

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF021819\  
 Data File : VF061685.D  
 Acq On : 18 Feb 2019 18:24  
 Operator : VA/AP  
 Sample : K1525-03  
 Misc : 5.32g/5mL/MSVOA-F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 M-14-S

Quant Time: Feb 19 01:58:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 03:27:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 348721   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 534427   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 431886   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 219587   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.84  | 65   | 112112   | 43.84 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.68% |          |
| 35) Dibromofluoromethane    | 4.11  | 113  | 174226   | 43.90 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.80% |          |
| 50) Toluene-d8              | 7.54  | 98   | 446417   | 39.13 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 78.26% |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 173309   | 37.54 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 75.08% |          |

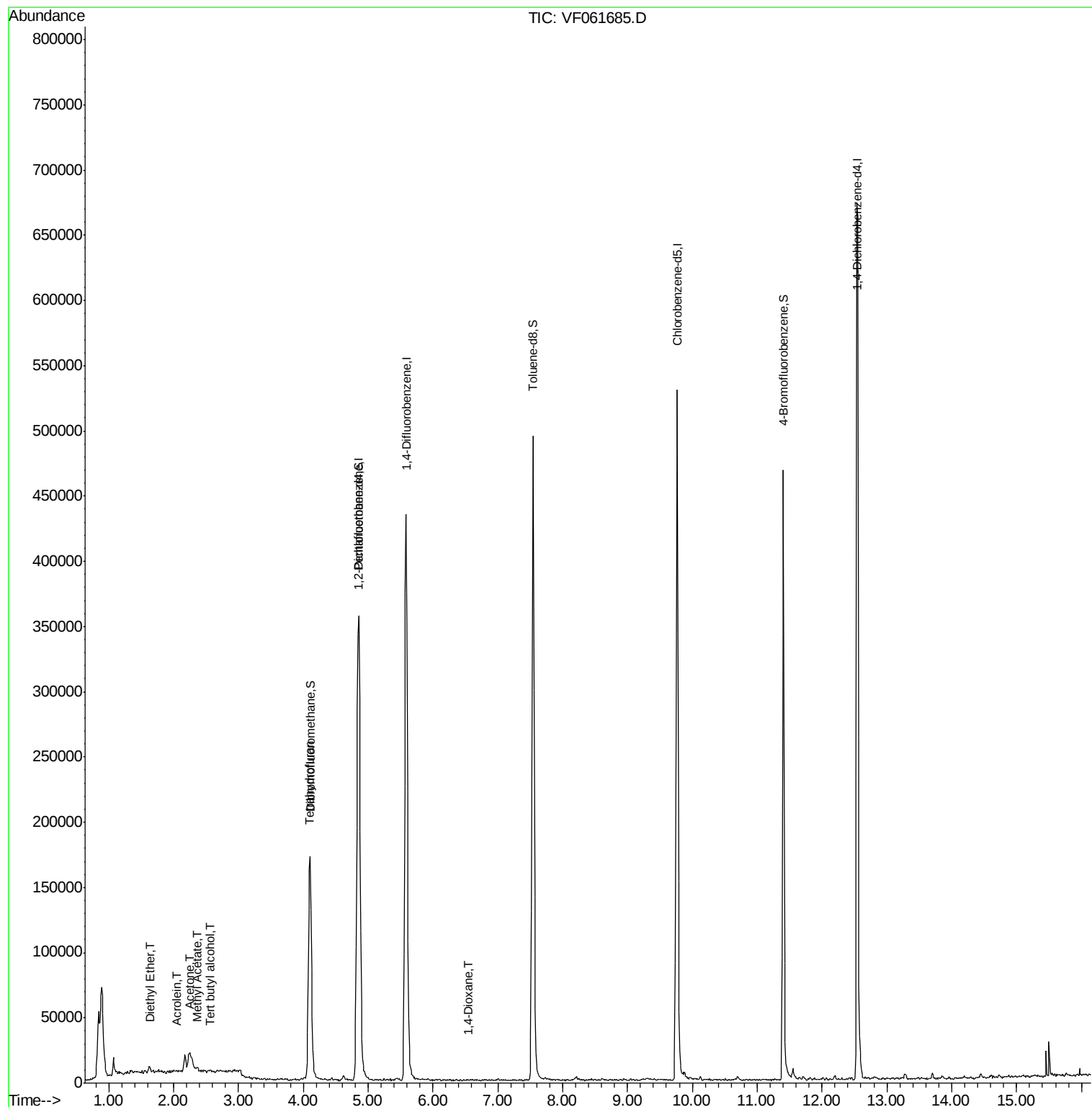
| Target Compounds       | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|------------------------|------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether       | 1.63 | 74   | 2282     | 1.922     | ug/l   | 67     |
| 11) Tert butyl alcohol | 2.58 | 59   | 153      | 1.034     | ug/l # | 63     |
| 13) Acrolein           | 2.06 | 56   | 611      | 3.285     | ug/l   | 91     |
| 16) Acetone            | 2.23 | 43   | 9370     | 17.078    | ug/l   | 89     |
| 18) Methyl Acetate     | 2.36 | 43   | 2232     | 1.806     | ug/l # | 59     |
| 20) Methylene Chloride | 2.17 | 84   | 6421     | Below Cal | #      | 85     |
| 29) Tetrahydrofuran    | 4.09 | 42   | 754      | 1.384     | ug/l # | 49     |
| 49) 1,4-Dioxane        | 6.54 | 88   | 63       | 3.826     | ug/l # | 6      |

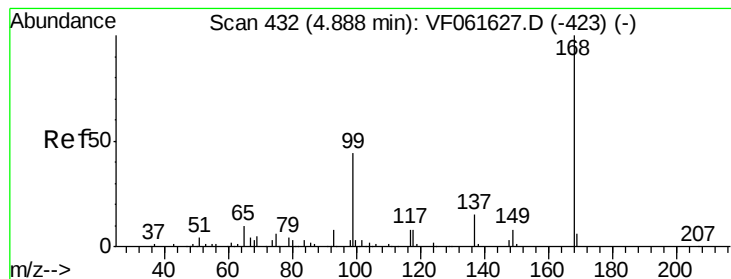
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF021819\  
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M-14-S

