

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\  
 Data File : VF062689.D  
 Acq On : 21 May 2019 18:07  
 Operator : FY/SY  
 Sample : K2971-04  
 Misc : 5.70g/5mL/MSVOA F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SUP-2A-G-4-052019

Quant Time: May 22 04:32:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 761782   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 1236961  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 778097   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 285628   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 183312   | 34.05 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 68.10% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 354676   | 37.47 | ug/l   | -0.01    |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 74.94% |          |
| 50) Toluene-d8              | 7.71  | 98   | 667205   | 29.52 | ug/l   | -0.01    |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 59.04% |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 208242   | 24.30 | ug/l   | -0.01    |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 48.60% |          |

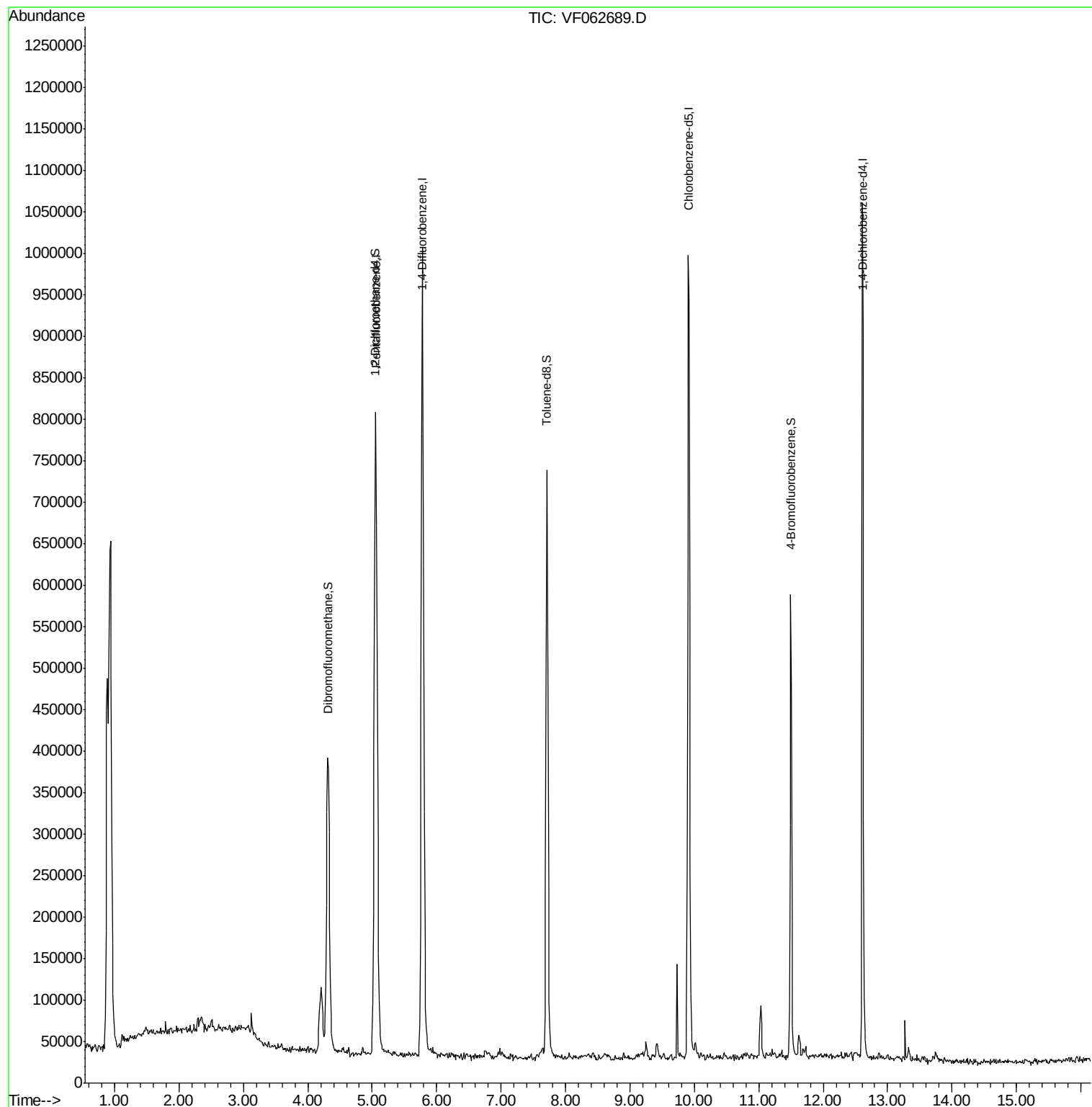
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

