

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031220\  
 Data File : VD065492.D  
 Acq On : 12 Mar 2020 19:15  
 Operator : VA/SY  
 Sample : L1912-23  
 Misc : 7.30G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 Z1-4A

Quant Time: Mar 13 05:04:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 553493   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 939883   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 885009   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 416644   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 281871   | 59.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 118.74% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 301446   | 51.86 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.72% |      |
| 50) Toluene-d8              | 10.34  | 98  | 1143342  | 51.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.56% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 362289   | 52.63 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.26% |      |

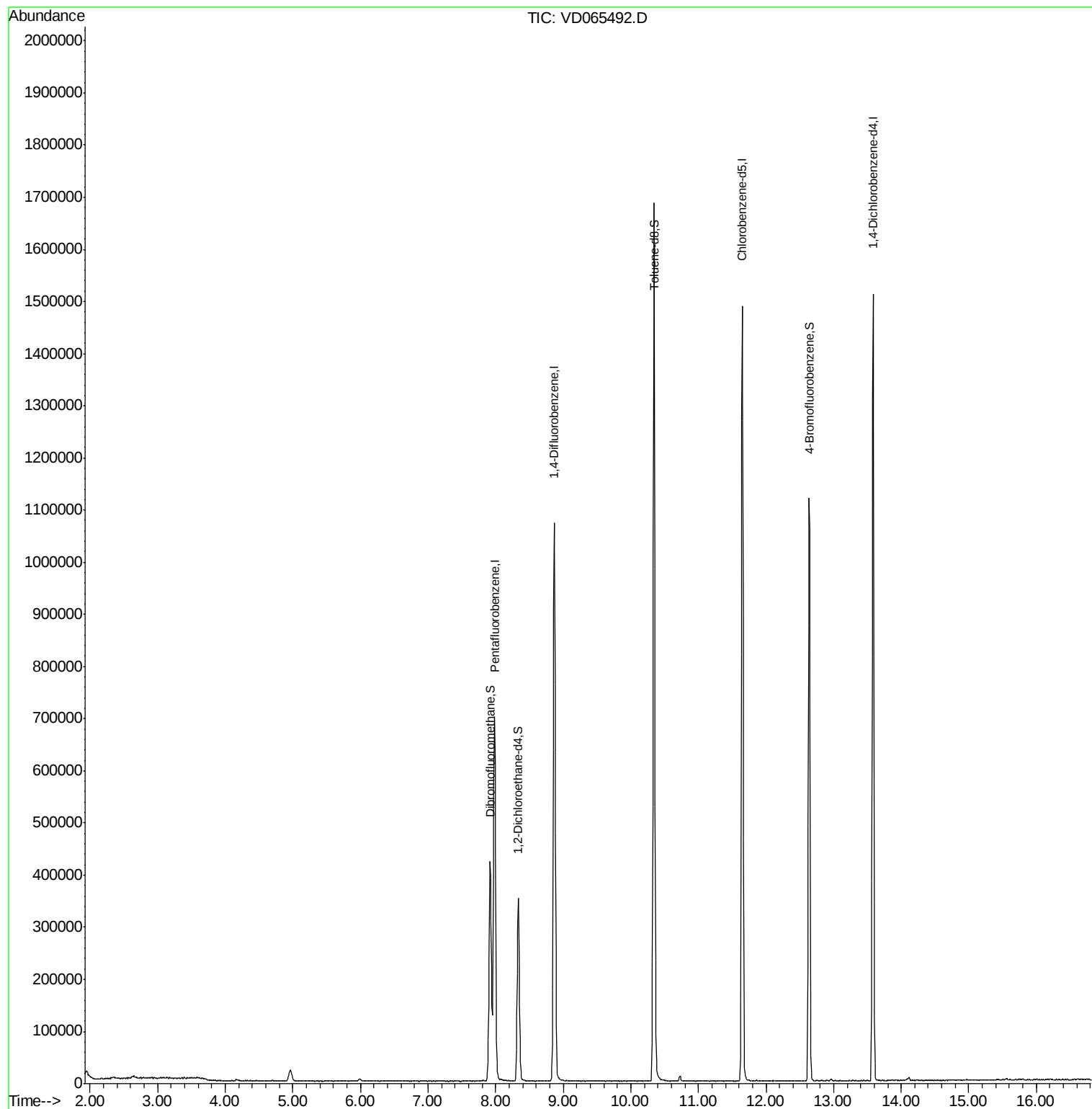
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

