0.0 36.6 54.8#



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 55.00 (54.70 to 55.70): VF0  
Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: Below Cal

RT: 4.84 min Scan# 437

Delta R.T. 0.02 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

Instrument :

MSVOA\_F

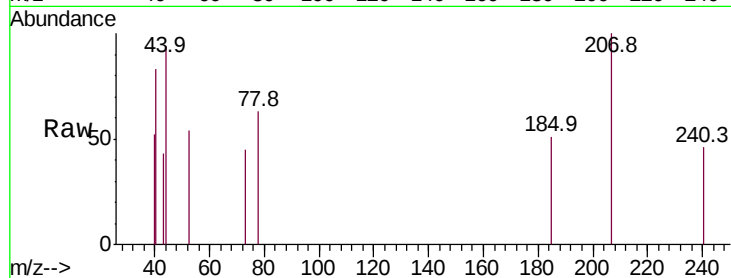
ClientSampled :

Tot Ion: 78 Resp: 171

Ion Ratio Lower Upper

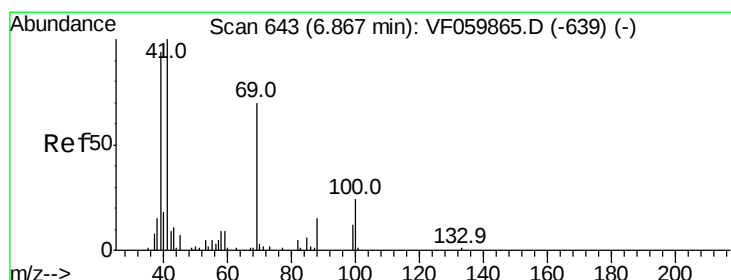
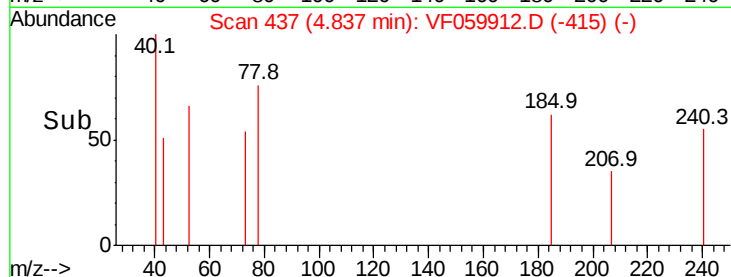
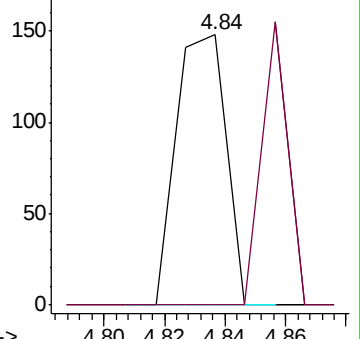
78 100

77 0.0 20.7 31.1#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#49

1,4-Dioxane

Concen: 90.825 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

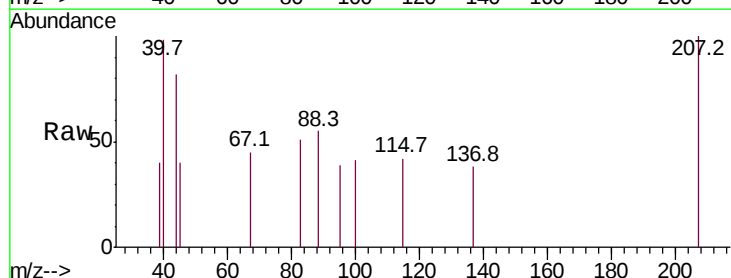
Tgt Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 0.0 58.3 87.5#

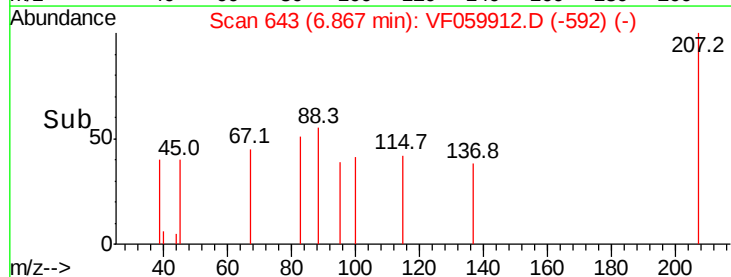
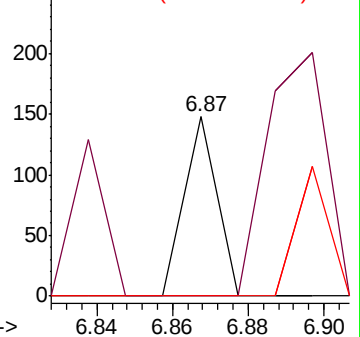
58 0.0 49.4 74.2#

