

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\  
 Data File : VD061916.D  
 Acq On : 19 Apr 2019 18:11  
 Operator : VA/AP  
 Sample : K2196-05  
 Misc : 7.93g/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HD-01-041619

Quant Time: Apr 19 18:37:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 22157    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 34358    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 38059    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 18172    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 12202    | 65.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 131.42% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 12964    | 49.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.88%  |          |
| 50) Toluene-d8              | 10.41 | 98   | 31629    | 51.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.86% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 13800    | 55.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.72% |          |

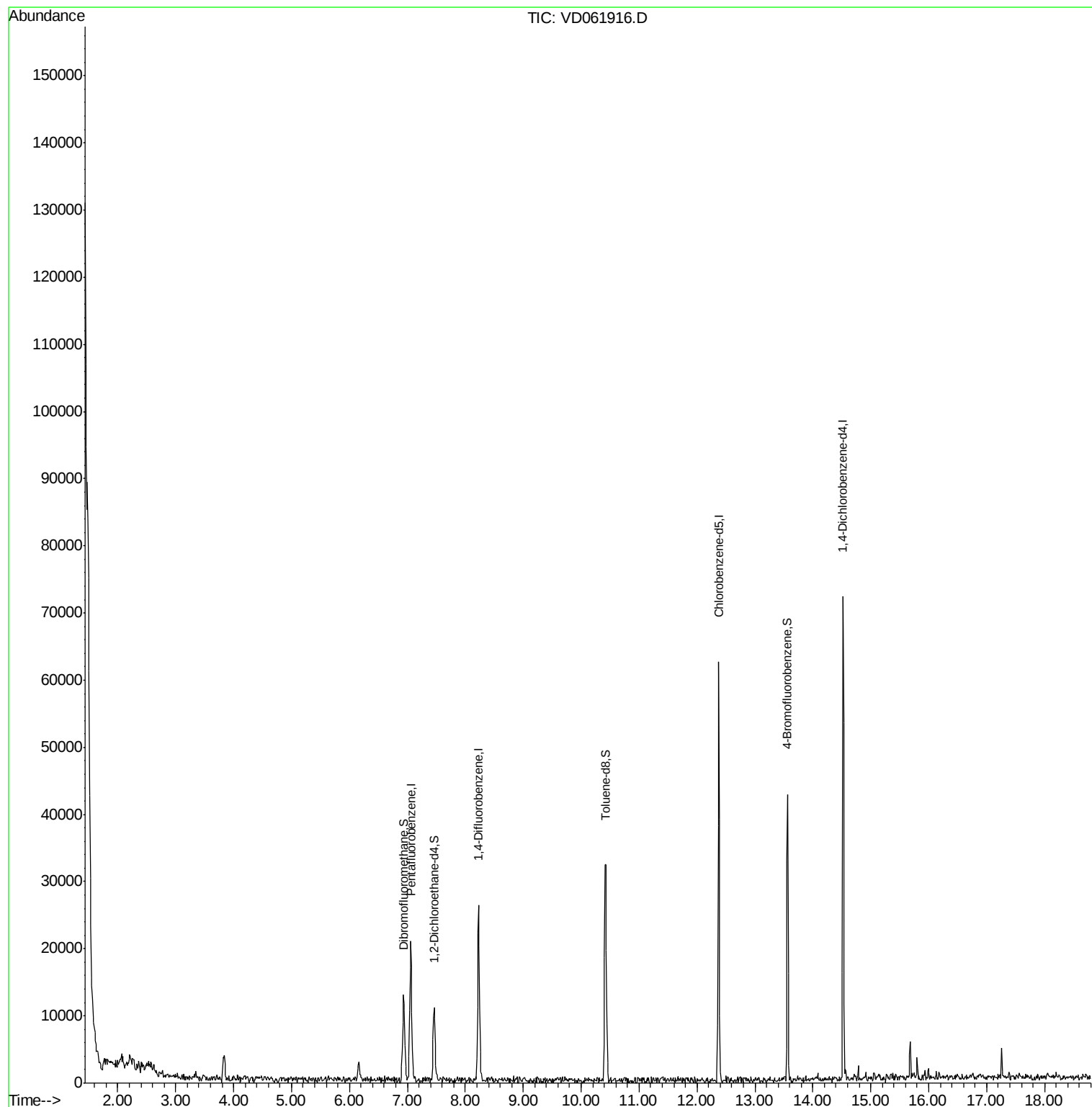
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

