

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\  
 Data File : VF059466.D  
 Acq On : 6 Jul 2018 22:52  
 Operator : VA/AP  
 Sample : J3855-05  
 Misc : 6.50µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-12(7-7.5)

Quant Time: Jul 07 01:52:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 26 08:45:17 2018  
 Response via : Initial Calibration

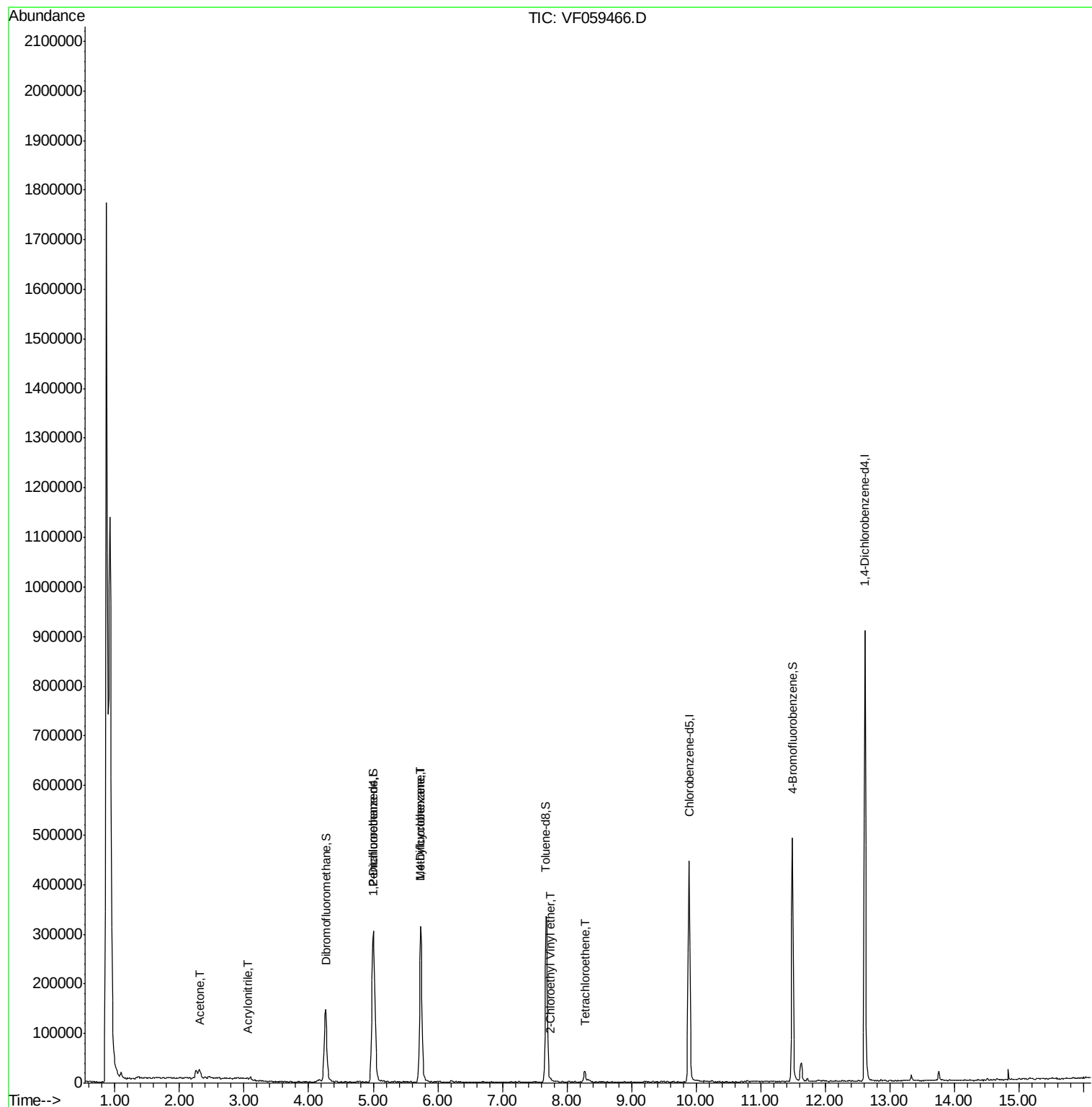
| Internal Standards            | R.T.  | QIon | Response | Conc        | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|-------------|---------|----------|
| 1) Pentafluorobenzene         | 5.01  | 168  | 198156   | 50.00       | ug/l    | -0.01    |
| 34) 1,4-Difluorobenzene       | 5.73  | 114  | 297588   | 50.00       | ug/l    | -0.02    |
| 63) Chlorobenzene-d5          | 9.89  | 117  | 304887   | 50.00       | ug/l    | -0.01    |
| 72) 1,4-Dichlorobenzene-d4    | 12.61 | 152  | 209330   | 50.00       | ug/l    | -0.01    |
| System Monitoring Compounds   |       |      |          |             |         |          |
| 33) 1,2-Dichloroethane-d4     | 4.98  | 65   | 149524   | 58.40       | ug/l    | -0.02    |
| Spiked Amount 50.000          |       |      | Recovery | =           | 116.80% |          |
| 35) Dibromofluoromethane      | 4.27  | 113  | 125891   | 57.90       | ug/l    | -0.01    |
| Spiked Amount 50.000          |       |      | Recovery | =           | 115.80% |          |
| 50) Toluene-d8                | 7.69  | 98   | 265928   | 49.40       | ug/l    | -0.01    |
| Spiked Amount 50.000          |       |      | Recovery | =           | 98.80%  |          |
| 62) 4-Bromofluorobenzene      | 11.49 | 95   | 157116   | 51.74       | ug/l    | -0.01    |
| Spiked Amount 50.000          |       |      | Recovery | =           | 103.48% |          |
| Target Compounds              |       |      |          |             |         |          |
| 5) Bromomethane               | 1.33  | 94   | 297      | Below Cal   | #       | 4        |
| 13) Acrolein                  | 2.14  | 56   | 568      | Below Cal   |         | 85       |
| 15) Acrylonitrile             | 3.07  | 53   | 416      | 1.386 ug/l  | #       | 9        |
| 16) Acetone                   | 2.32  | 43   | 16118    | 15.648 ug/l | #       | 92       |
| 18) Methyl Acetate            | 2.43  | 43   | 946      | Below Cal   | #       | 55       |
| 20) Methylene Chloride        | 2.25  | 84   | 6574     | Below Cal   | #       | 88       |
| 25) 2-Butanone                | 4.47  | 43   | 112      | Below Cal   | #       | 59       |
| 28) Bromochloromethane        | 3.88  | 49   | 70       | Below Cal   | #       | 6        |
| 29) Tetrahydrofuran           | 4.21  | 42   | 348      | Below Cal   | #       | 36       |
| 37) Ethyl Acetate             | 4.27  | 43   | 697      | Below Cal   | #       | 26       |
| 39) Methylcyclohexane         | 5.73  | 83   | 4366     | 1.895 ug/l  | #       | 48       |
| 49) 1,4-Dioxane               | 7.23  | 88   | 81       | Below Cal   | #       | 20       |
| 58) 2-Chloroethyl Vinyl ether | 7.74  | 63   | 533      | 3.426 ug/l  |         | 100      |
| 59) 2-Hexanone                | 9.56  | 43   | 177      | Below Cal   | #       | 43       |
| 64) Tetrachloroethene         | 8.28  | 164  | 6698     | 3.387 ug/l  | #       | 88       |
| 87) 1,3-Dichlorobenzene       | 12.54 | 146  | 366      | Below Cal   | #       | 71       |

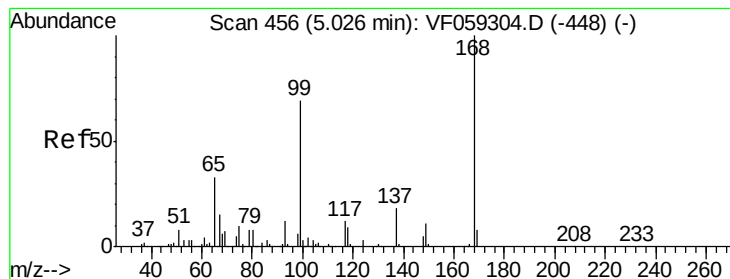
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
S-12(7-7.5)

Quant Time: Jul 07 01:52:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 26 08:45:17 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059466.D

