

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\  
 Data File : VF061893.D  
 Acq On : 11 Mar 2019 16:57  
 Operator : VA/AP  
 Sample : K1824-11  
 Misc : 5.04g/5mL/MSVOA-F/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-29

Quant Time: Mar 12 05:47:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 187275   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 278336   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 225916   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 118970   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 82009    | 60.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 120.26% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 117140   | 60.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 120.62% |          |
| 50) Toluene-d8              | 7.55  | 98   | 287932   | 49.87 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.74%  |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 119174   | 52.69 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.38% |          |

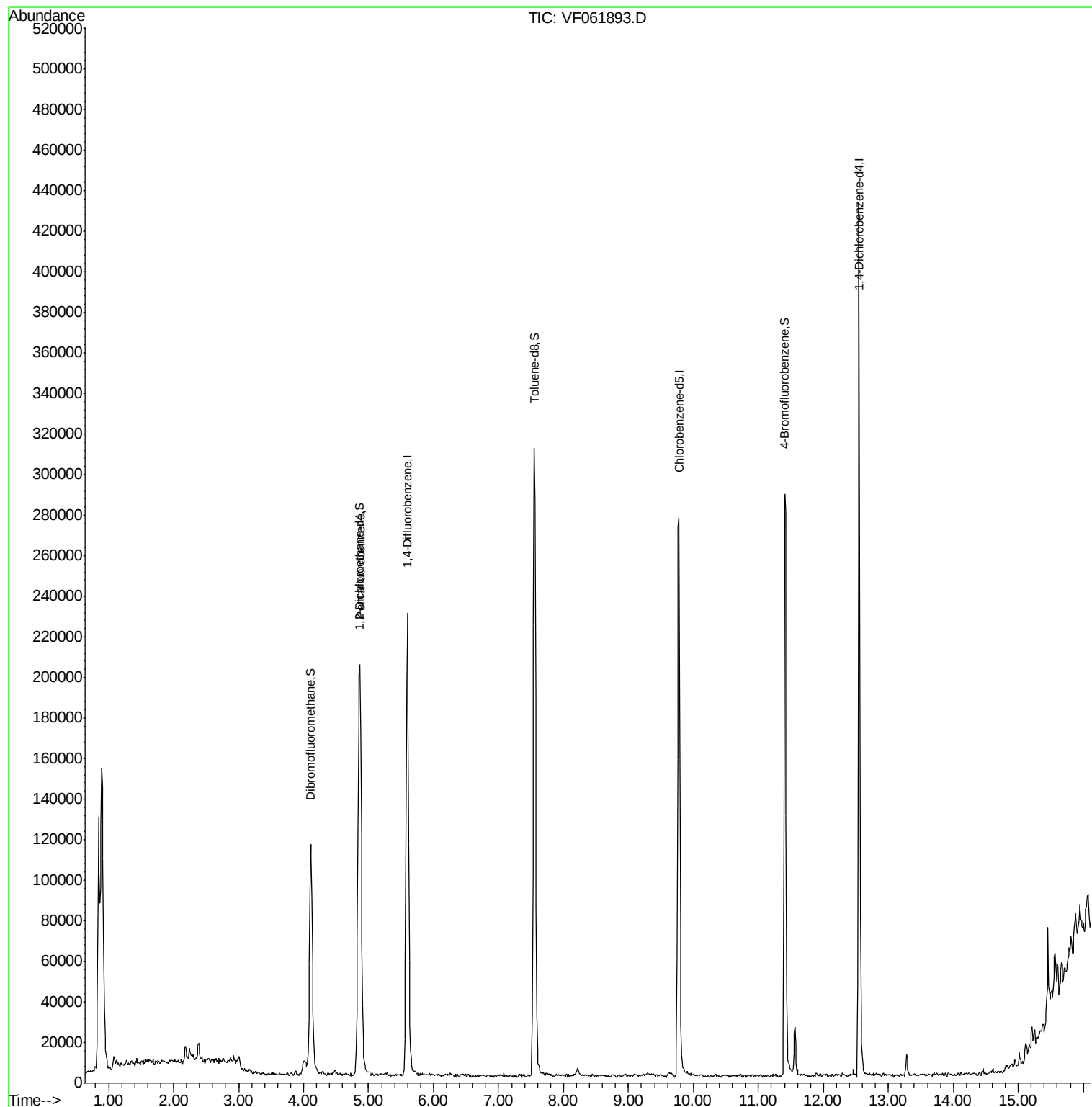
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

