

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051225\  
 Data File : VY022212.D  
 Acq On : 12 May 2025 10:31  
 Operator : SY/MD  
 Sample : Q1978-01  
 Misc : 5.47g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 72-12016

Quant Time: May 13 02:17:07 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      | 7.713  | 168  | 6285     | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.622  | 114  | 8538     | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 6436     | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152  | 1104     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 3346     | 57.637   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 115.280% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 2332     | 41.343   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 82.680%  |
| 50) Toluene-d8              | 10.109 | 98    | 9527     | 44.801   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 89.600%  |
| 62) 4-Bromofluorobenzene    | 12.407 | 95    | 1628     | 22.741   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 45.480%  |

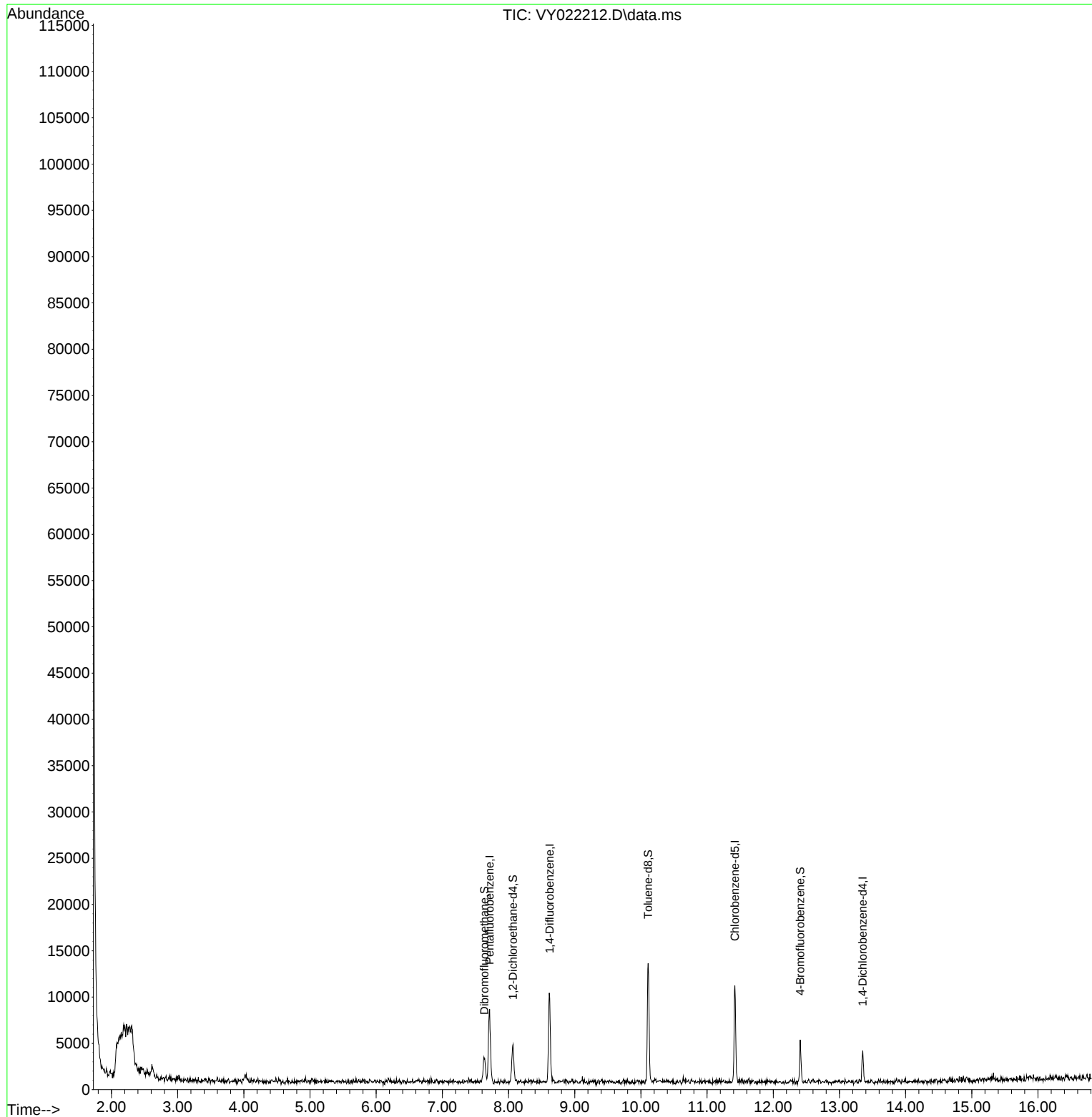
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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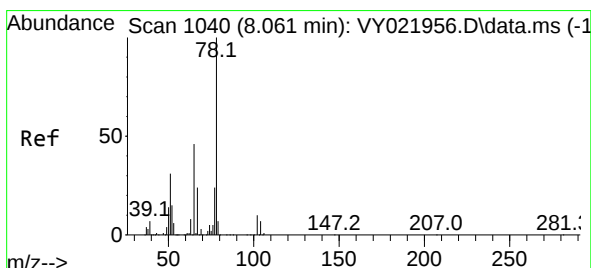
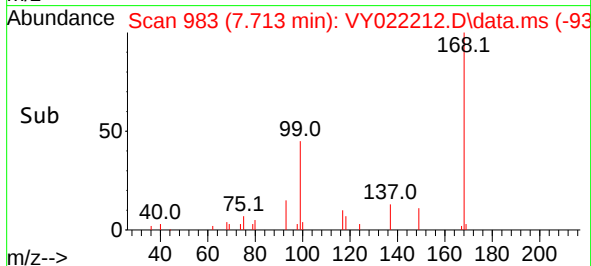
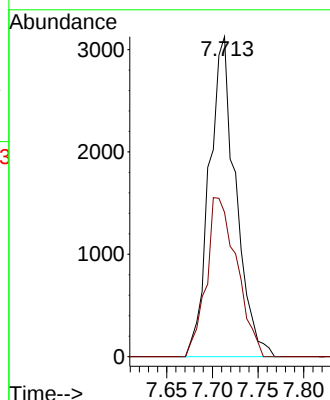
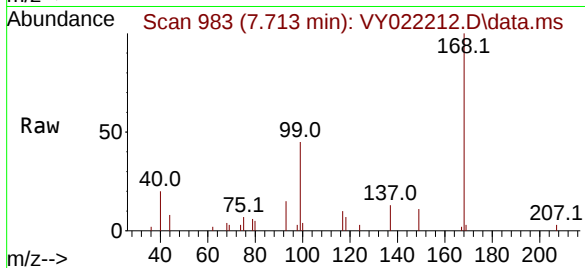




