

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052825\  
 Data File : VY022448.D  
 Acq On : 28 May 2025 13:52  
 Operator : SY/MD  
 Sample : Q2113-01  
 Misc : 5.18g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HD-02-05222025

Quant Time: May 29 01:57:43 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 28 10:34:06 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 38386    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 51951    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 31663    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152  | 7955     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 12633    | 31.245   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 62.480% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 13043    | 42.871   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 85.740% |
| 50) Toluene-d8              | 10.109 | 98    | 57144    | 46.074   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 92.140% |
| 62) 4-Bromofluorobenzene    | 12.414 | 95    | 10225    | 27.255   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 54.520% |

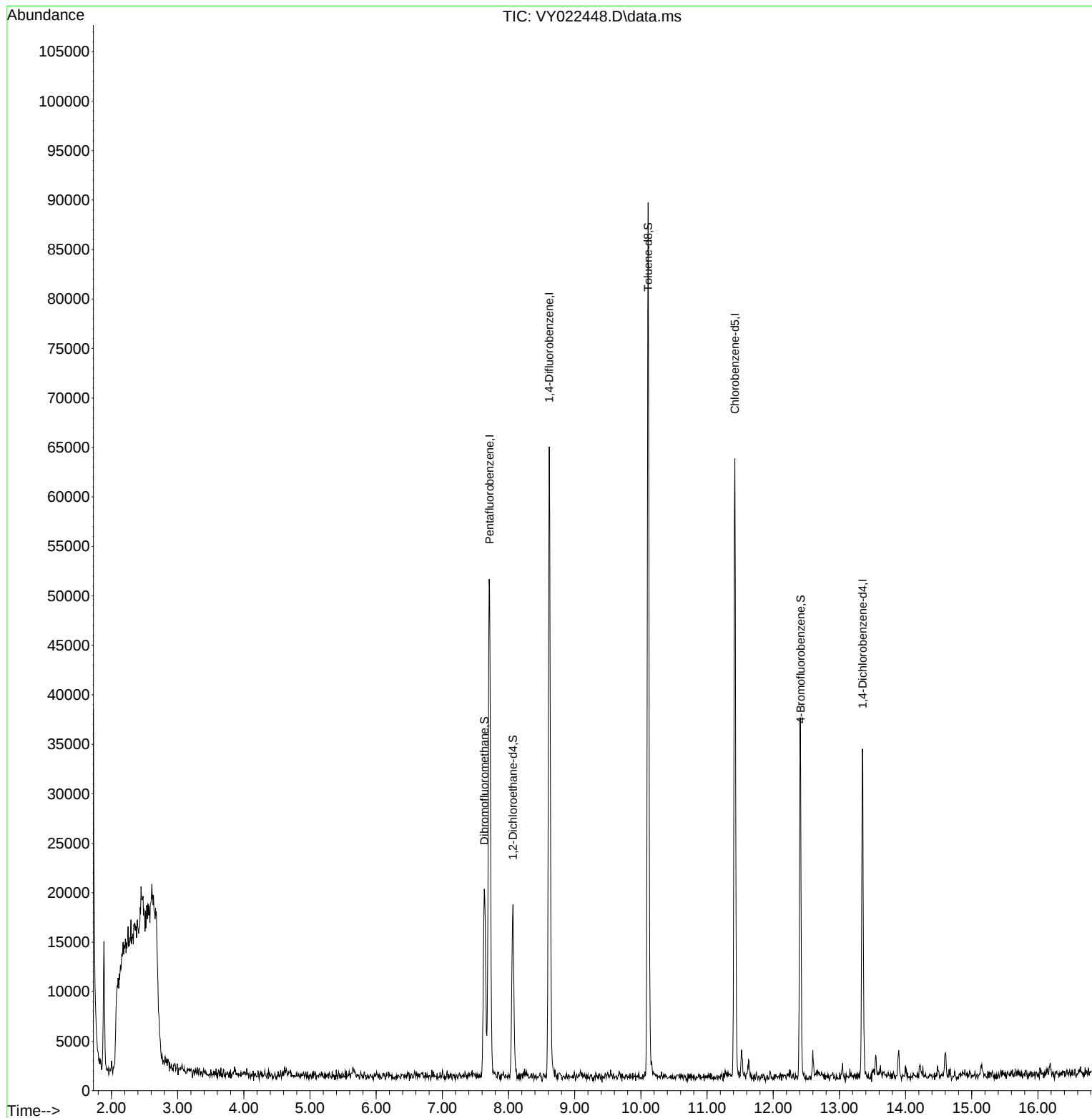
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