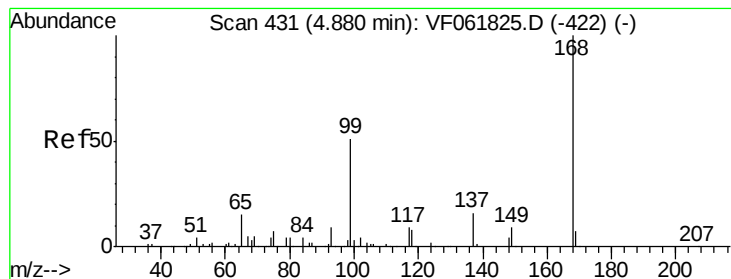
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061893.D

Acq: 11 Mar 2019 16:57

Instrument :

MSVOA\_F

ClientSampleId :

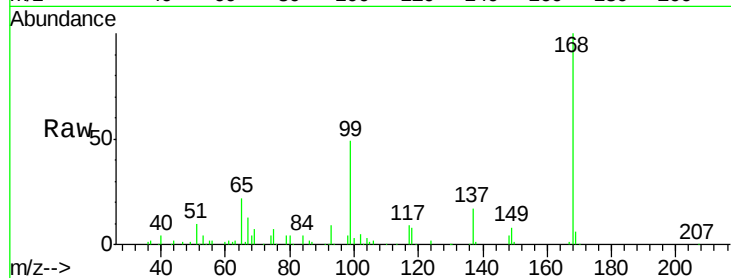
TP-29

Tot Ion:168 Resp: 187275

Ion Ratio Lower Upper

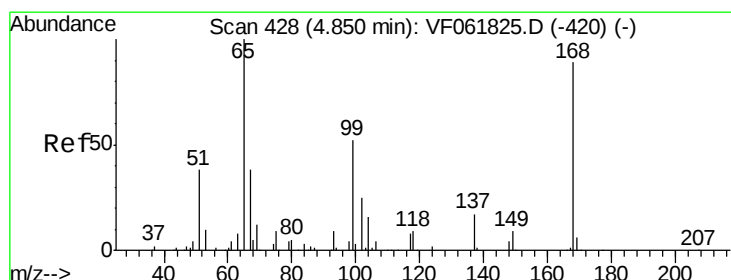
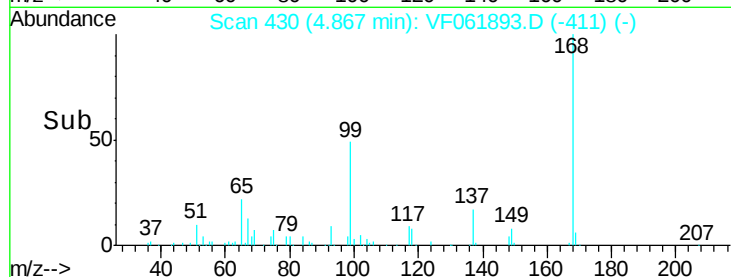
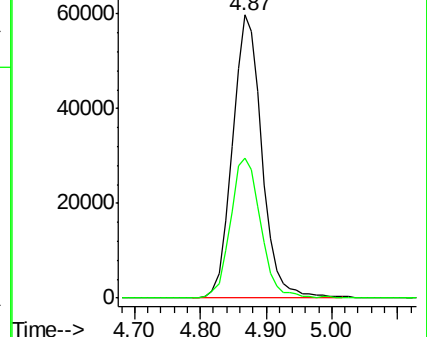
168 100

99 49.5 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 60.132 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.00 min

