

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\  
 Data File : VF059326.D  
 Acq On : 26 Jun 2018 19:33  
 Operator : VA/AP  
 Sample : J3629-04  
 Misc : 4.81µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 A0C2-04

Quant Time: Jun 27 02:22:23 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

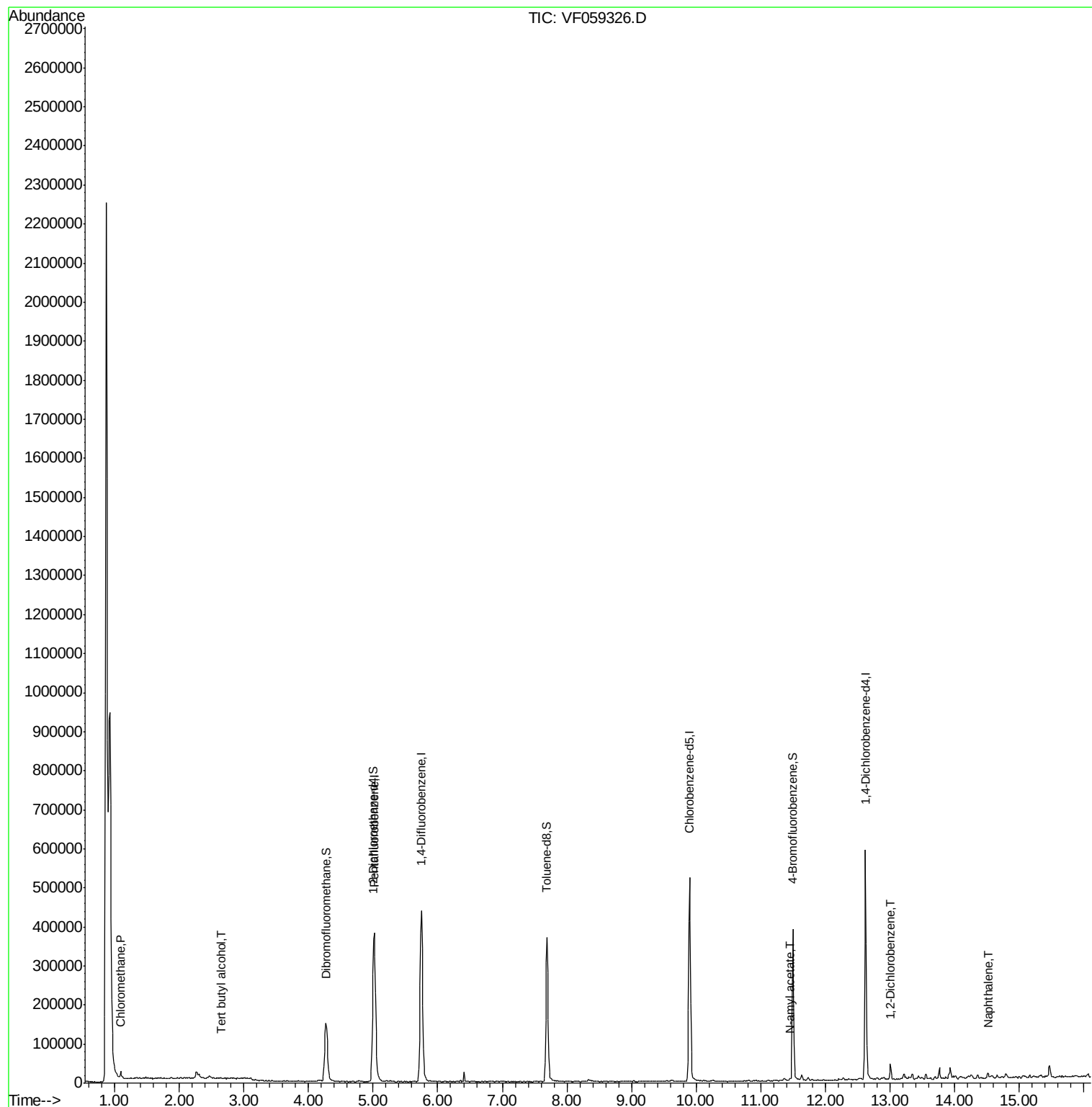
| Internal Standards          | R.T.  | QIon | Response | Conc         | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------------|--------|----------|
| 1) Pentafluorobenzene       | 5.02  | 168  | 301935   | 50.00        | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.75  | 114  | 469294   | 50.00        | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.90  | 117  | 366497   | 50.00        | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.62 | 152  | 145957   | 50.00        | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |              |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.00  | 65   | 136702   | 35.04        | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =            | 70.08% |          |
| 35) Dibromofluoromethane    | 4.27  | 113  | 140692   | 41.03        | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =            | 82.06% |          |
| 50) Toluene-d8              | 7.69  | 98   | 302048   | 35.58        | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =            | 71.16% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 133541   | 27.88        | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =            | 55.76% |          |
| Target Compounds            |       |      |          | Qvalue       |        |          |
| 3) Chloromethane            | 1.10  | 50   | 1863     | 1.005 ug/l # |        | 69       |
| 5) Bromomethane             | 1.31  | 94   | 257      | Below Cal #  |        | 73       |
| 11) Tert butyl alcohol      | 2.66  | 59   | 260      | 1.001 ug/l # |        | 66       |
| 13) Acrolein                | 2.01  | 56   | 312      | Below Cal    |        | 98       |
| 16) Acetone                 | 2.26  | 43   | 1228     | Below Cal    |        | 97       |
| 18) Methyl Acetate          | 2.33  | 43   | 1324     | Below Cal    |        | 93       |
| 20) Methylene Chloride      | 2.28  | 84   | 12036    | Below Cal #  |        | 71       |
| 25) 2-Butanone              | 4.50  | 43   | 831      | Below Cal #  |        | 59       |
| 28) Bromochloromethane      | 3.87  | 49   | 66       | Below Cal #  |        | 6        |
| 29) Tetrahydrofuran         | 4.25  | 42   | 743      | Below Cal #  |        | 84       |
| 37) Ethyl Acetate           | 4.28  | 43   | 216      | Below Cal #  |        | 26       |
| 49) 1,4-Dioxane             | 6.83  | 88   | 74       | Below Cal #  |        | 1        |
| 59) 2-Hexanone              | 9.61  | 43   | 3221     | Below Cal    |        | 92       |
| 74) N-amyl acetate          | 11.45 | 43   | 4185     | 1.356 ug/l # |        | 82       |
| 87) 1,3-Dichlorobenzene     | 12.55 | 146  | 1518     | Below Cal    |        | 92       |
| 91) 1,2-Dichlorobenzene     | 13.00 | 146  | 16219    | 3.787 ug/l   |        | 86       |
| 95) Naphthalene             | 14.51 | 128  | 7841     | 1.183 ug/l   |        | 96       |

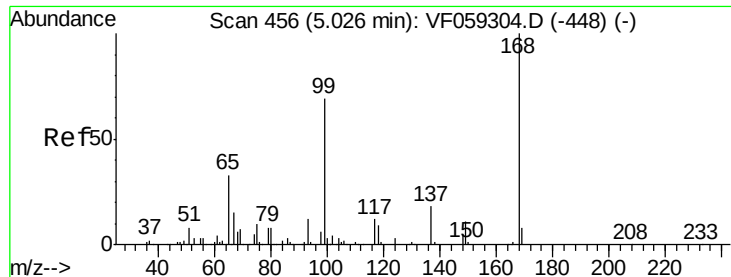
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062618\  
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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: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampleId :

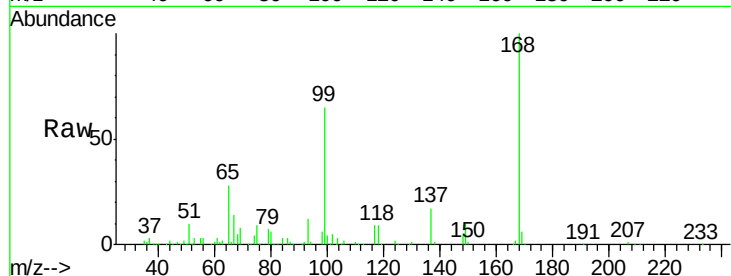
A0C2-04

Tot Ion:168 Resp: 301935

Ion Ratio Lower Upper

168 100

99 64.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

100000

80000

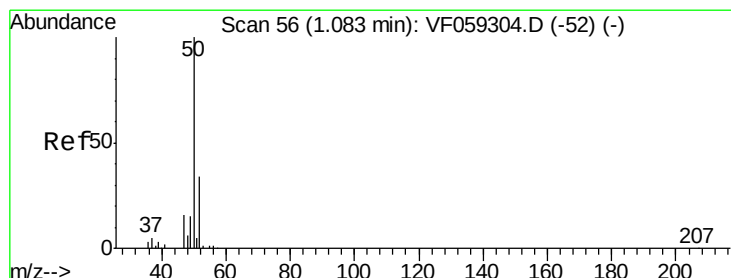
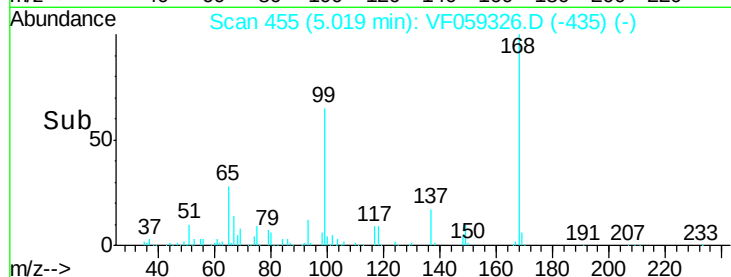
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 1.005 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059326.D