Quant Time: Feb 19 01:58:43 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:27:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

Instrument :

MSVOA\_F

ClientSampleId :

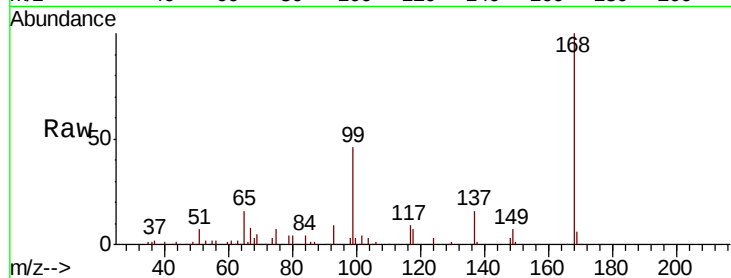
M-14-S

Tgt Ion:168 Resp: 348721

Ion Ratio Lower Upper

168 100

99 46.4 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

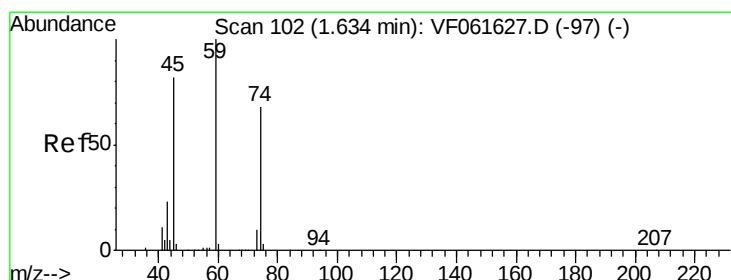
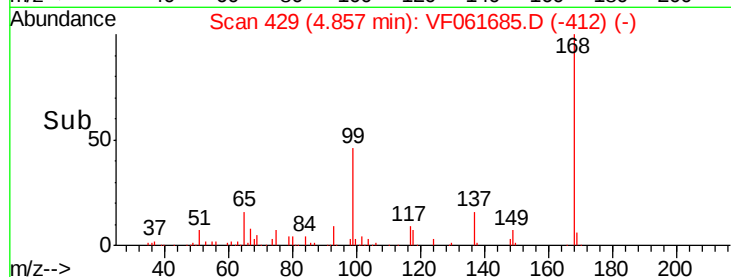
4.86

100000

50000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.922 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061685.D