Lab File: VF061893.D

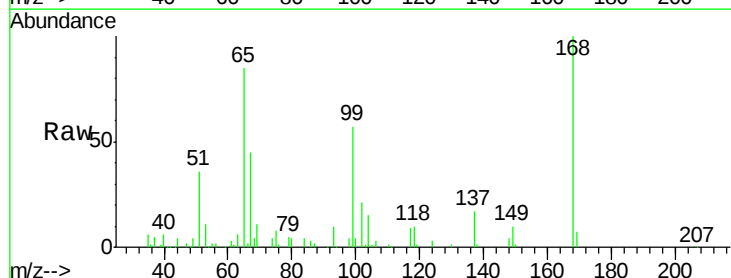
Acq: 11 Mar 2019 16:57

Tgt Ion: 65 Resp: 82009

Ion Ratio Lower Upper

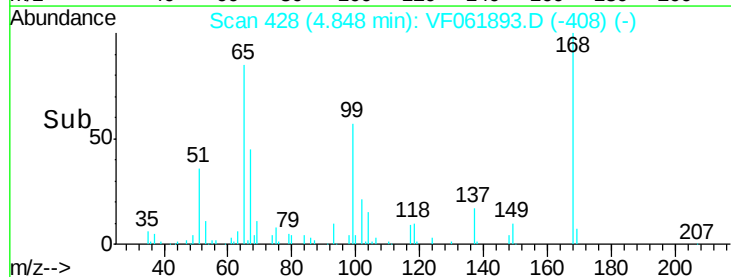
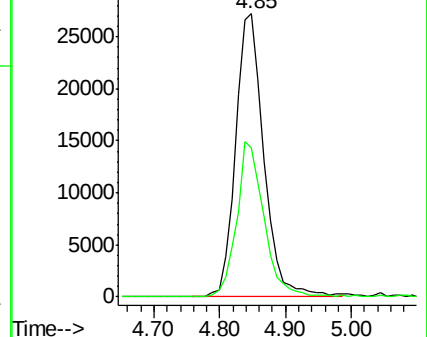
65 100

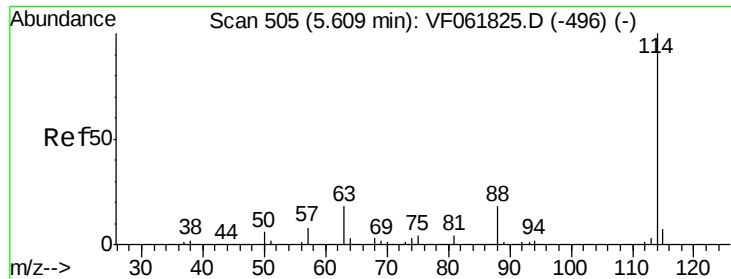
67 52.8 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

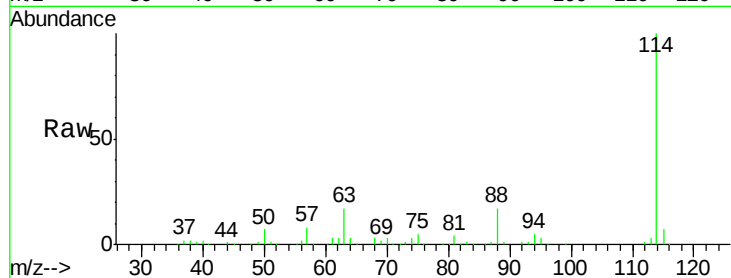




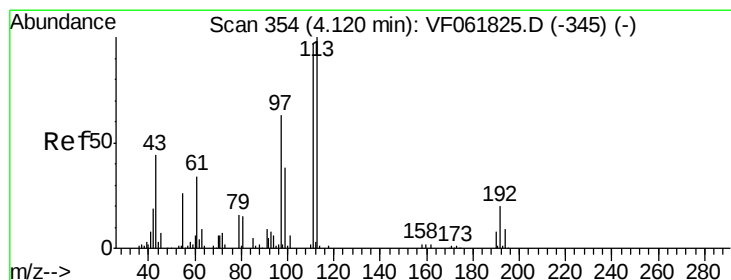
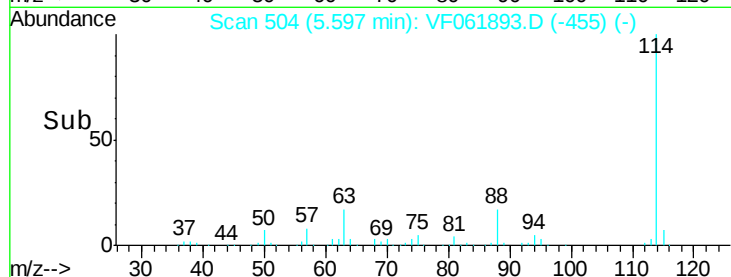
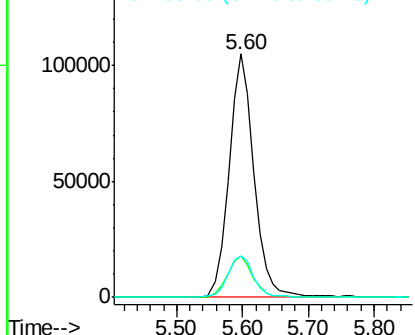
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.60 min Scan# 504  
 Delta R.T. -0.01 min  
 Lab File: VF061893.D  
 Acq: 11 Mar 2019 16:57

Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 TP-29

Tot Ion:114 Resp: 278336  
 Ion Ratio Lower Upper  
 114 100  
 63 17.2 0.0 35.6  
 88 16.9 0.0 35.6

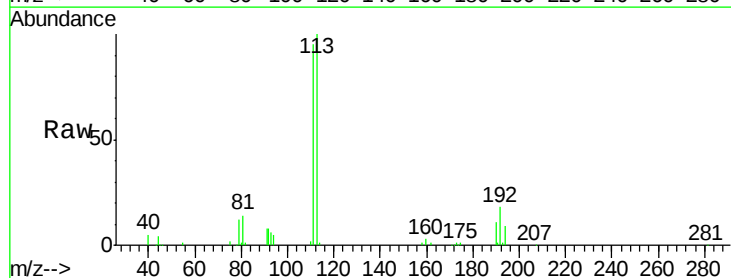


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VF0  
 Ion 88.00 (87.70 to 88.70): VF0

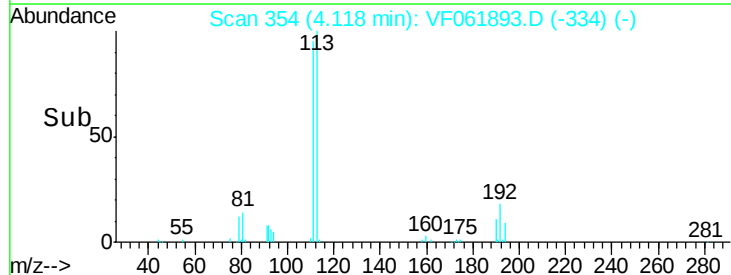
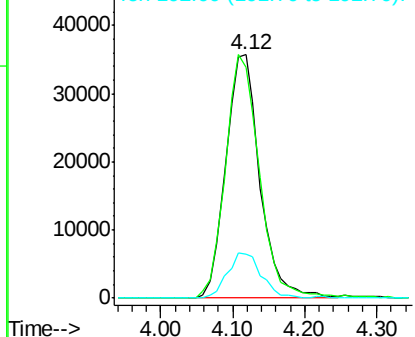


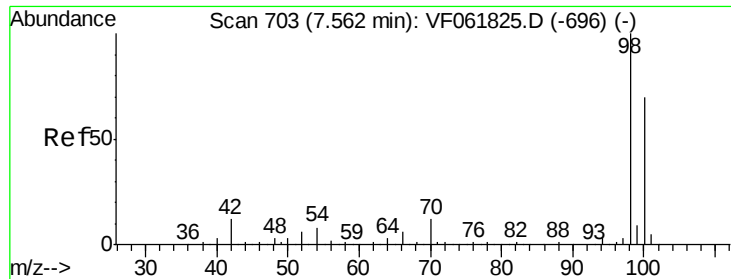
#35  
 Dibromofluoromethane  
 Concen: 60.306 ug/l  
 RT: 4.12 min Scan# 354  
 Delta R.T. -0.00 min  
 Lab File: VF061893.D  
 Acq: 11 Mar 2019 16:57

Tgt Ion:113 Resp: 117140  
 Ion Ratio Lower Upper  
 113 100  
 111 94.9 77.6 116.4  
 192 18.9 15.9 23.9