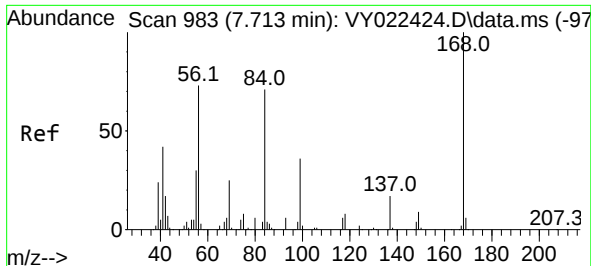
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 28 10:34:06 2025  
Response via : Initial Calibration

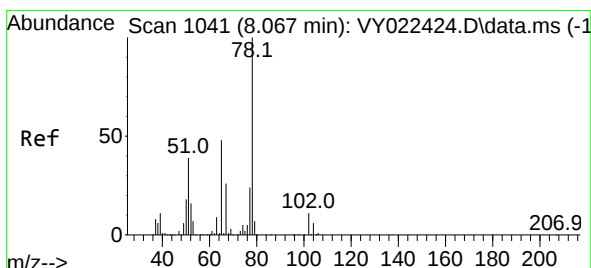
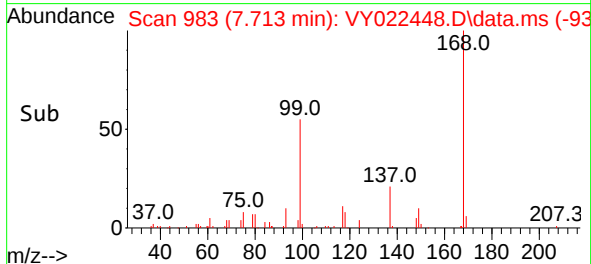
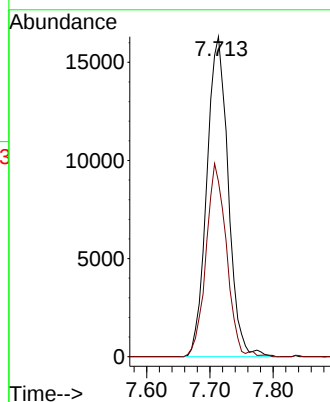
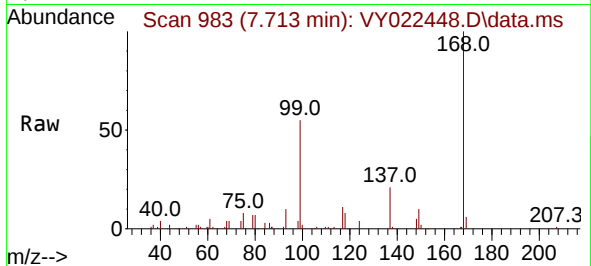




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. 0.000 min  
Lab File: VY022448.D  
Acq: 28 May 2025 13:52

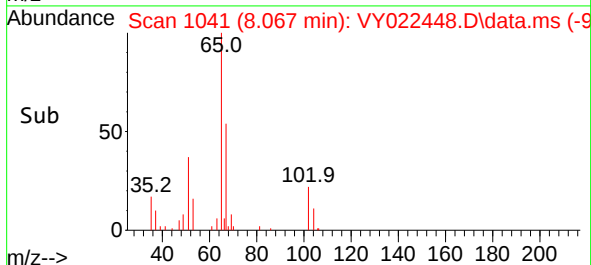
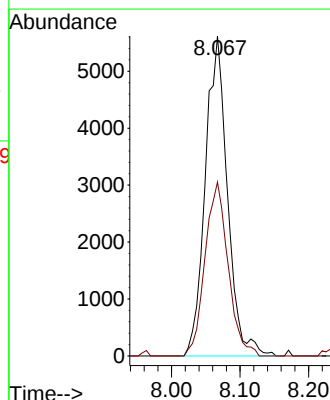
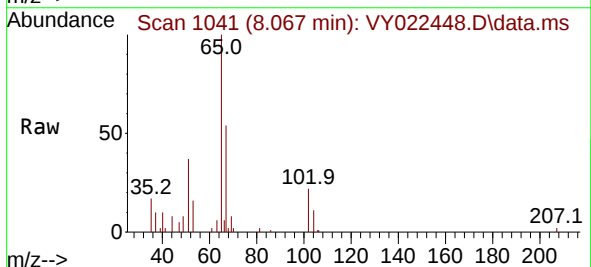
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HD-02-05222025