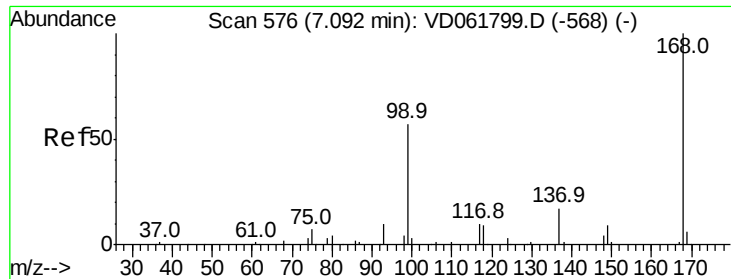
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041919\  
Data File : VD061916.D  
Acq On : 19 Apr 2019 18:11  
Operator : VA/AP  
Sample : K2196-05  
Misc : 7.93g/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HD-01-041619

Quant Time: Apr 19 18:37:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 18 13:49:04 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061916.D

Acq: 19 Apr 2019 18:11

Instrument :

MSVOA\_D

ClientSampleId :

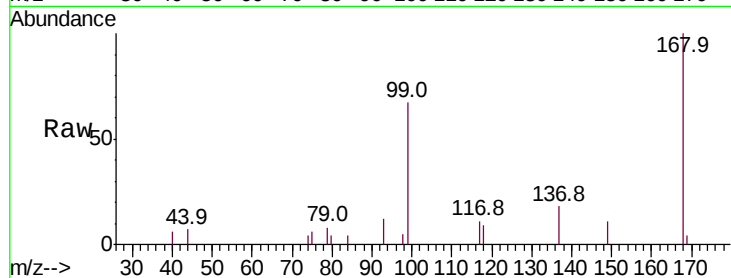
HD-01-041619

Tot Ion:168 Resp: 22157

Ion Ratio Lower Upper

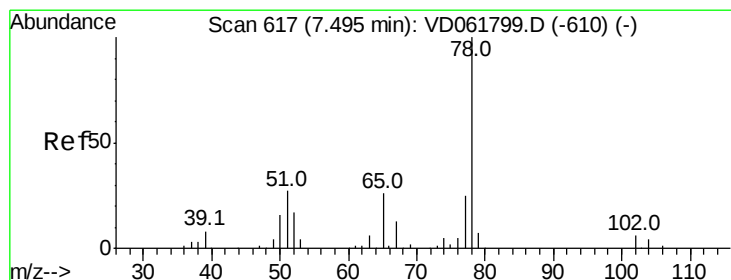
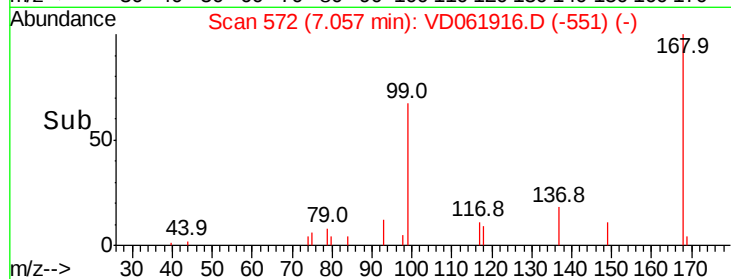
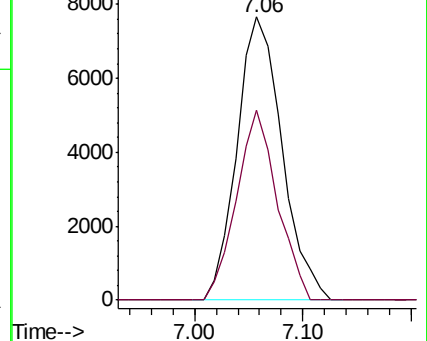
168 100

99 67.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 65.709 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061916.D

