

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042325\  
 Data File : VY021977.D  
 Acq On : 23 Apr 2025 17:24  
 Operator : SY/MD  
 Sample : Q1852-07  
 Misc : 6.15g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 72-12013

Quant Time: Apr 24 03:47:20 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 301870   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 576389   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 524535   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 216085   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 151741   | 54.420   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 108.840% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 190124   | 49.928   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 99.860%  |
| 50) Toluene-d8              | 10.103 | 98    | 695368   | 48.438   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 96.880%  |
| 62) 4-Bromofluorobenzene    | 12.402 | 95    | 216079   | 44.711   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 89.420%  |

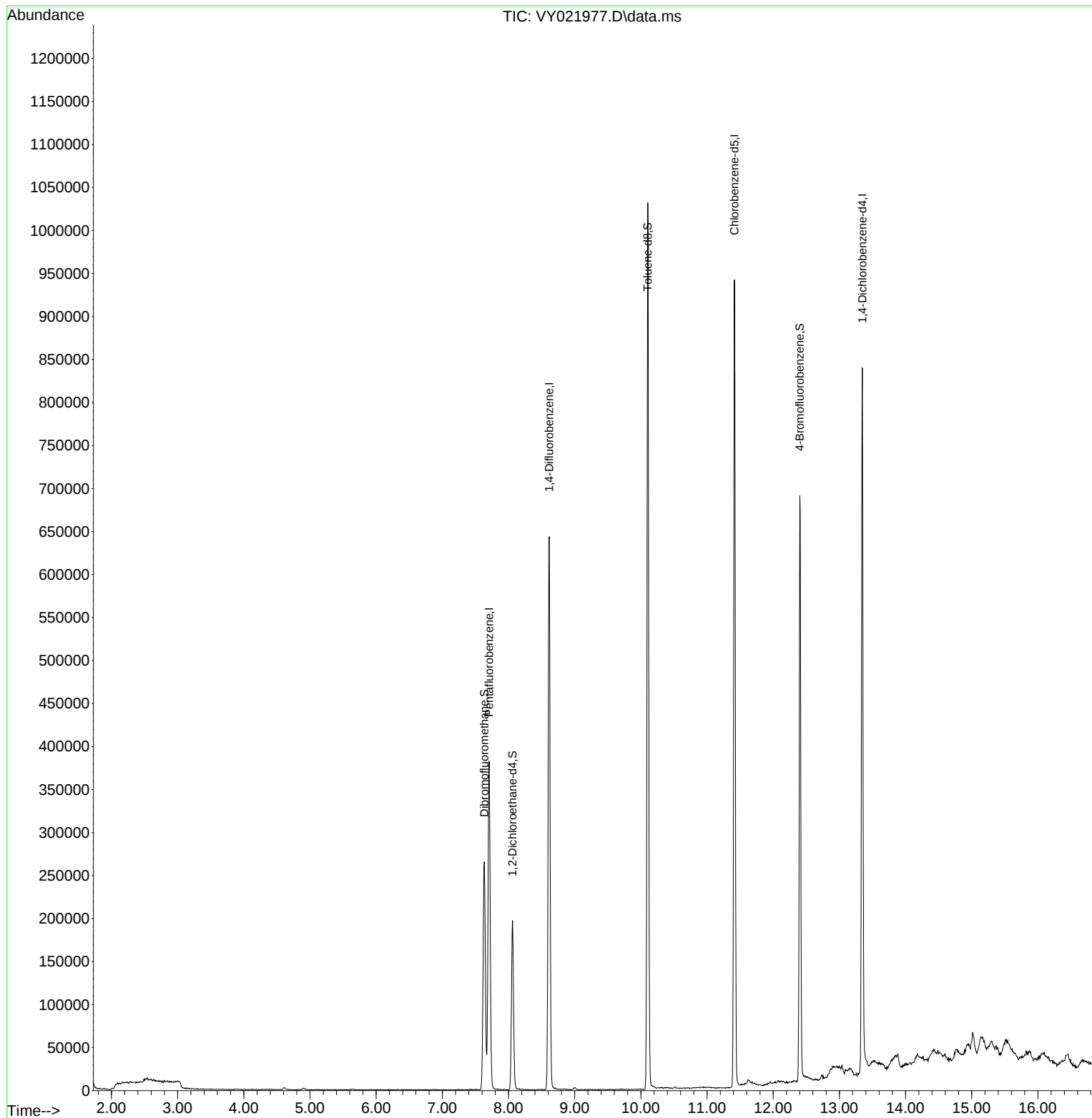
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