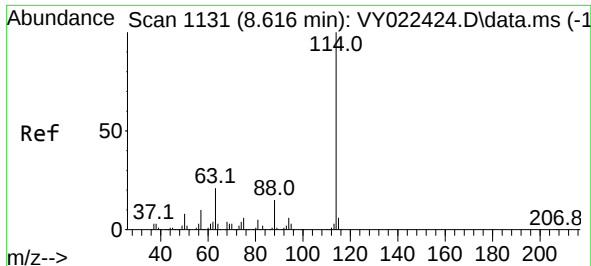
Tgt Ion:168 Resp: 38386  
Ion Ratio Lower Upper  
168 100  
99 54.7 44.7 67.1



#33  
1,2-Dichloroethane-d4  
Concen: 31.245 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.000 min  
Lab File: VY022448.D  
Acq: 28 May 2025 13:52

Tgt Ion: 65 Resp: 12633  
Ion Ratio Lower Upper  
65 100  
67 56.5 0.0 104.4

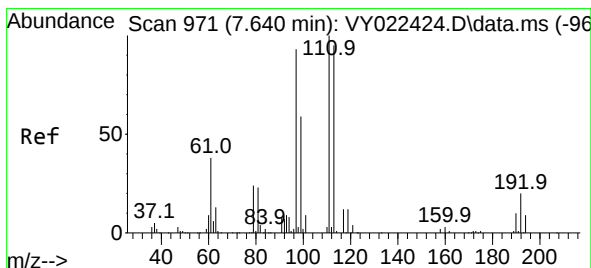
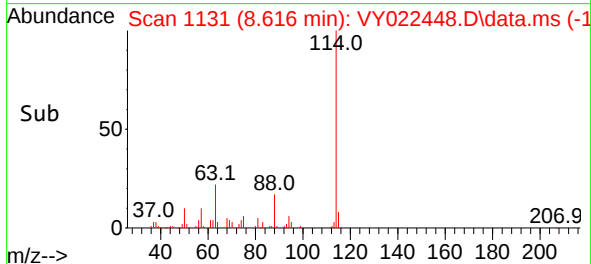
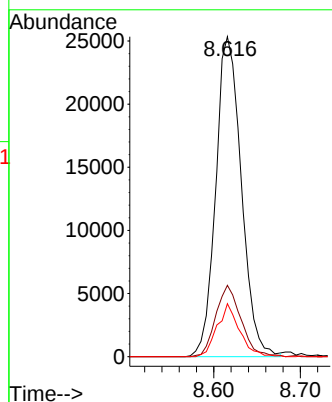
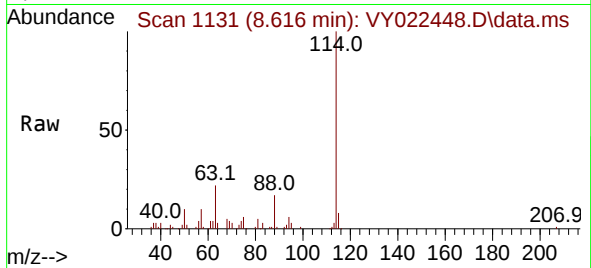




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY022448.D  
Acq: 28 May 2025 13:52