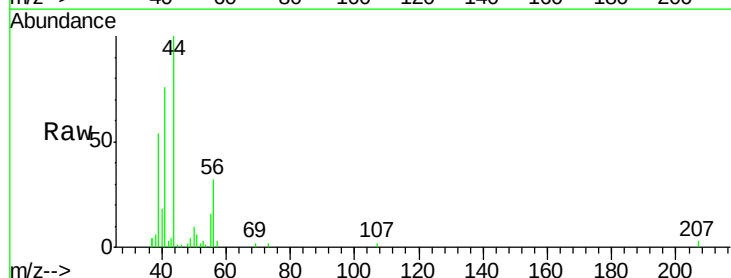
Acq: 26 Jun 2018 19:33

Tgt Ion: 50 Resp: 1863

Ion Ratio Lower Upper

50 100

52 15.7 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

1000

800

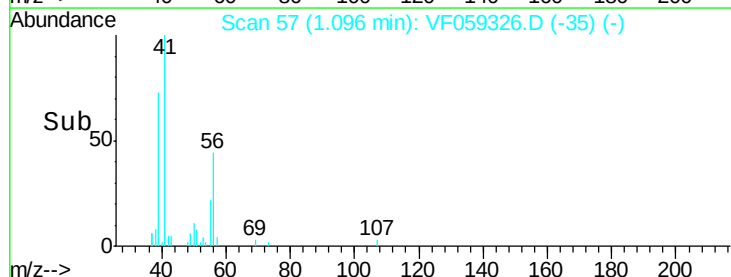
600

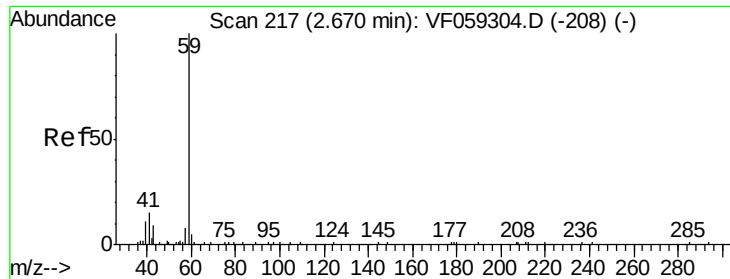
400

200

0

Time-->



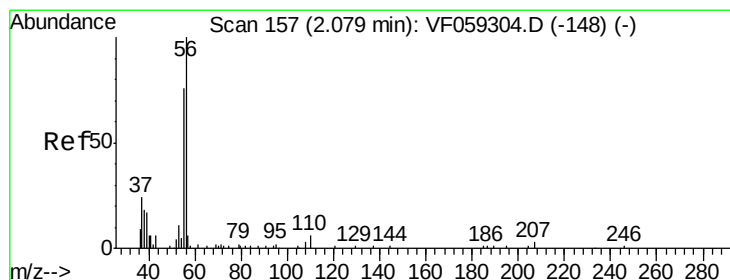
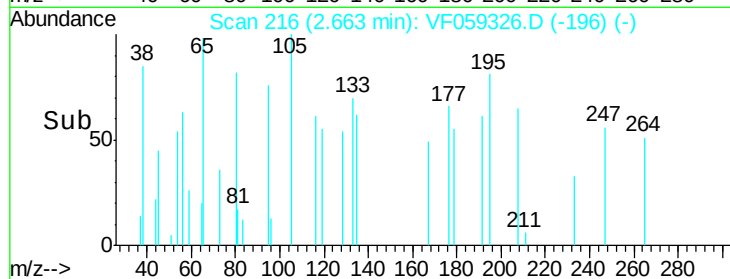
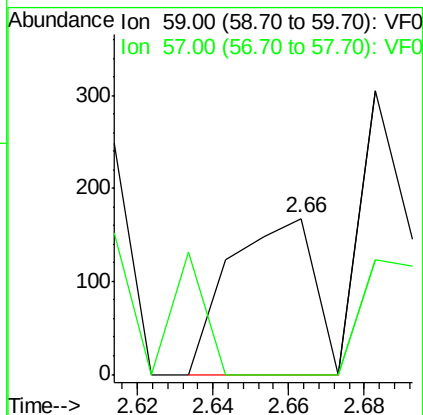
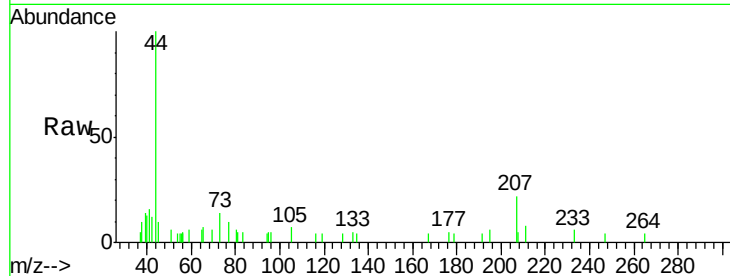


#11

Tert butyl alcohol  
 Concen: 1.001 ug/l  
 RT: 2.66 min Scan# 216  
 Delta R.T. -0.01 min  
 Lab File: VF059326.D  
 Acq: 26 Jun 2018 19:33

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 A0C2-04

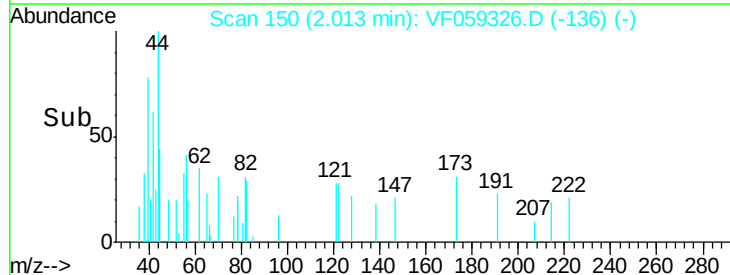
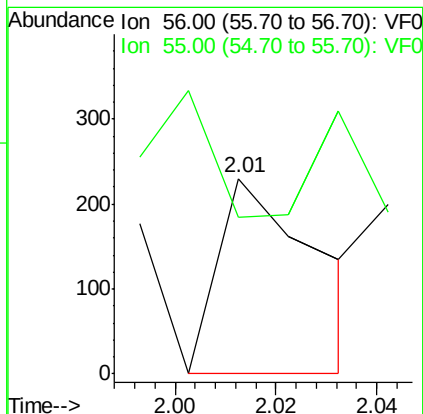
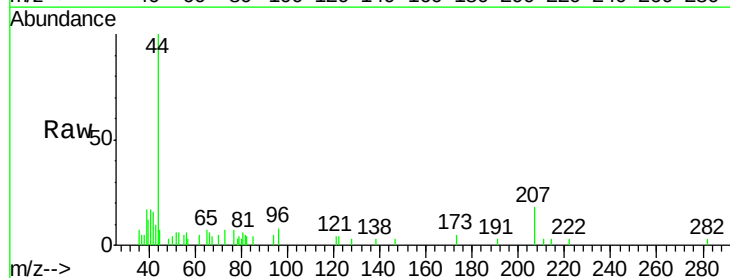
Tot Ion: 59 Resp: 260  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 11.0 16.4#

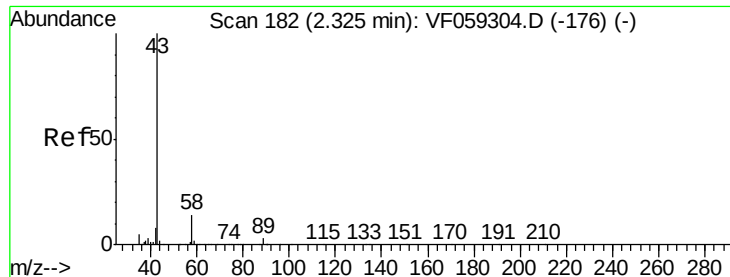


#13

Acrolein  
 Concen: Below Cal  
 RT: 2.01 min Scan# 150  
 Delta R.T. -0.07 min  
 Lab File: VF059326.D  
 Acq: 26 Jun 2018 19:33