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

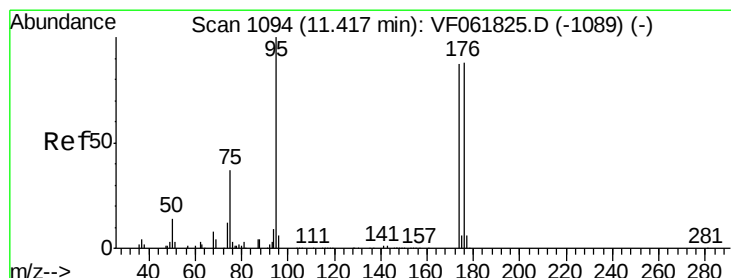
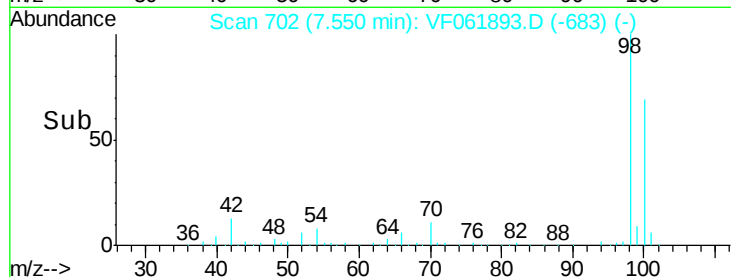
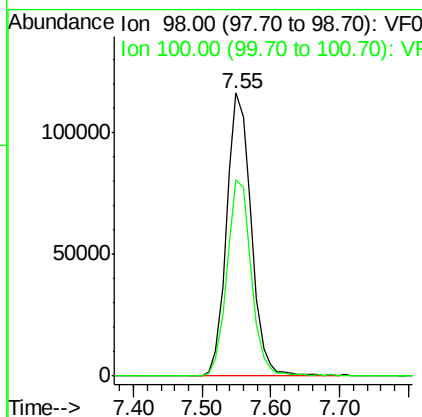
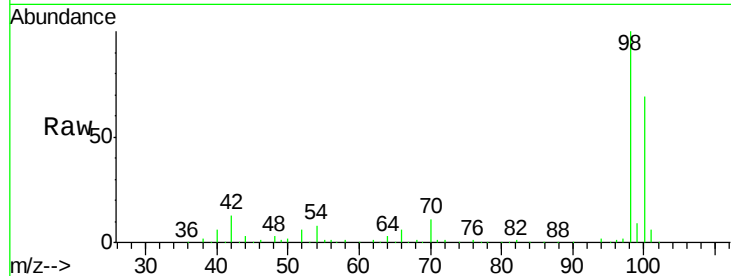




#50  
Toluene-d8  
Concen: 49.872 ug/l  
RT: 7.55 min Scan# 702  
Delta R.T. -0.01 min  
Lab File: VF061893.D  
Acq: 11 Mar 2019 16:57

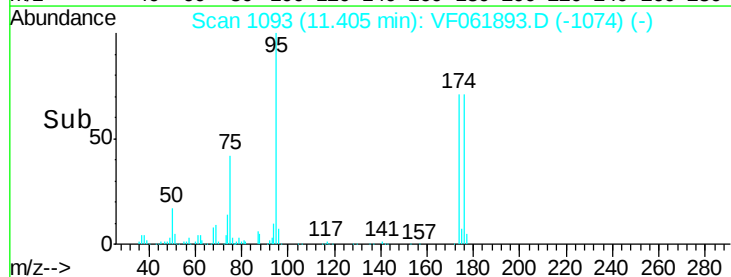
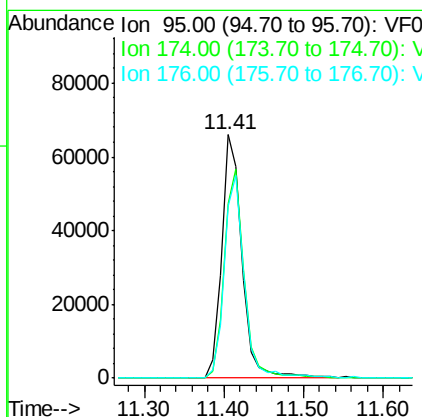
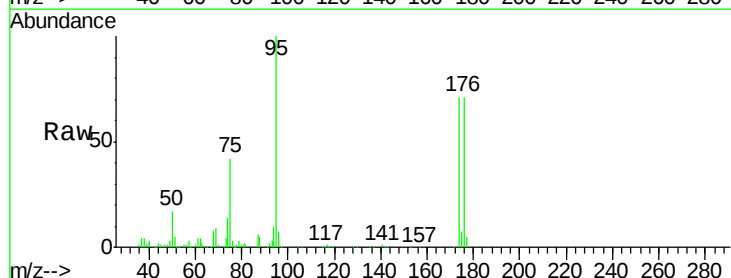
Instrument :  
MSVOA\_F  
ClientSampled :  
TP-29

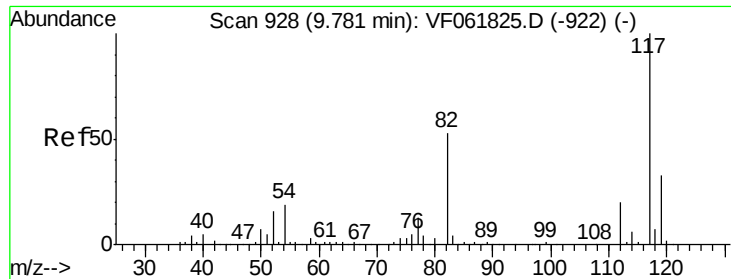
Tot Ion: 98 Resp: 287932  
Ion Ratio Lower Upper  
98 100  
100 69.3 56.0 84.0