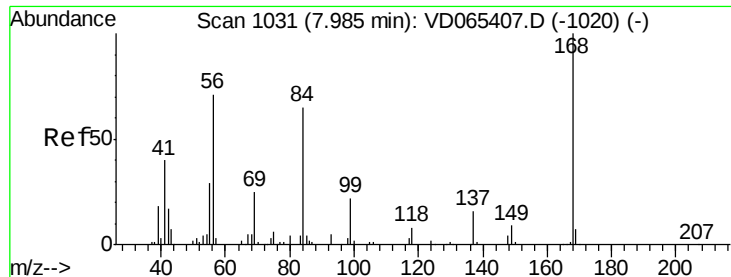
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031220\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
Z1-4A

Quant Time: Mar 13 05:04:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 01:22:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065492.D

Acq: 12 Mar 2020 19:15

Instrument :

MSVOA\_D

ClientSampled :

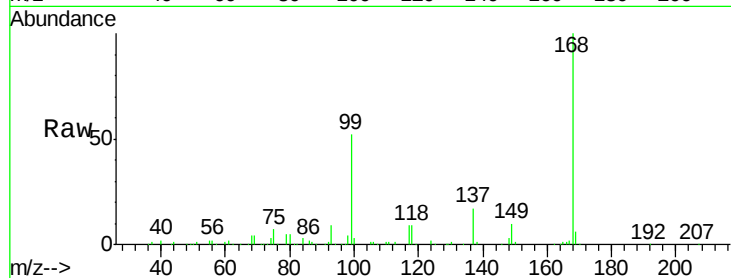
Z1-4A

Tot Ion:168 Resp: 553493

Ion Ratio Lower Upper

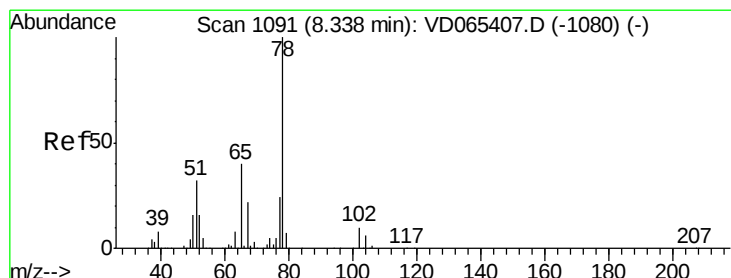
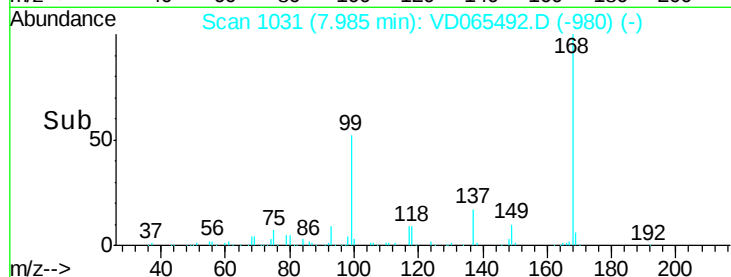
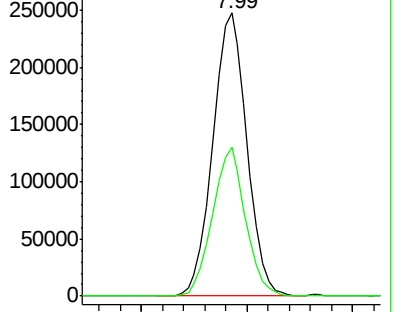
168 100

99 52.5 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 59.368 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065492.D

