

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD103123\  
 Data File : VD077459.D  
 Acq On : 31 Oct 2023 14:25  
 Operator : JC/SY  
 Sample : 05141-02  
 Misc : 5.05G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PE-2

Quant Time: Nov 01 06:07:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 04:19:17 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.875  | 168  | 269111   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 542857   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 594845   | 50.000 | ug/l  | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 307085   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 150285   | 39.493   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 78.980%  |
| 35) Dibromofluoromethane    | 7.811  | 113   | 159374   | 42.477   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 84.960%  |
| 50) Toluene-d8              | 10.269 | 98    | 710838   | 48.775   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 97.560%  |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 310606   | 63.279   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 126.560% |

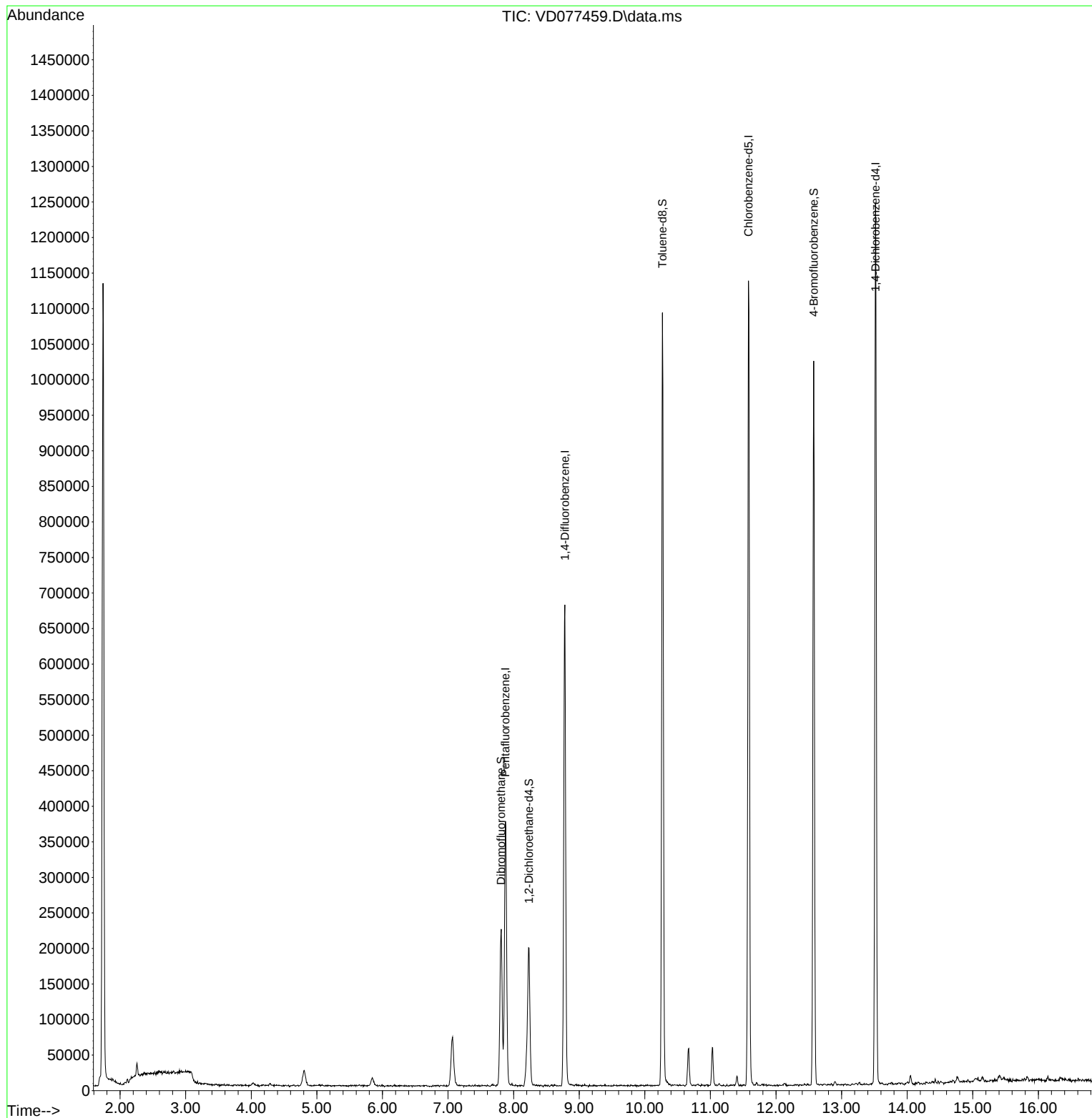
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