Acq: 6 Jul 2018 22:52

Instrument :

MSVOA\_F

ClientSampleId :

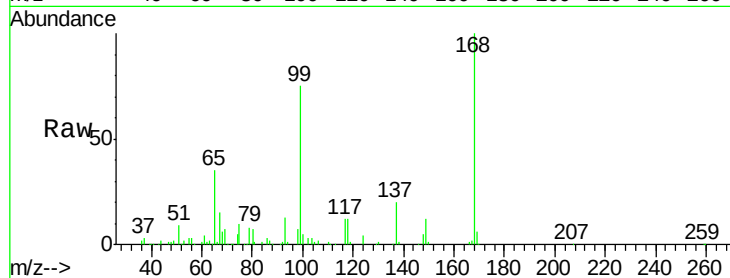
S-12(7-7.5)

Tot Ion:168 Resp: 198156

Ion Ratio Lower Upper

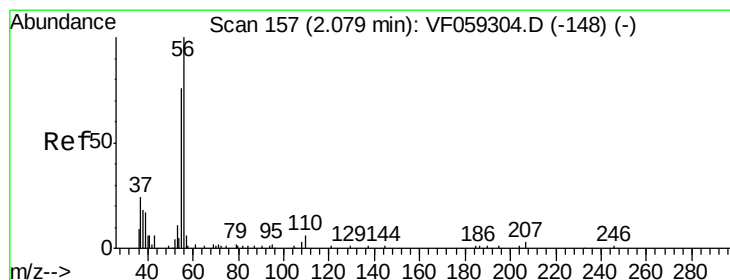
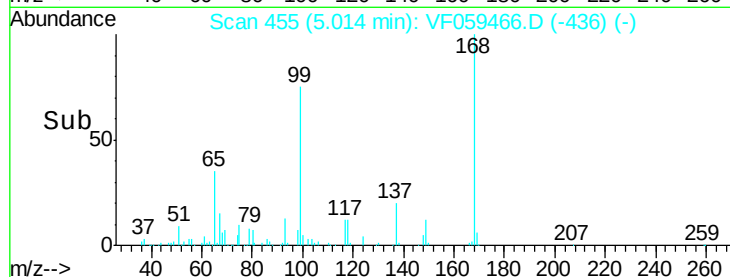
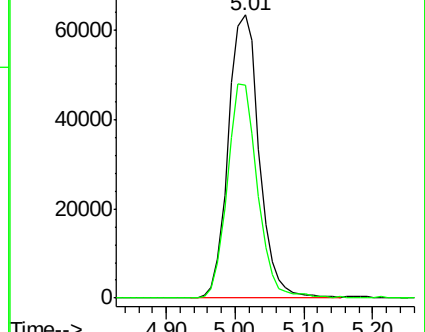
168 100

99 75.3 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: Below Cal

RT: 2.14 min Scan# 163

Delta R.T. 0.06 min

Lab File: VF059466.D

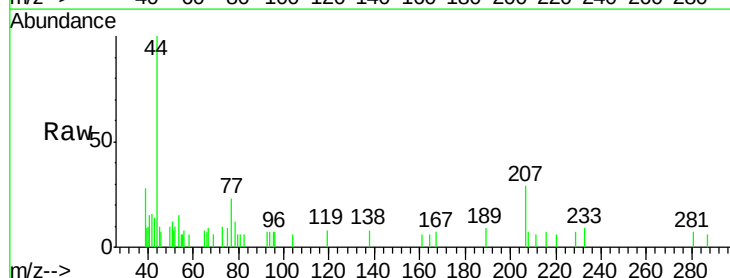
Acq: 6 Jul 2018 22:52

Tgt Ion: 56 Resp: 568

Ion Ratio Lower Upper

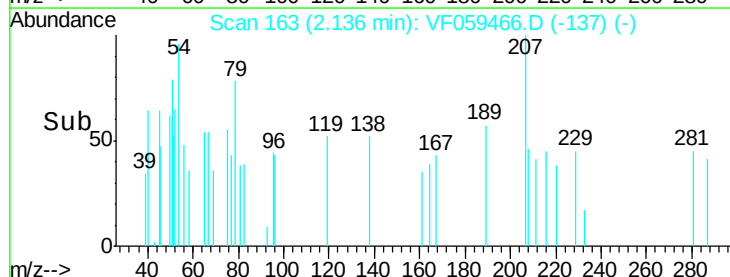
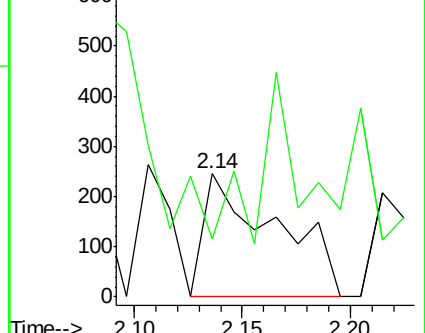
56 100

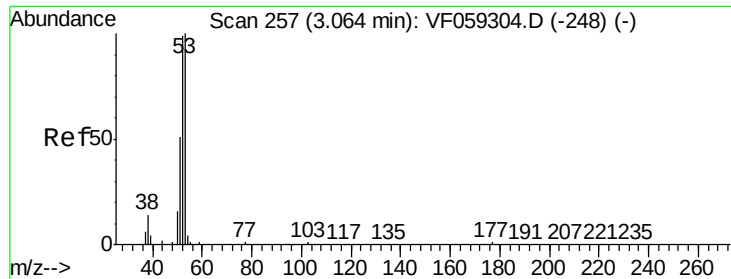
55 91.4 62.4 93.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 1.386 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059466.D

Acq: 6 Jul 2018 22:52

Instrument :

MSVOA\_F

ClientSampleId :

S-12(7-7.5)

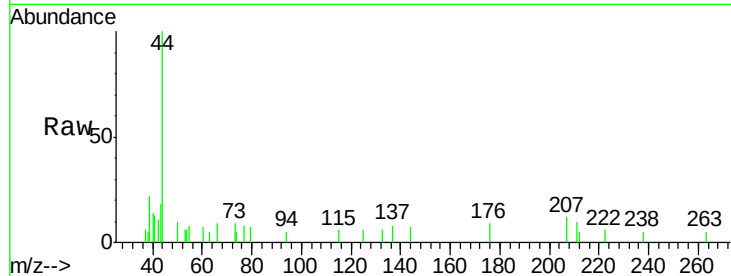
Tot Ion: 53 Resp: 416

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

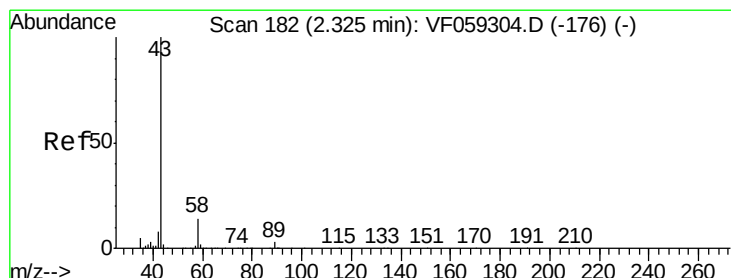
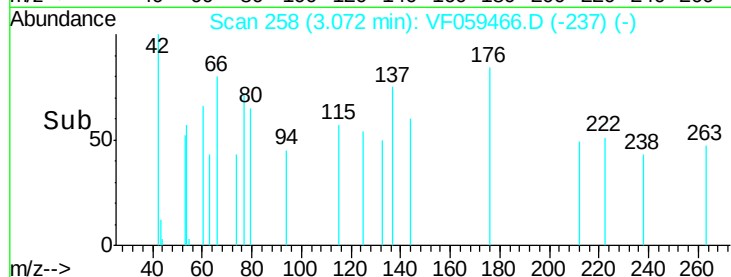
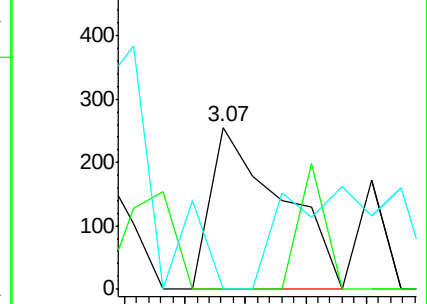
51 0.0 40.9 61.3#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 15.648 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059466.D