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY022212.D  
Acq: 12 May 2025 10:31

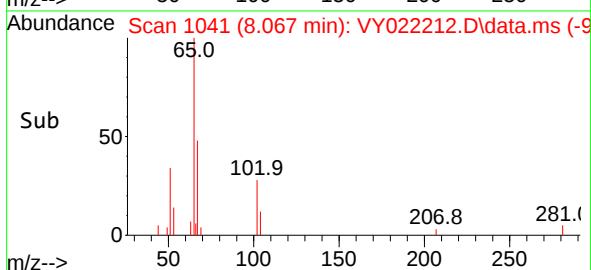
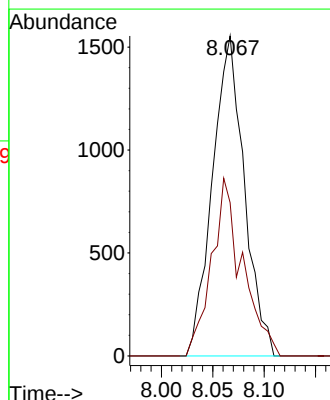
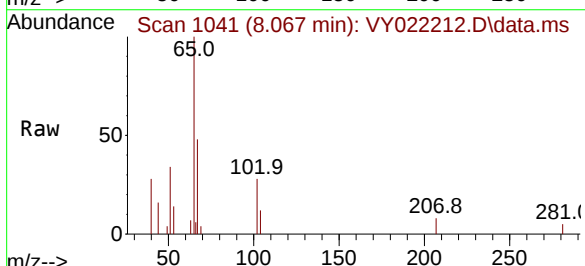
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-12016