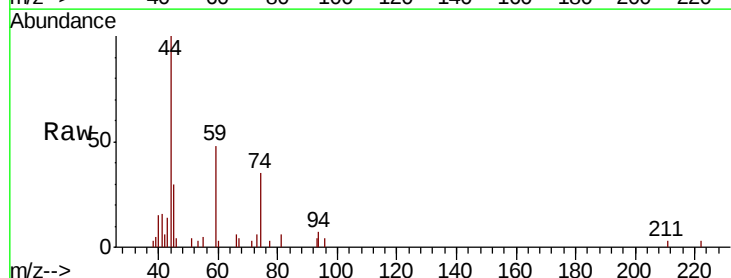
Acq: 18 Feb 2019 18:24

Tgt Ion: 74 Resp: 2282

Ion Ratio Lower Upper

74 100

45 85.0 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

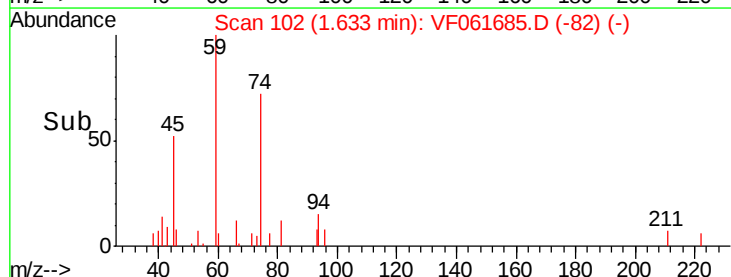
1500

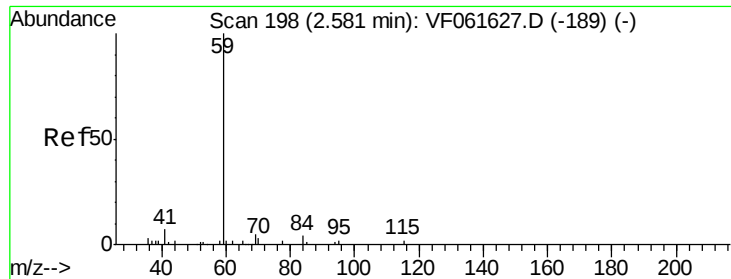
1000

500

0

Time--> 1.55 1.60 1.65 1.70

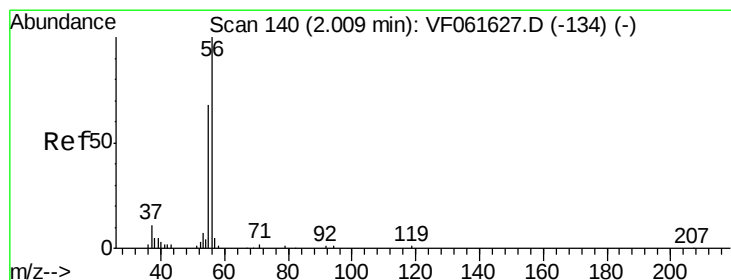
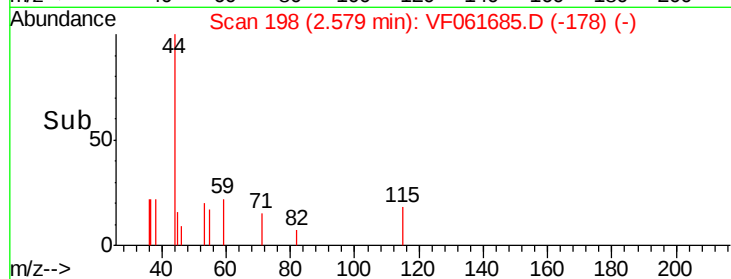
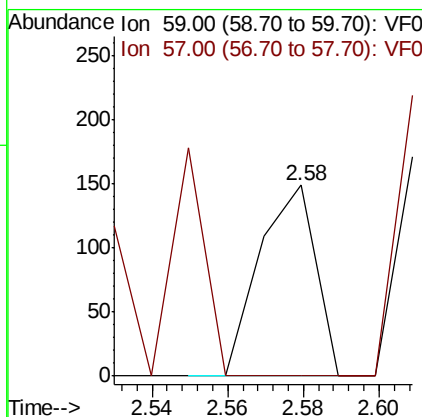
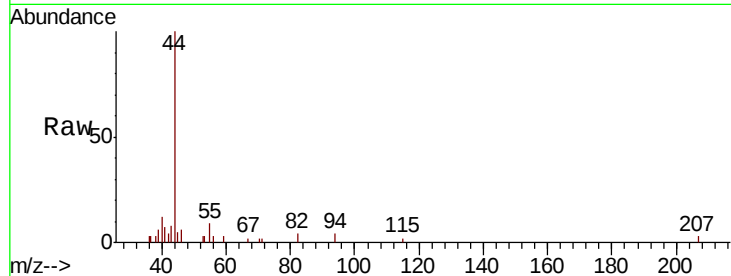




#11  
Tert butyl alcohol  
Concen: 1.034 ug/l  
RT: 2.58 min Scan# 198  
Delta R.T. -0.00 min  
Lab File: VF061685.D  
Acq: 18 Feb 2019 18:24

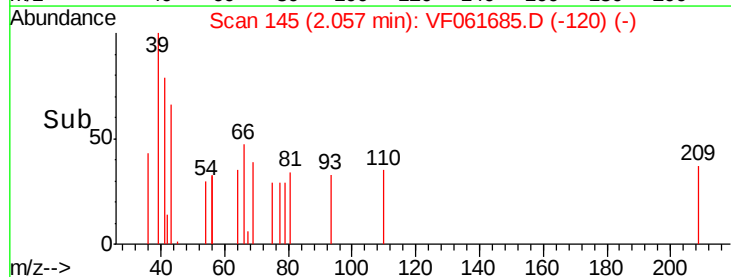
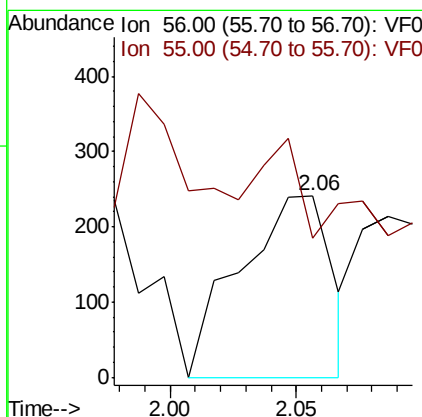
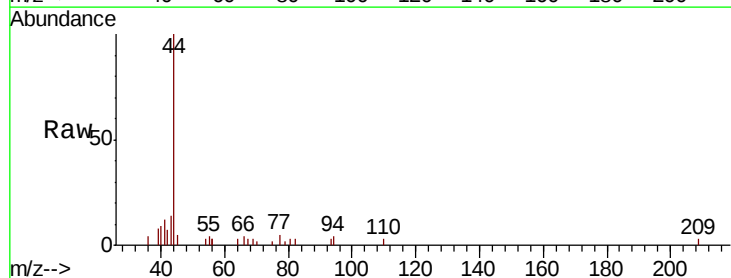
Instrument :  
MSVOA\_F  
ClientSampleId :  
M-14-S

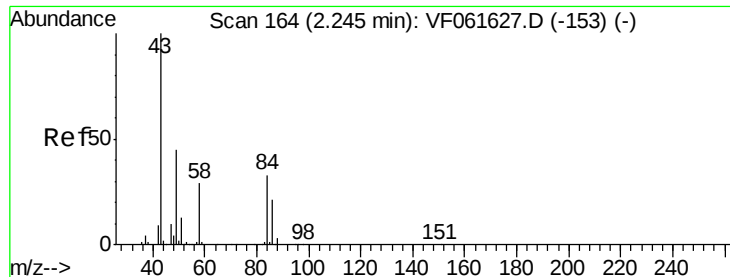
Tgt Ion: 59 Resp: 153  
Ion Ratio Lower Upper  
59 100  
57 0.0 12.5 18.7#



#13  
Acrolein  
Concen: 3.285 ug/l  
RT: 2.06 min Scan# 145  
Delta R.T. 0.05 min  
Lab File: VF061685.D  
Acq: 18 Feb 2019 18:24