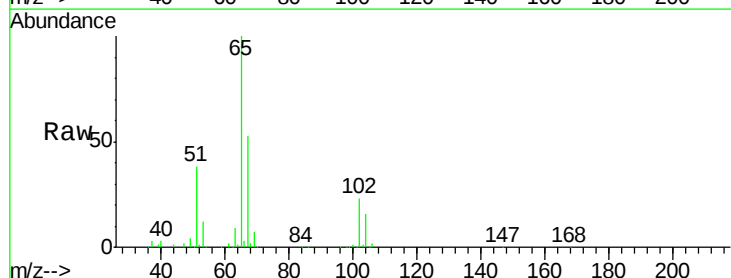
Acq: 12 Mar 2020 19:15

Tgt Ion: 65 Resp: 281871

Ion Ratio Lower Upper

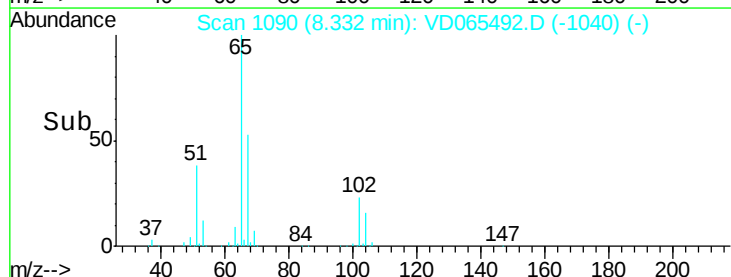
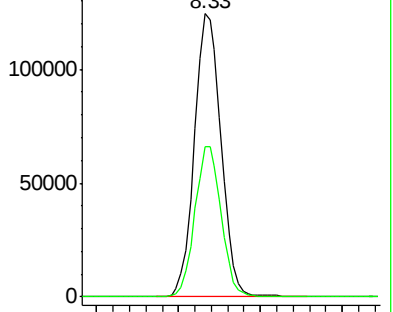
65 100

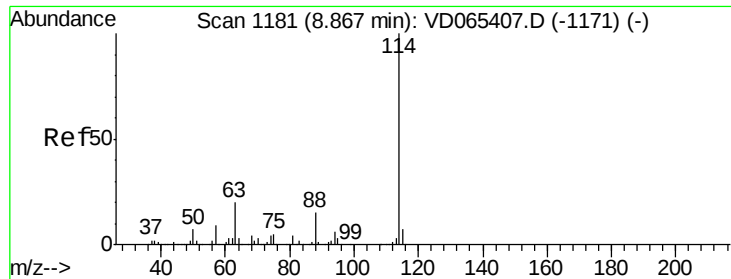
67 52.7 0.0 108.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

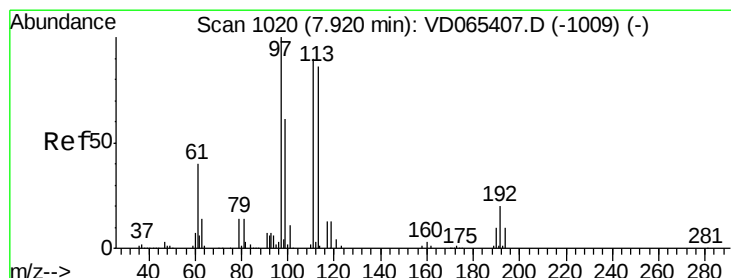
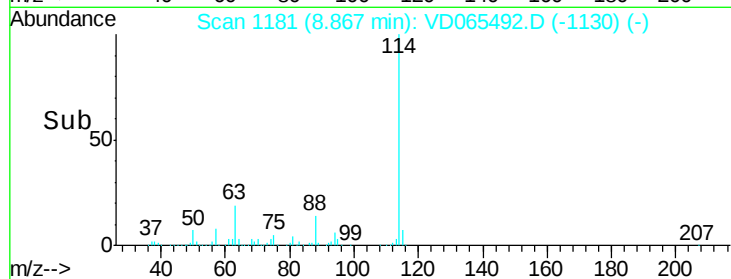
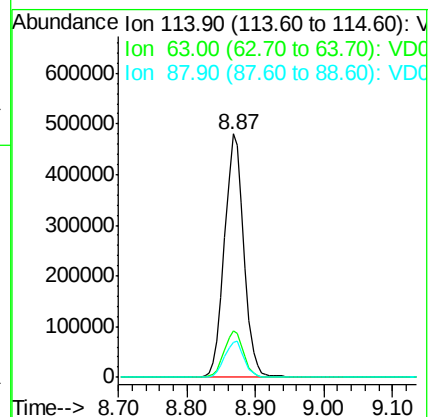
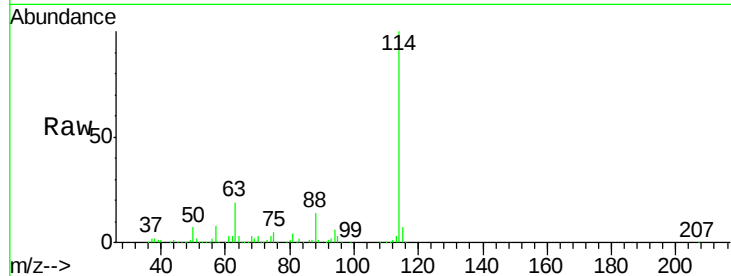