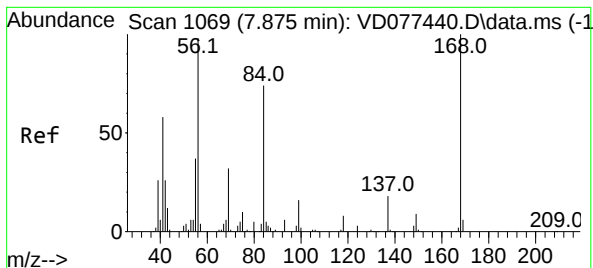
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Oct 31 04:19:17 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: VD077459.D

Acq: 31 Oct 2023 14:25

Instrument :

MSVOA\_D

ClientSampleId :

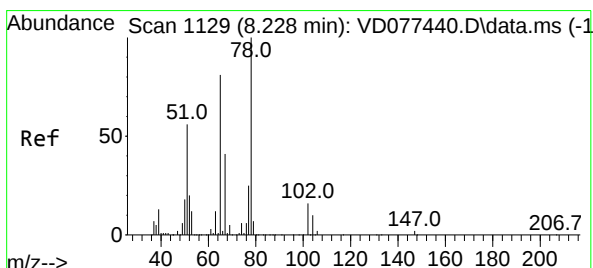
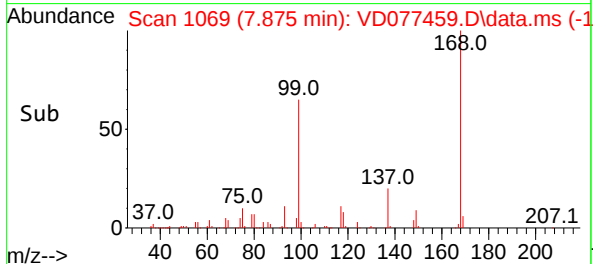
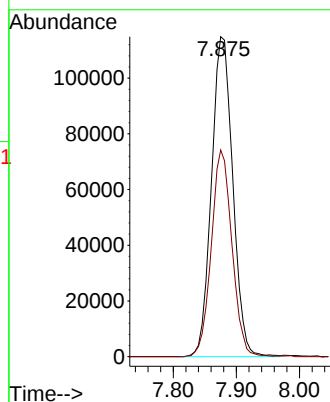
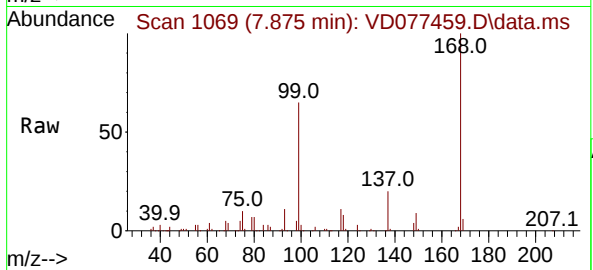
PE-2

Tgt Ion:168 Resp: 269111

Ion Ratio Lower Upper

168 100

99 64.6 36.7 55.1#



#33

1,2-Dichloroethane-d4

Concen: 39.493 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD077459.D

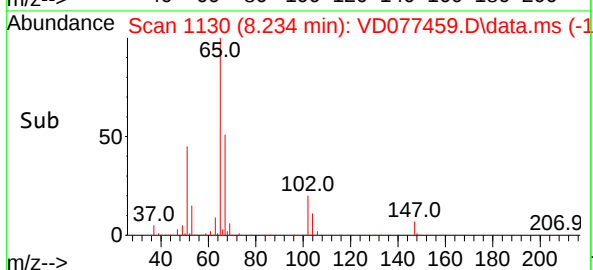
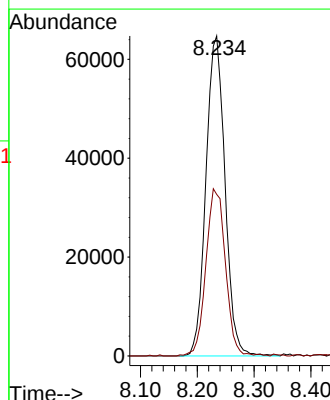
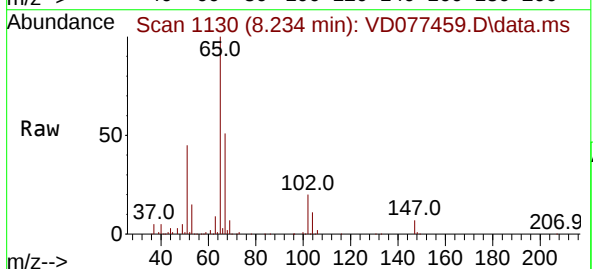
Acq: 31 Oct 2023 14:25