Tgt Ion: 56 Resp: 611  
Ion Ratio Lower Upper  
56 100  
55 76.3 55.0 82.6

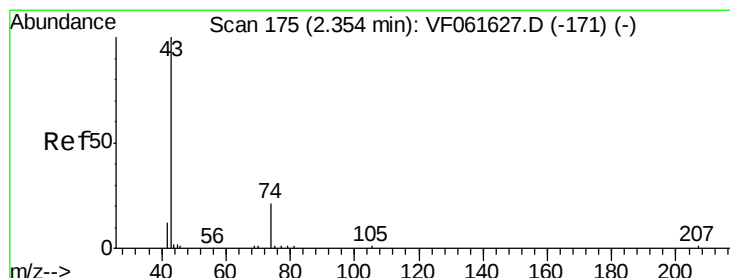
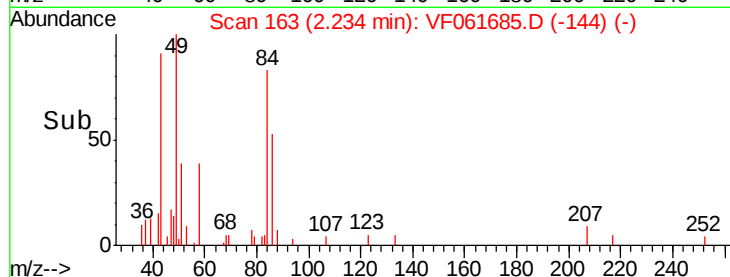
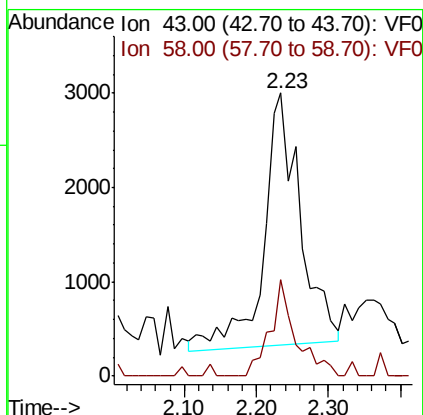
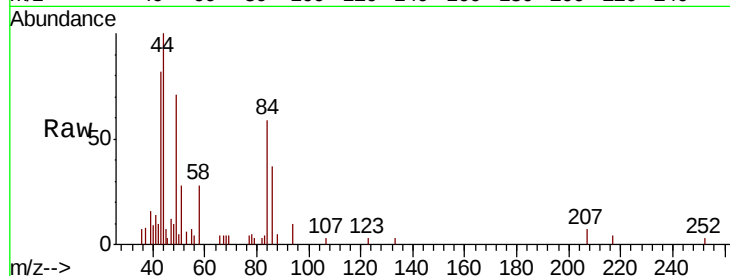




#16  
Acetone  
Concen: 17.078 ug/l  
RT: 2.23 min Scan# 163  
Delta R.T. -0.01 min  
Lab File: VF061685.D  
Acq: 18 Feb 2019 18:24

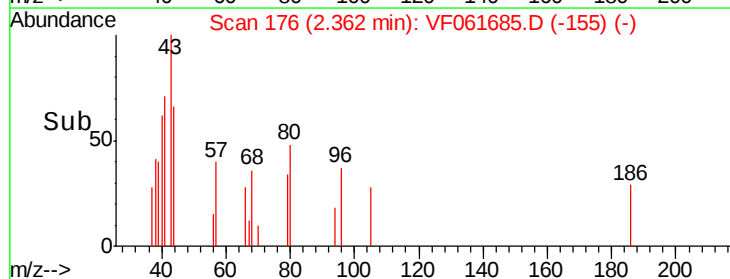
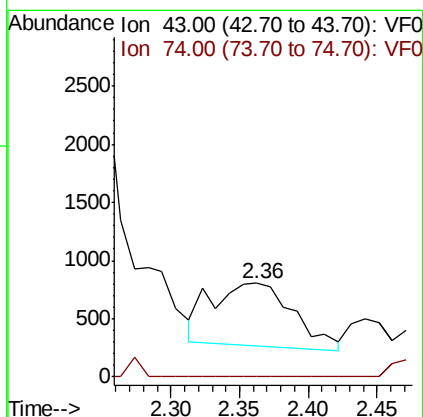
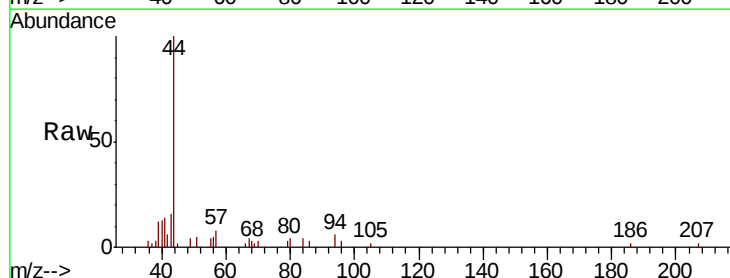
Instrument :  
MSVOA\_F  
ClientSampleId :  
M-14-S

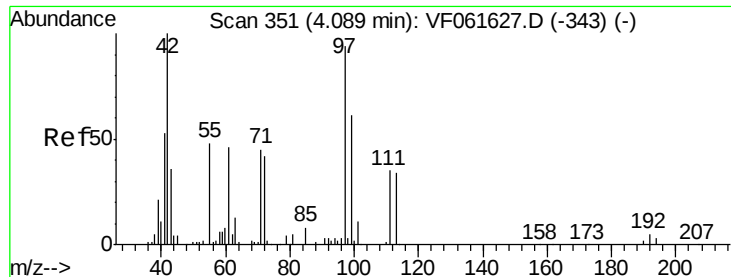
Tgt Ion: 43 Resp: 9370  
Ion Ratio Lower Upper  
43 100  
58 34.3 22.9 34.3



#18  
Methyl Acetate  
Concen: 1.806 ug/l  
RT: 2.36 min Scan# 176  
Delta R.T. 0.01 min  
Lab File: VF061685.D  
Acq: 18 Feb 2019 18:24