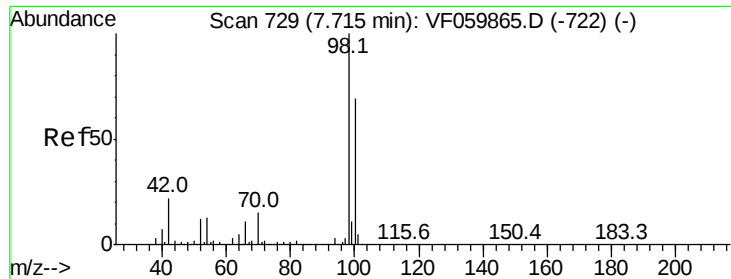


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

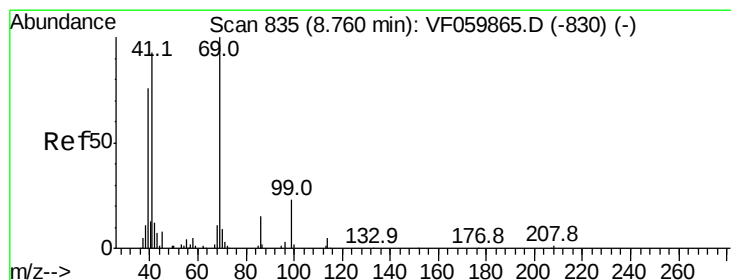
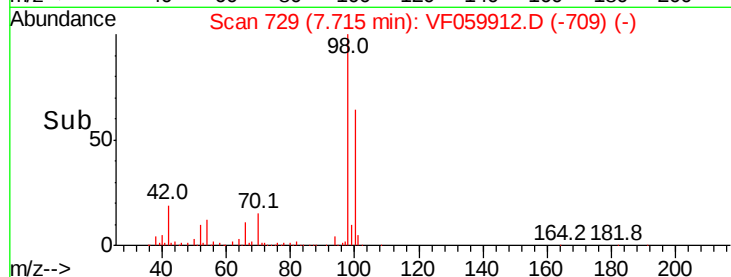
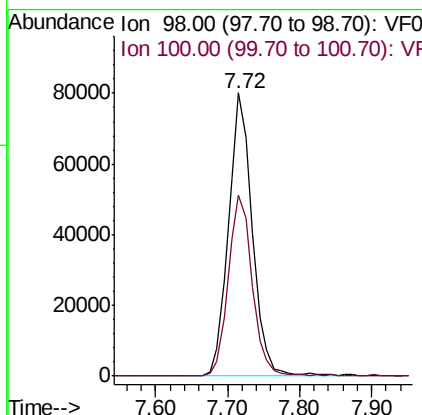
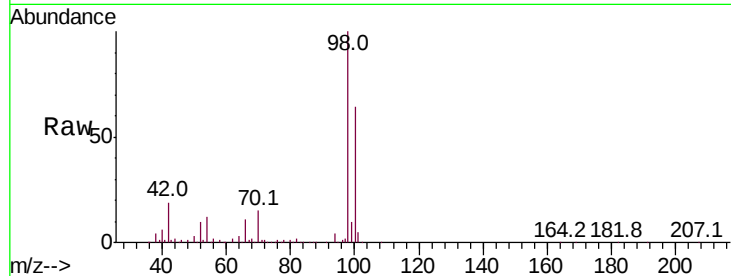




#50  
Toluene-d8  
Concen: 31.990 ug/l  
RT: 7.72 min Scan# 729  
Delta R.T. 0.00 min  
Lab File: VF059912.D  
Acq: 7 Aug 2018 10:16