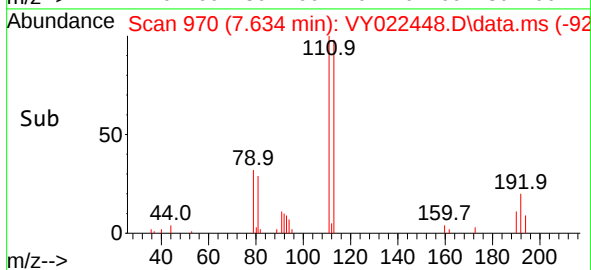
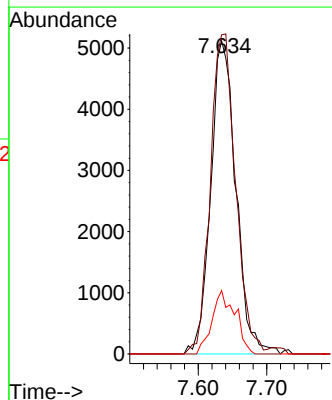
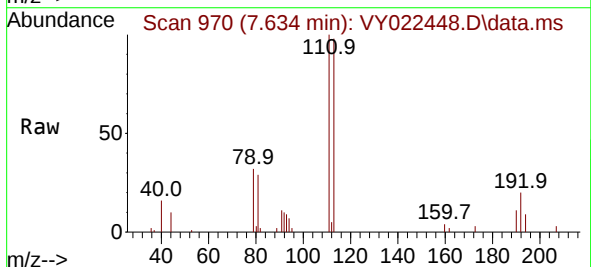
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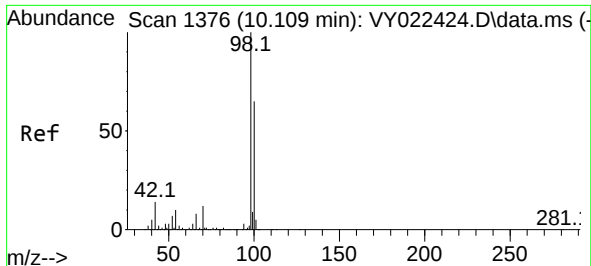
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 51951 |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 22.3  | 0.0   | 42.6  |
| 88       | 16.6  | 0.0   | 29.4  |



#35  
Dibromofluoromethane  
Concen: 42.871 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. -0.006 min  
Lab File: VY022448.D  
Acq: 28 May 2025 13:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 13043 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.8 | 82.4  | 123.6 |
| 192      | 18.7  | 15.2  | 22.8  |

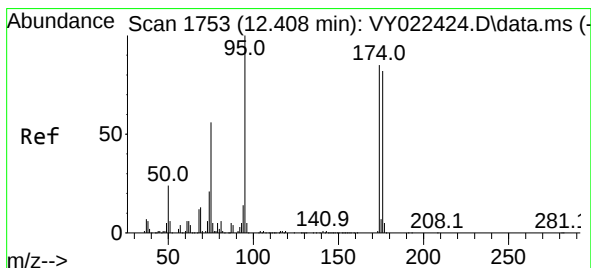
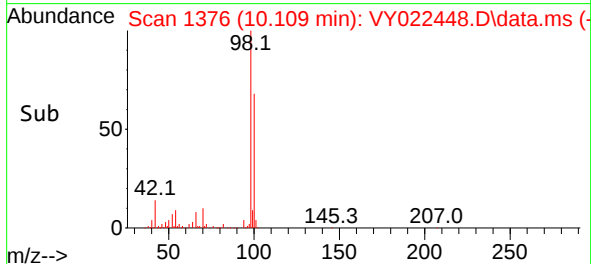
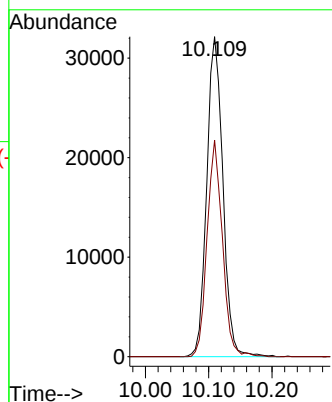
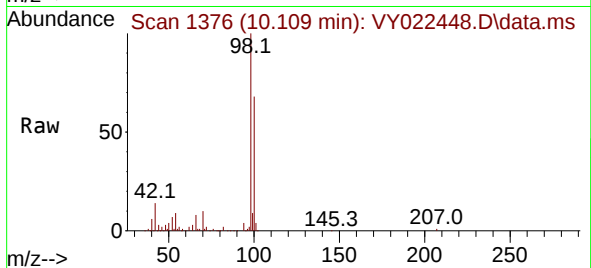




#50  
Toluene-d8  
Concen: 46.074 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY022448.D  
Acq: 28 May 2025 13:52