Tgt Ion: 43 Resp: 2232  
Ion Ratio Lower Upper  
43 100  
74 0.0 14.6 21.8#

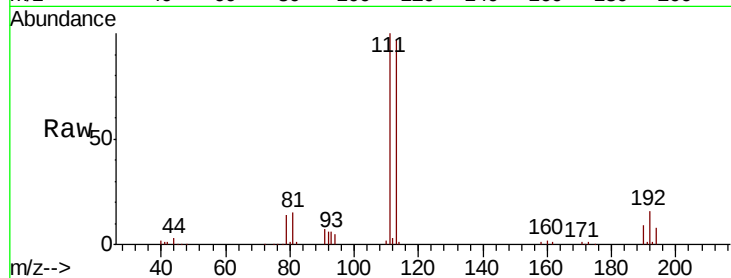




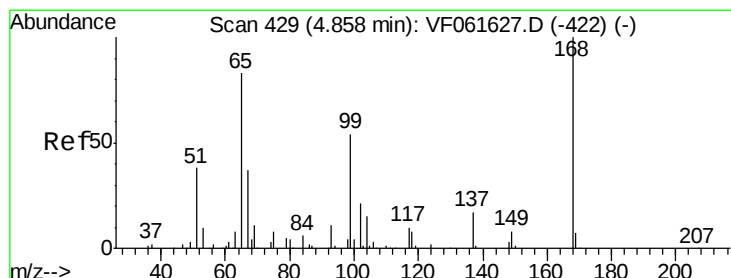
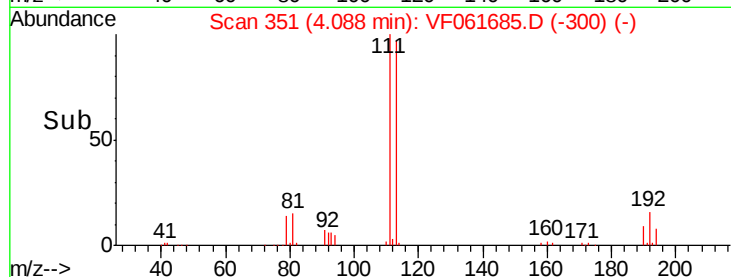
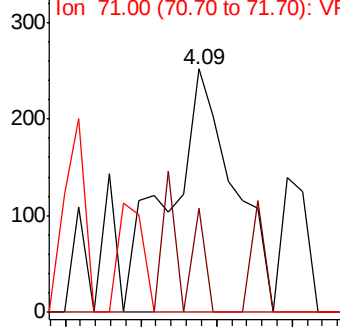
#29  
Tetrahydrofuran  
Concen: 1.384 ug/l  
RT: 4.09 min Scan# 351  
Delta R.T. -0.00 min  
Lab File: VF061685.D  
Acq: 18 Feb 2019 18:24

Instrument :  
MSVOA\_F  
ClientSampleId :  
M-14-S

Tgt Ion: 42 Resp: 754  
Ion Ratio Lower Upper  
42 100  
72 19.9 35.2 52.8#  
71 0.0 32.9 49.3#

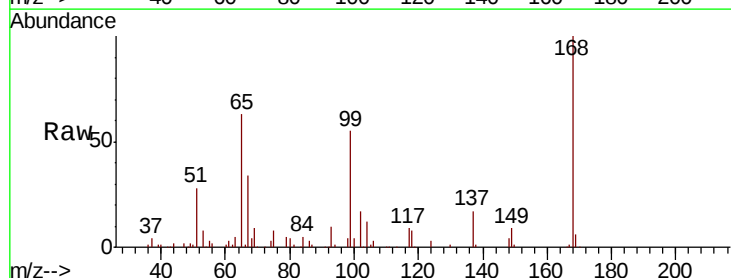


Abundance Ion 42.00 (41.70 to 42.70): VF0  
Ion 72.00 (71.70 to 72.70): VF0  
Ion 71.00 (70.70 to 71.70): VF0

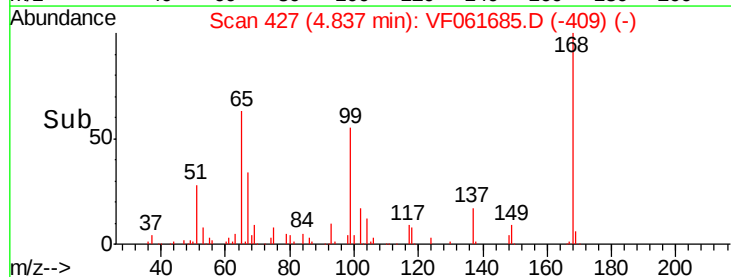
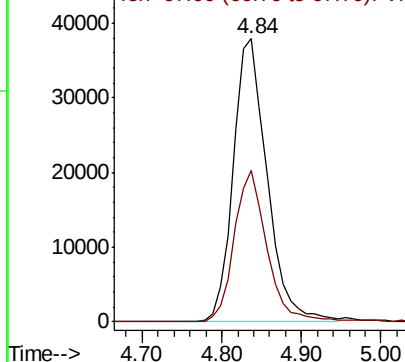


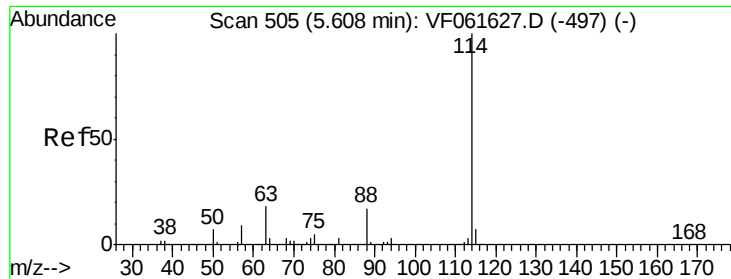
#33  
1,2-Dichloroethane-d4  
Concen: 43.841 ug/l  
RT: 4.84 min Scan# 427  
Delta R.T. -0.02 min  
Lab File: VF061685.D  
Acq: 18 Feb 2019 18:24

Tgt Ion: 65 Resp: 112112  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 104.0



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: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

Instrument :

MSVOA\_F

ClientSampled :