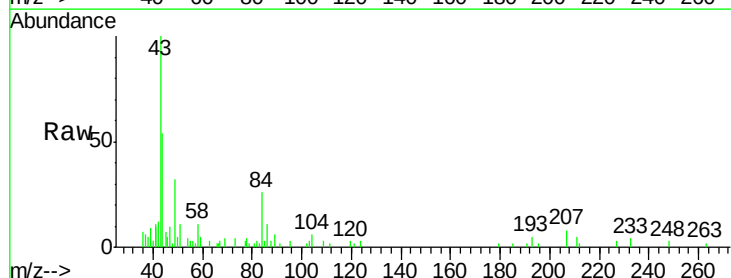
Acq: 6 Jul 2018 22:52

Tgt Ion: 43 Resp: 16118

Ion Ratio Lower Upper

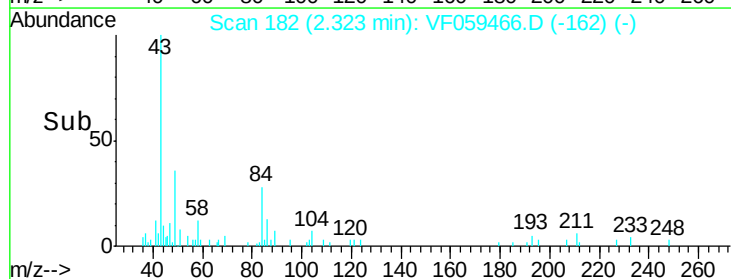
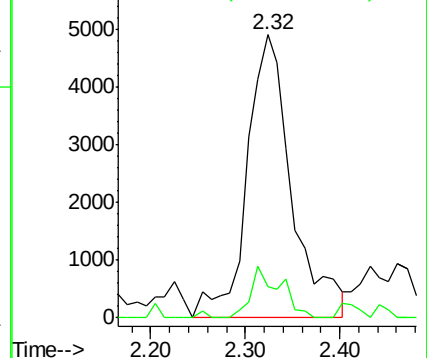
43 100

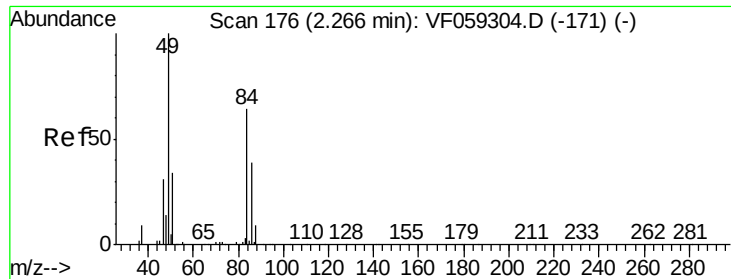
58 11.1 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

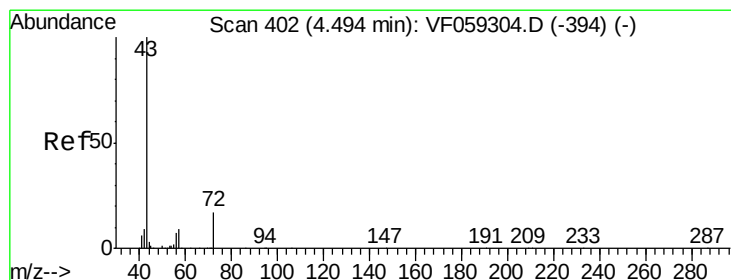
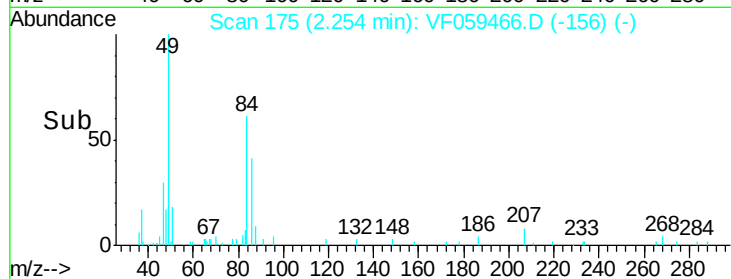
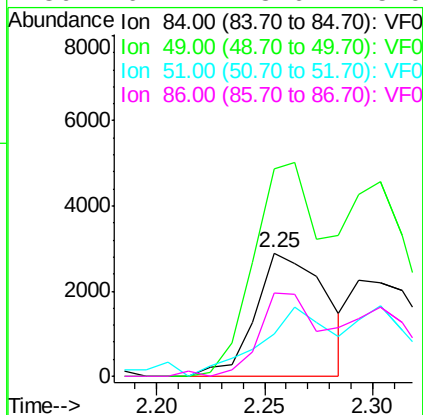
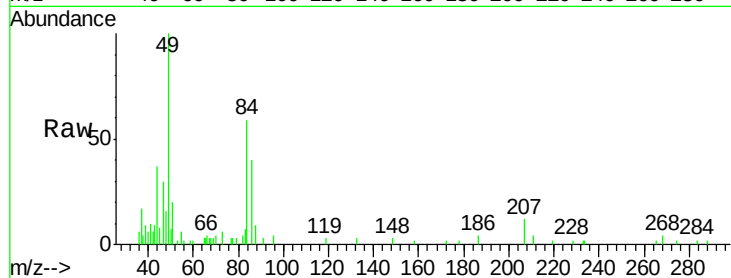




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.25 min Scan# 175  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

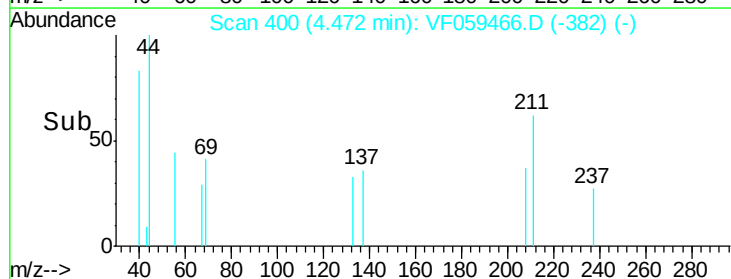
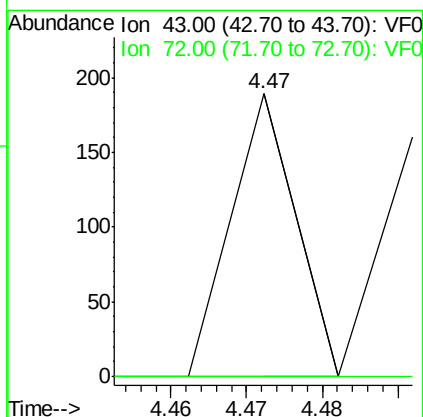
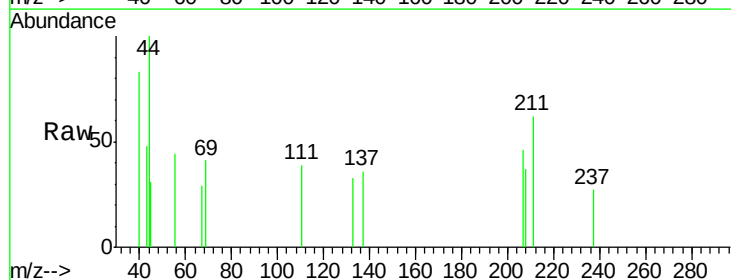
Instrument :  
MSVOA\_F  
ClientSampleId :  
S-12(7-7.5)

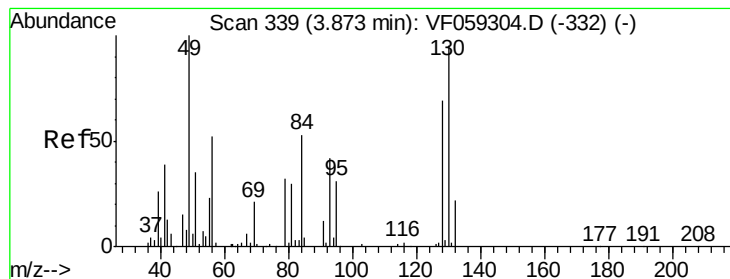
Tot Ion: 84 Resp: 6574  
Ion Ratio Lower Upper  
84 100  
49 168.2 126.5 189.7  
51 34.0 42.9 64.3#  
86 67.4 48.6 73.0



#25  
2-Butanone  
Concen: Below Cal  
RT: 4.47 min Scan# 400  
Delta R.T. -0.02 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Tgt Ion: 43 Resp: 112  
Ion Ratio Lower Upper  
43 100  
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.88 min Scan# 340