Tgt Ion: 56 Resp: 312  
 Ion Ratio Lower Upper  
 56 100  
 55 80.0 62.4 93.6





#16

Acetone

Concen: Below Cal

RT: 2.26 min Scan# 175

Delta R.T. -0.07 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampleId :

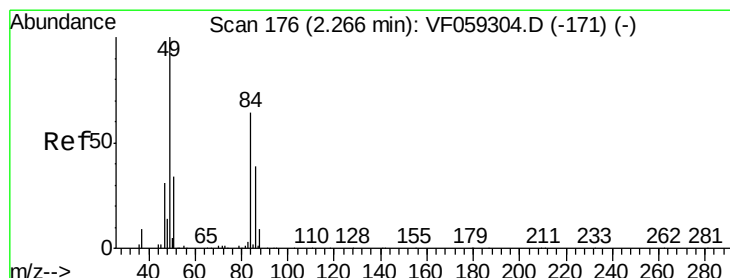
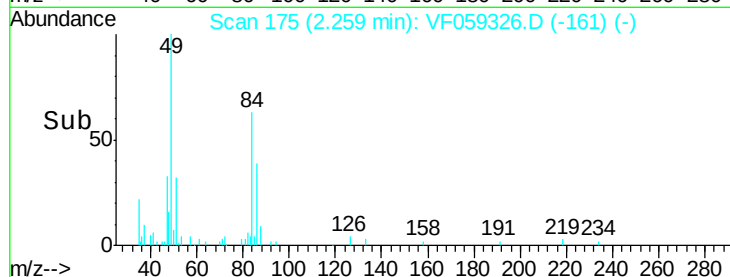
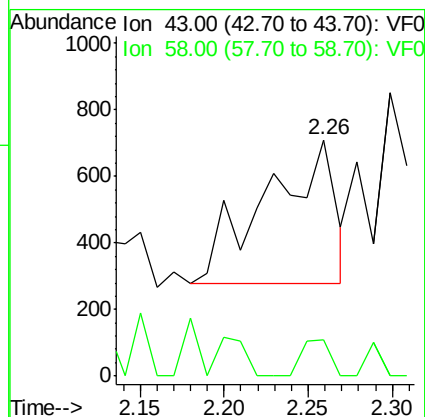
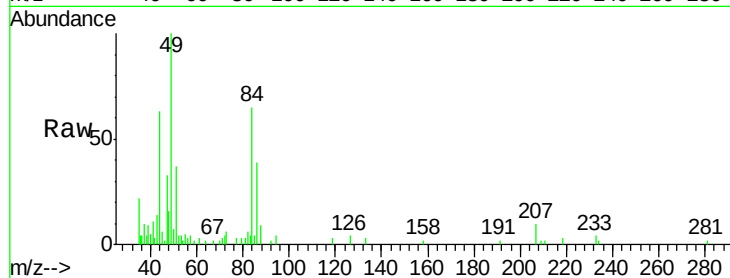
A0C2-04

Tot Ion: 43 Resp: 1228

Ion Ratio Lower Upper

43 100

58 15.5 11.4 17.0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.28 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Tgt Ion: 84 Resp: 12036

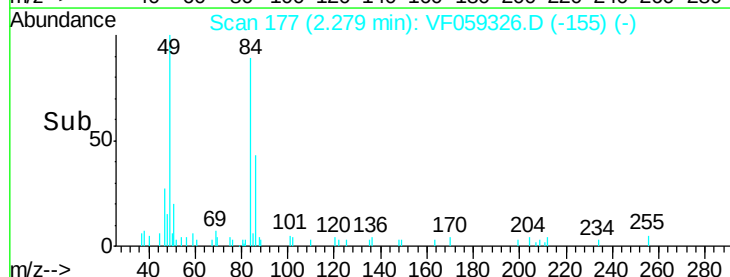
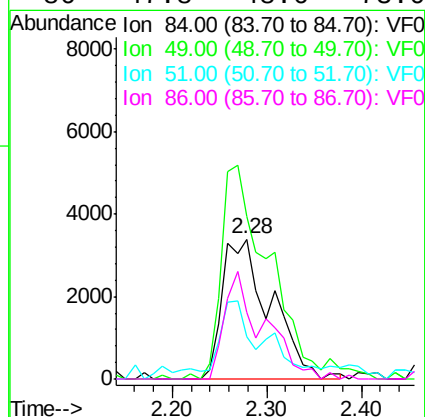
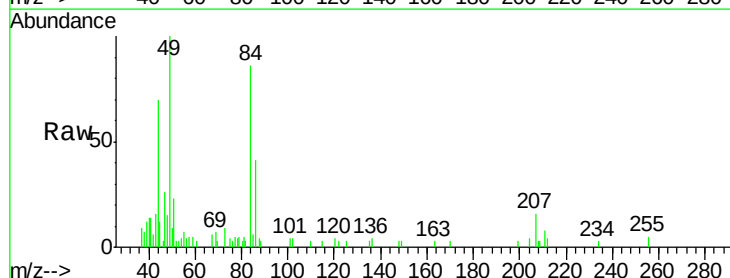
Ion Ratio Lower Upper

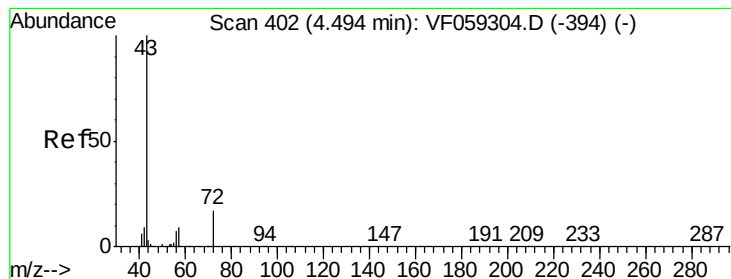
84 100

49 116.5 126.5 189.7#

51 30.5 42.9 64.3#

86 47.8 48.6 73.0#





#25

2-Butanone

Concen: Below Cal

RT: 4.50 min Scan# 402

Delta R.T. 0.00 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampleId :

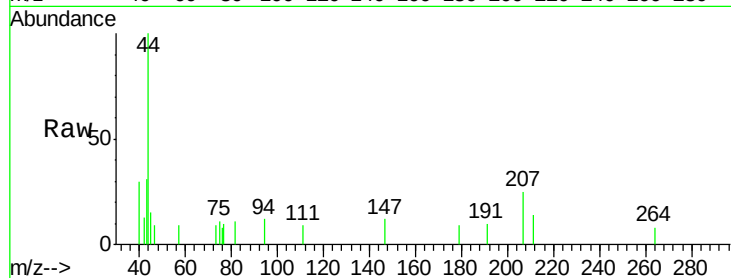
A0C2-04

Tot Ion: 43 Resp: 831

Ion Ratio Lower Upper

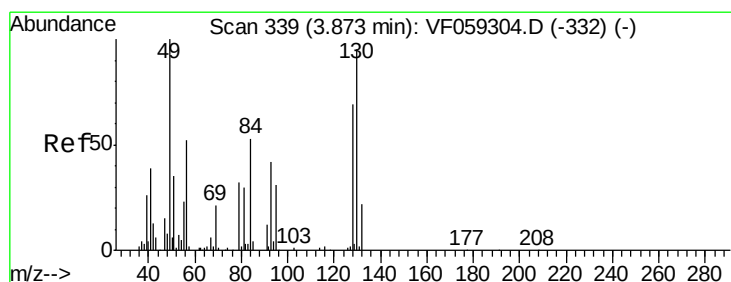
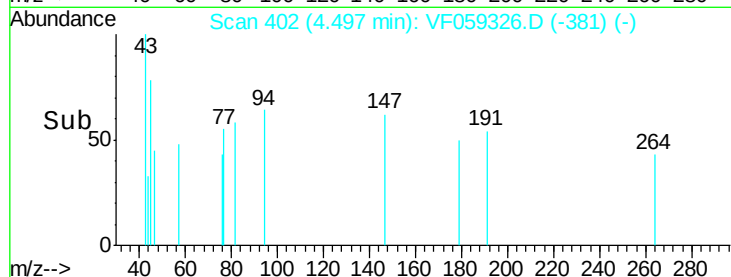
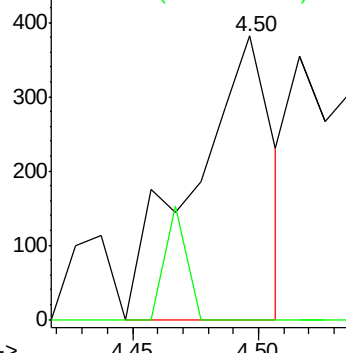
43 100