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065492.D  
 Acq: 12 Mar 2020 19:15

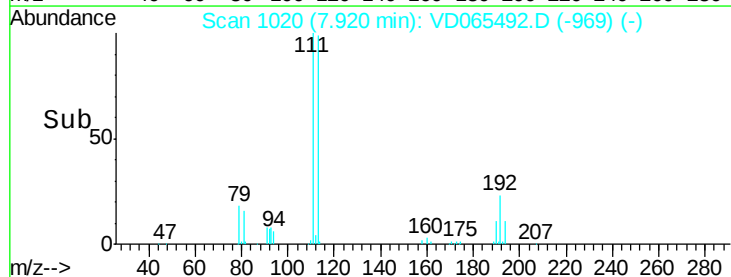
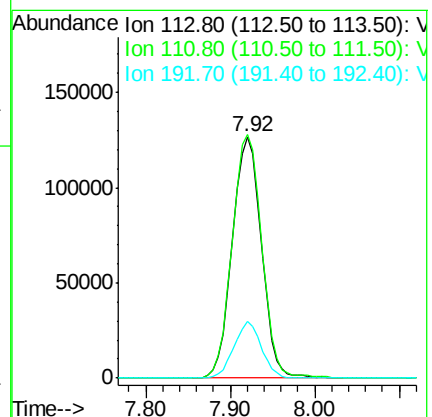
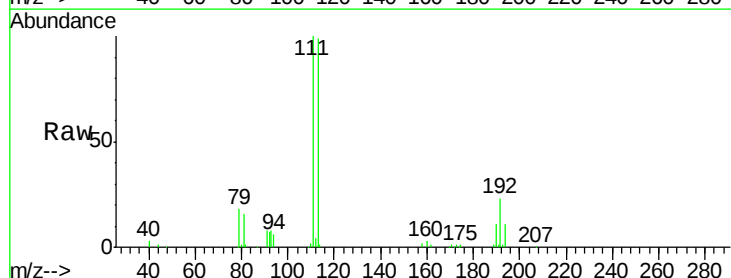
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 Z1-4A

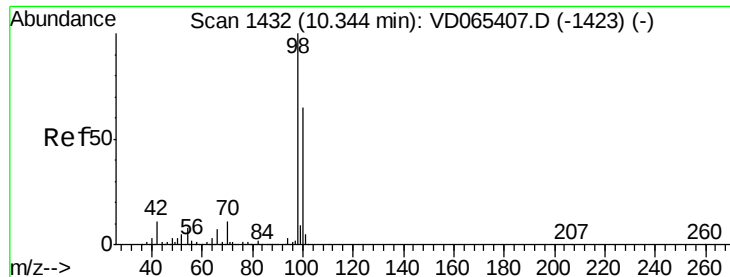
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.2  | 0.0   | 39.6  |
| 88      | 14.4  | 0.0   | 30.4  |



#35  
 Dibromofluoromethane  
 Concen: 51.863 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065492.D  
 Acq: 12 Mar 2020 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 82.1  | 123.1 |
| 192     | 22.1  | 17.2  | 25.8  |