Delta R.T. 0.01 min

Lab File: VF059466.D

Acq: 6 Jul 2018 22:52

Instrument :

MSVOA\_F

ClientSampled :

S-12(7-7.5)

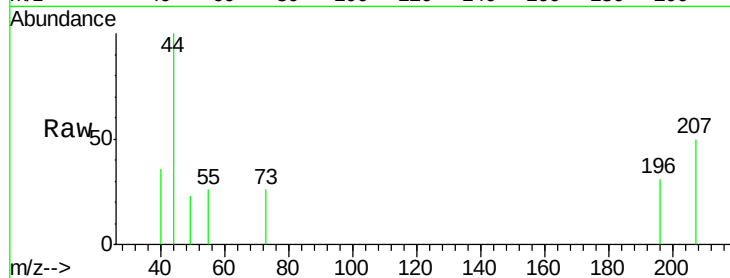
Tot Ion: 49 Resp: 70

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

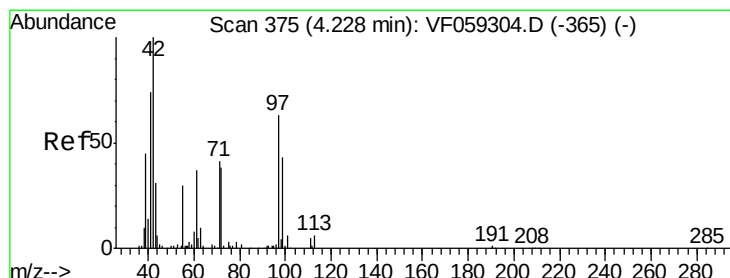
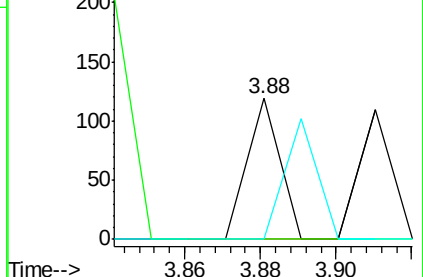
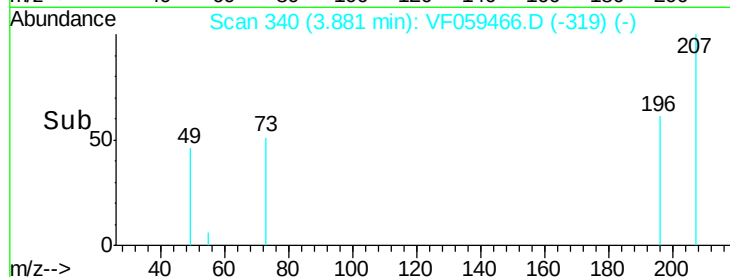
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.21 min Scan# 373

Delta R.T. -0.02 min

Lab File: VF059466.D

Acq: 6 Jul 2018 22:52

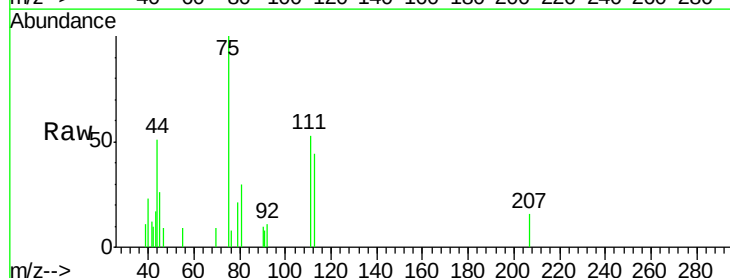
Tgt Ion: 42 Resp: 348

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

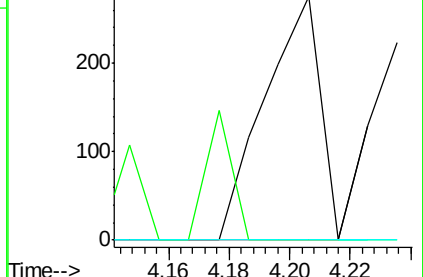
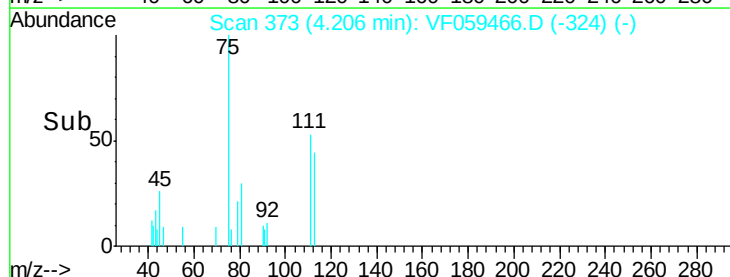
71 0.0 32.5 48.7#

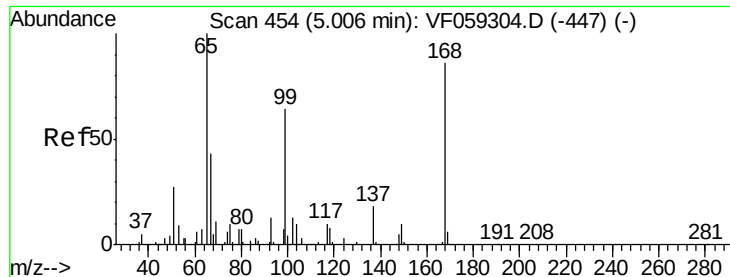


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

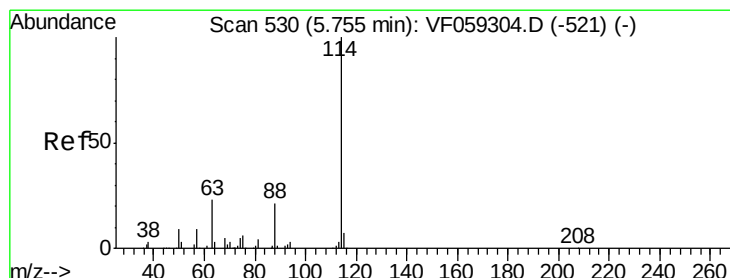
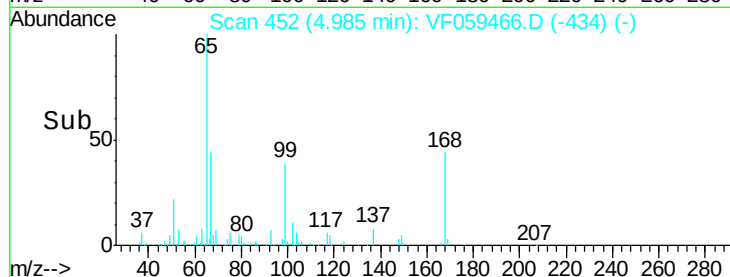
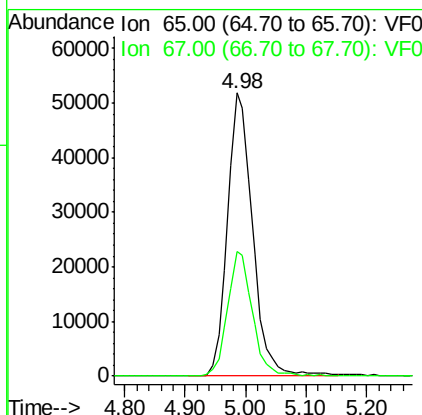
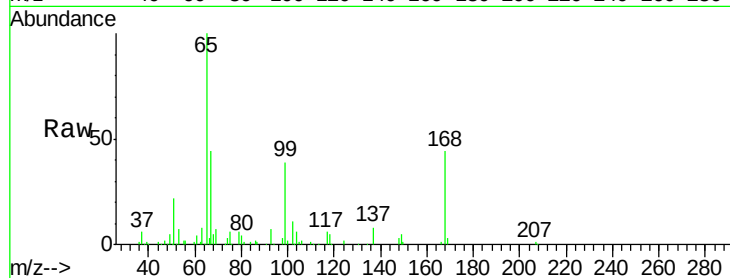




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.404 ug/l  
 RT: 4.98 min Scan# 452  
 Delta R.T. -0.02 min  
 Lab File: VF059466.D  
 Acq: 6 Jul 2018 22:52

