

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052925\  
 Data File : VY022464.D  
 Acq On : 29 May 2025 13:59  
 Operator : SY/MD  
 Sample : Q2150-05  
 Misc : 7.15g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-47

Quant Time: May 30 05:34:47 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      | 7.719  | 168  | 18571    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.621  | 114  | 25910    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 13686    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 2224     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 6243     | 31.916   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 63.840% |
| 35) Dibromofluoromethane    | 7.640  | 113   | 4936     | 32.530   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 65.060% |
| 50) Toluene-d8              | 10.109 | 98    | 26868    | 43.436   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 86.880% |
| 62) 4-Bromofluorobenzene    | 12.407 | 95    | 3842     | 20.534   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 41.060% |

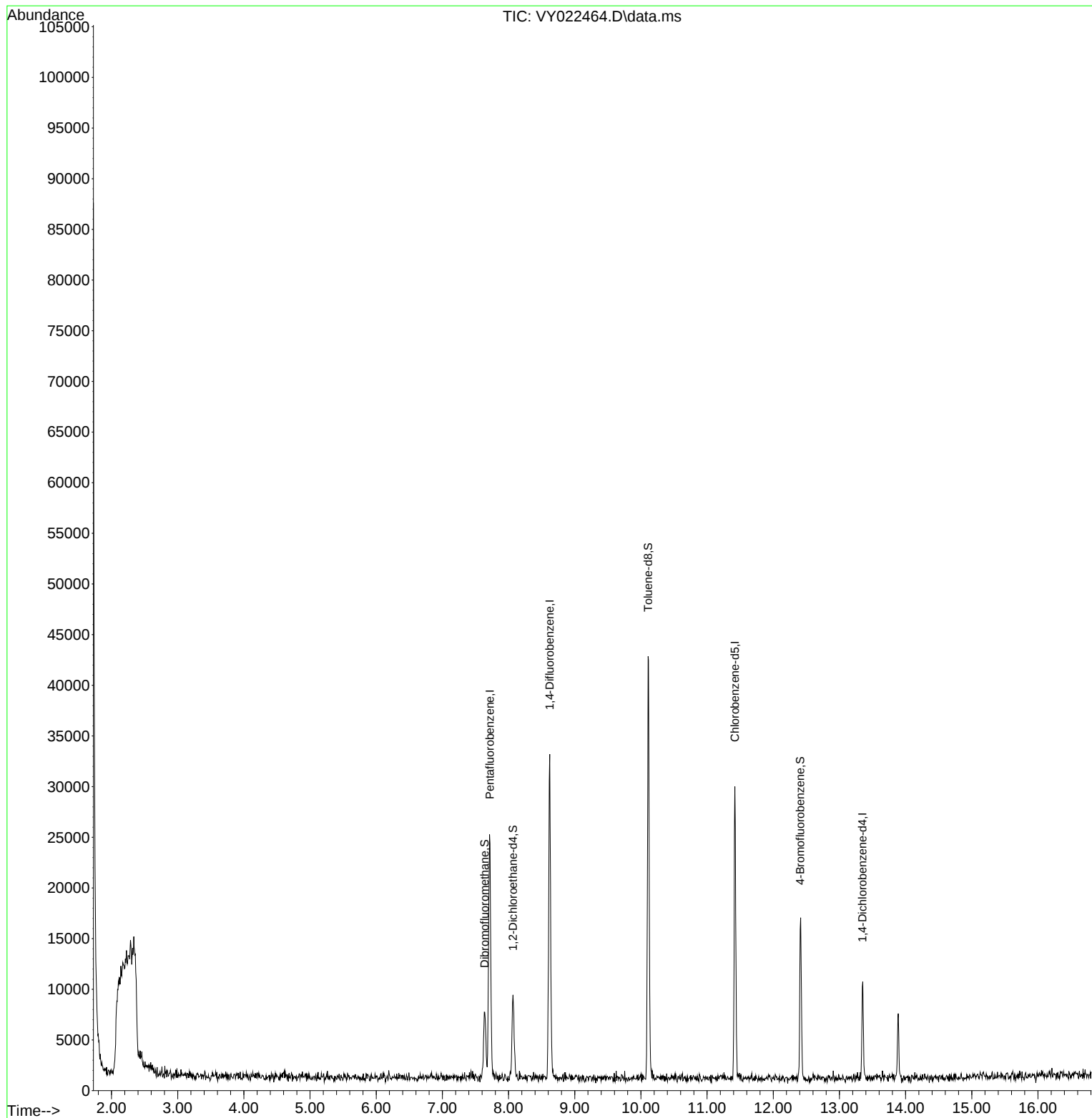
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