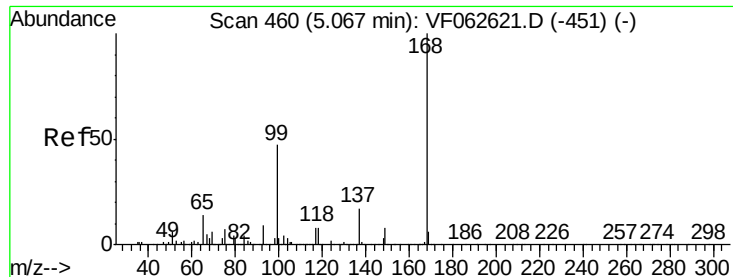
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri May 17 05:49:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062689.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA\_F

ClientSampleId :

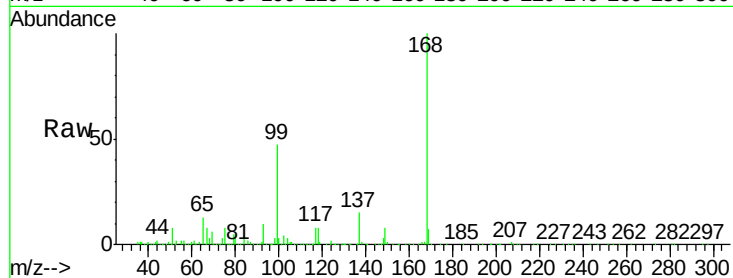
SUP-2A-G-4-052019

Tot Ion:168 Resp: 761782

Ion Ratio Lower Upper

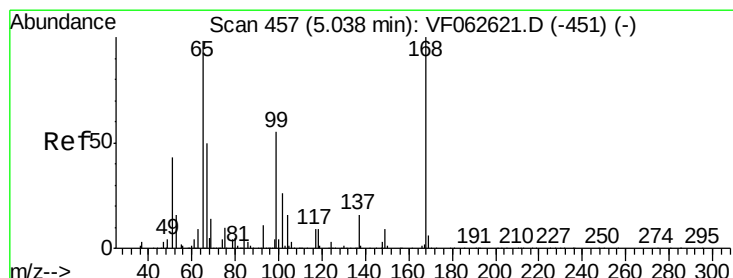
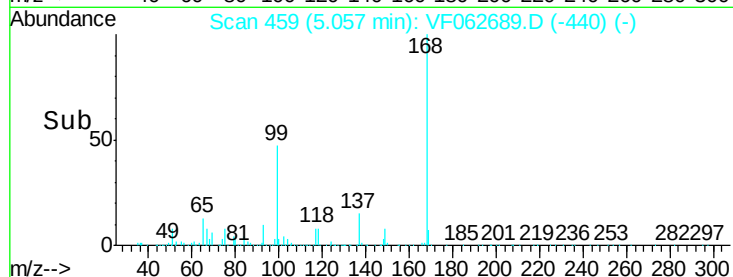
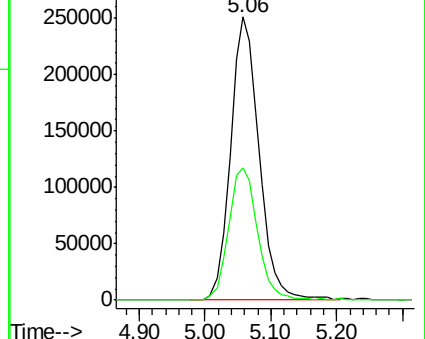
168 100

99 46.7 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 34.053 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF062689.D