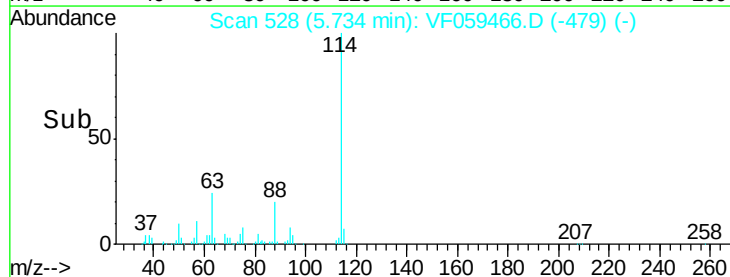
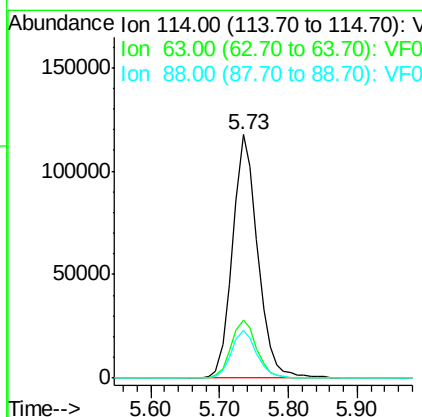
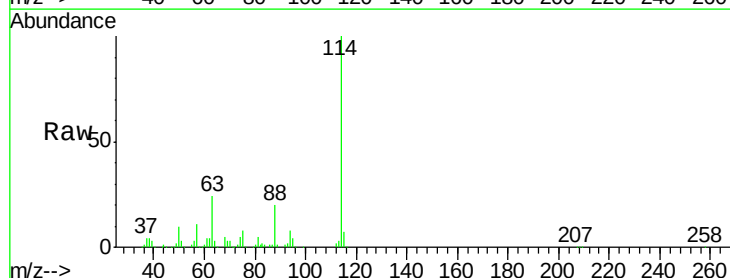
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-12(7-7.5)

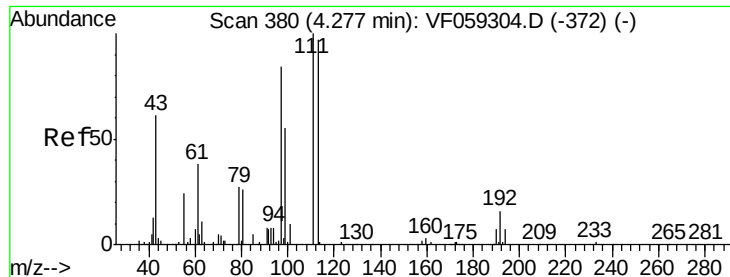
Tot Ion: 65 Resp: 149524  
 Ion Ratio Lower Upper  
 65 100  
 67 43.9 0.0 96.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.73 min Scan# 528  
 Delta R.T. -0.02 min  
 Lab File: VF059466.D  
 Acq: 6 Jul 2018 22:52

Tgt Ion: 114 Resp: 297588  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 45.8  
 88 19.7 0.0 41.2

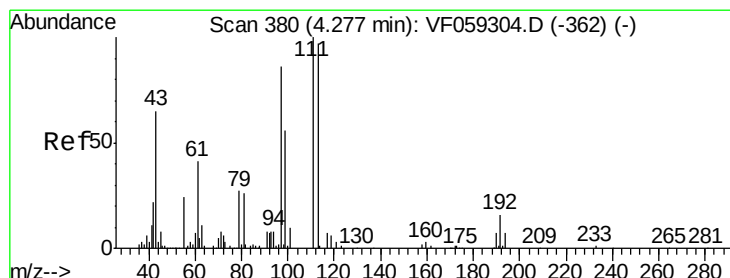
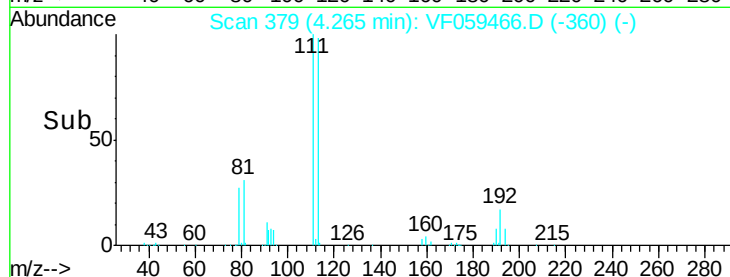
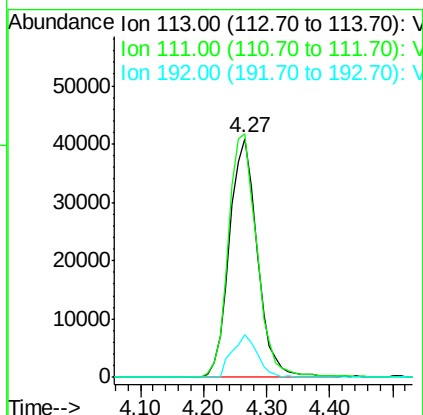
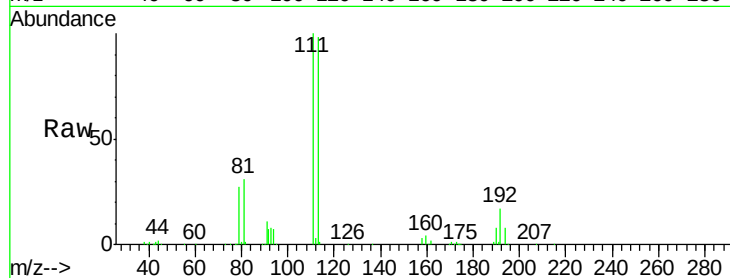




#35  
Dibromofluoromethane  
Concen: 57.897 ug/l  
RT: 4.27 min Scan# 379  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

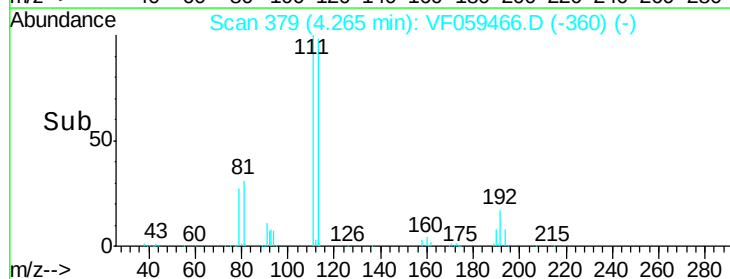
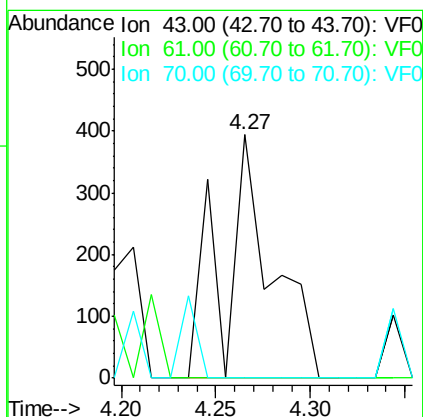
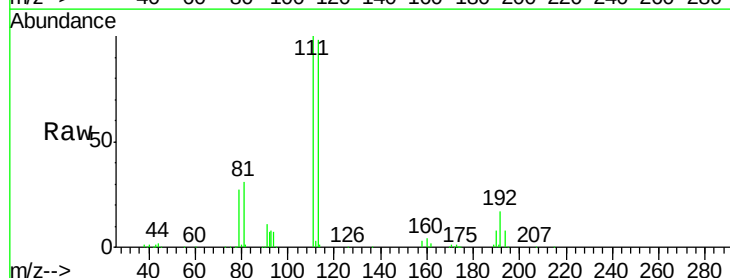
Instrument :  
MSVOA\_F  
ClientSampled :  
S-12(7-7.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 82.1  | 123.1 |
| 192     | 17.7  | 13.0  | 19.6  |

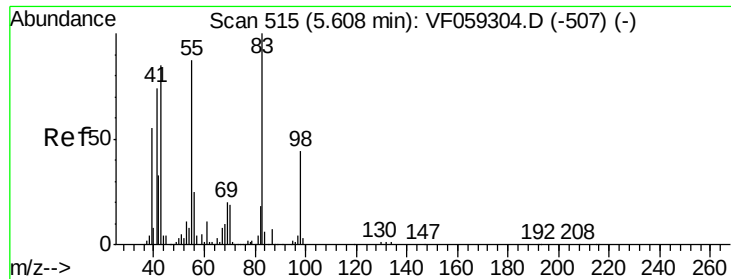


#37  
Ethyl Acetate  
Concen: Below Cal  
RT: 4.27 min Scan# 379  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 50.1  | 75.1# |
| 70      | 0.0   | 6.2   | 9.4#  |



