

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121523\  
 Data File : VD077907.D  
 Acq On : 15 Dec 2023 16:51  
 Operator : RP/MD  
 Sample : 05624-03  
 Misc : 5.03G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 14TH-SOIL-2

Quant Time: Dec 16 04:04:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.875  | 168  | 187435   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 337141   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 321658   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.522 | 152  | 140470   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 87534    | 39.632   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 79.260% |
| 35) Dibromofluoromethane    | 7.810  | 113   | 101407   | 42.941   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 85.880% |
| 50) Toluene-d8              | 10.269 | 98    | 432547   | 45.732   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 91.460% |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 123267   | 43.591   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 87.180% |

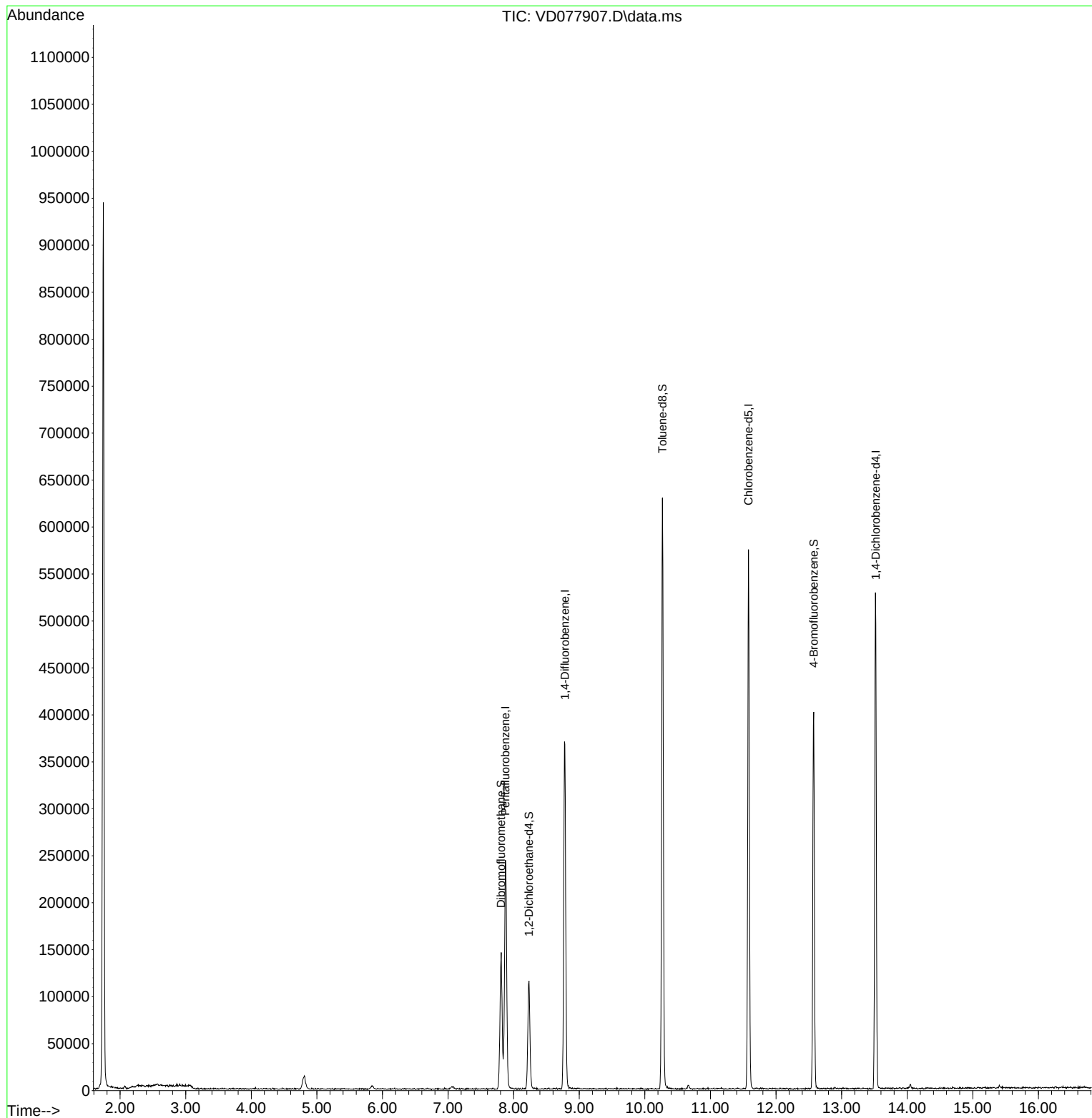
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