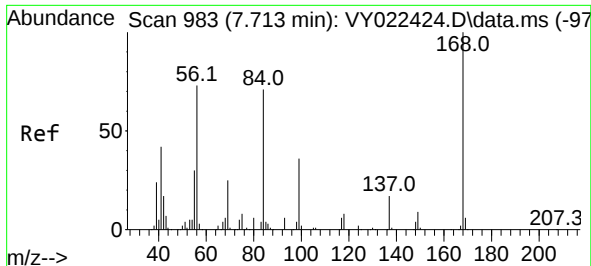
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

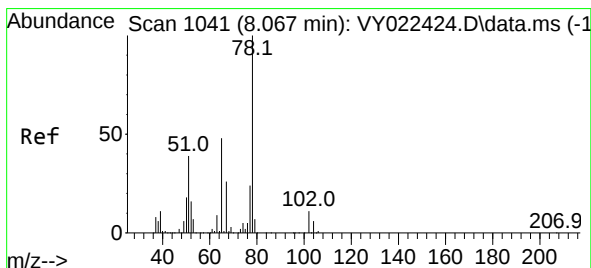
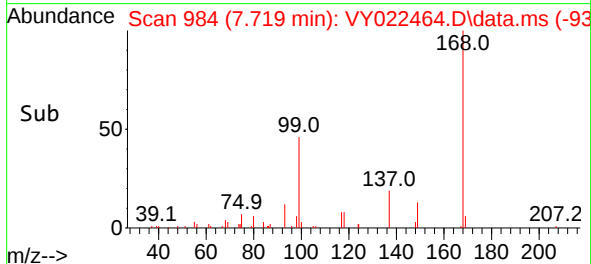
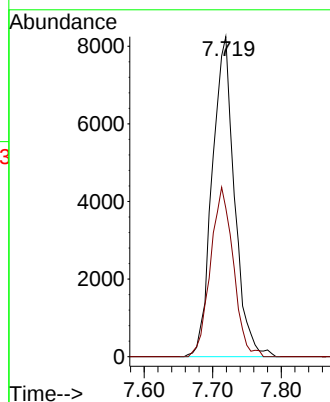
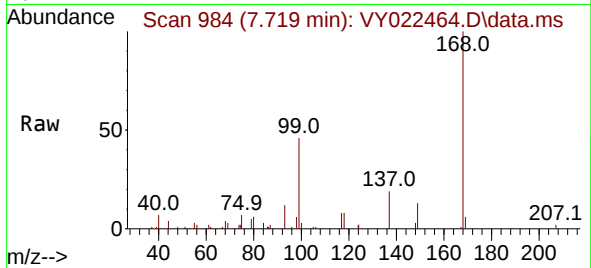




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.719 min Scan# 983  
Delta R.T. 0.006 min  
Lab File: VY022464.D  
Acq: 29 May 2025 13:59