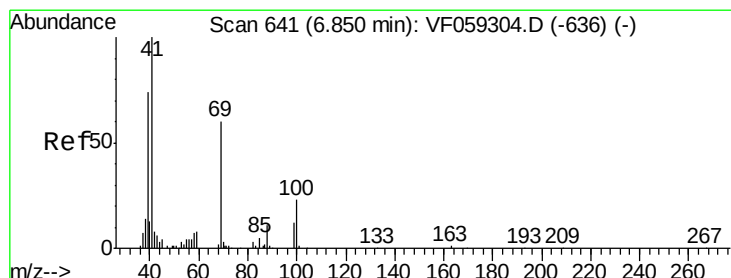
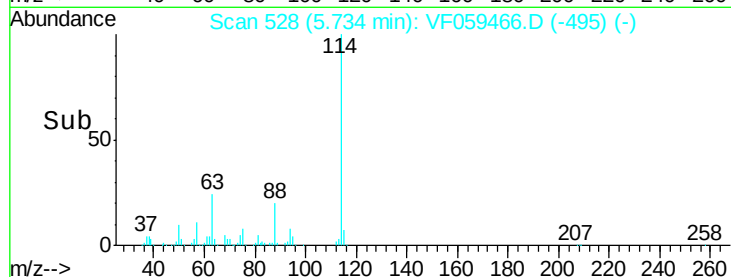
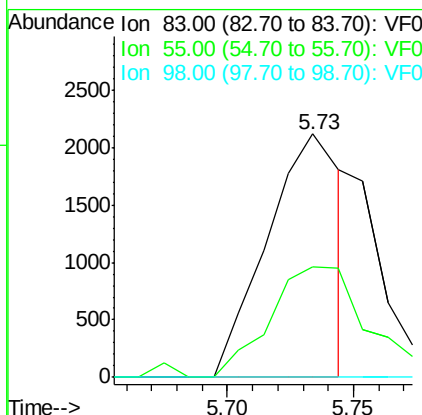
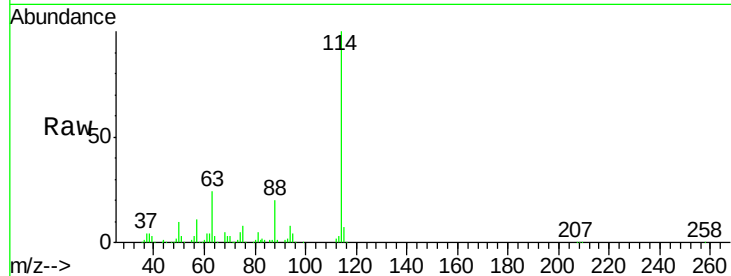




#39  
Methylcyclohexane  
Concen: 1.895 ug/l  
RT: 5.73 min Scan# 528  
Delta R.T. 0.13 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

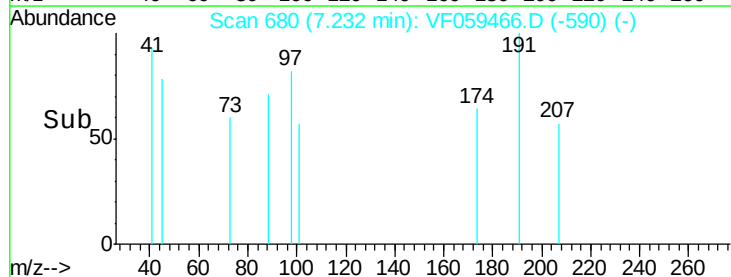
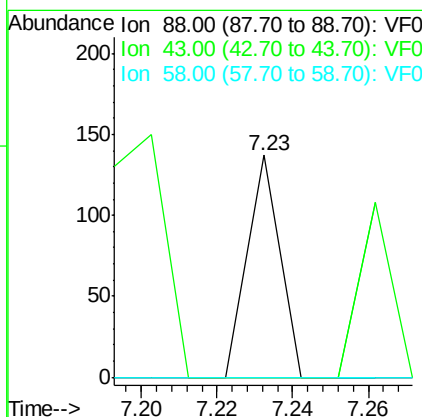
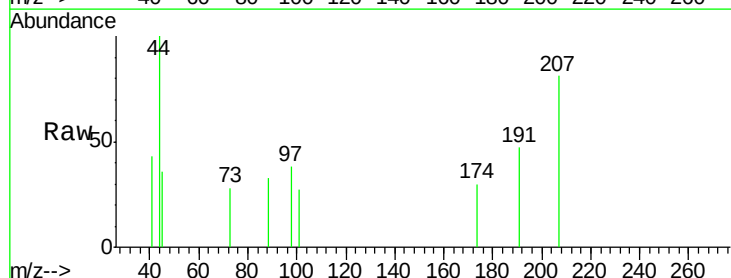
Instrument :  
MSVOA\_F  
ClientSampled :  
S-12(7-7.5)

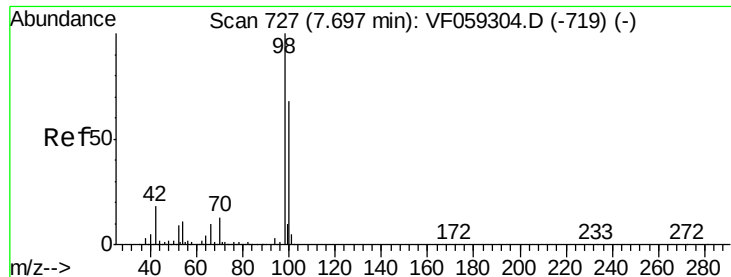
Tot Ion: 83 Resp: 4366  
Ion Ratio Lower Upper  
83 100  
55 45.6 69.2 103.8#  
98 0.0 35.0 52.6#



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.23 min Scan# 680  
Delta R.T. 0.38 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Tgt Ion: 88 Resp: 81  
Ion Ratio Lower Upper  
88 100  
43 0.0 50.6 75.8#  
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 49.396 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059466.D

Acq: 6 Jul 2018 22:52

Instrument :

MSVOA\_F

ClientSampleId :

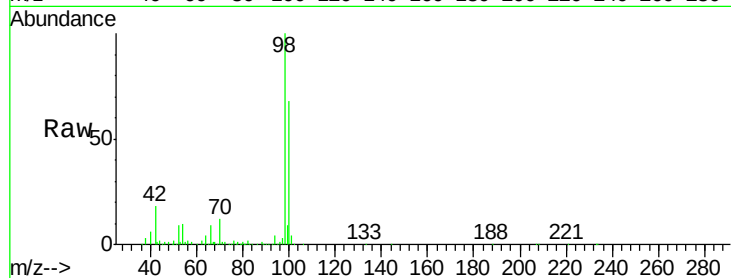
S-12(7-7.5)

Tot Ion: 98 Resp: 265928

Ion Ratio Lower Upper

98 100

100 68.3 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.69

120000

100000

80000

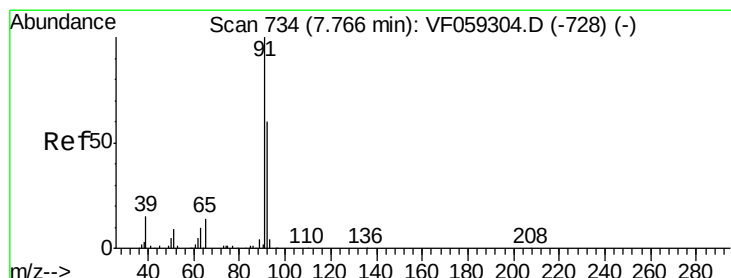
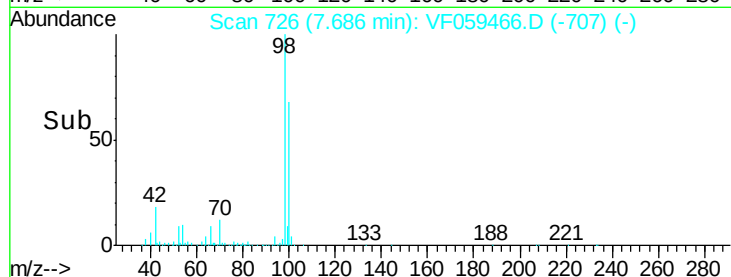
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 3.426 ug/l