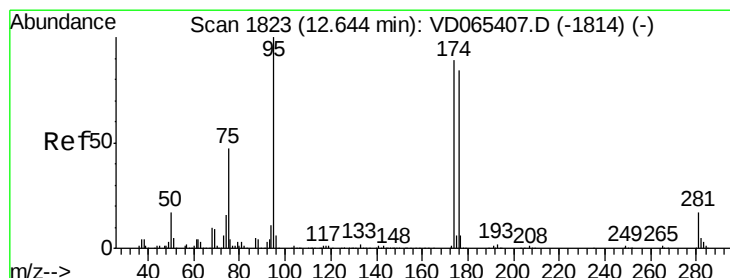
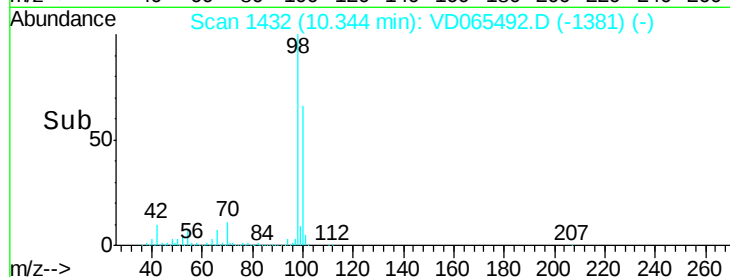
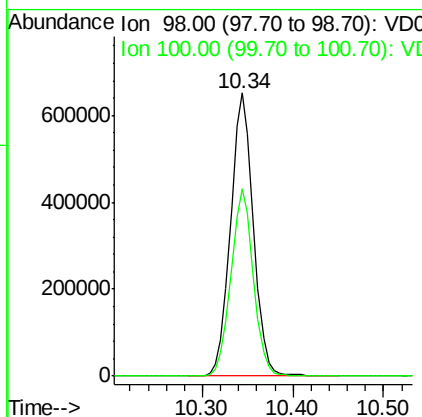
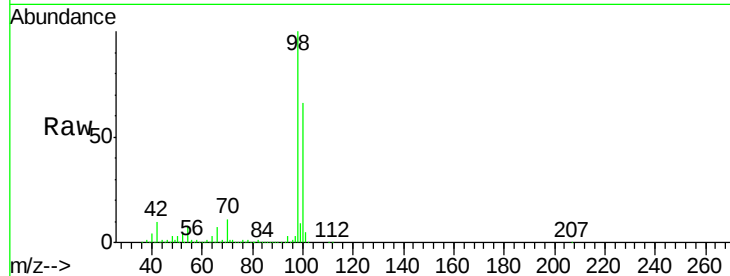




#50  
Toluene-d8  
Concen: 51.275 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065492.D  
Acq: 12 Mar 2020 19:15

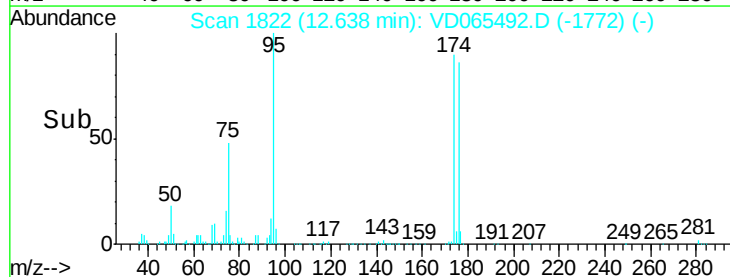
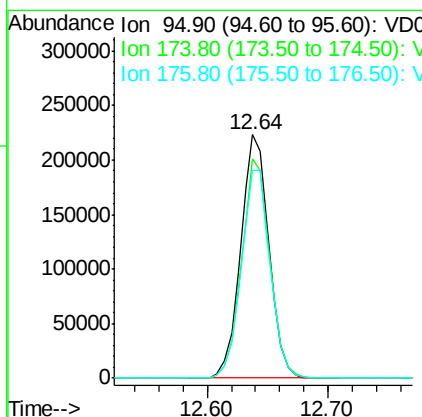
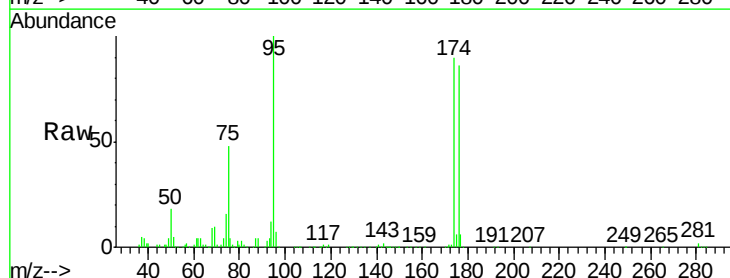
Instrument :  
MSVOA\_D  
ClientSampleId :  
Z1-4A