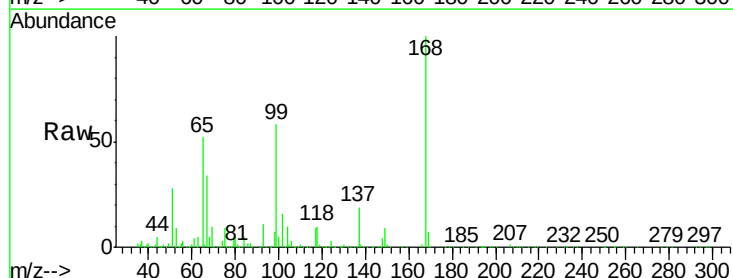
Acq: 21 May 2019 18:07

Tgt Ion: 65 Resp: 183312

Ion Ratio Lower Upper

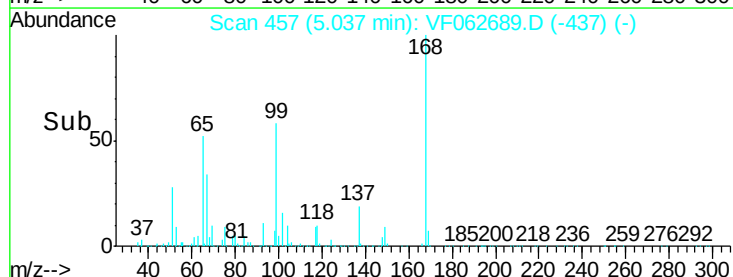
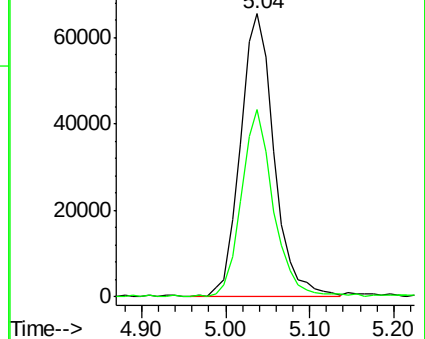
65 100

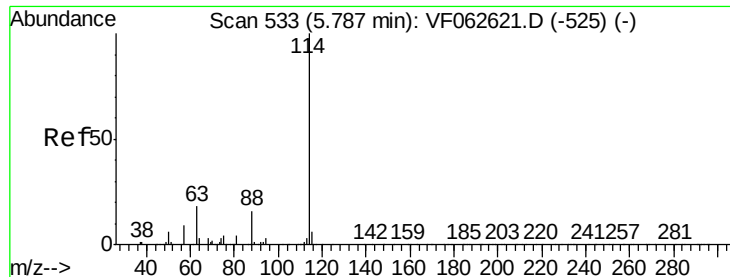
67 66.2 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

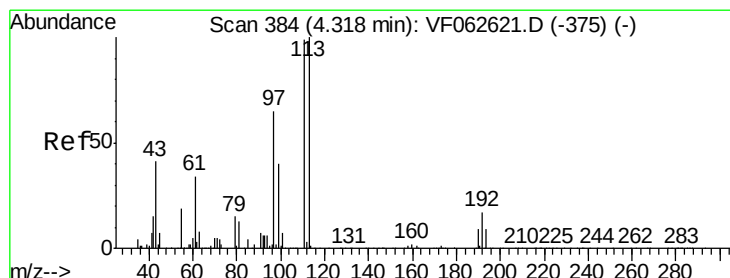
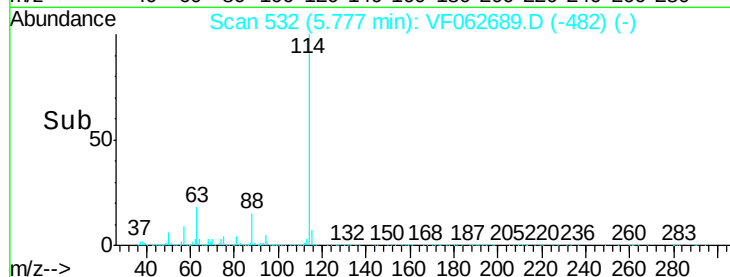
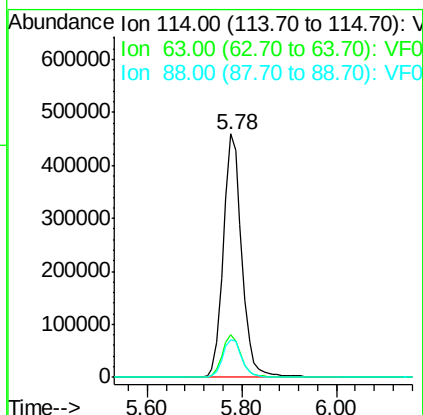
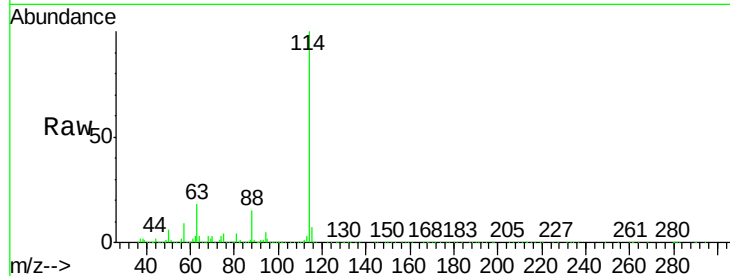