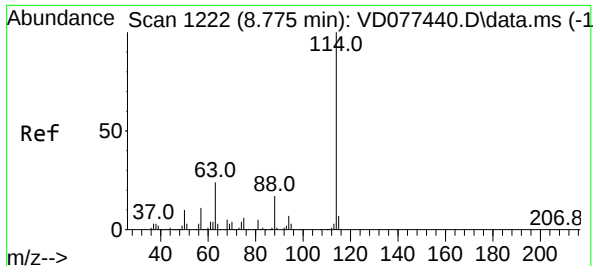
Tgt Ion: 65 Resp: 150285

Ion Ratio Lower Upper

65 100

67 53.5 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: VD077459.D

Acq: 31 Oct 2023 14:25

Instrument :

MSVOA\_D

ClientSampleId :

PE-2

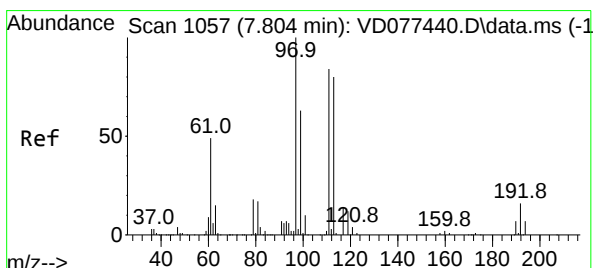
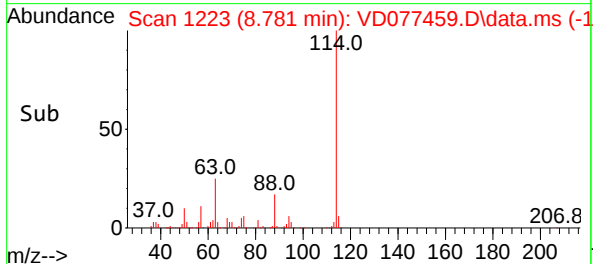
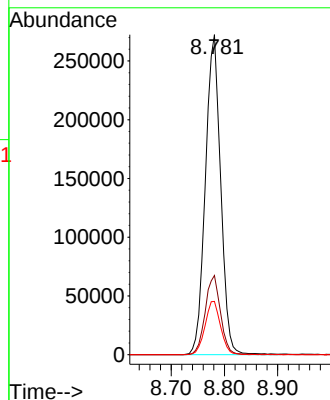
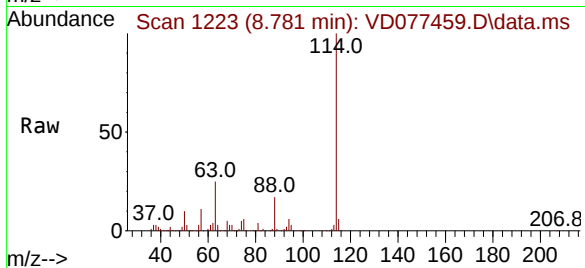
Tgt Ion:114 Resp: 542857