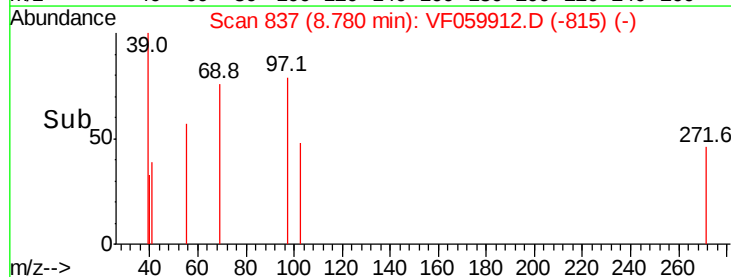
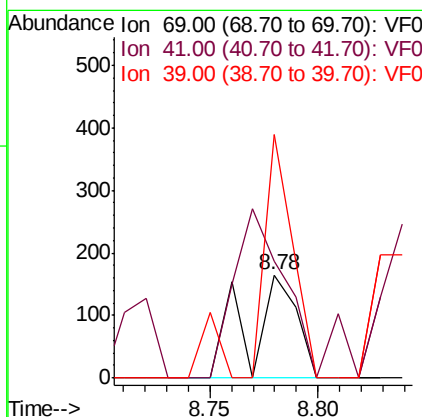
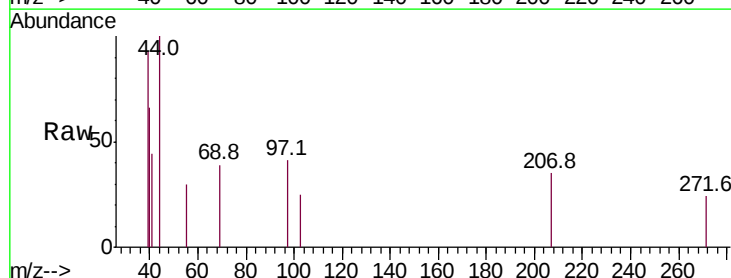
Instrument :  
MSVOA\_F  
ClientSampleId :

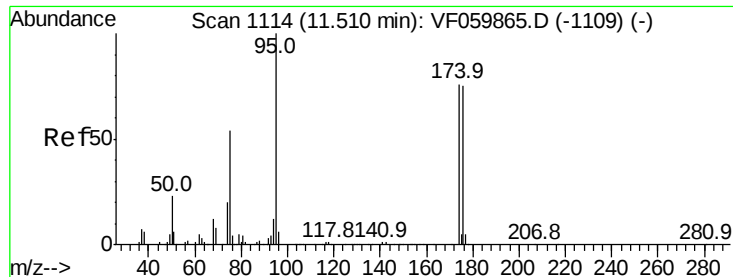
Tot Ion: 98 Resp: 184437  
Ion Ratio Lower Upper  
98 100  
100 64.0 55.0 82.6



#56  
Ethyl methacrylate  
Concen: 3.508 ug/l  
RT: 8.78 min Scan# 837  
Delta R.T. 0.02 min  
Lab File: VF059912.D  
Acq: 7 Aug 2018 10:16

Tgt Ion: 69 Resp: 255  
Ion Ratio Lower Upper  
69 100  
41 112.7 74.7 112.1#  
39 235.8 61.1 91.7#





#62

4-Bromofluorobenzene

Concen: 26.296 ug/l

RT: 11.52 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

Instrument :

MSVOA\_F

ClientSampleId :

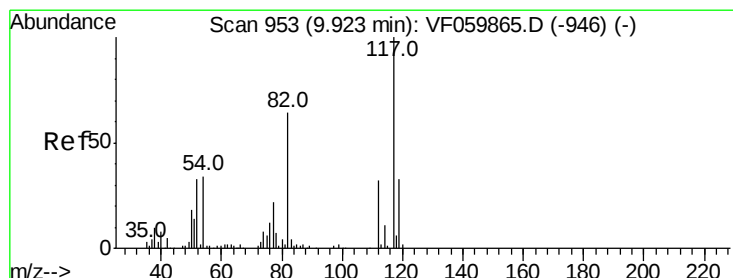
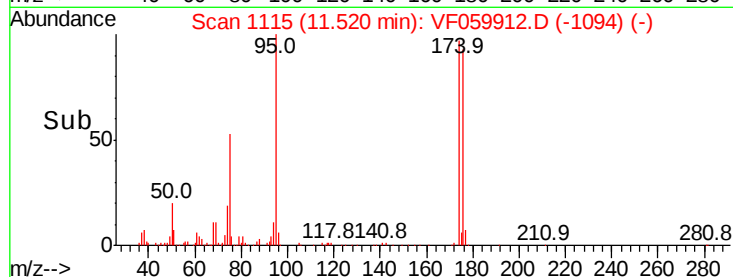
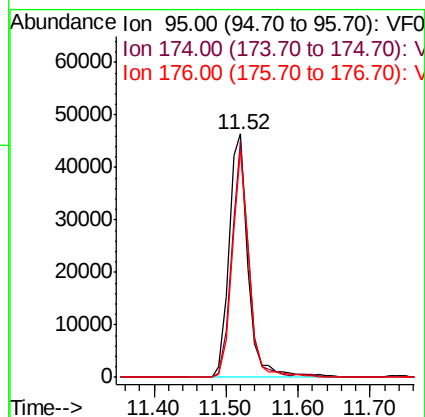
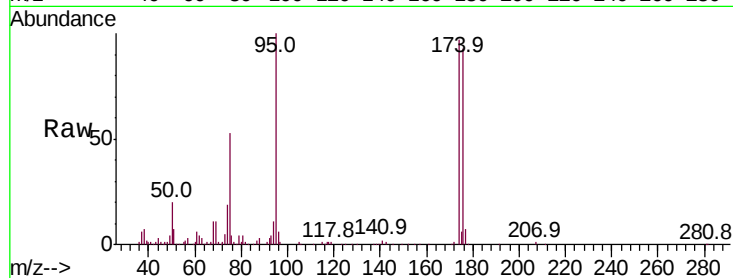
Tot Ion: 95 Resp: 85193