M-14-S

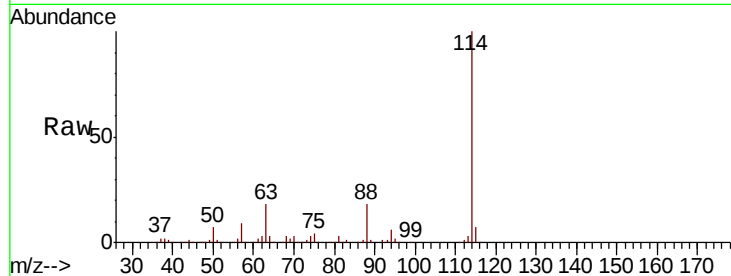
Tgt Ion:114 Resp: 534427

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

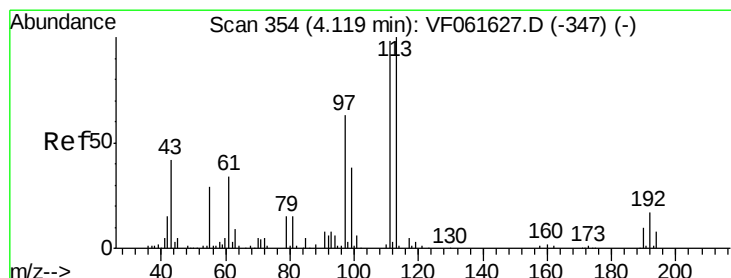
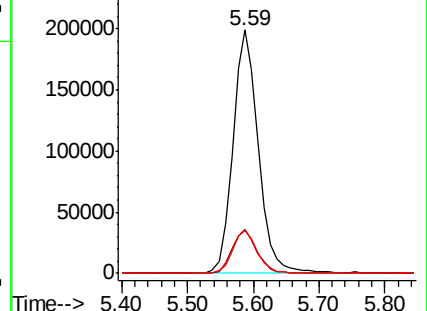
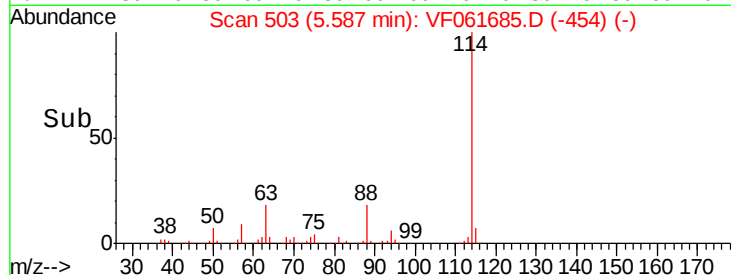
88 17.7 0.0 34.4



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: 43.900 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

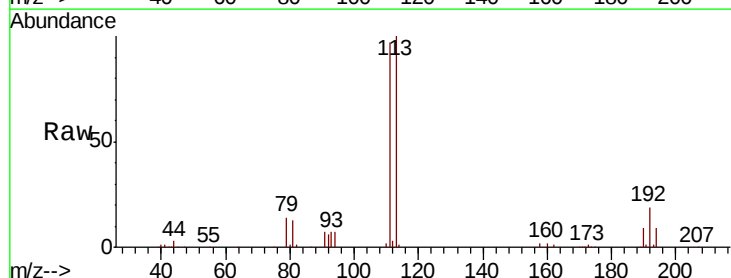
Tgt Ion:113 Resp: 174226

Ion Ratio Lower Upper

113 100

111 96.8 78.8 118.2

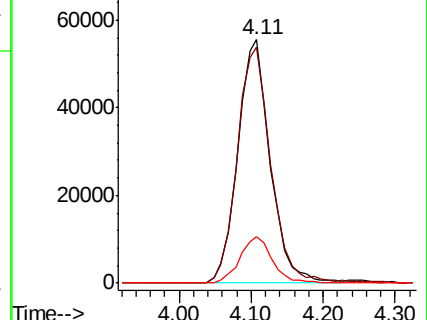
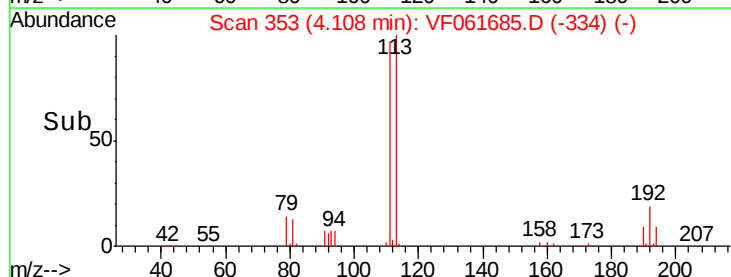
192 19.0 13.4 20.0

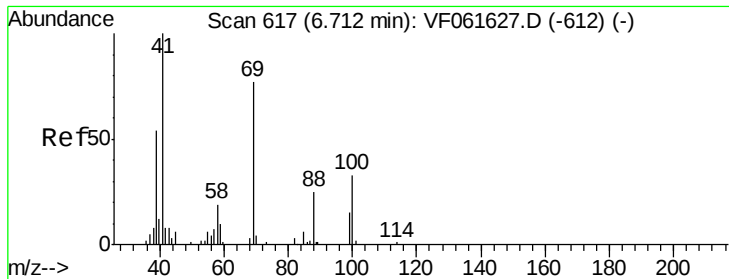


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.826 ug/l

RT: 6.54 min Scan# 600

Delta R.T. -0.17 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

Instrument :

MSVOA\_F

ClientSampleId :

M-14-S

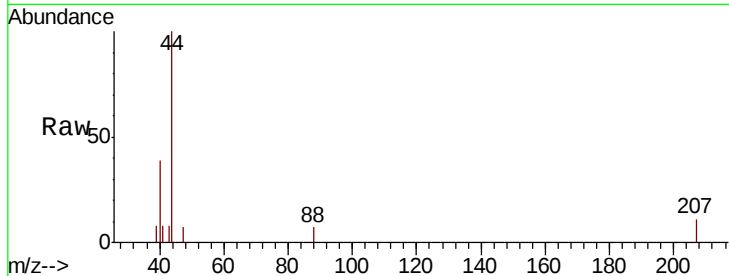
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 106.6 32.3 48.5#