Tgt Ion:168 Resp: 6285  
Ion Ratio Lower Upper  
168 100  
99 45.1 43.1 64.7



#33  
1,2-Dichloroethane-d4  
Concen: 57.637 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VY022212.D  
Acq: 12 May 2025 10:31

Tgt Ion: 65 Resp: 3346  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 105.8

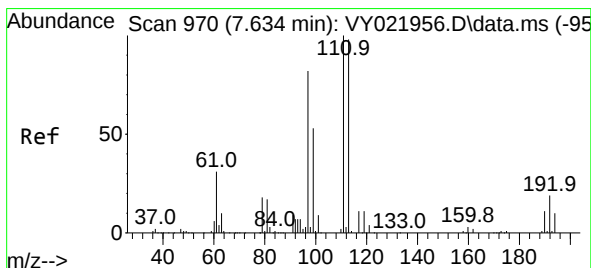
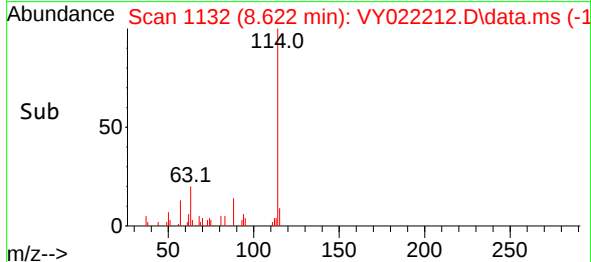
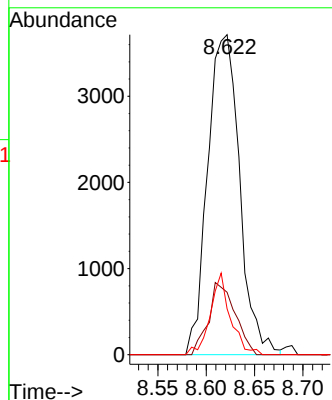
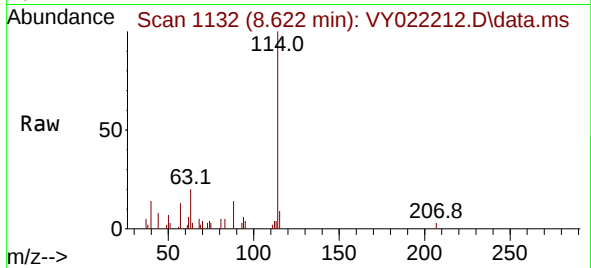




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.622 min Scan# 1132  
Delta R.T. 0.006 min  
Lab File: VY022212.D  
Acq: 12 May 2025 10:31

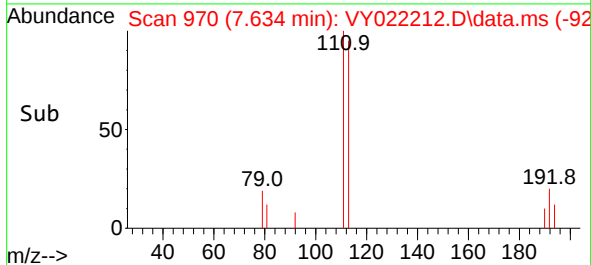
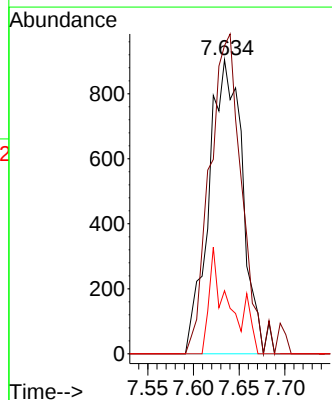
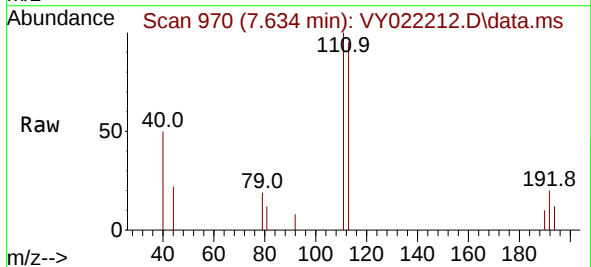
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-12016