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.78 min Scan# 532  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

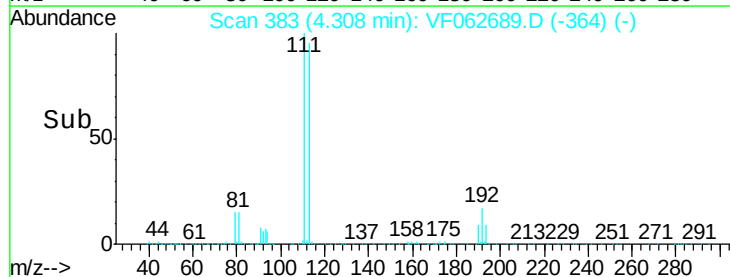
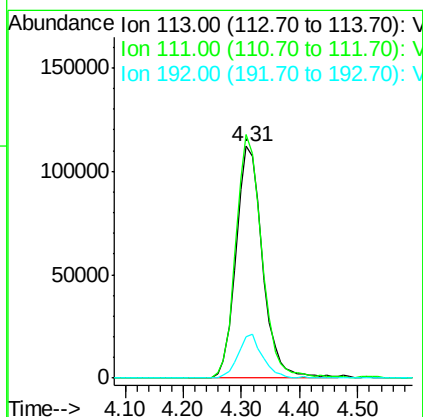
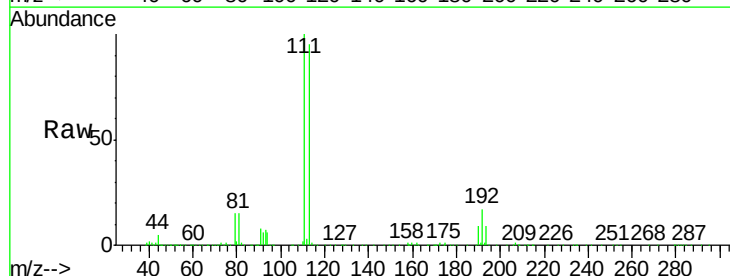
Instrument :  
MSVOA\_F  
ClientSampleId :  
SUP-2A-G-4-052019

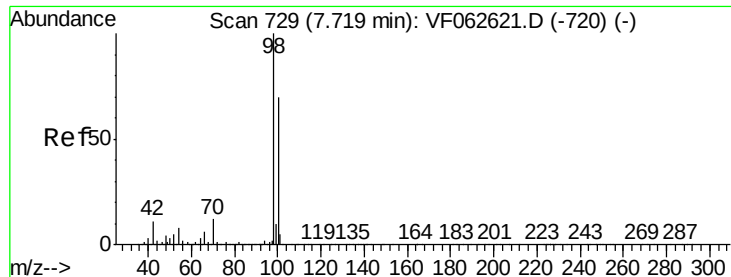
Tot Ion:114 Resp: 1236961  
Ion Ratio Lower Upper  
114 100  
63 17.6 0.0 35.4  
88 15.4 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 37.471 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

Tgt Ion:113 Resp: 354676  
Ion Ratio Lower Upper  
113 100  
111 105.0 79.4 119.2  
192 17.8 13.4 20.2





#50

Toluene-d8

Concen: 29.523 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062689.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA\_F

ClientSampleId :