72 0.0 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 338

Delta R.T. -0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

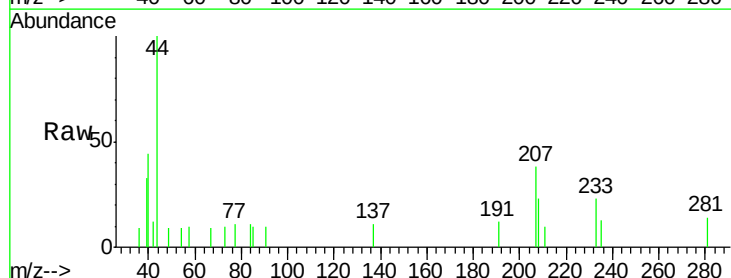
Tgt Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

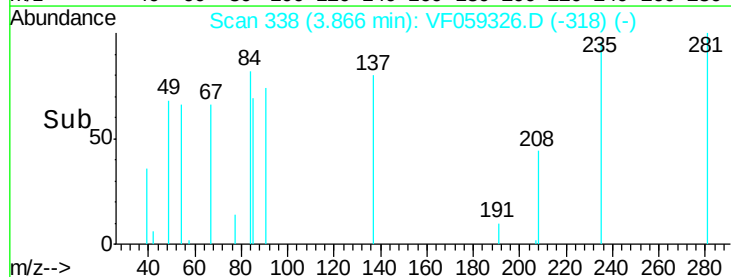
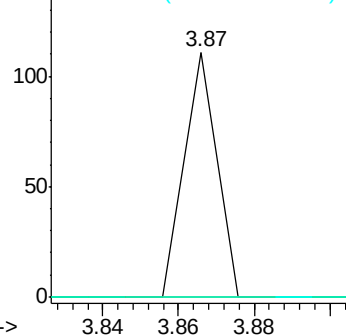
130 0.0 75.1 112.7#

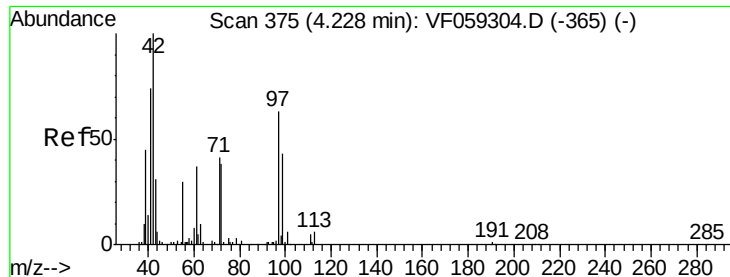


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampleId :

A0C2-04

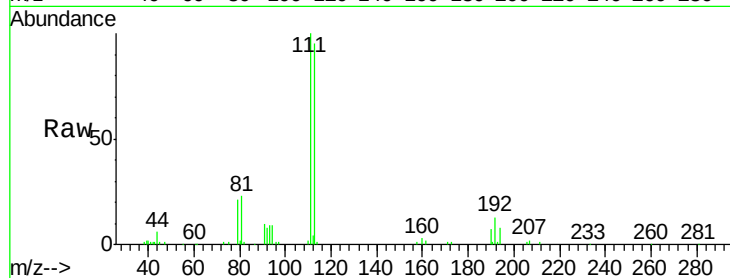
Tot Ion: 42 Resp: 743

Ion Ratio Lower Upper

42 100

72 33.2 30.5 45.7

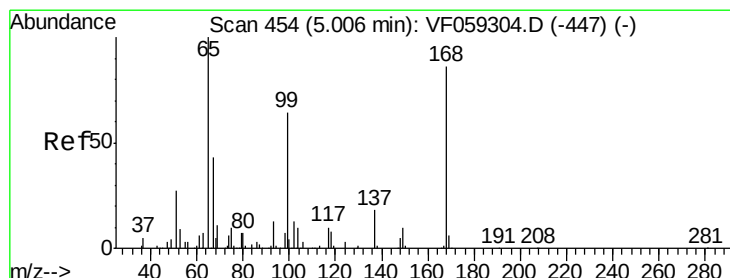
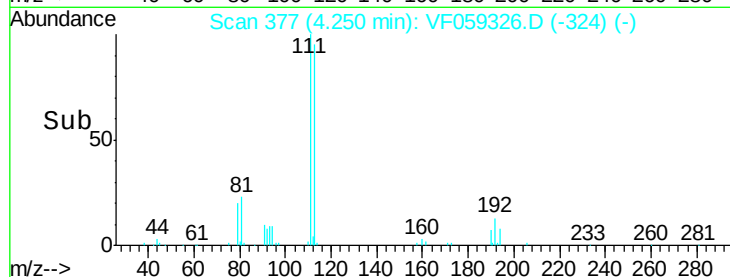
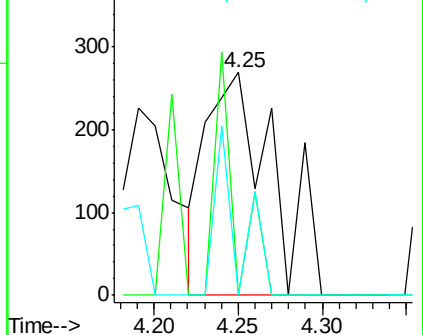
71 26.4 32.5 48.7#



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: 35.043 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059326.D

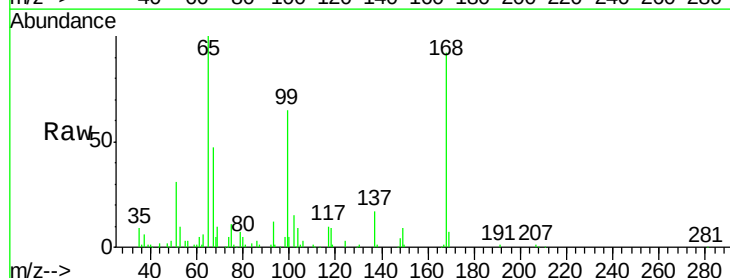
Acq: 26 Jun 2018 19:33

Tgt Ion: 65 Resp: 136702

Ion Ratio Lower Upper

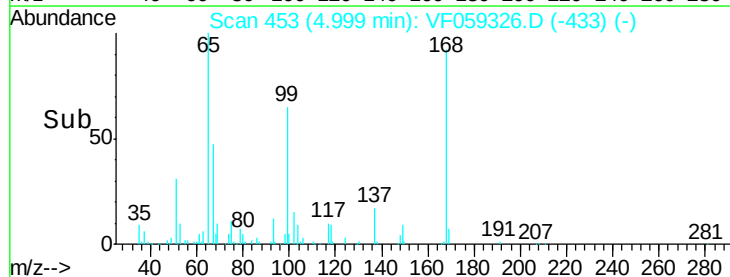
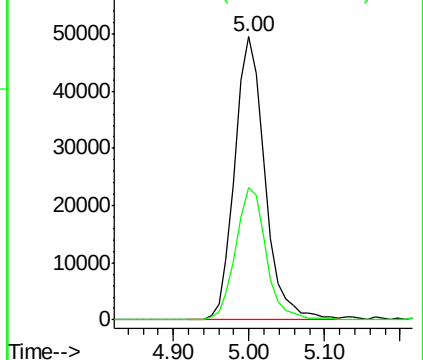
65 100

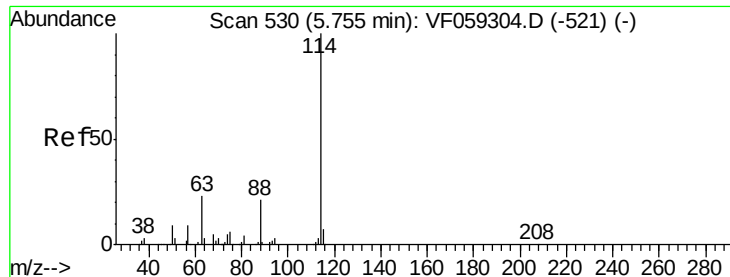
67 46.9 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