Tgt Ion:114 Resp: 8538  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 35.4  
88 14.4 0.0 28.2



#35  
Dibromofluoromethane  
Concen: 41.343 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. -0.000 min  
Lab File: VY022212.D  
Acq: 12 May 2025 10:31

Tgt Ion:113 Resp: 2332  
Ion Ratio Lower Upper  
113 100  
111 99.8 81.8 122.8  
192 17.7 15.6 23.4

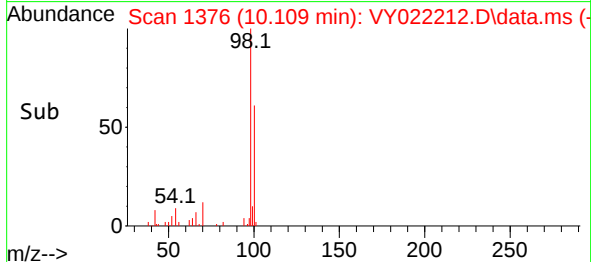
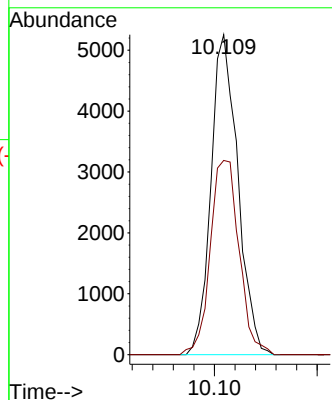
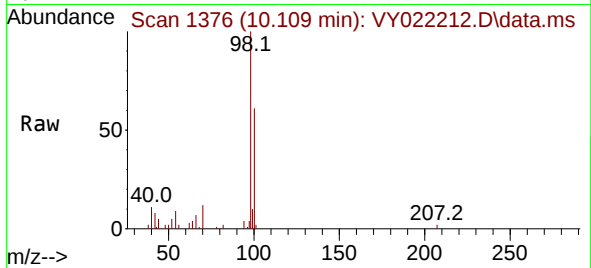




#50  
Toluene-d8  
Concen: 44.801 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY022212.D  
Acq: 12 May 2025 10:31

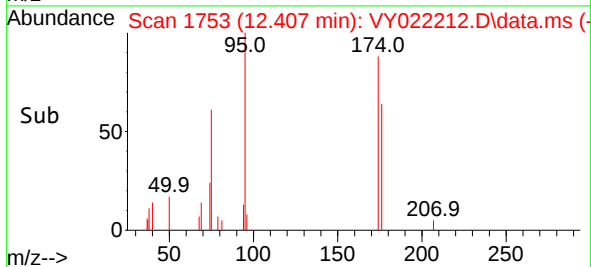
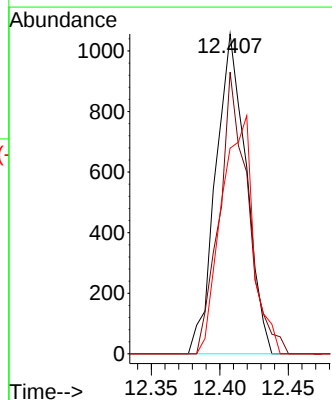
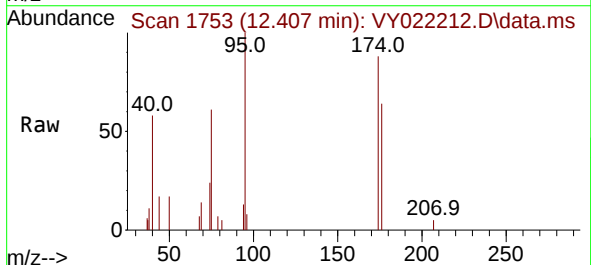
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-12016