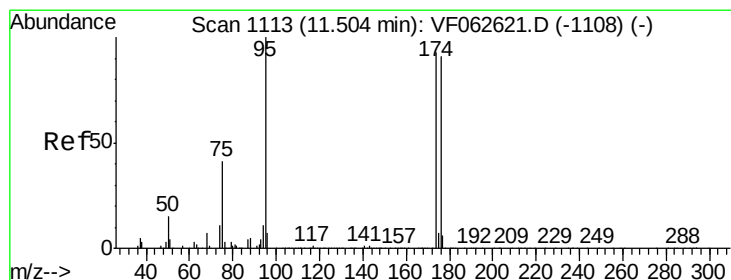
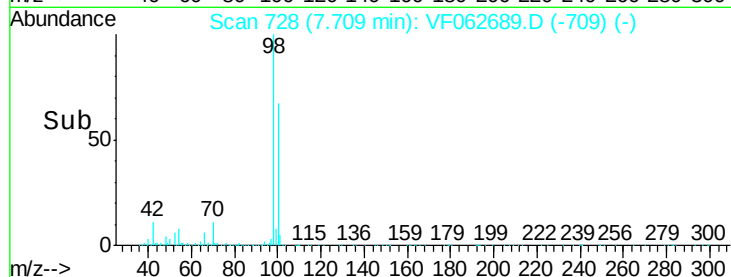
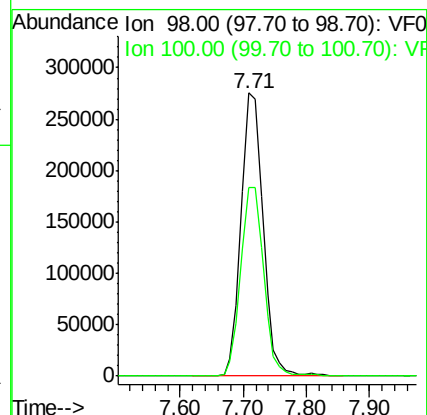
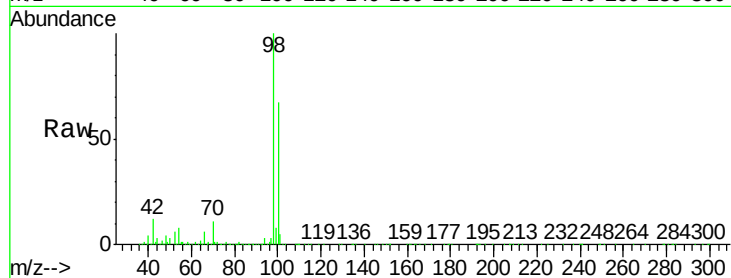
SUP-2A-G-4-052019

Tot Ion: 98 Resp: 667205

Ion Ratio Lower Upper

98 100

100 66.6 56.2 84.2



#62

4-Bromofluorobenzene

Concen: 24.295 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062689.D

Acq: 21 May 2019 18:07

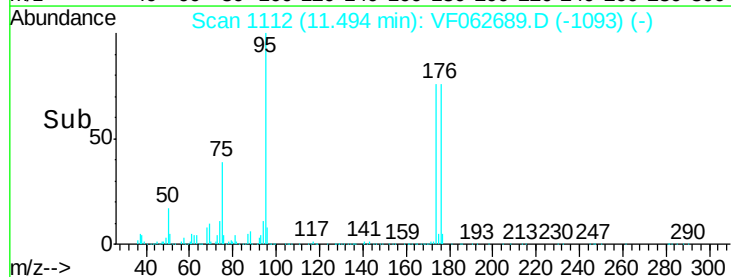
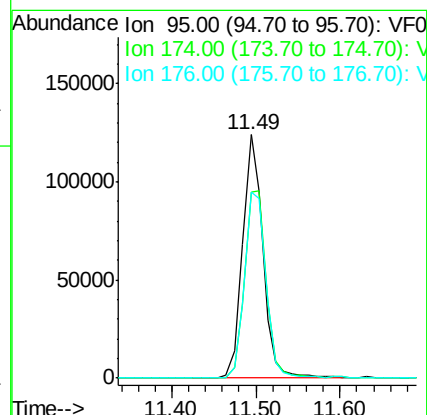
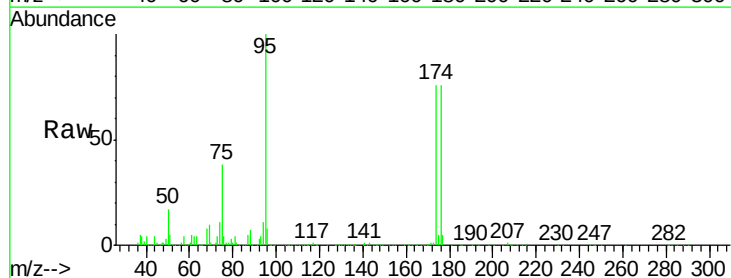
Tgt Ion: 95 Resp: 208242