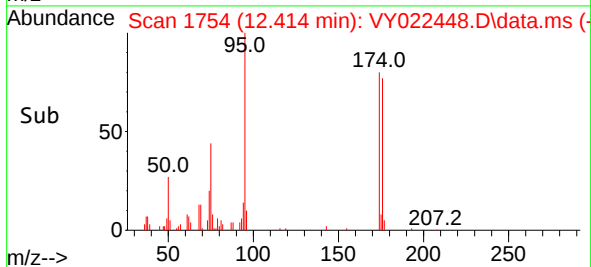
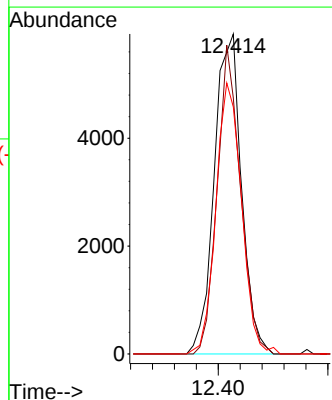
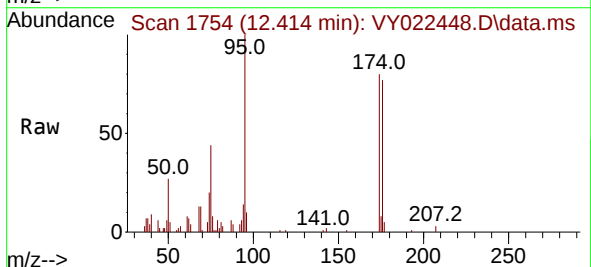
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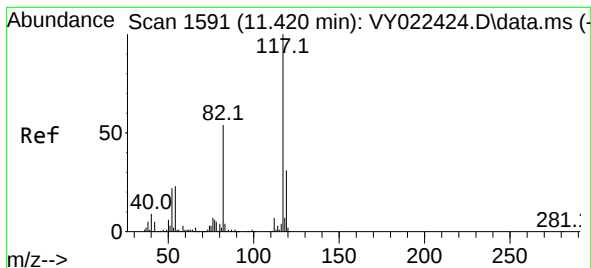
Tgt Ion: 98 Resp: 57144  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 27.255 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. 0.006 min  
Lab File: VY022448.D  
Acq: 28 May 2025 13:52

Tgt Ion: 95 Resp: 10225  
Ion Ratio Lower Upper  
95 100  
174 82.5 0.0 171.6  
176 79.9 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Instrument :

MSVOA\_Y

ClientSampleId :

HD-02-05222025

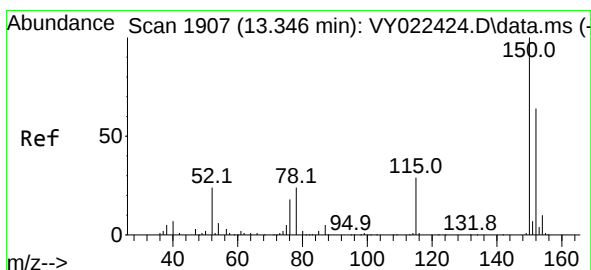
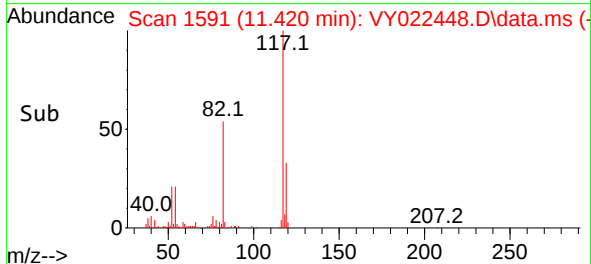
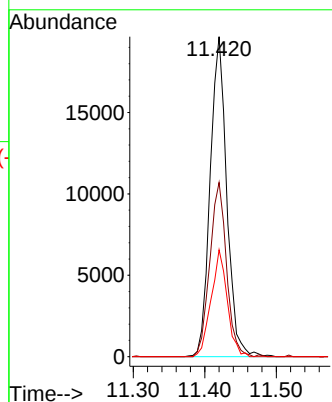
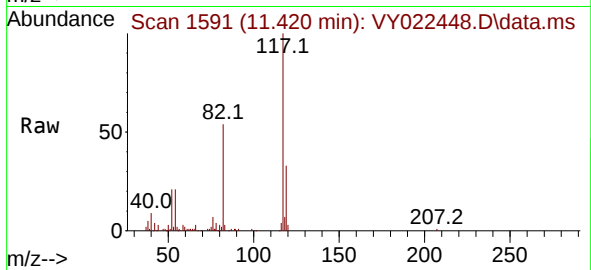
Tgt Ion:117 Resp: 31663

Ion Ratio Lower Upper

117 100

82 54.5 43.3 64.9

119 33.4 24.5 36.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Tgt Ion:152 Resp: 7955

Ion Ratio Lower Upper

152 100

115 59.0 28.4 85.3

150 156.0 0.0 345.8