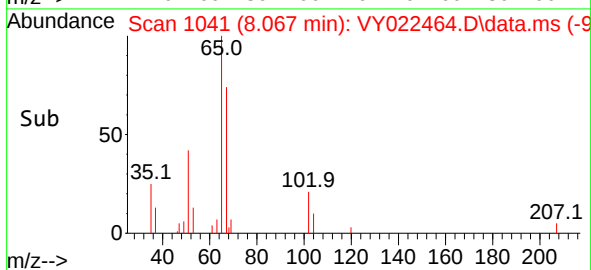
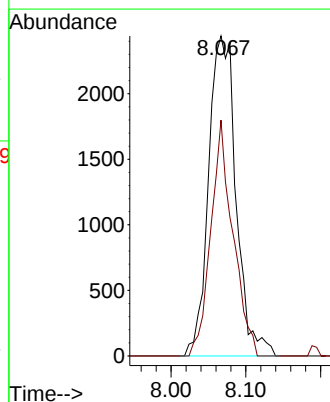
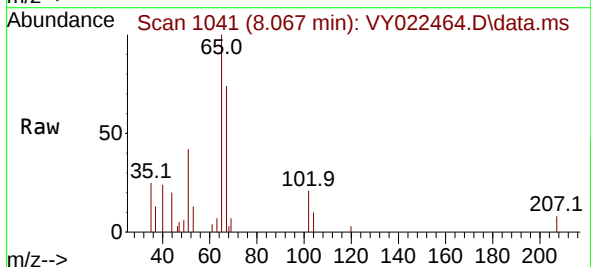
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-47

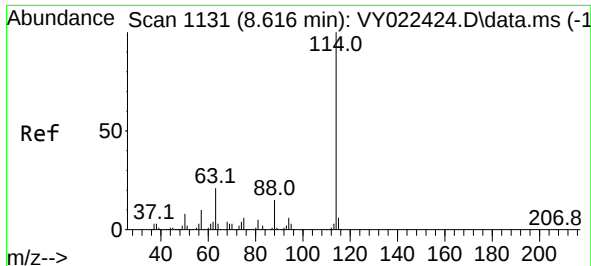
Tgt Ion:168 Resp: 18571  
Ion Ratio Lower Upper  
168 100  
99 46.5 44.7 67.1



#33  
1,2-Dichloroethane-d4  
Concen: 31.916 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. -0.000 min  
Lab File: VY022464.D  
Acq: 29 May 2025 13:59

Tgt Ion: 65 Resp: 6243  
Ion Ratio Lower Upper  
65 100  
67 59.2 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.621 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA\_Y

ClientSampleId :

TP-47

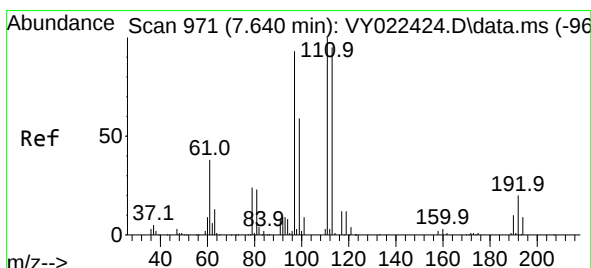
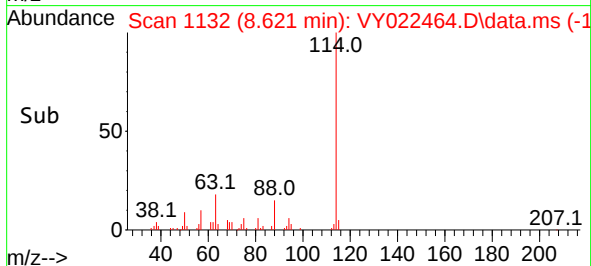
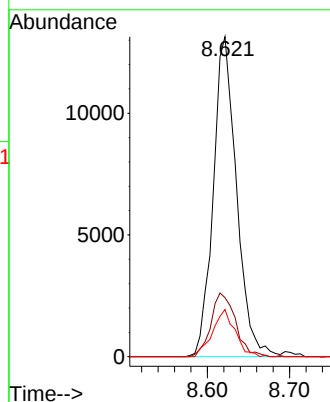
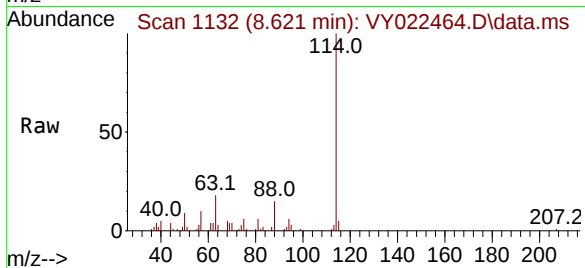
Tgt Ion:114 Resp: 25910