Ion Ratio Lower Upper

114 100

63 24.8 0.0 33.4

88 16.6 0.0 26.2



#35

Dibromofluoromethane

Concen: 42.477 ug/l

RT: 7.811 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077459.D

Acq: 31 Oct 2023 14:25

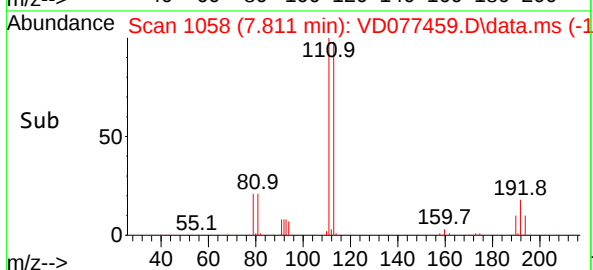
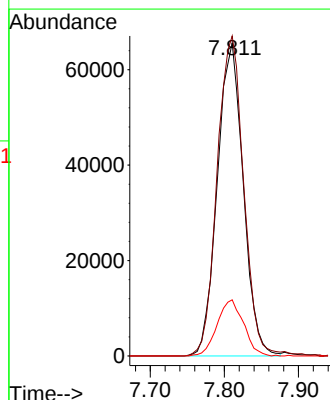
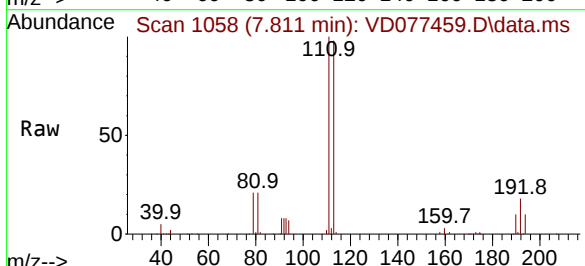
Tgt Ion:113 Resp: 159374

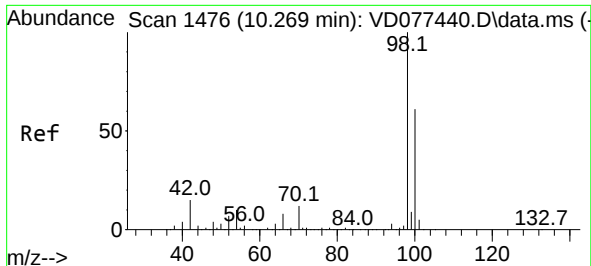
Ion Ratio Lower Upper

113 100

111 104.9 84.7 127.1

192 18.3 16.8 25.2

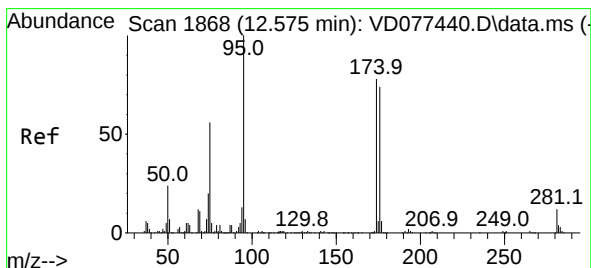
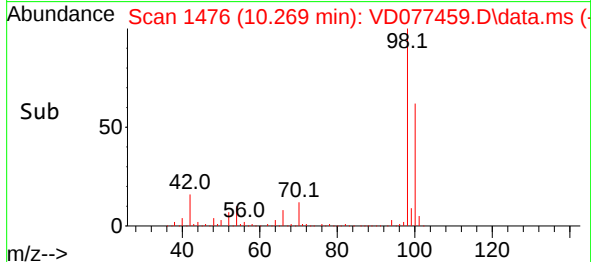
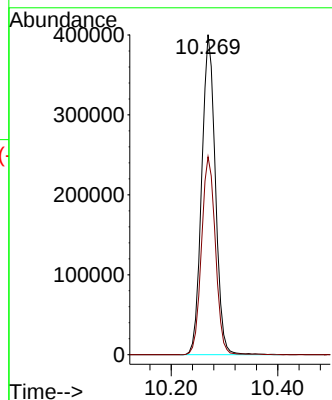
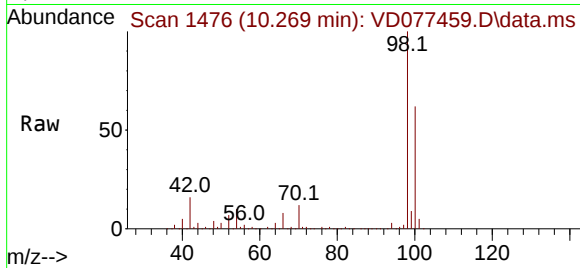




#50  
Toluene-d8  
Concen: 48.775 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD077459.D  
Acq: 31 Oct 2023 14:25