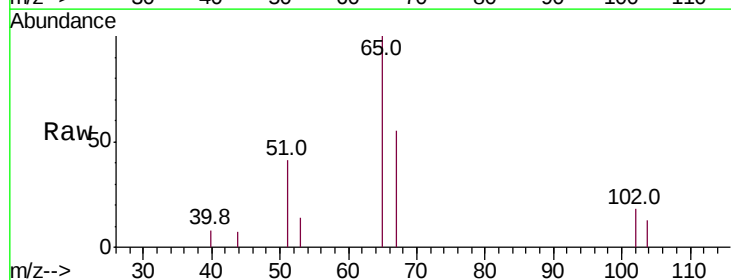
Acq: 19 Apr 2019 18:11

Tgt Ion: 65 Resp: 12202

Ion Ratio Lower Upper

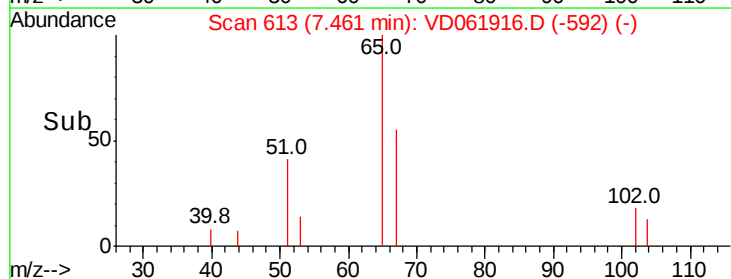
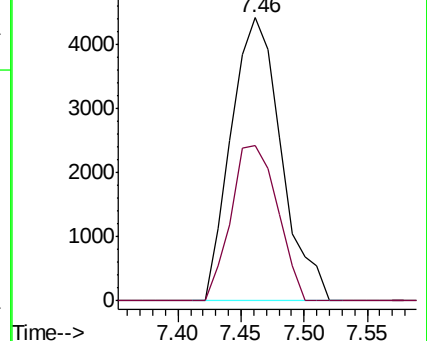
65 100

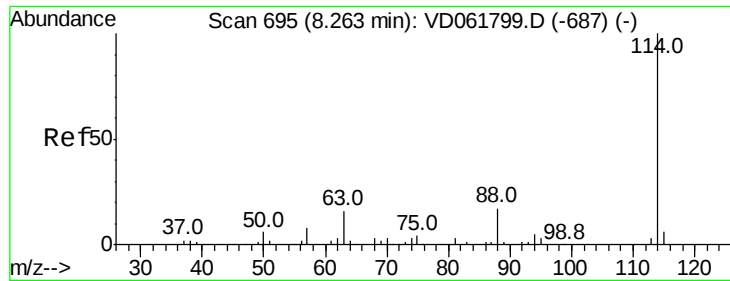
67 54.8 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

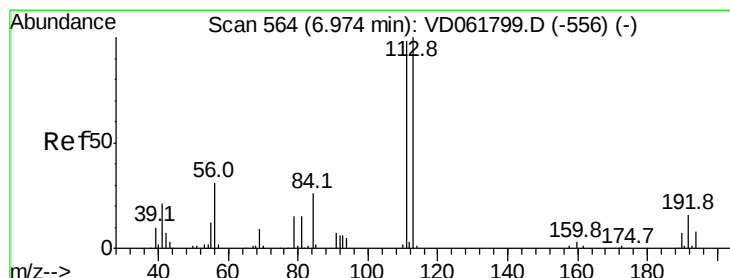
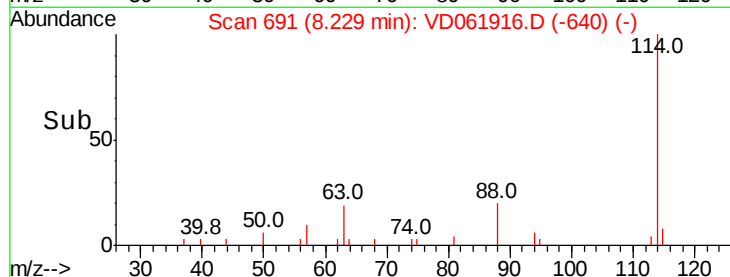
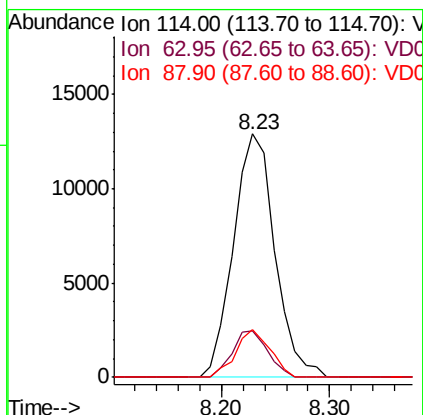
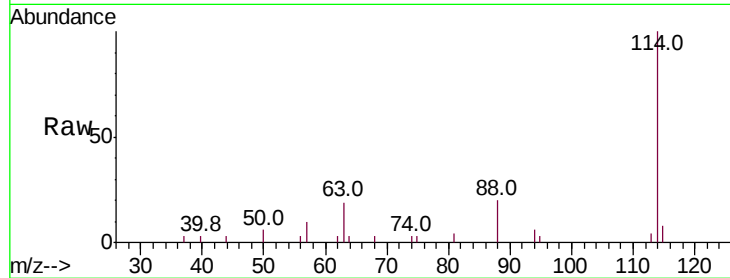