Ion Ratio Lower Upper

95 100

174 97.1 0.0 151.6

176 93.3 0.0 149.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

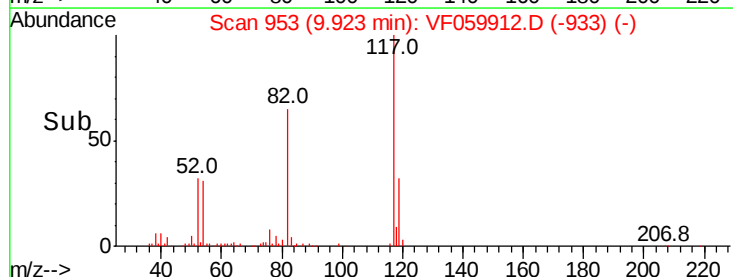
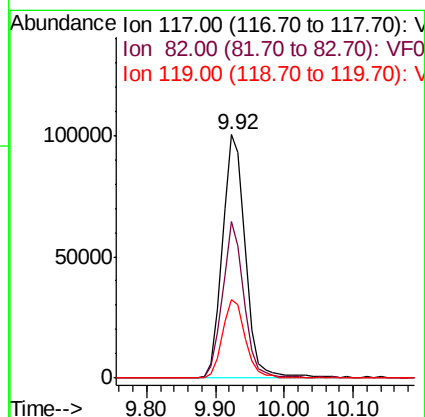
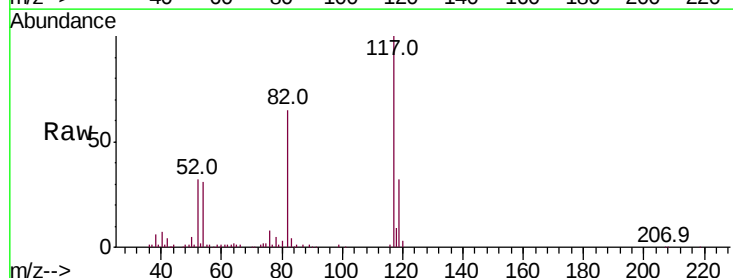
Tgt Ion: 117 Resp: 231341

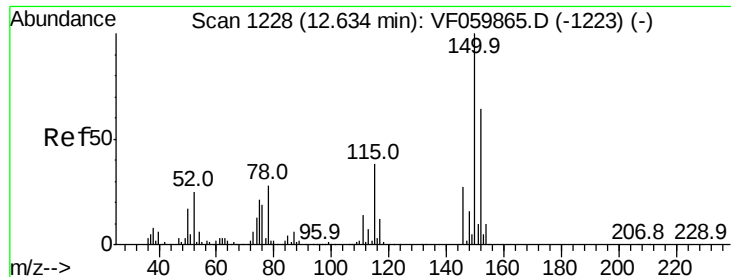
Ion Ratio Lower Upper

117 100

82 64.6 51.3 76.9

119 32.0 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

Instrument :

MSVOA\_F

ClientSampleId :