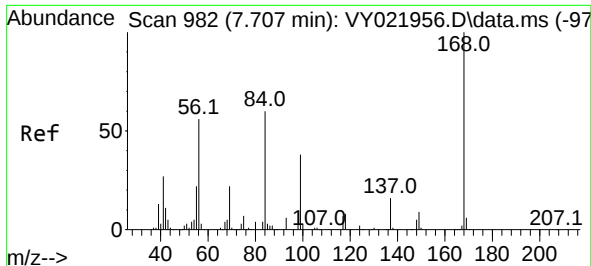
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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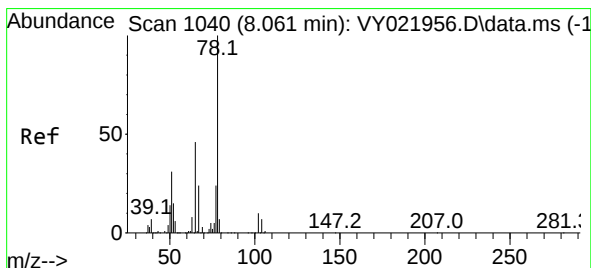
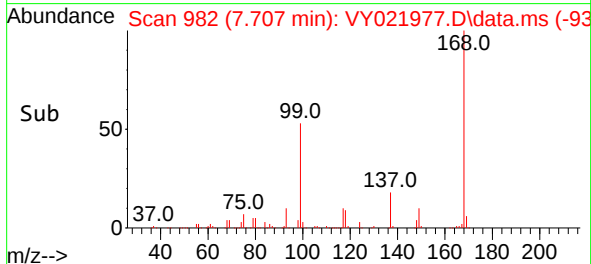
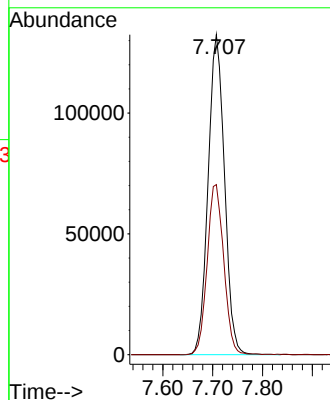
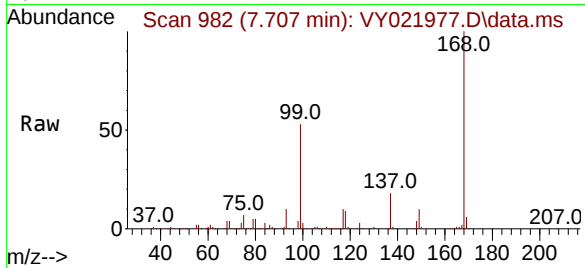




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021977.D  
Acq: 23 Apr 2025 17:24

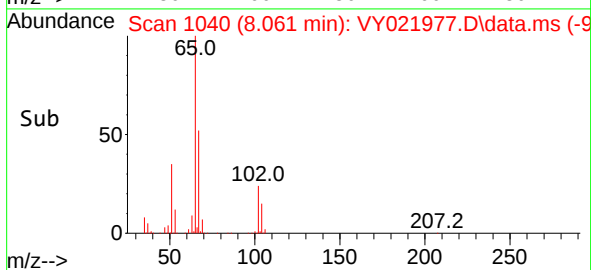
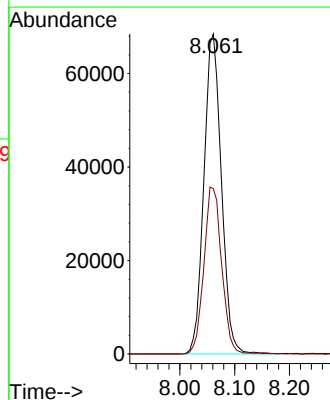
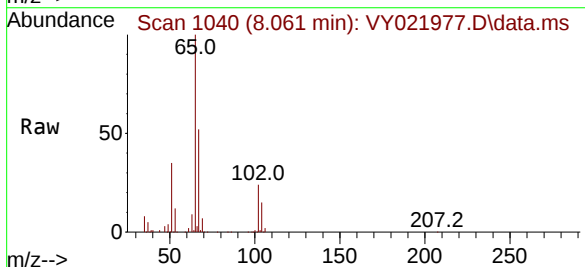
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-12013