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 691  
 Delta R.T. 0.01 min  
 Lab File: VD061916.D  
 Acq: 19 Apr 2019 18:11

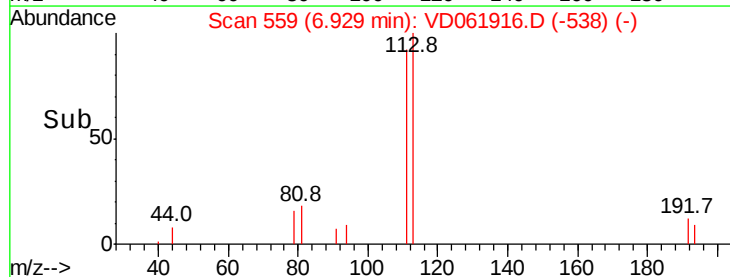
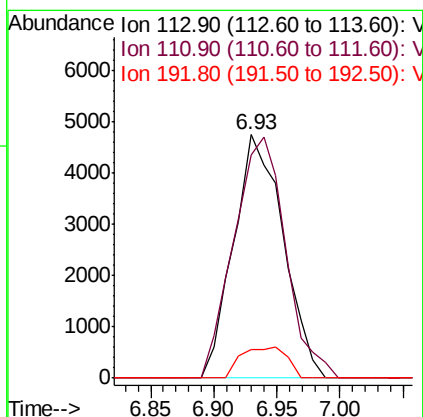
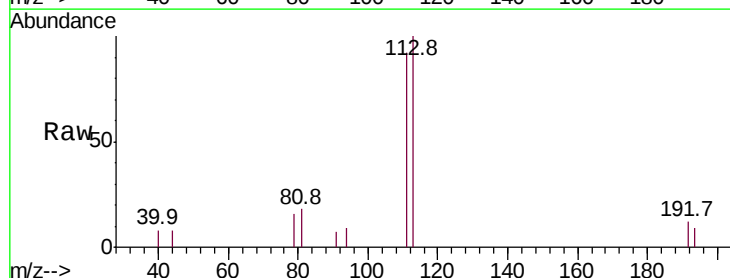
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HD-01-041619

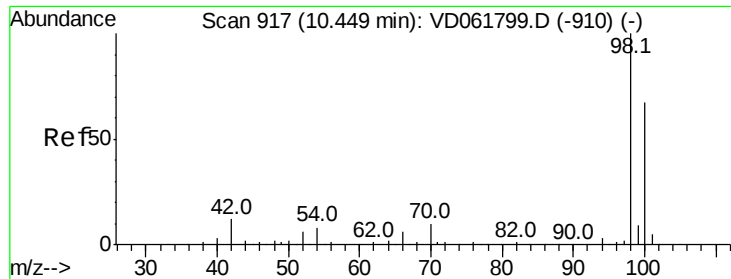
Tot Ion:114 Resp: 34358  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 32.4  
 88 19.8 0.0 33.6



#35  
 Dibromofluoromethane  
 Concen: 49.943 ug/l  
 RT: 6.93 min Scan# 559  
 Delta R.T. 0.01 min  
 Lab File: VD061916.D  
 Acq: 19 Apr 2019 18:11

Tgt Ion:113 Resp: 12964  
 Ion Ratio Lower Upper  
 113 100  
 111 91.6 78.5 117.7  
 192 11.9 13.0 19.4#





#50

Toluene-d8

Concen: 51.425 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061916.D

Acq: 19 Apr 2019 18:11

Instrument :

MSVOA\_D

ClientSampleId :