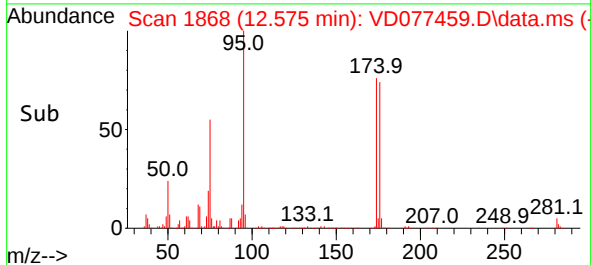
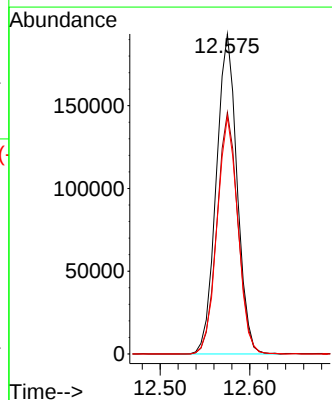
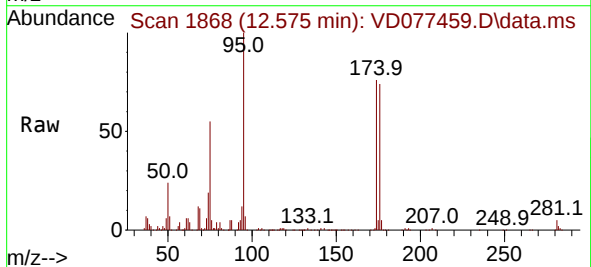
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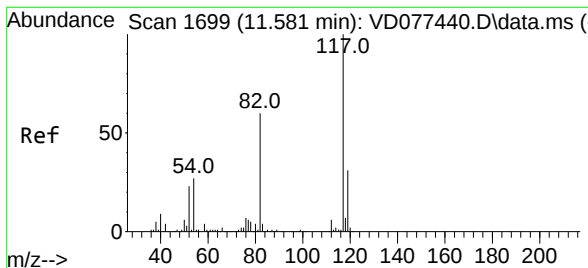
Tgt Ion: 98 Resp: 710838  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 63.279 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.000 min  
Lab File: VD077459.D  
Acq: 31 Oct 2023 14:25

Tgt Ion: 95 Resp: 310606  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 201.8  
176 73.9 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD077459.D

Acq: 31 Oct 2023 14:25

Instrument :

MSVOA\_D

ClientSampleId :

PE-2

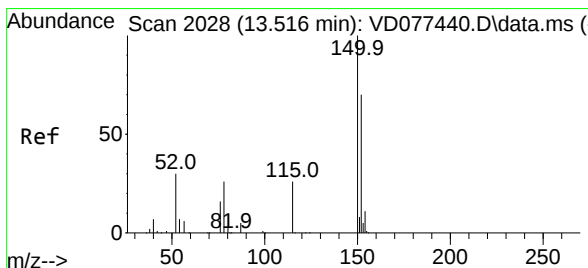
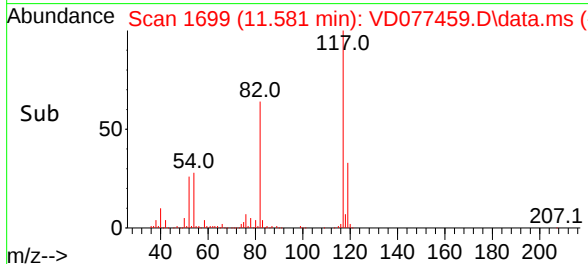
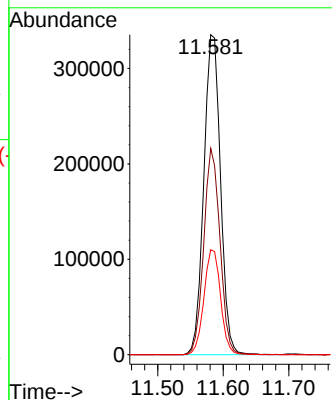
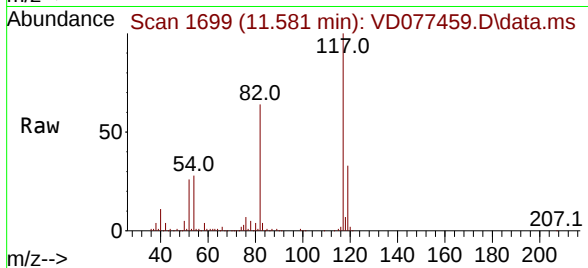
Tgt Ion:117 Resp: 594845

Ion Ratio Lower Upper

117 100

82 64.4 38.3 57.5#

119 32.8 25.0 37.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. 0.000 min

Lab File: VD077459.D

Acq: 31 Oct 2023 14:25

Tgt Ion:152 Resp: 307085

Ion Ratio Lower Upper

152 100

115 61.0 27.1 81.3

150 157.1 0.0 353.6