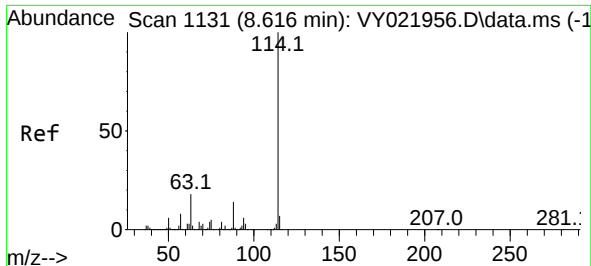
Tgt Ion:168 Resp: 301870  
Ion Ratio Lower Upper  
168 100  
99 53.2 43.1 64.7



#33  
1,2-Dichloroethane-d4  
Concen: 54.420 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY021977.D  
Acq: 23 Apr 2025 17:24

Tgt Ion: 65 Resp: 151741  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021977.D

Acq: 23 Apr 2025 17:24

Instrument :

MSVOA\_Y

ClientSampleId :

72-12013

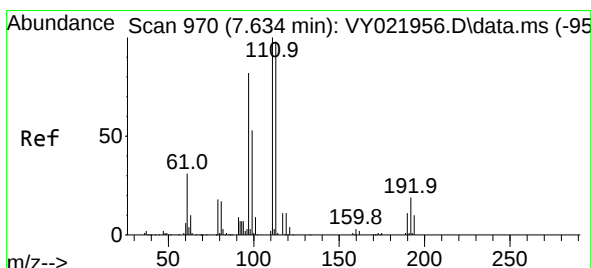
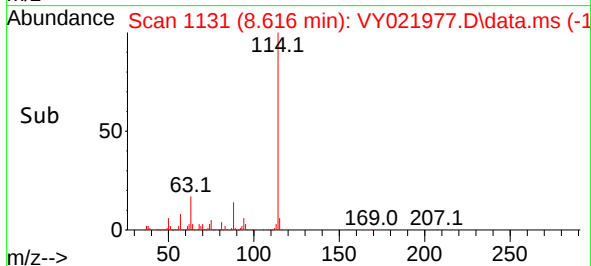
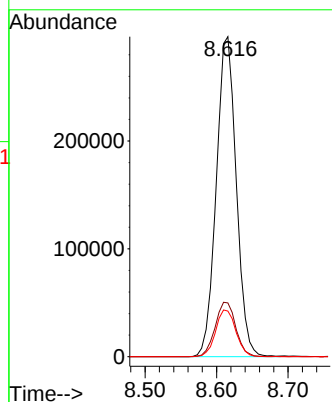
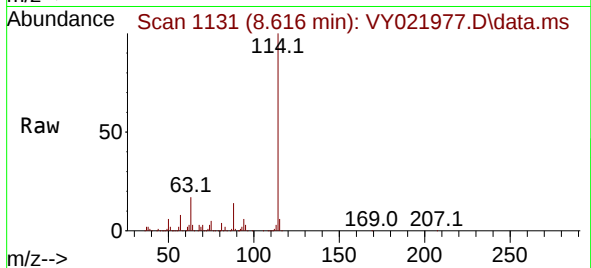
Tgt Ion:114 Resp: 576389

Ion Ratio Lower Upper

114 100

63 16.8 0.0 35.4

88 14.2 0.0 28.2



#35

Dibromofluoromethane

Concen: 49.928 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY021977.D

Acq: 23 Apr 2025 17:24

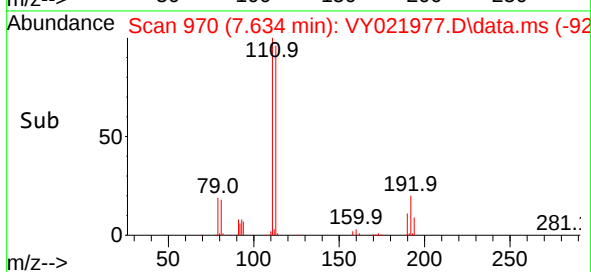
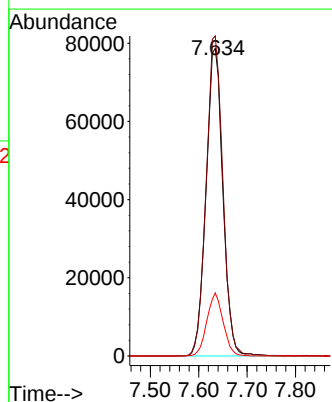
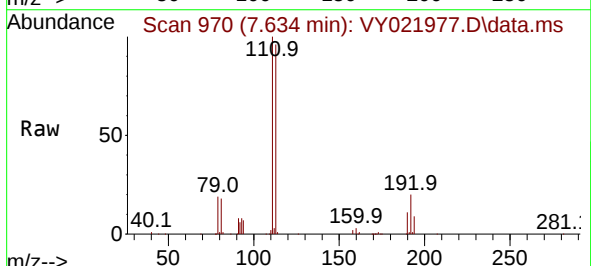
Tgt Ion:113 Resp: 190124