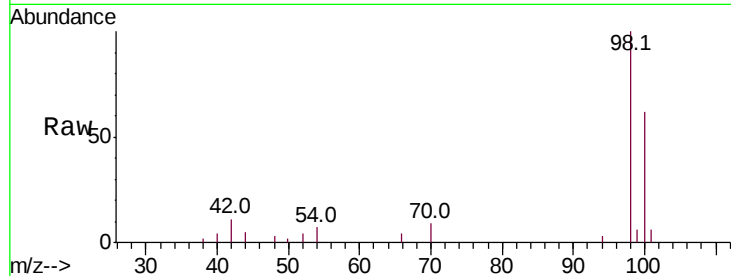
HD-01-041619

Tot Ion: 98 Resp: 31629

Ion Ratio Lower Upper

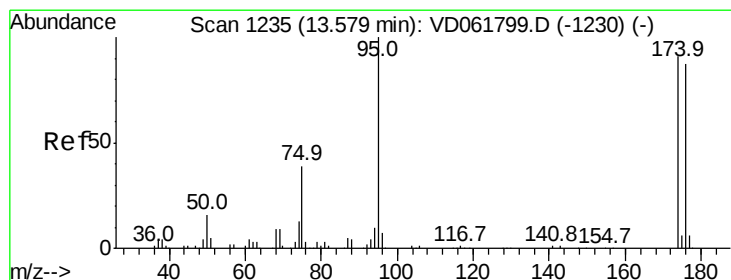
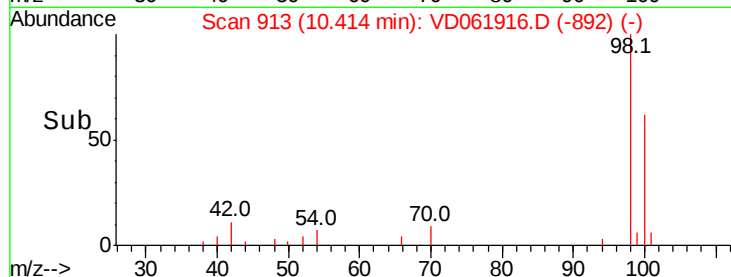
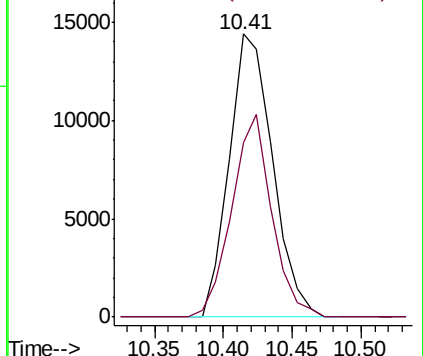
98 100

100 61.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: 55.358 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061916.D

Acq: 19 Apr 2019 18:11

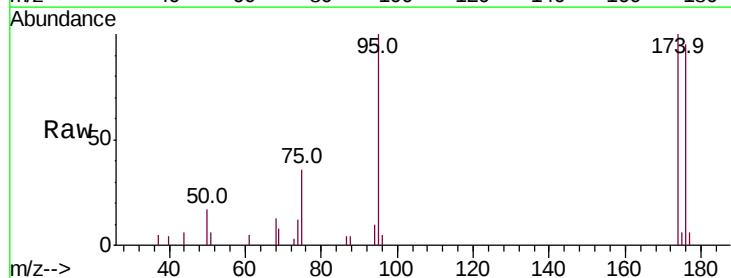
Tgt Ion: 95 Resp: 13800

Ion Ratio Lower Upper

95 100

174 100.0 0.0 181.8

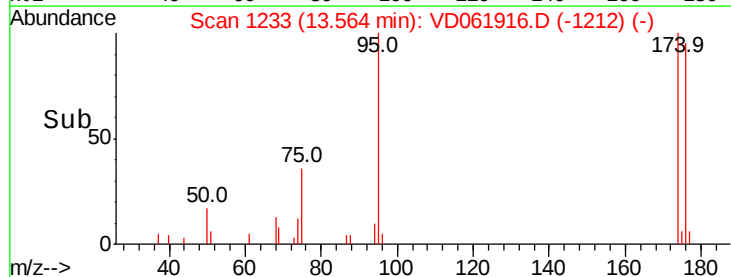
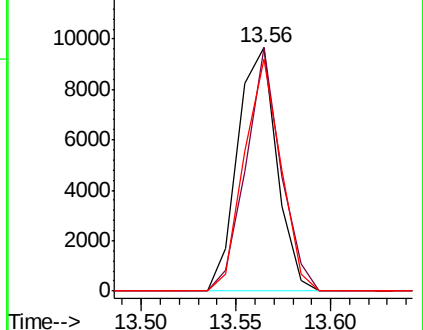
176 95.4 0.0 174.4