#62  
4-Bromofluorobenzene  
Concen: 52.694 ug/l  
RT: 11.41 min Scan# 1093  
Delta R.T. -0.01 min  
Lab File: VF061893.D  
Acq: 11 Mar 2019 16:57

Tgt Ion: 95 Resp: 119174  
Ion Ratio Lower Upper  
95 100  
174 71.4 0.0 174.0  
176 70.6 0.0 175.2

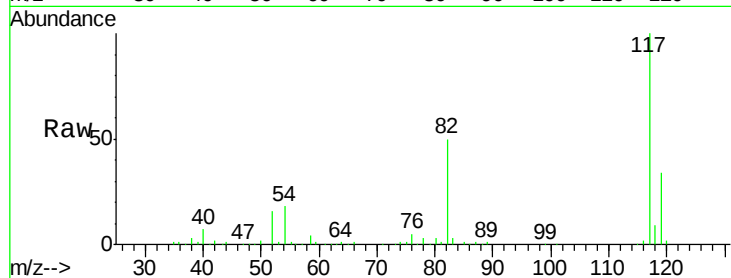




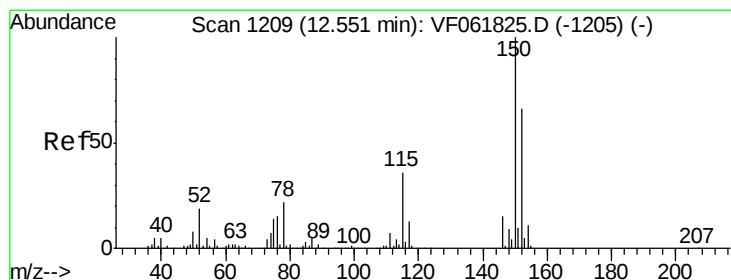
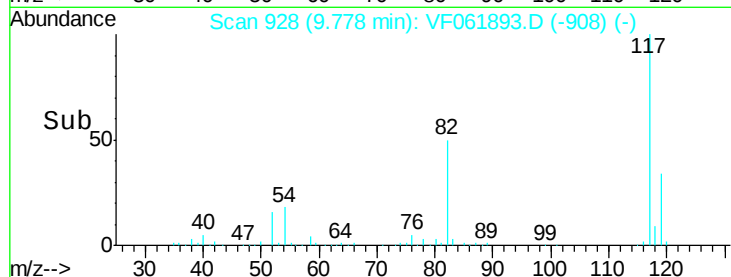
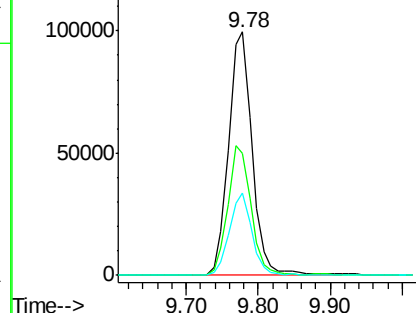
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.00 min  
Lab File: VF061893.D  
Acq: 11 Mar 2019 16:57

Instrument :  
MSVOA\_F  
ClientSampled :  
TP-29

Tot Ion:117 Resp: 225916  
Ion Ratio Lower Upper  
117 100  
82 50.2 42.6 63.8  
119 33.8 26.0 39.0

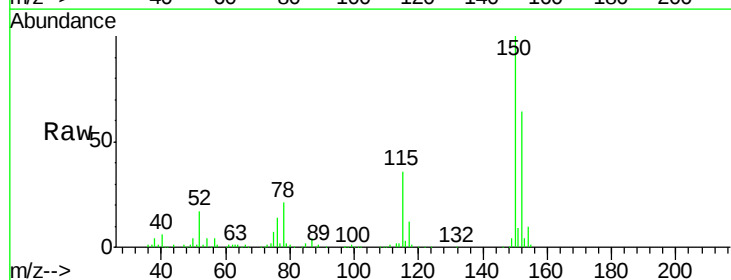


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1209  
Delta R.T. -0.00 min  
Lab File: VF061893.D  
Acq: 11 Mar 2019 16:57

Tgt Ion:152 Resp: 118970  
Ion Ratio Lower Upper  
152 100  
115 57.0 27.7 83.1  
150 156.2 0.0 304.2



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