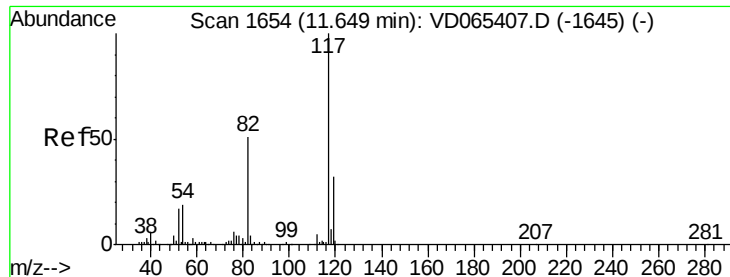
Tot Ion: 98 Resp: 1143342  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.8 79.2



#62  
4-Bromofluorobenzene  
Concen: 52.631 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.01 min  
Lab File: VD065492.D  
Acq: 12 Mar 2020 19:15

Tgt Ion: 95 Resp: 362289  
Ion Ratio Lower Upper  
95 100  
174 90.1 0.0 176.8  
176 87.2 0.0 171.4

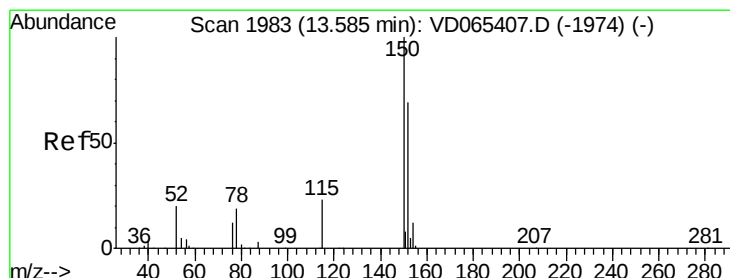
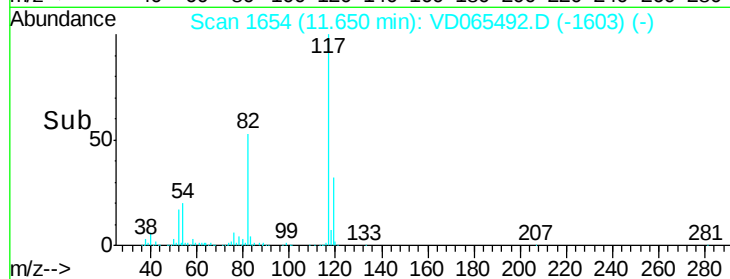
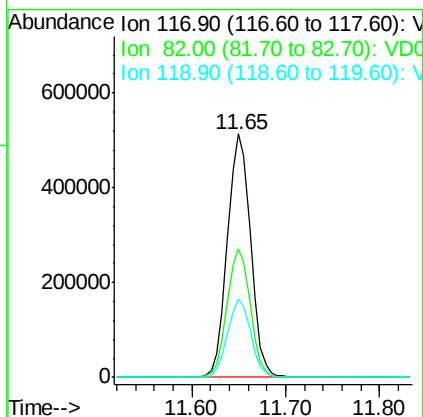
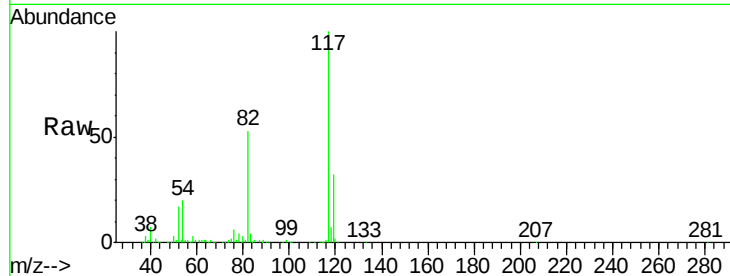




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065492.D  
Acq: 12 Mar 2020 19:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
Z1-4A

Tot Ion:117 Resp: 885009  
Ion Ratio Lower Upper  
117 100  
82 52.8 40.6 60.8  
119 32.3 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065492.D  
Acq: 12 Mar 2020 19:15

Tgt Ion:152 Resp: 416644  
Ion Ratio Lower Upper  
152 100  
115 54.4 27.6 82.8  
150 155.7 0.0 345.0