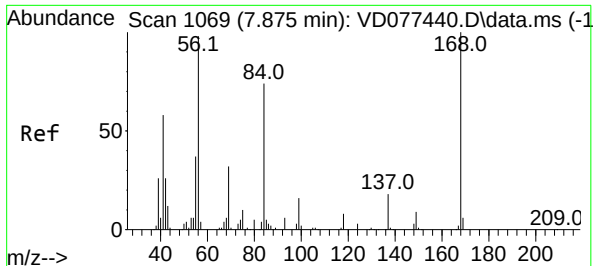
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 14 14:48:10 2023  
Response via : Initial Calibration

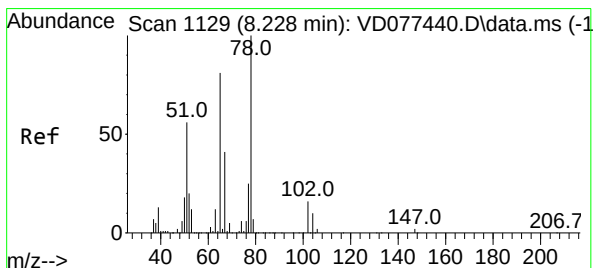
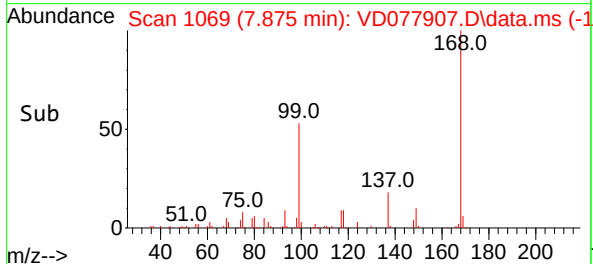
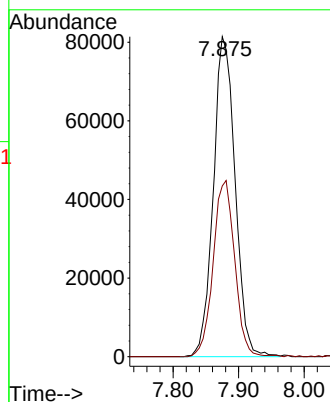
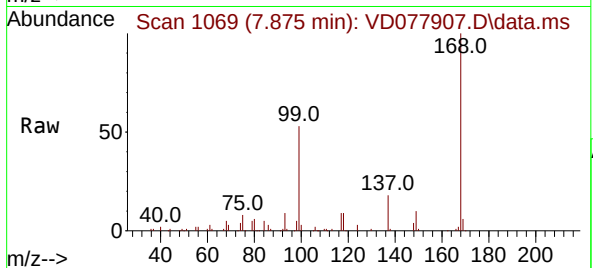




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 110  
Delta R.T. 0.000 min  
Lab File: VD077907.D  
Acq: 15 Dec 2023 16:51

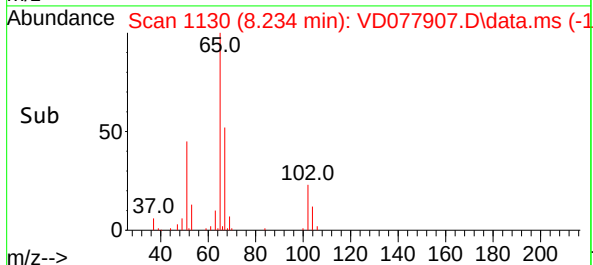
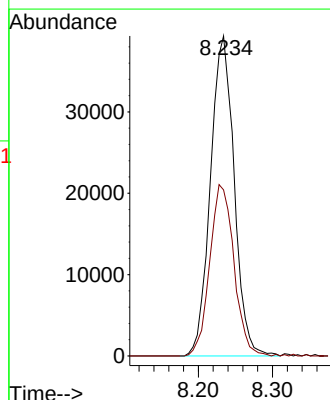
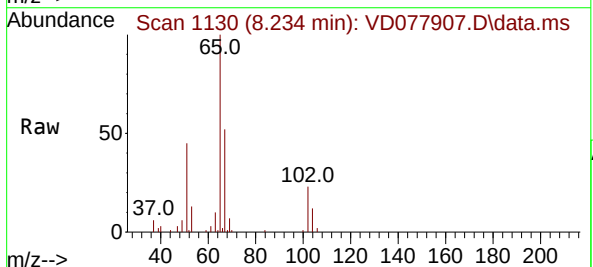
Instrument :  
MSVOA\_D  
ClientSampleId :  
14TH-SOIL-2