58 0.0 59.4 89.2#

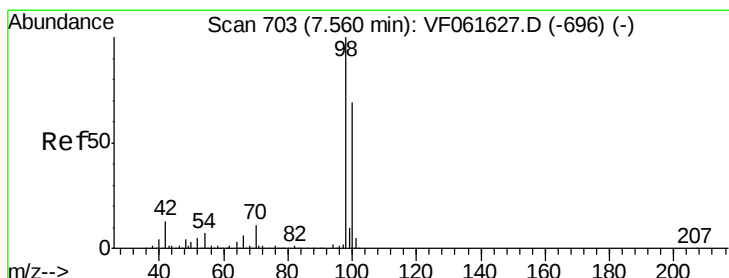
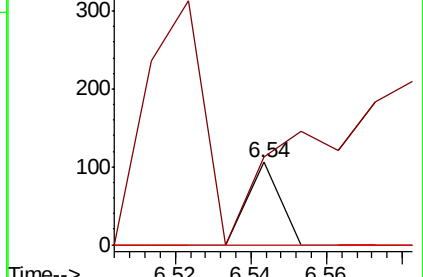
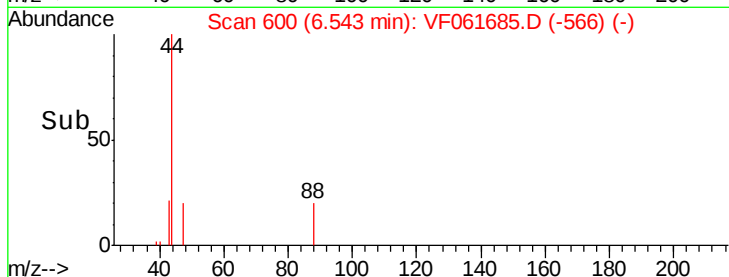


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

Time-->



#50

Toluene-d8

Concen: 39.129 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061685.D

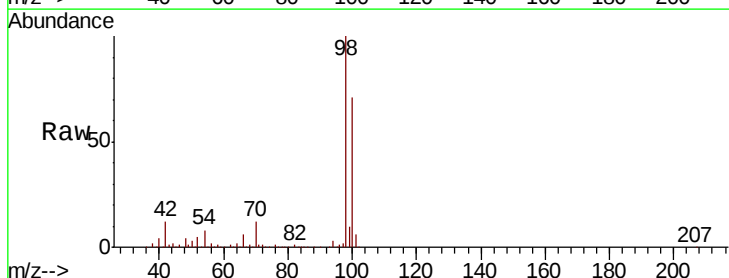
Acq: 18 Feb 2019 18:24

Tgt Ion: 98 Resp: 446417

Ion Ratio Lower Upper

98 100

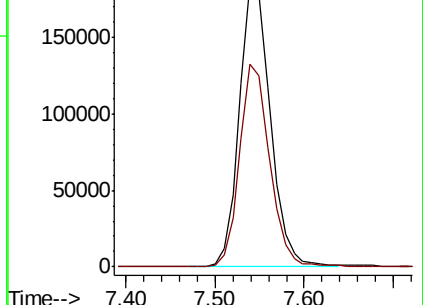
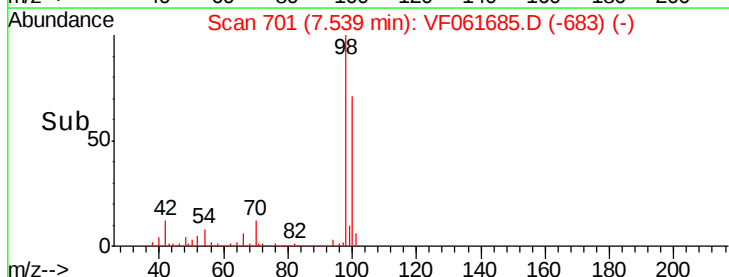
100 71.5 55.4 83.2

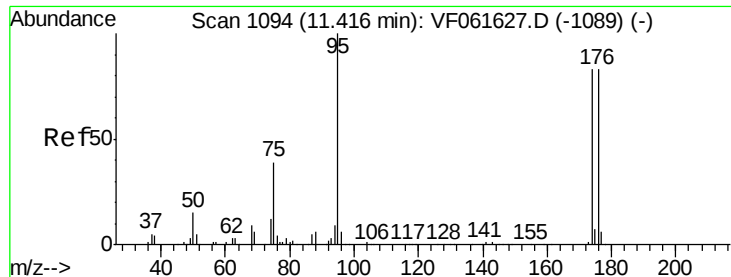


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

Time-->





#62

4-Bromofluorobenzene

Concen: 37.543 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

Instrument :

MSVOA\_F

ClientSampled :