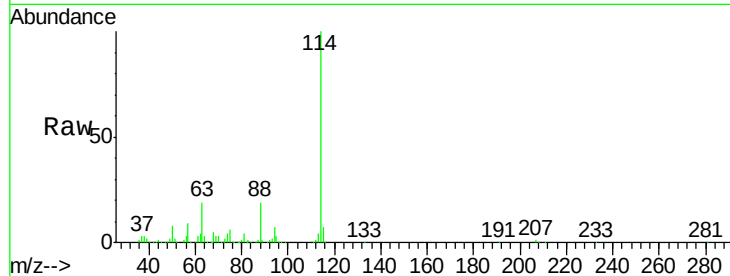




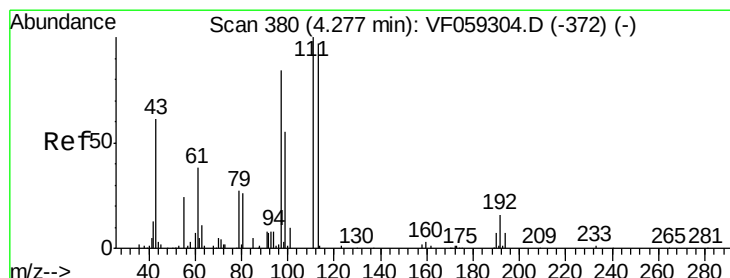
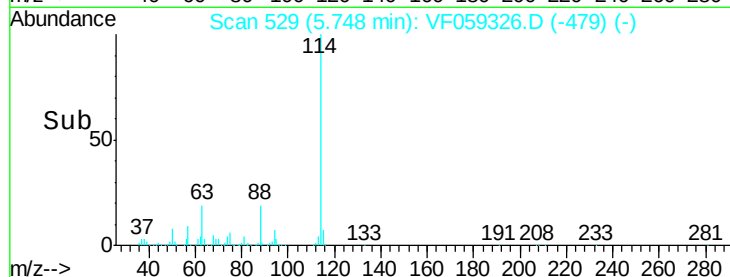
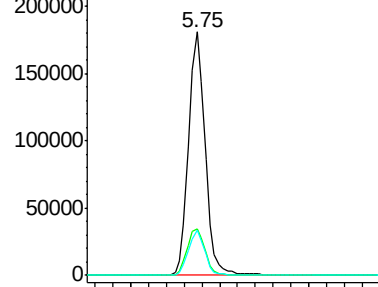
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.75 min Scan# 529  
Delta R.T. -0.01 min  
Lab File: VF059326.D  
Acq: 26 Jun 2018 19:33

Instrument :  
MSVOA\_F  
ClientSampleId :  
A0C2-04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.1  | 0.0   | 45.8  |
| 88      | 18.7  | 0.0   | 41.2  |

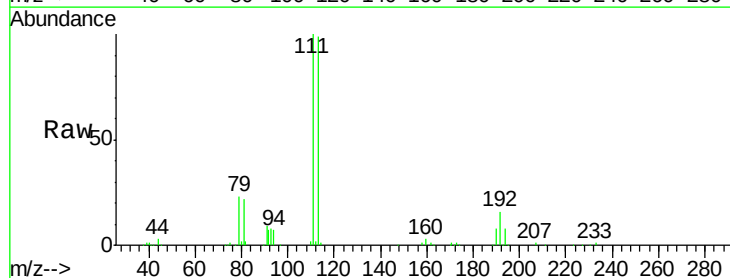


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 63.00 (62.70 to 63.70): VF0  
Ion 88.00 (87.70 to 88.70): VF0

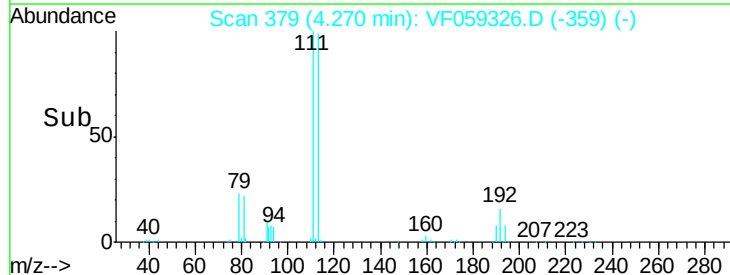
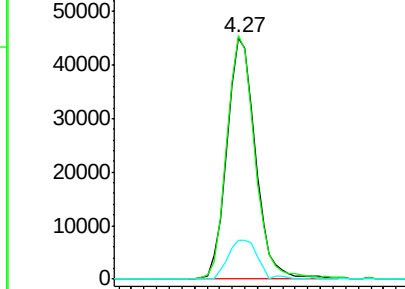


#35  
Dibromofluoromethane  
Concen: 41.030 ug/l  
RT: 4.27 min Scan# 379  
Delta R.T. -0.01 min  
Lab File: VF059326.D  
Acq: 26 Jun 2018 19:33

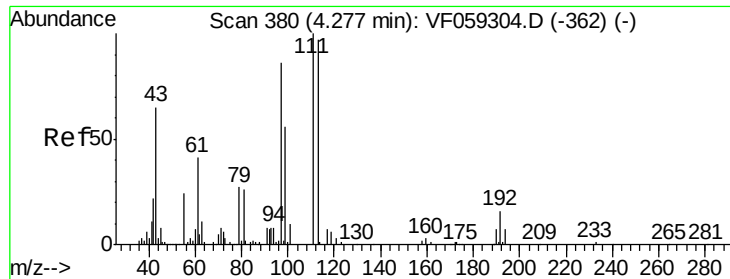
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.7 | 82.1  | 123.1 |
| 192     | 16.0  | 13.0  | 19.6  |



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



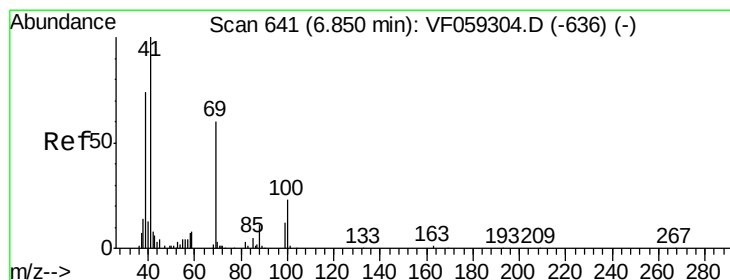
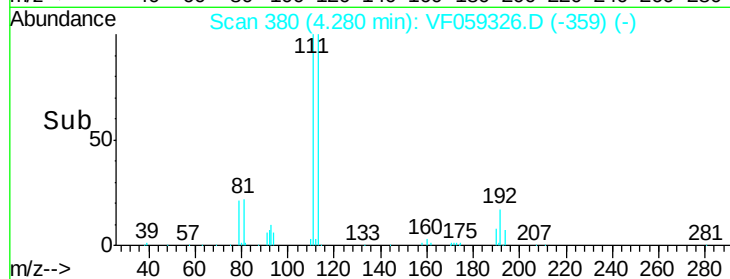
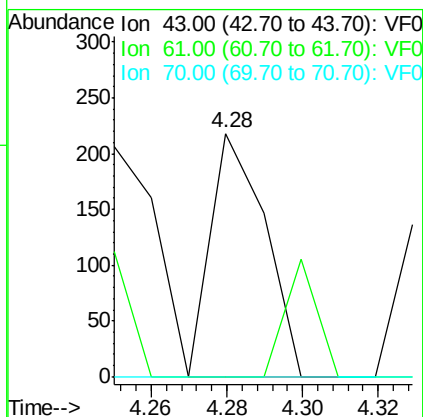
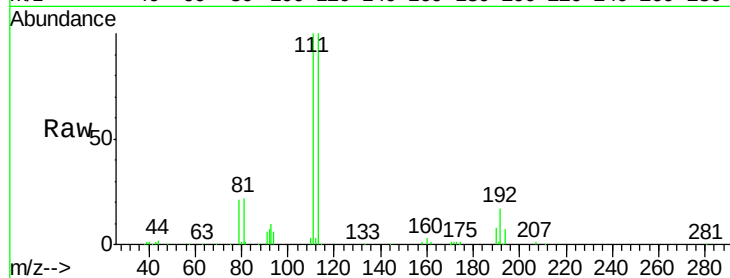




#37  
Ethyl Acetate  
Concen: Below Cal  
RT: 4.28 min Scan# 380  
Delta R.T. 0.00 min  
Lab File: VF059326.D  
Acq: 26 Jun 2018 19:33