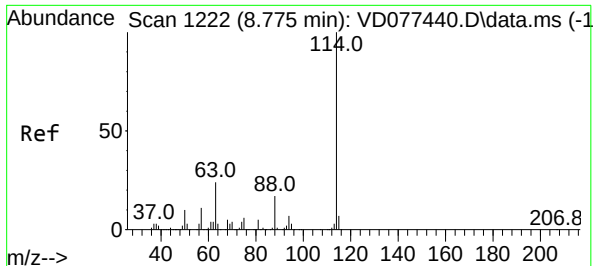
Tgt Ion:168 Resp: 187435  
Ion Ratio Lower Upper  
168 100  
99 53.4 36.7 55.1



#33  
1,2-Dichloroethane-d4  
Concen: 39.632 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD077907.D  
Acq: 15 Dec 2023 16:51

Tgt Ion: 65 Resp: 87534  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD077907.D

Acq: 15 Dec 2023 16:51

Instrument :

MSVOA\_D

ClientSampleId :

14TH-SOIL-2

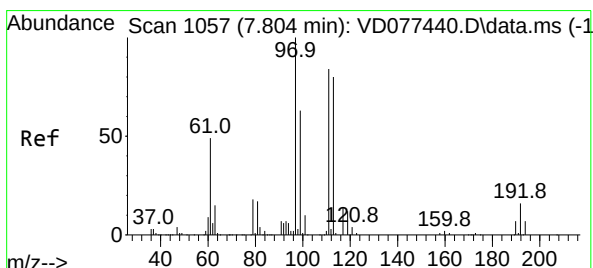
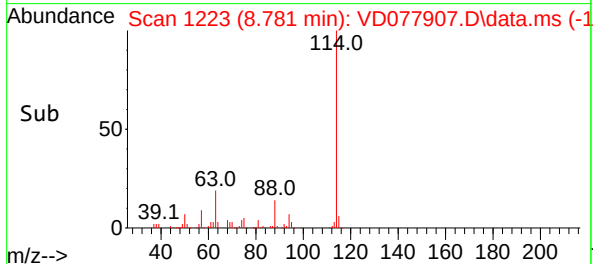
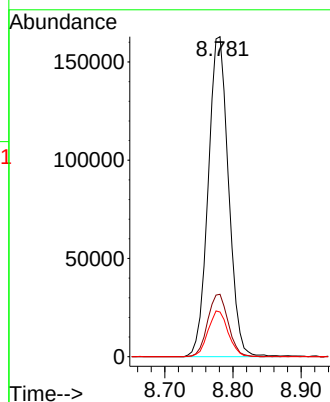
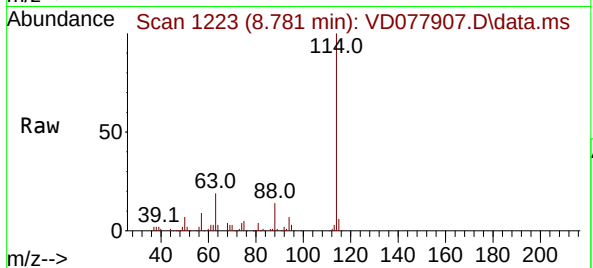
Tgt Ion:114 Resp: 337141

Ion Ratio Lower Upper

114 100

63 19.5 0.0 33.4

88 14.0 0.0 26.2



#35

Dibromofluoromethane

Concen: 42.941 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077907.D

Acq: 15 Dec 2023 16:51

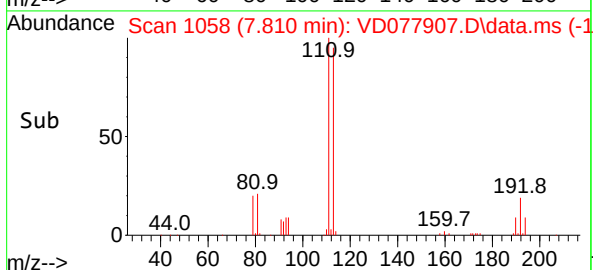
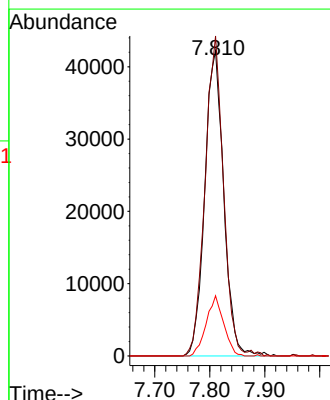
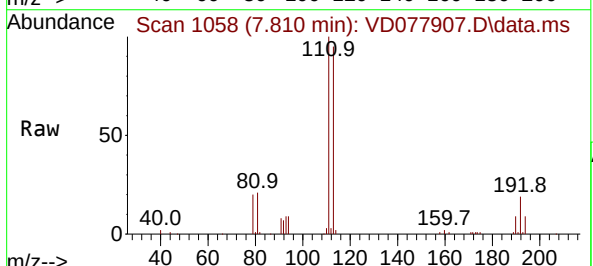
Tgt Ion:113 Resp: 101407