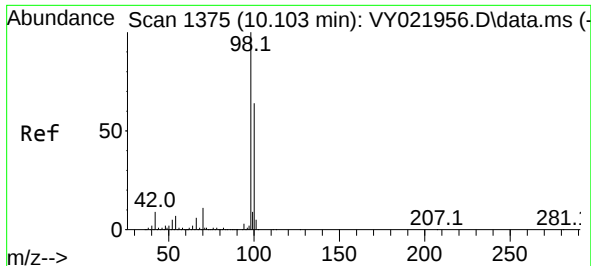
Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

192 19.8 15.6 23.4

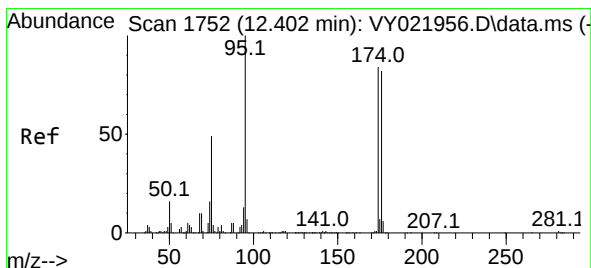
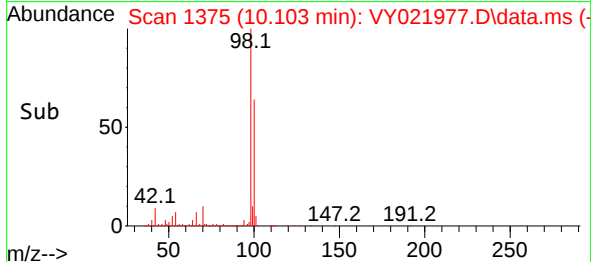
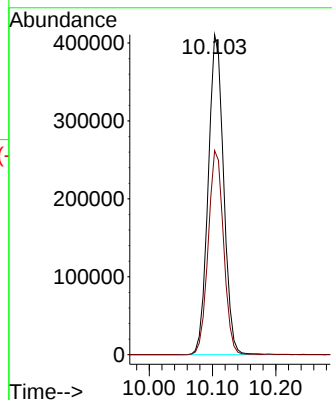
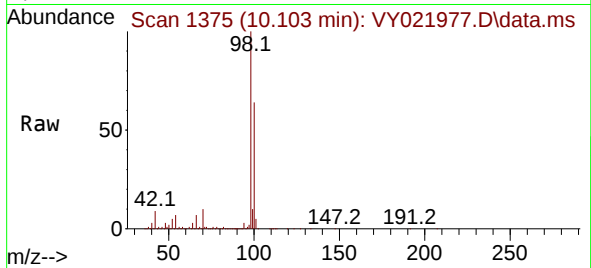




#50  
Toluene-d8  
Concen: 48.438 ug/l  
RT: 10.103 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY021977.D  
Acq: 23 Apr 2025 17:24