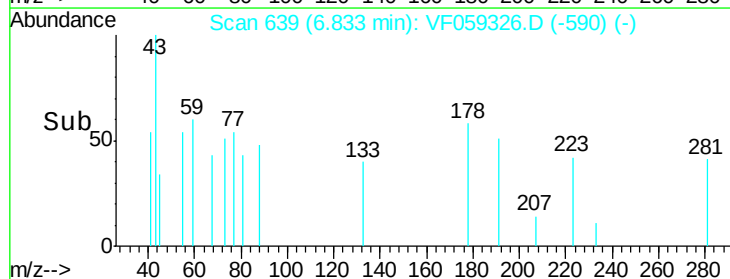
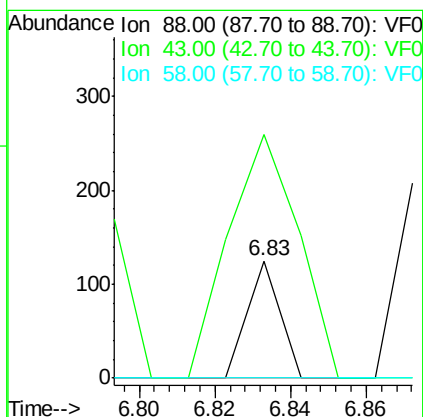
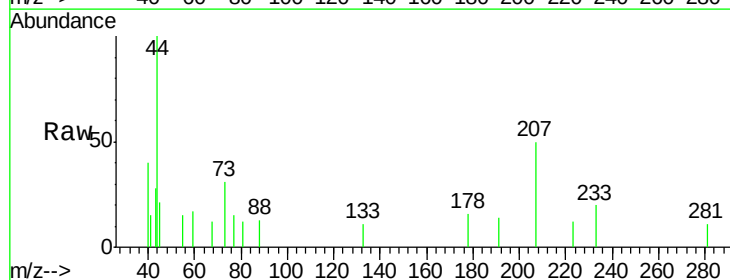
Instrument :  
MSVOA\_F  
ClientSampled :  
A0C2-04

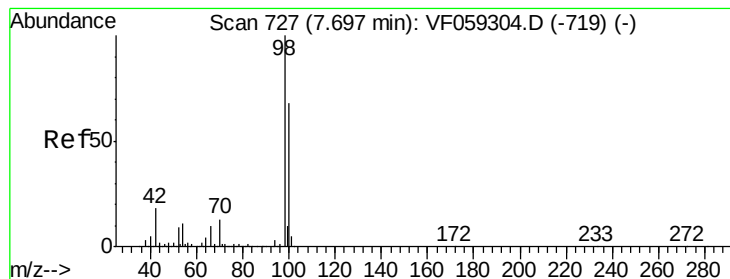
Tot Ion: 43 Resp: 216  
Ion Ratio Lower Upper  
43 100  
61 0.0 50.1 75.1#  
70 0.0 6.2 9.4#



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 6.83 min Scan# 639  
Delta R.T. -0.02 min  
Lab File: VF059326.D  
Acq: 26 Jun 2018 19:33

Tgt Ion: 88 Resp: 74  
Ion Ratio Lower Upper  
88 100  
43 207.2 50.6 75.8#  
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 35.578 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampled :

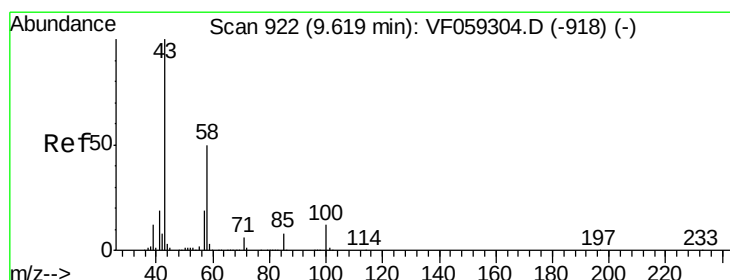
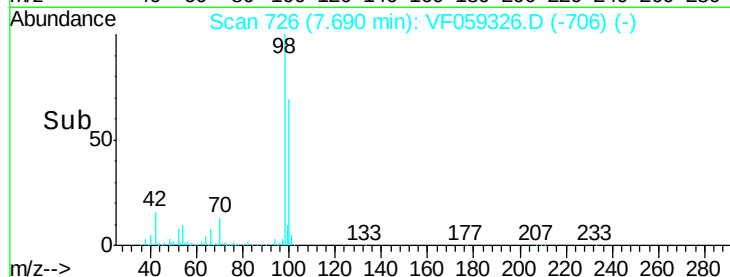
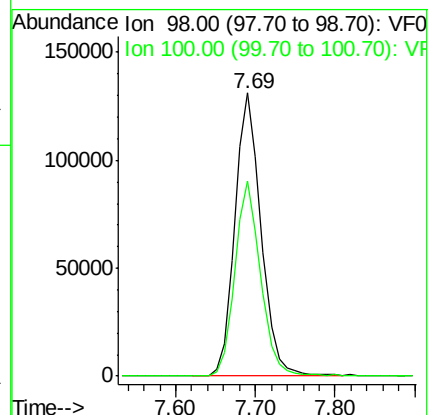
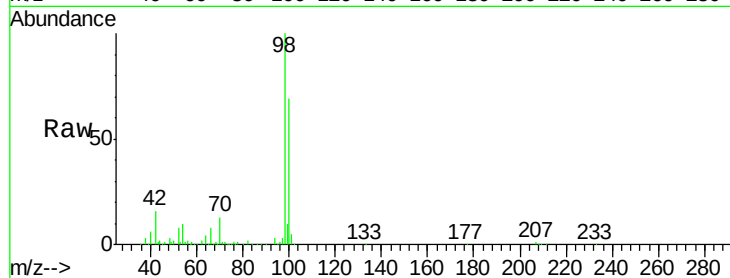
A0C2-04

Tot Ion: 98 Resp: 302048

Ion Ratio Lower Upper

98 100

100 68.9 54.6 82.0



#59

2-Hexanone

Concen: Below Cal

RT: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VF059326.D

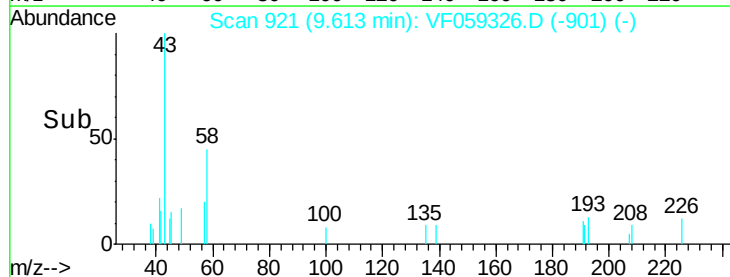
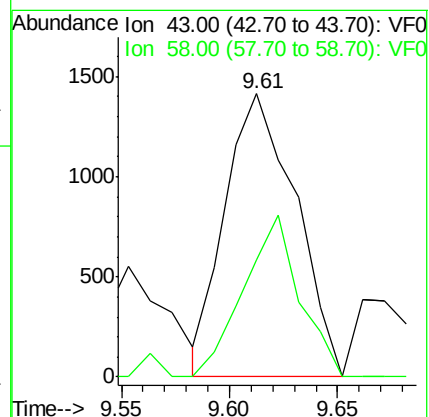
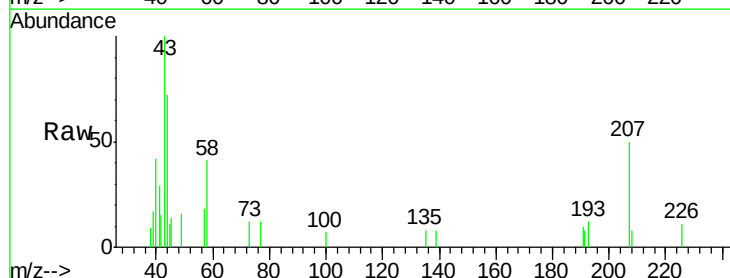
Acq: 26 Jun 2018 19:33

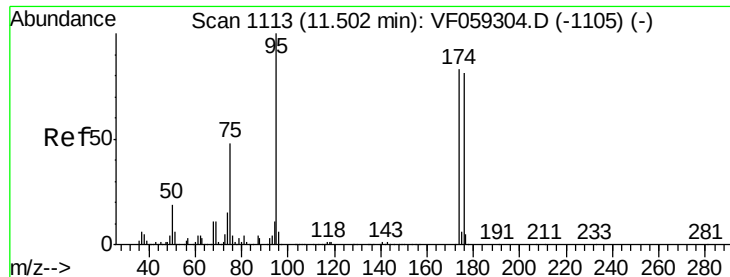
Tgt Ion: 43 Resp: 3221

Ion Ratio Lower Upper

43 100

58 41.2 23.3 69.9





#62

4-Bromofluorobenzene

Concen: 27.885 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampleId :