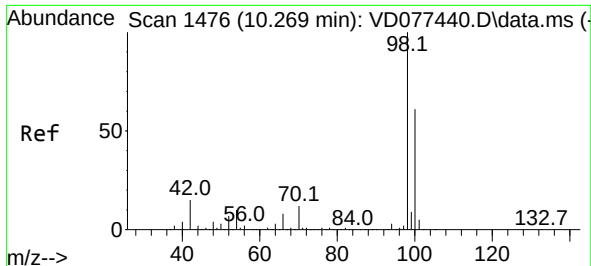
Ion Ratio Lower Upper

113 100

111 101.1 84.7 127.1

192 18.1 16.8 25.2

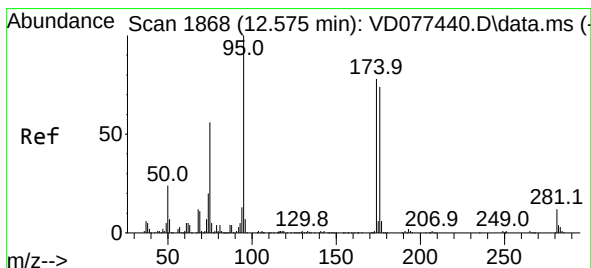
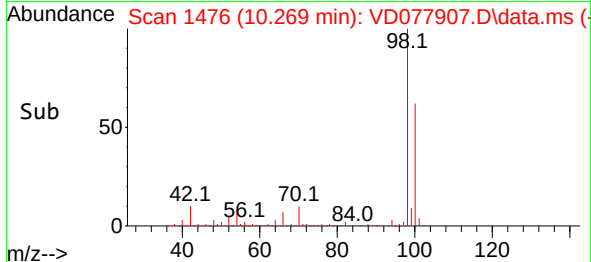
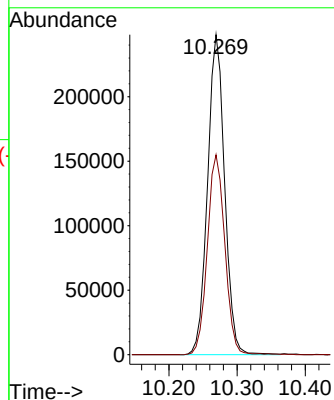
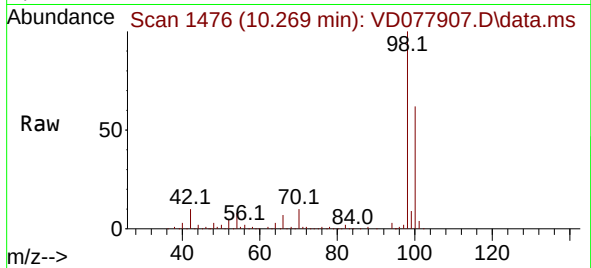




#50  
Toluene-d8  
Concen: 45.732 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD077907.D  
Acq: 15 Dec 2023 16:51