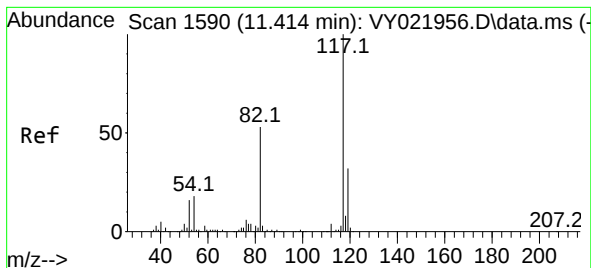
Tgt Ion: 98 Resp: 9527  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 22.741 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY022212.D  
Acq: 12 May 2025 10:31

Tgt Ion: 95 Resp: 1628  
Ion Ratio Lower Upper  
95 100  
174 82.6 0.0 179.0  
176 78.0 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022212.D

Acq: 12 May 2025 10:31

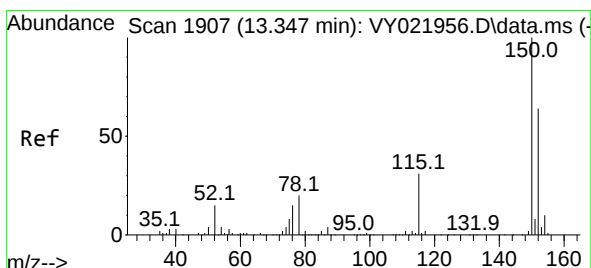
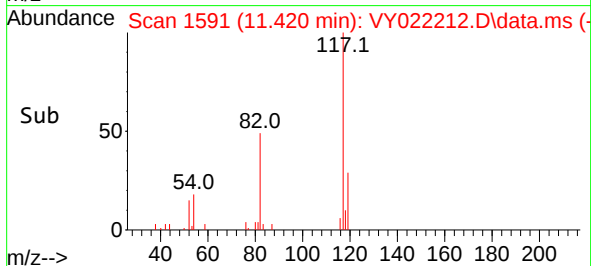
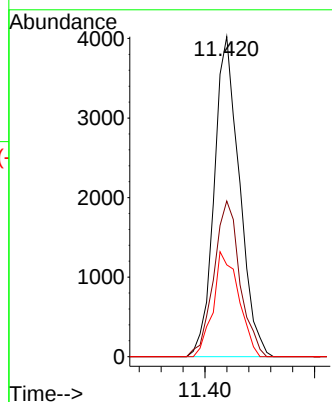
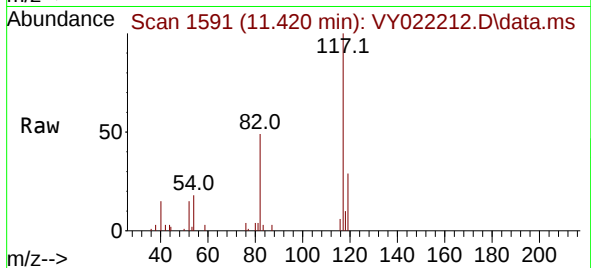
Instrument :

MSVOA\_Y

ClientSampleId :

72-12016

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 6436      |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 48.7  | 42.1 63.1 |
| 119         | 28.7  | 25.7 38.5 |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022212.D

Acq: 12 May 2025 10:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 1104      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 49.8  | 28.0 84.0 |
| 150         | 154.2 | 0.0 345.6 |