A0C2-04

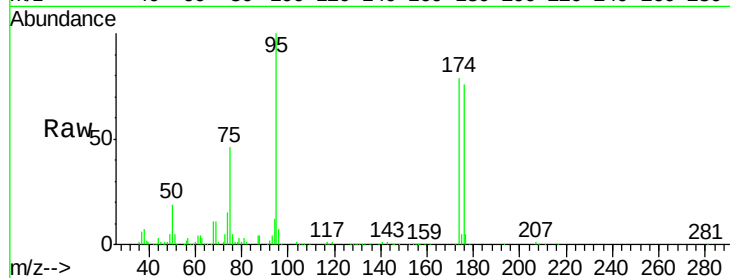
Tot Ion: 95 Resp: 133541

Ion Ratio Lower Upper

95 100

174 78.7 0.0 165.2

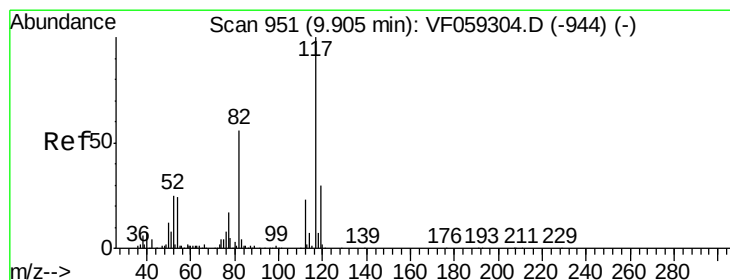
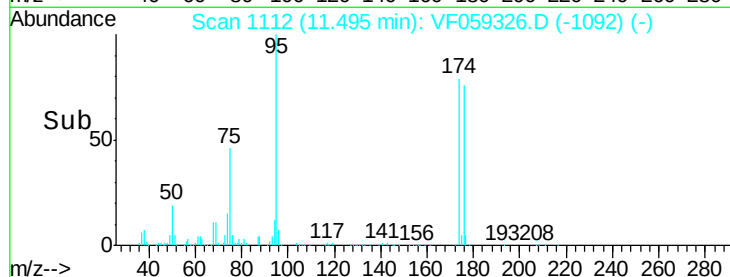
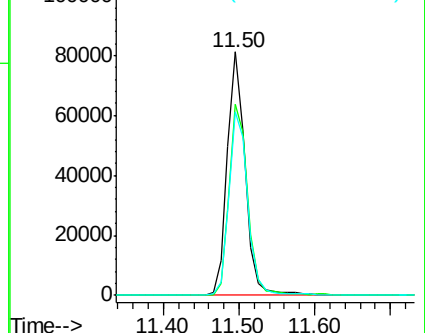
176 75.6 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

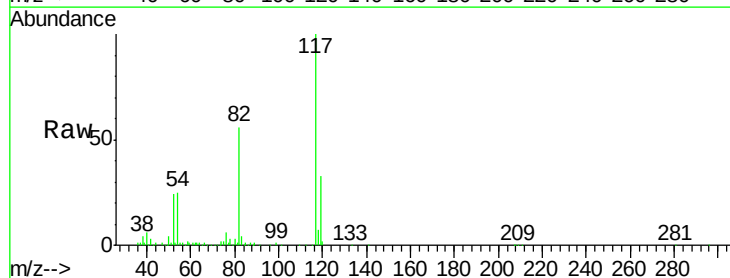
Tgt Ion: 117 Resp: 366497

Ion Ratio Lower Upper

117 100

82 55.7 44.6 66.8

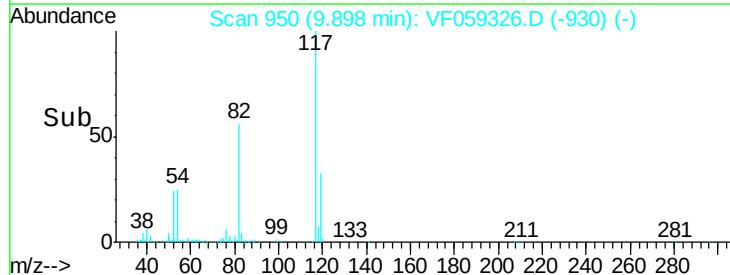
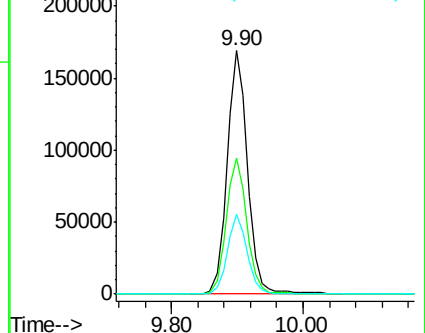
119 32.6 24.1 36.1

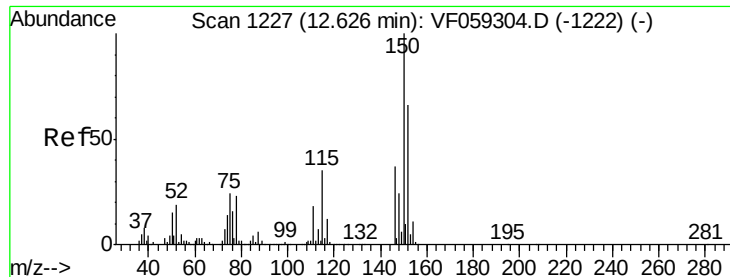


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



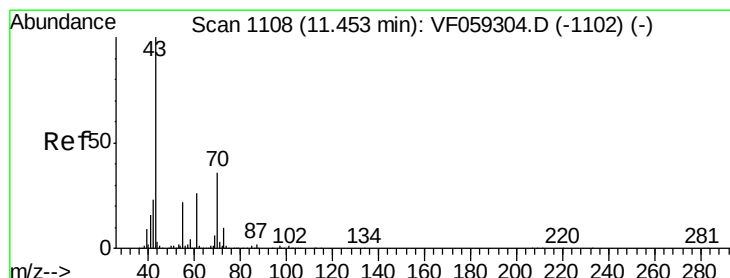
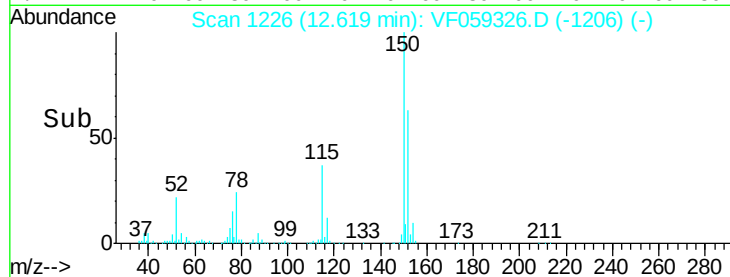
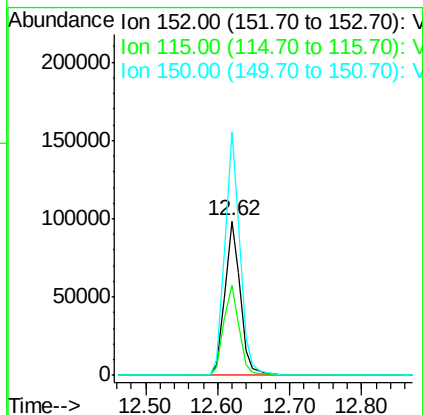
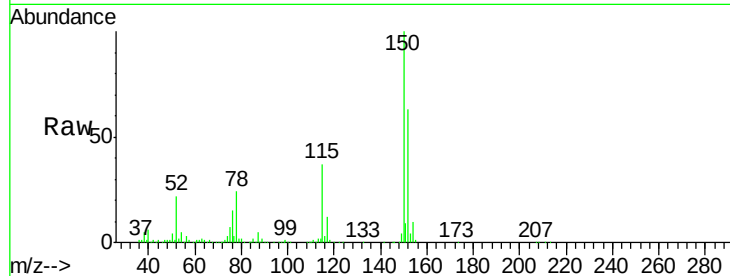


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.62 min Scan# 1226  
Delta R.T. -0.01 min  
Lab File: VF059326.D  
Acq: 26 Jun 2018 19:33

Instrument :  
MSVOA\_F  
ClientSampleId :  
A0C2-04

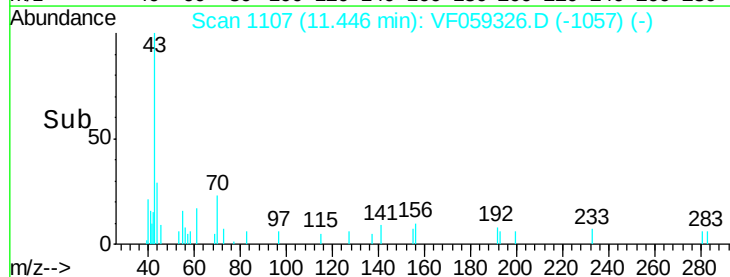
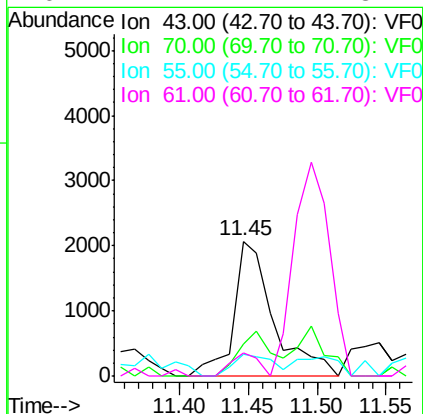
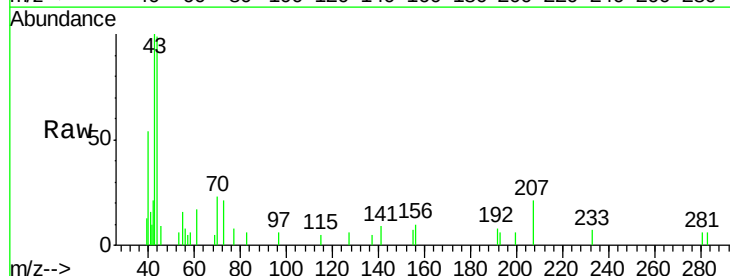
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.5  | 27.1  | 81.3  |
| 150     | 158.1 | 0.0   | 305.2 |