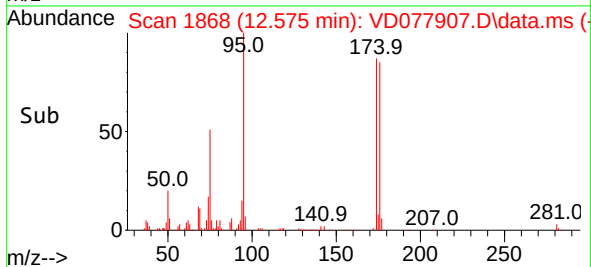
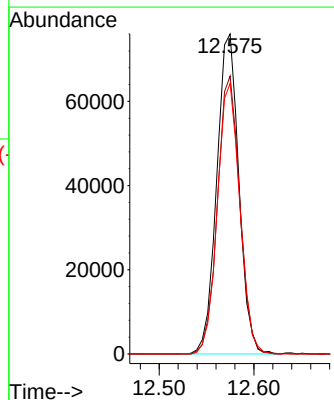
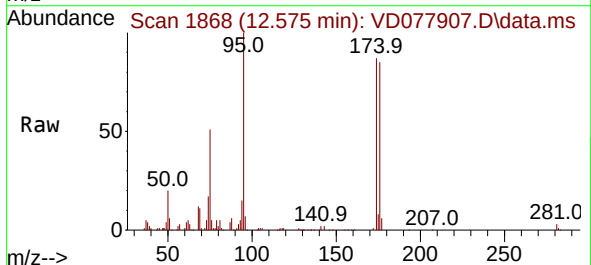
Instrument :  
MSVOA\_D  
ClientSampleId :  
14TH-SOIL-2

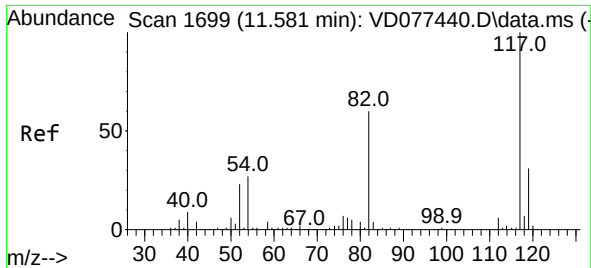
Tgt Ion: 98 Resp: 432547  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 43.591 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD077907.D  
Acq: 15 Dec 2023 16:51

Tgt Ion: 95 Resp: 123267  
Ion Ratio Lower Upper  
95 100  
174 87.5 0.0 201.8  
176 85.7 0.0 191.8

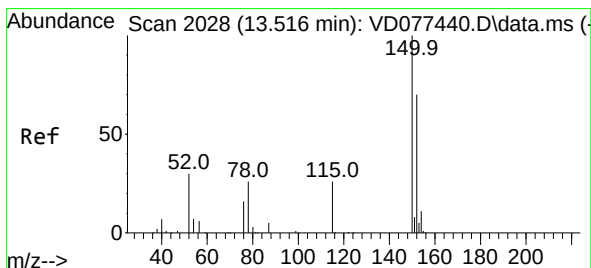
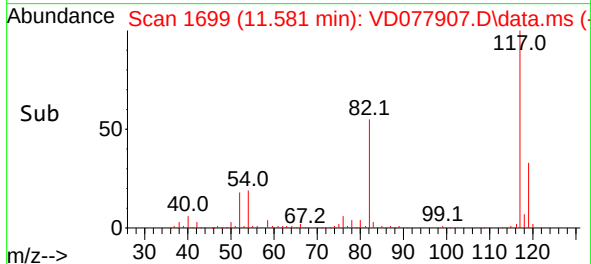
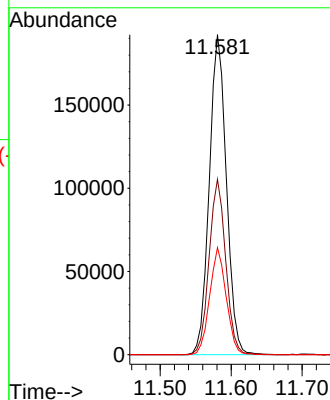
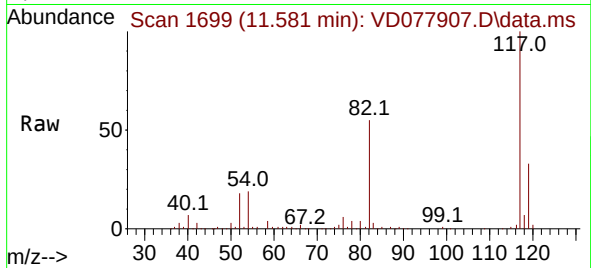




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD077907.D  
Acq: 15 Dec 2023 16:51

Instrument :  
MSVOA\_D  
ClientSampleId :  
14TH-SOIL-2

Tgt Ion:117 Resp: 321658  
Ion Ratio Lower Upper  
117 100  
82 54.8 38.3 57.5  
119 33.4 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: VD077907.D  
Acq: 15 Dec 2023 16:51

Tgt Ion:152 Resp: 140470  
Ion Ratio Lower Upper  
152 100  
115 57.2 27.1 81.3  
150 161.3 0.0 353.6