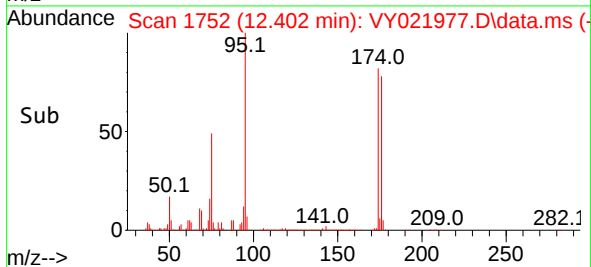
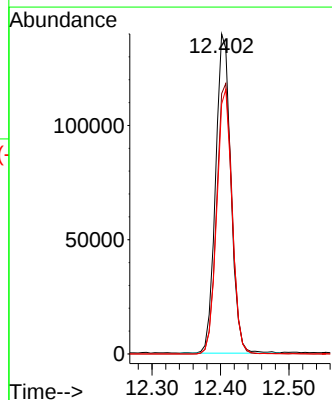
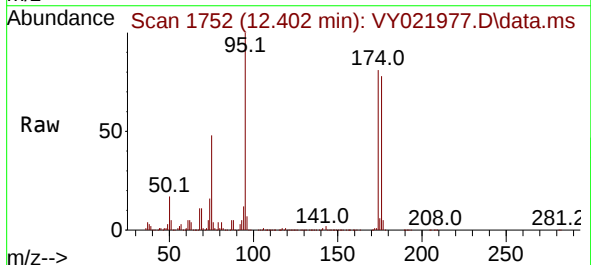
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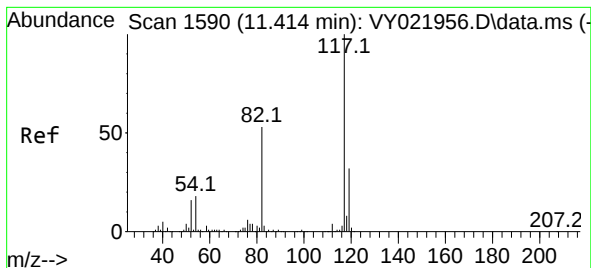
Tgt Ion: 98 Resp: 695368  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 44.711 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY021977.D  
Acq: 23 Apr 2025 17:24

Tgt Ion: 95 Resp: 216079  
Ion Ratio Lower Upper  
95 100  
174 85.5 0.0 179.0  
176 82.7 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY021977.D

Acq: 23 Apr 2025 17:24

Instrument :

MSVOA\_Y

ClientSampleId :

72-12013

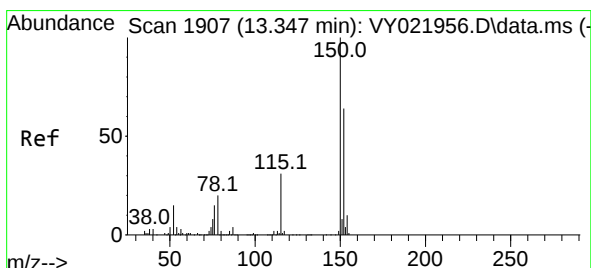
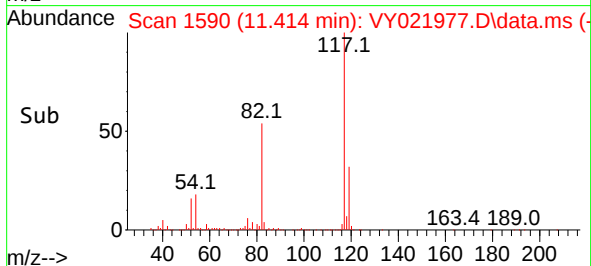
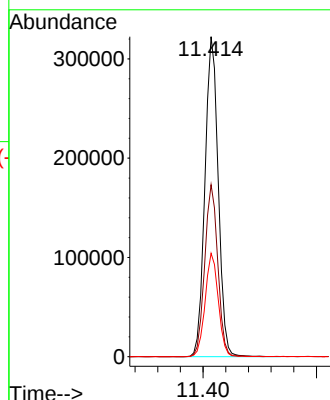
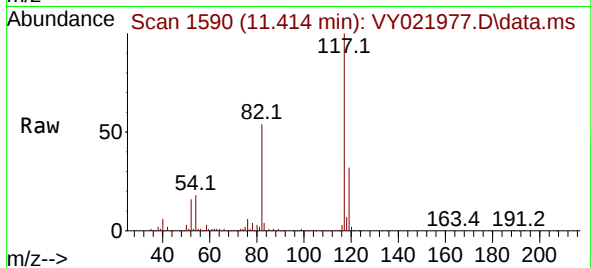
Tgt Ion:117 Resp: 524535

Ion Ratio Lower Upper

117 100

82 53.8 42.1 63.1

119 32.3 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021977.D

Acq: 23 Apr 2025 17:24

Tgt Ion:152 Resp: 216085

Ion Ratio Lower Upper

152 100

115 57.5 28.0 84.0

150 158.3 0.0 345.6