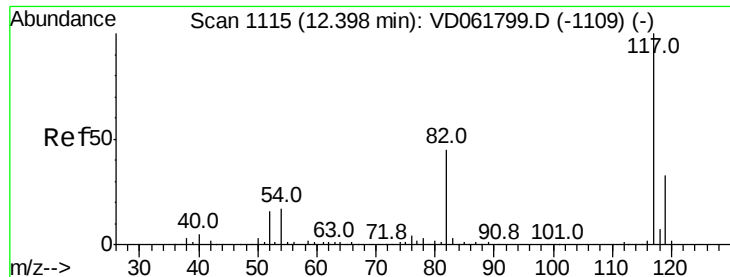


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

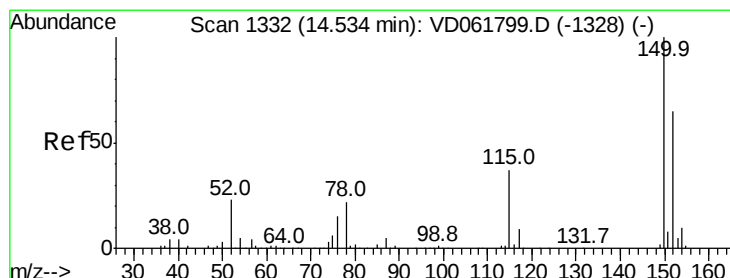
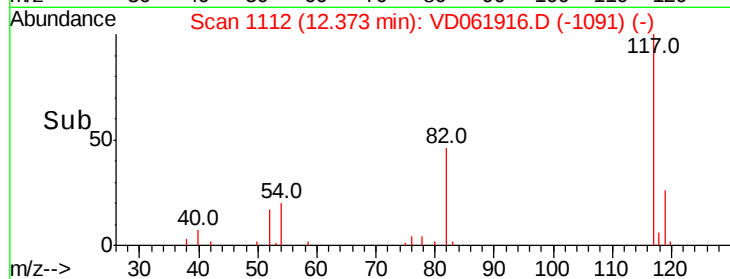
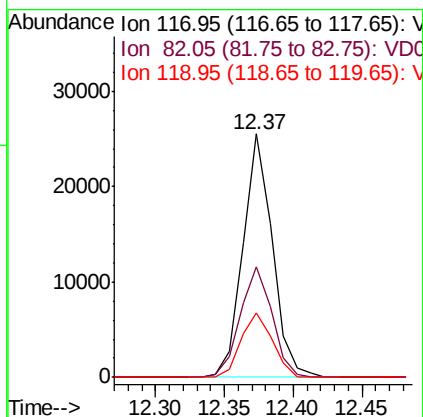
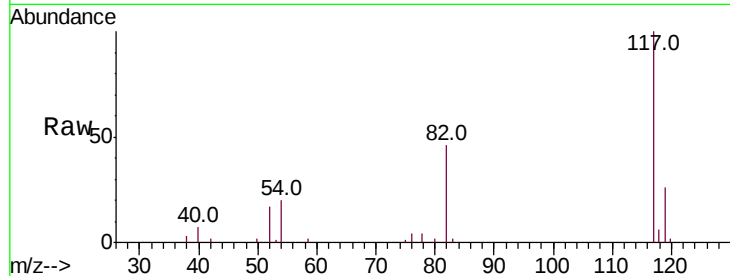




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD061916.D  
Acq: 19 Apr 2019 18:11

Instrument :  
MSVOA\_D  
ClientSampleId :  
HD-01-041619

Tot Ion:117 Resp: 38059  
Ion Ratio Lower Upper  
117 100  
82 45.6 36.2 54.2  
119 26.4 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VD061916.D  
Acq: 19 Apr 2019 18:11

Tgt Ion:152 Resp: 18172  
Ion Ratio Lower Upper  
152 100  
115 57.1 30.9 92.7  
150 156.7 0.0 314.8