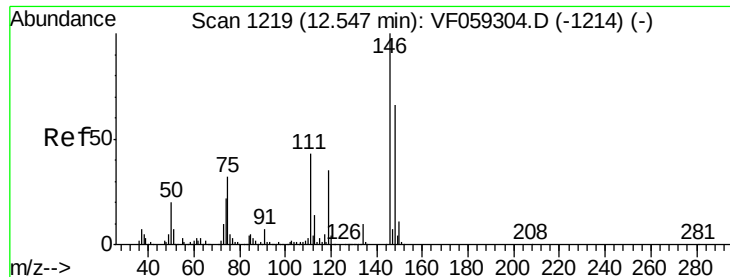


#74

N-amil acetate  
Concen: 1.356 ug/l  
RT: 11.45 min Scan# 1107  
Delta R.T. -0.01 min  
Lab File: VF059326.D  
Acq: 26 Jun 2018 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 70      | 23.4  | 28.8  | 43.2# |
| 55      | 16.4  | 17.4  | 26.0# |
| 61      | 17.2  | 21.1  | 31.7# |

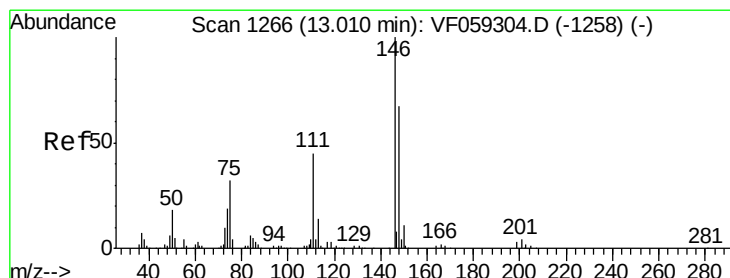
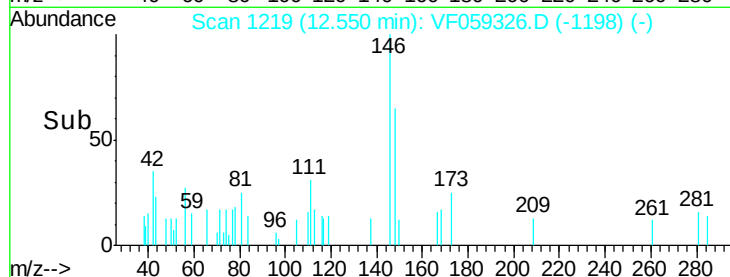
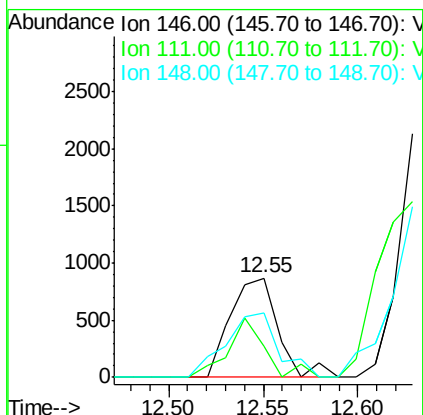
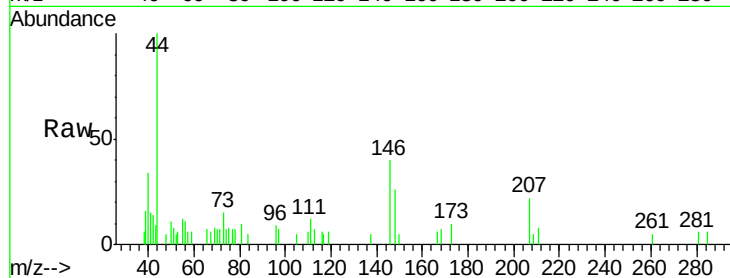




#87  
 1,3-Dichlorobenzene  
 Concen: Below Cal  
 RT: 12.55 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VF059326.D  
 Acq: 26 Jun 2018 19:33

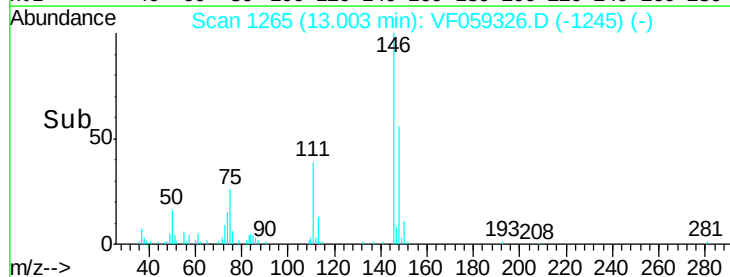
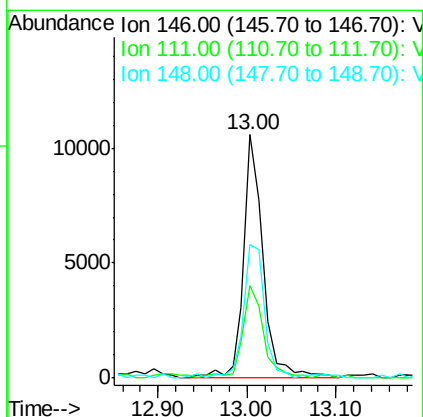
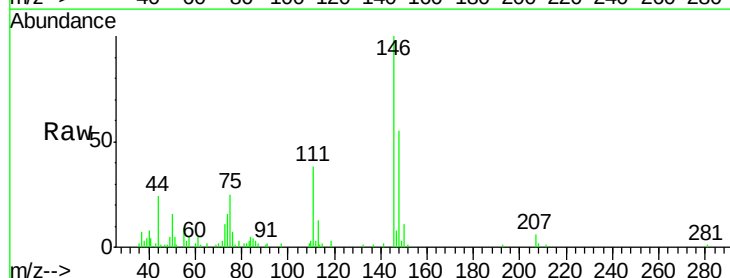
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 A0C2-04

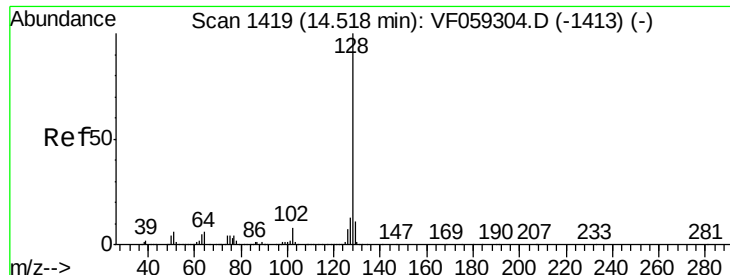
Tot Ion:146 Resp: 1518  
 Ion Ratio Lower Upper  
 146 100  
 111 30.8 21.4 64.2  
 148 64.9 32.8 98.4



#91  
 1,2-Dichlorobenzene  
 Concen: 3.787 ug/l  
 RT: 13.00 min Scan# 1265  
 Delta R.T. -0.01 min  
 Lab File: VF059326.D  
 Acq: 26 Jun 2018 19:33

Tgt Ion:146 Resp: 16219  
 Ion Ratio Lower Upper  
 146 100  
 111 38.0 22.7 68.0  
 148 54.6 33.5 100.4





#95

Naphthalene

Concen: 1.183 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VF059326.D

Acq: 26 Jun 2018 19:33

Instrument :

MSVOA\_F

ClientSampleId :

A0C2-04

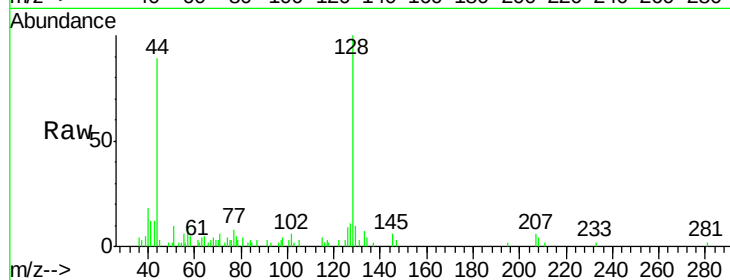
Tot Ion:128 Resp: 7841

Ion Ratio Lower Upper

128 100

127 10.7 10.1 15.1

129 9.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