RT: 7.74 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059466.D

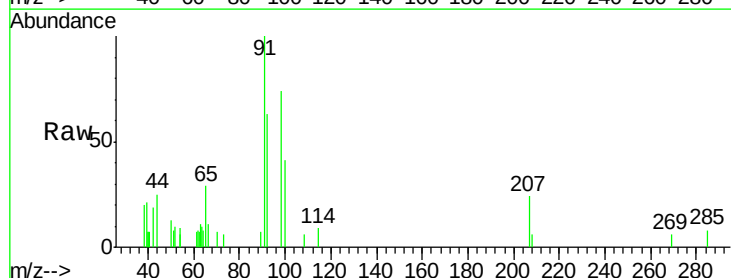
Acq: 6 Jul 2018 22:52

Tgt Ion: 63 Resp: 533

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.74

400

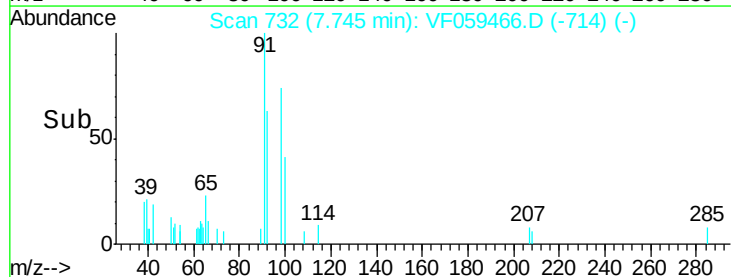
300

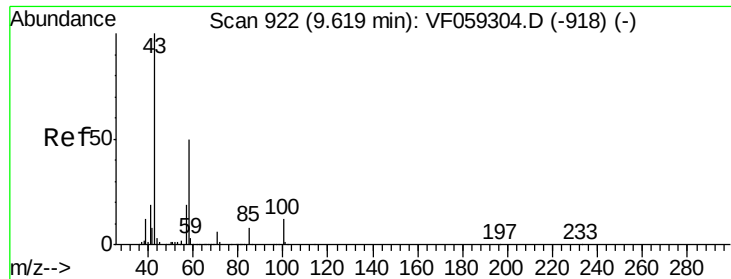
200

100

0

Time-->

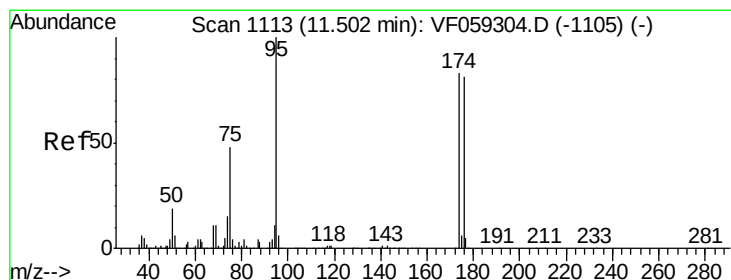
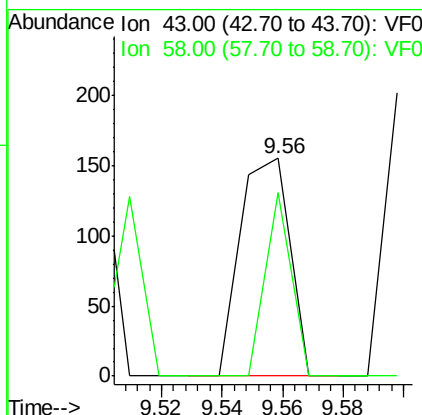
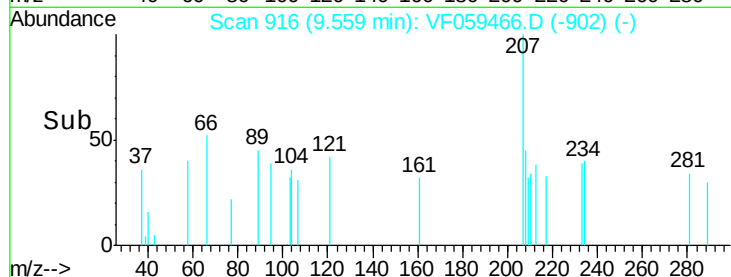
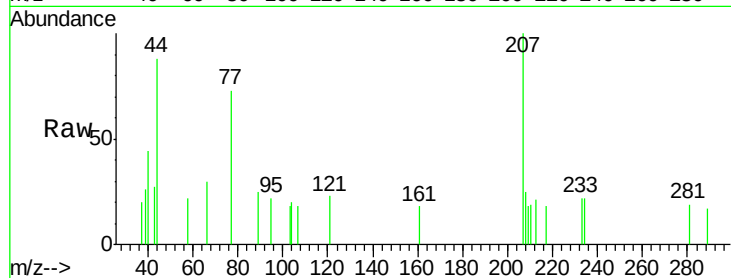




#59  
2-Hexanone  
Concen: Below Cal  
RT: 9.56 min Scan# 916  
Delta R.T. -0.06 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

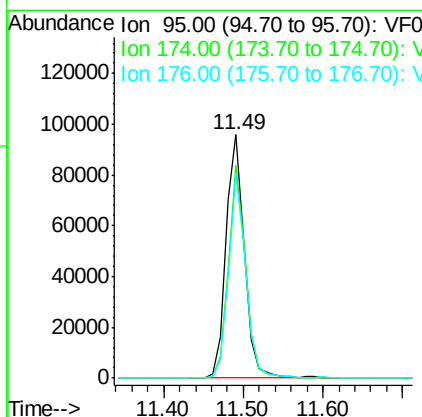
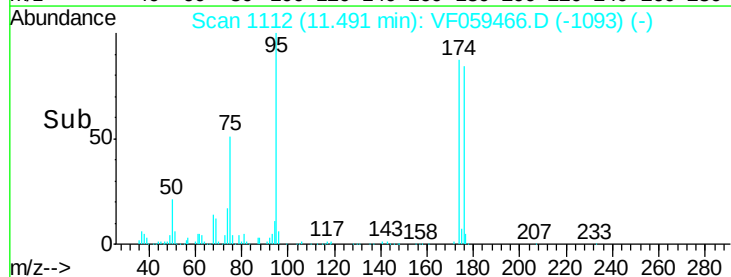
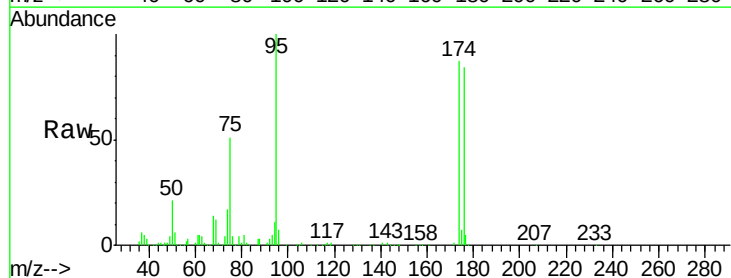
Instrument :  
MSVOA\_F  
ClientSampleId :  
S-12(7-7.5)

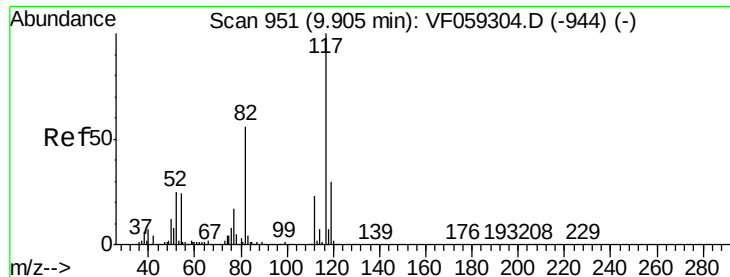
Tot Ion: 43 Resp: 177  
Ion Ratio Lower Upper  
43 100  
58 84.5 23.3 69.9#



#62  
4-Bromofluorobenzene  
Concen: 51.737 ug/l  
RT: 11.49 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Tgt Ion: 95 Resp: 157116  
Ion Ratio Lower Upper  
95 100  
174 87.2 0.0 165.2  
176 84.4 0.0 161.0