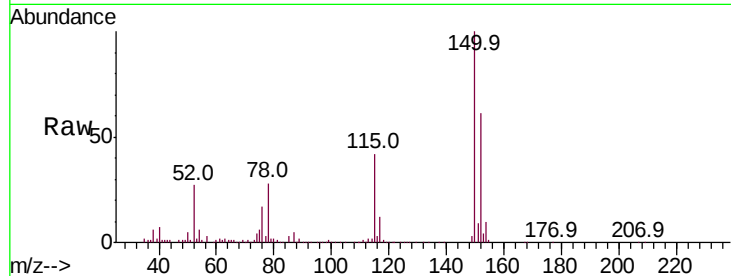
Tot Ion:152 Resp: 115212

Ion Ratio Lower Upper

152 100

115 69.6 29.8 89.4

150 164.9 0.0 315.6

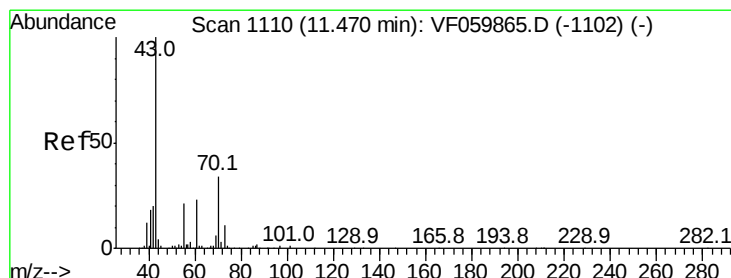
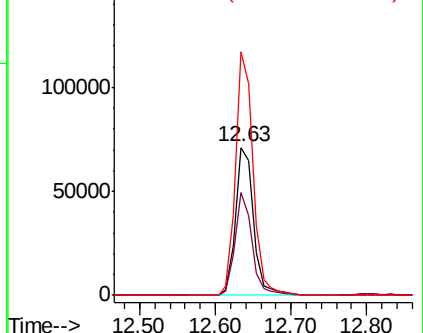
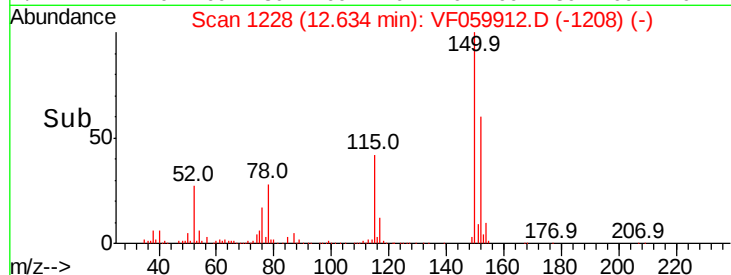


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 3.571 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF059912.D

Acq: 7 Aug 2018 10:16

Tgt Ion: 43 Resp: 1155

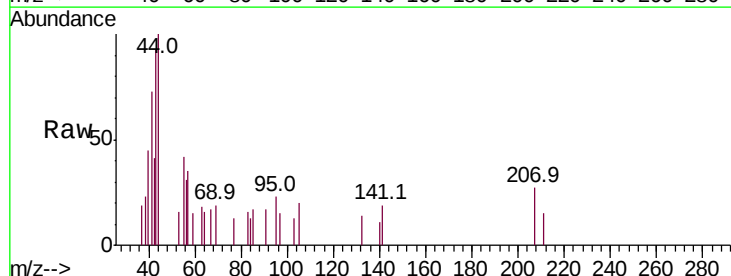
Ion Ratio Lower Upper

43 100

70 0.0 27.5 41.3#

55 45.0 16.6 25.0#

61 0.0 18.2 27.4#



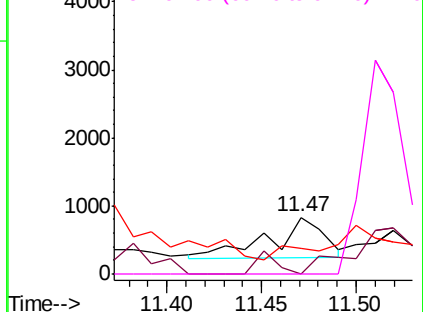
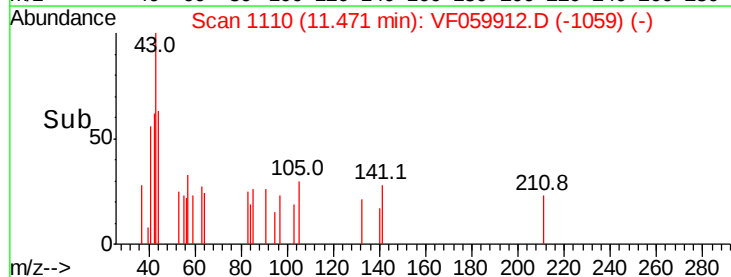
Abundance