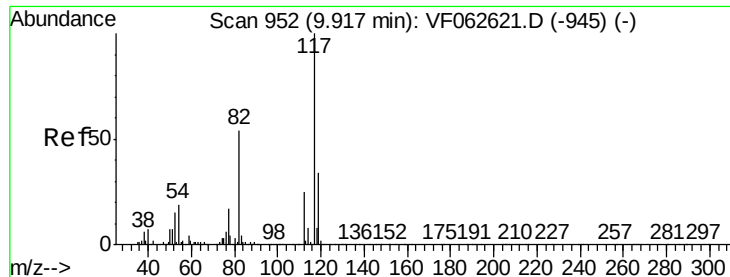
Ion Ratio Lower Upper

95 100

174 76.2 0.0 185.6

176 76.1 0.0 182.4

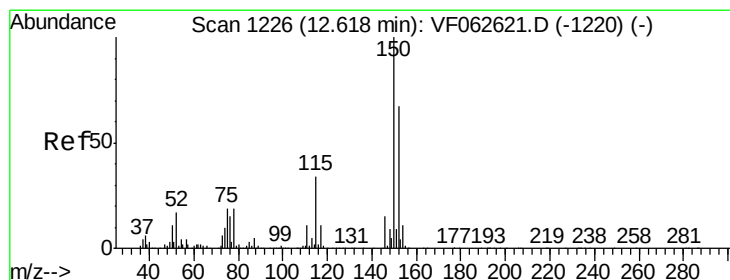
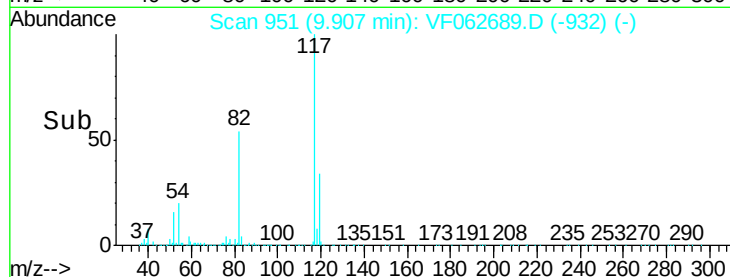
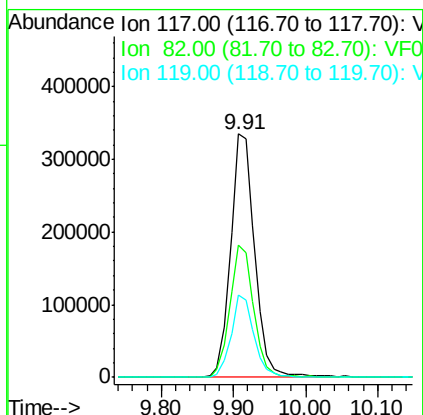
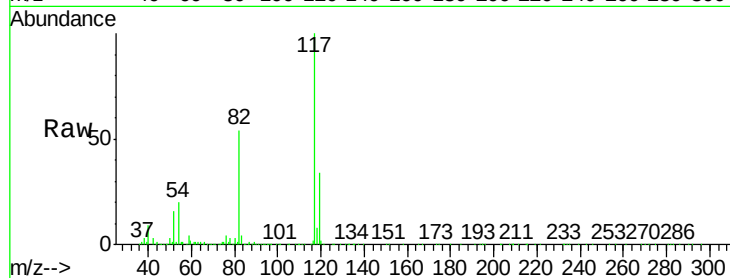




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

Instrument :  
MSVOA\_F  
ClientSampleId :  
SUP-2A-G-4-052019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.3  | 43.3  | 64.9  |
| 119     | 34.0  | 27.4  | 41.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.4  | 25.2  | 75.6  |
| 150     | 157.0 | 0.0   | 306.2 |