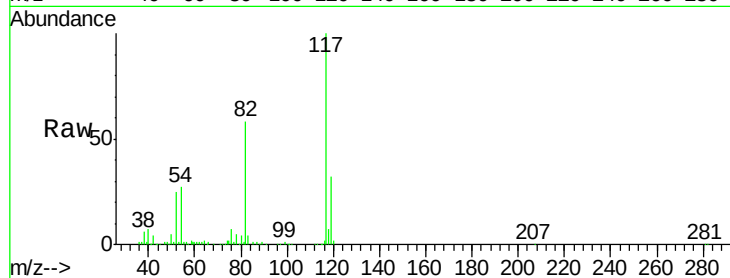




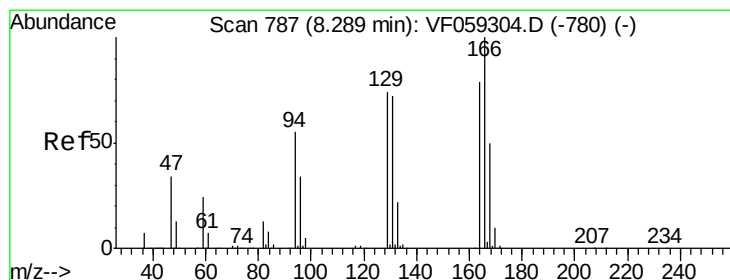
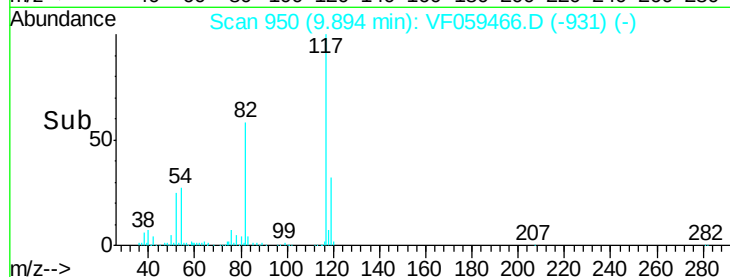
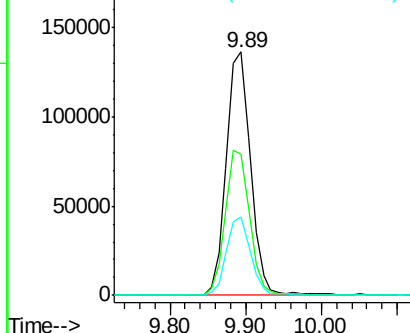
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.89 min Scan# 950  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
S-12(7-7.5)

Tot Ion:117 Resp: 304887  
Ion Ratio Lower Upper  
117 100  
82 57.9 44.6 66.8  
119 32.0 24.1 36.1

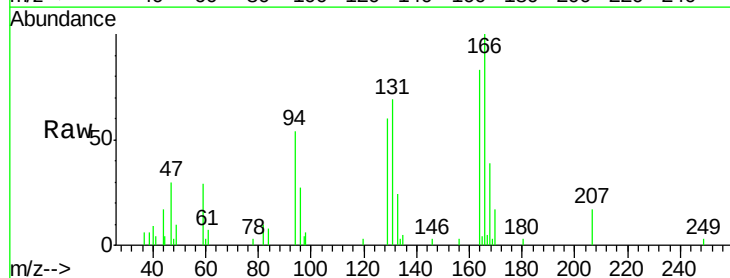


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V

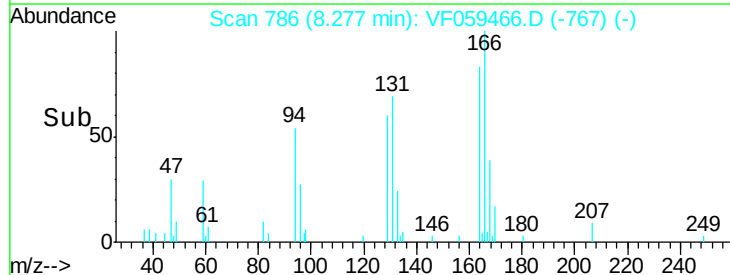
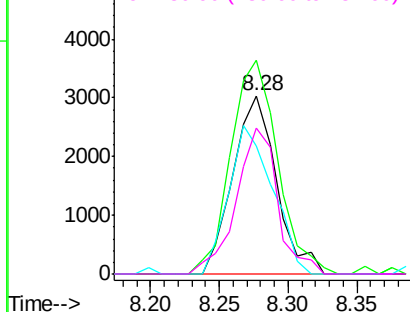


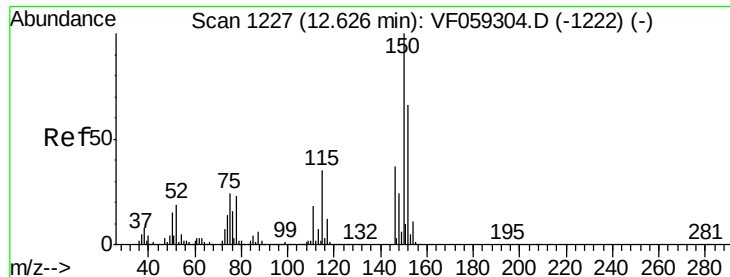
#64  
Tetrachloroethene  
Concen: 3.387 ug/l  
RT: 8.28 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Tgt Ion:164 Resp: 6698  
Ion Ratio Lower Upper  
164 100  
166 120.0 101.1 151.7  
129 71.8 75.0 112.4#  
131 82.4 73.3 109.9



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

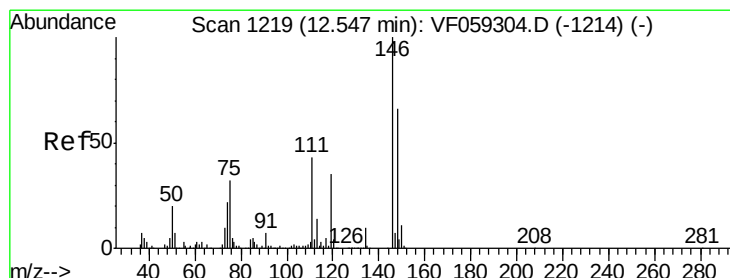
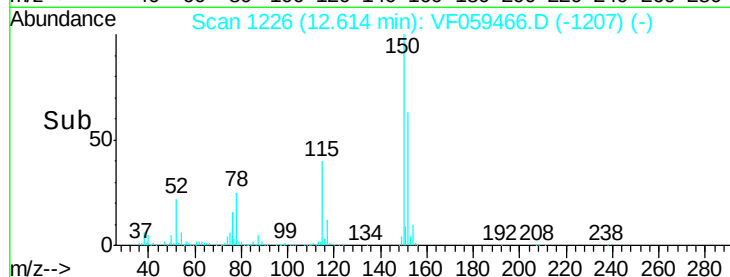
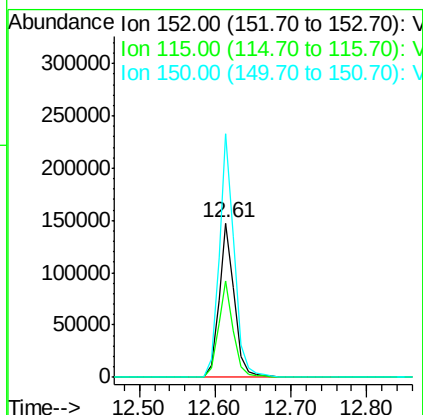
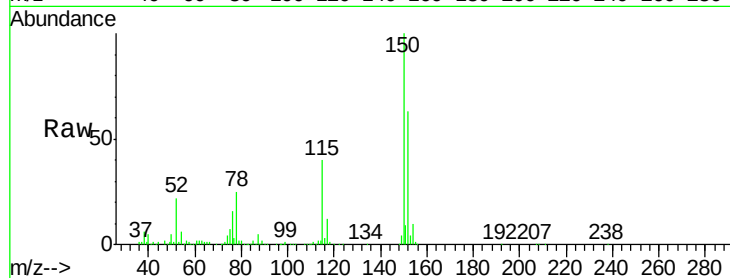




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.61 min Scan# 1226  
 Delta R.T. -0.01 min  
 Lab File: VF059466.D  
 Acq: 6 Jul 2018 22:52

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-12(7-7.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 62.6  | 27.1  | 81.3  |
| 150     | 157.5 | 0.0   | 305.2 |



#87  
 1,3-Dichlorobenzene  
 Concen: Below Cal  
 RT: 12.54 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: VF059466.D  
 Acq: 6 Jul 2018 22:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 21.4  | 64.2# |
| 148     | 69.4  | 32.8  | 98.4  |