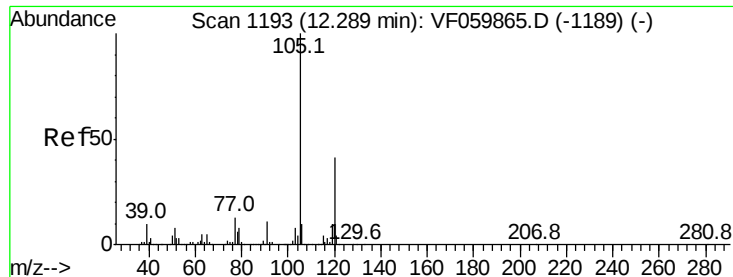
Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

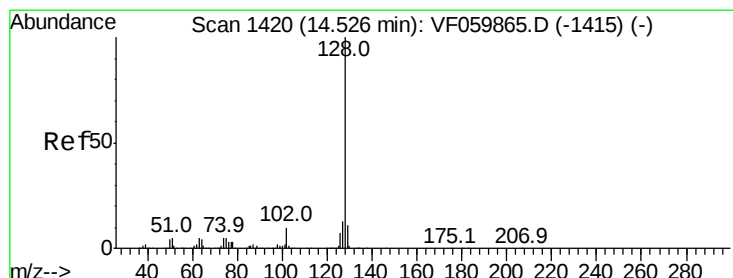
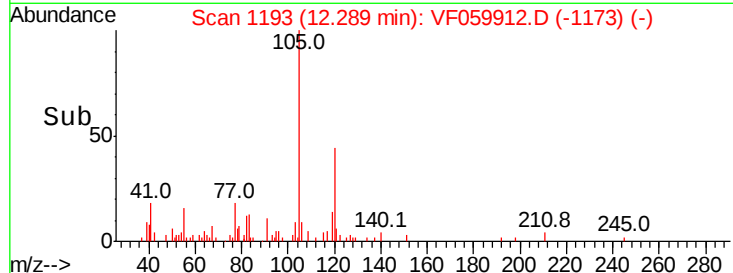
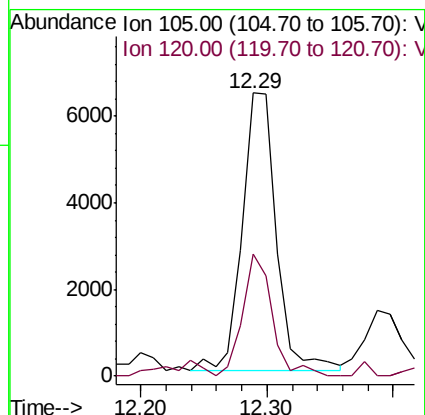
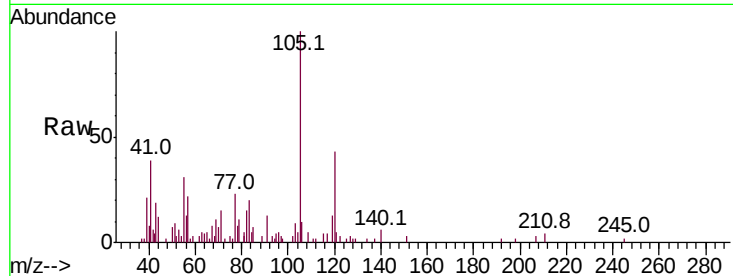




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.751 ug/l  
 RT: 12.29 min Scan# 1193  
 Delta R.T. 0.00 min  
 Lab File: VF059912.D  
 Acq: 7 Aug 2018 10:16

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Tot Ion:105 Resp: 11998  
 Ion Ratio Lower Upper  
 105 100  
 120 43.3 20.8 62.5



#95  
 Naphthalene  
 Concen: 3.512 ug/l  
 RT: 14.53 min Scan# 1420  
 Delta R.T. 0.00 min  
 Lab File: VF059912.D  
 Acq: 7 Aug 2018 10:16

Tgt Ion:128 Resp: 16426  
 Ion Ratio Lower Upper  
 128 100  
 127 21.0 10.4 15.6#  
 129 11.6 9.0 13.6