M-14-S

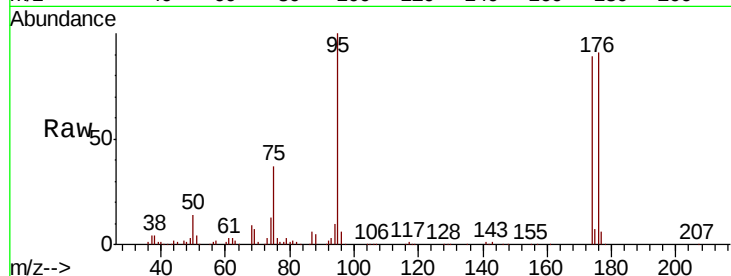
Tgt Ion: 95 Resp: 173309

Ion Ratio Lower Upper

95 100

174 89.1 0.0 165.8

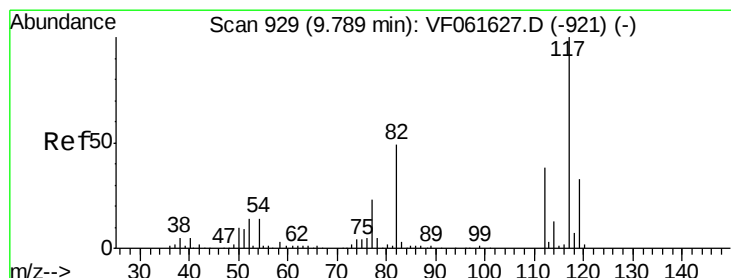
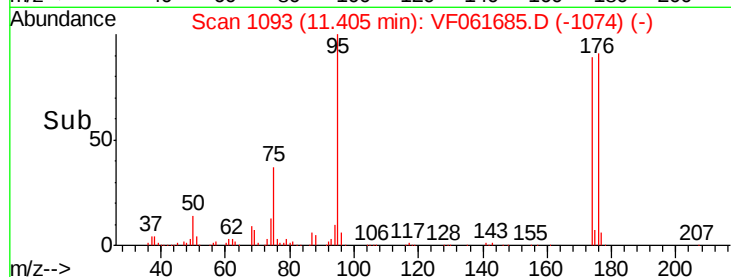
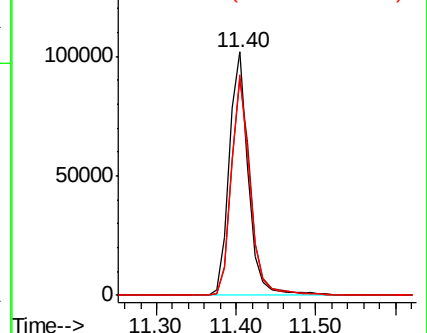
176 90.9 0.0 167.0



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: 9.77 min Scan# 927

Delta R.T. -0.02 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

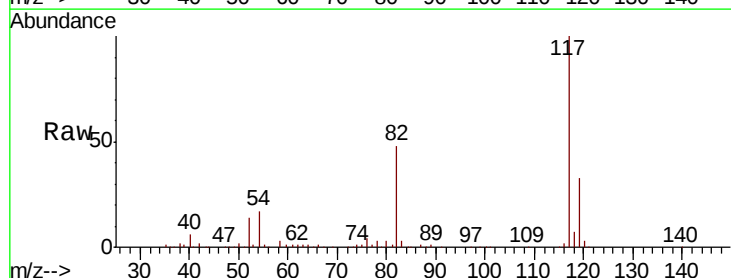
Tgt Ion: 117 Resp: 431886

Ion Ratio Lower Upper

117 100

82 47.6 39.3 58.9

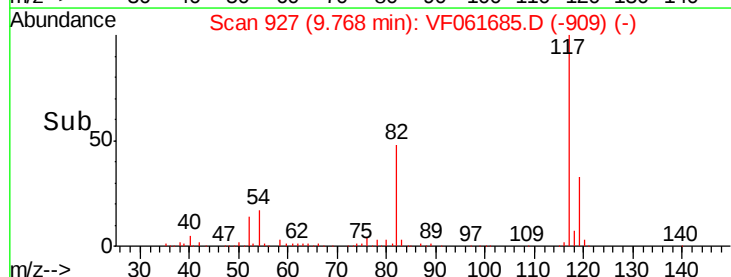
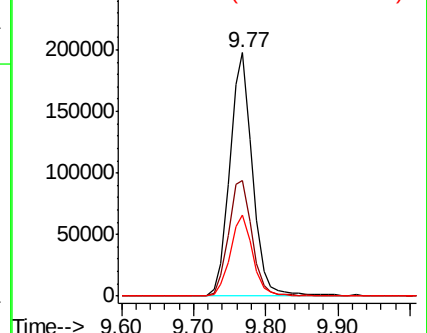
119 33.5 26.6 40.0

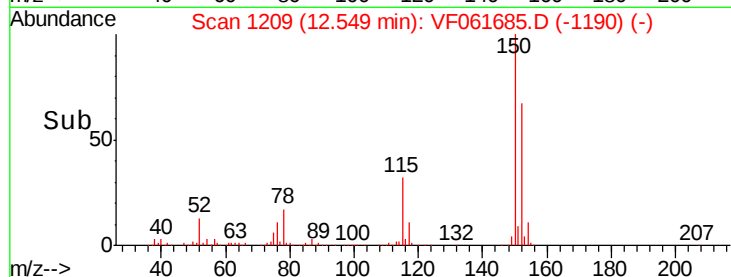
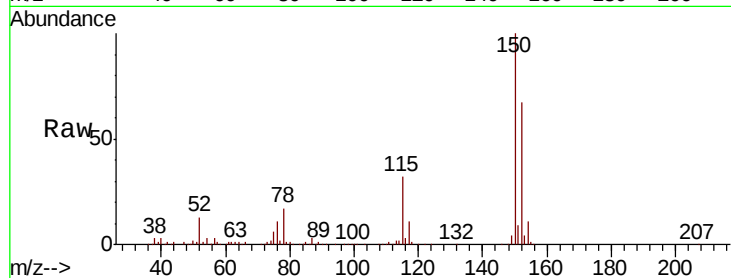
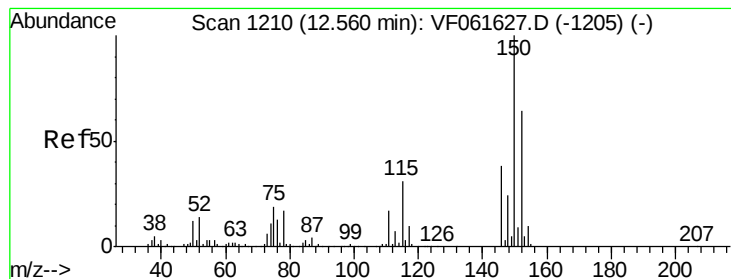


Abundance Ion 117.00 (116.70 to 117.70): VF0

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: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061685.D

Acq: 18 Feb 2019 18:24

Instrument :

MSVOA\_F

ClientSampleId :

M-14-S

Tgt Ion:152 Resp: 219587

Ion Ratio Lower Upper

152 100

115 47.3 24.3 72.8

150 149.1 0.0 312.0