Ion Ratio Lower Upper

114 100

63 18.5 0.0 42.6

88 14.7 0.0 29.4



#35

Dibromofluoromethane

Concen: 32.530 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

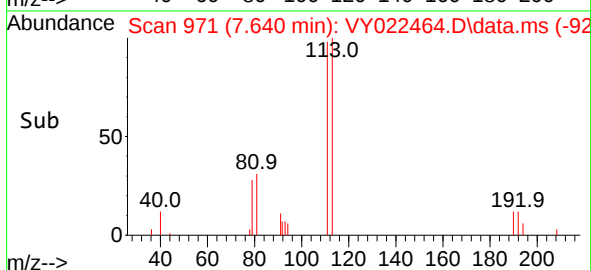
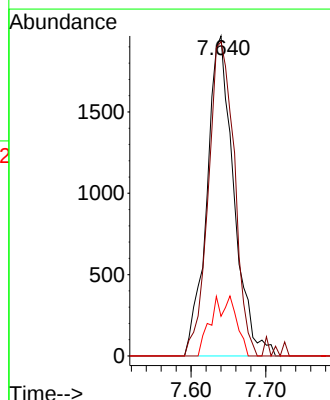
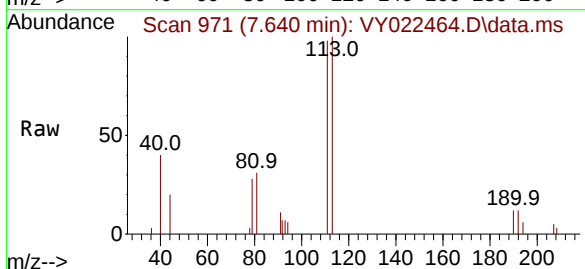
Tgt Ion:113 Resp: 4936

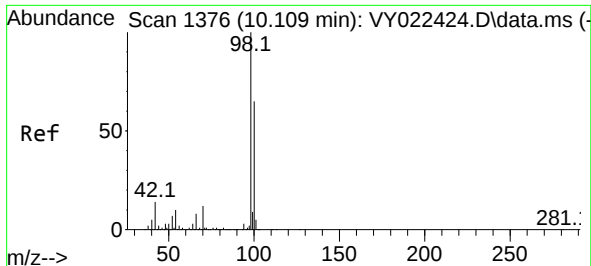
Ion Ratio Lower Upper

113 100

111 95.0 82.4 123.6

192 17.2 15.2 22.8

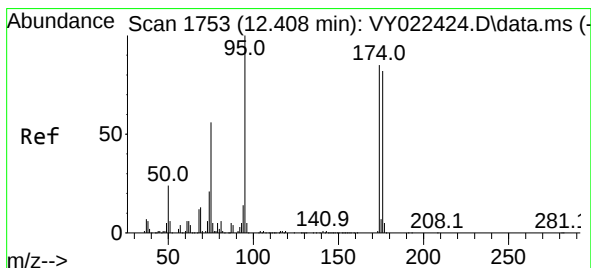
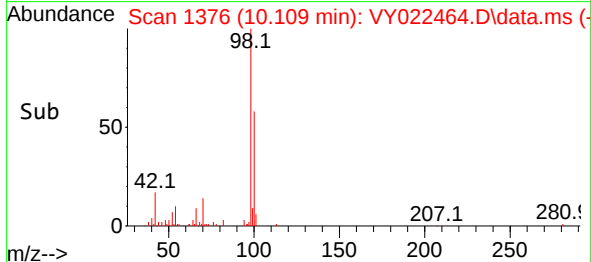
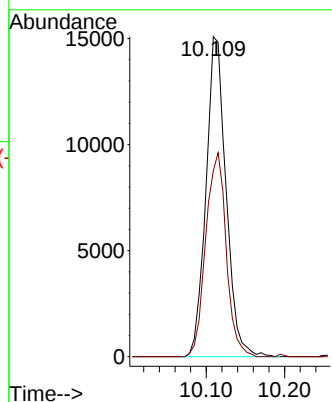
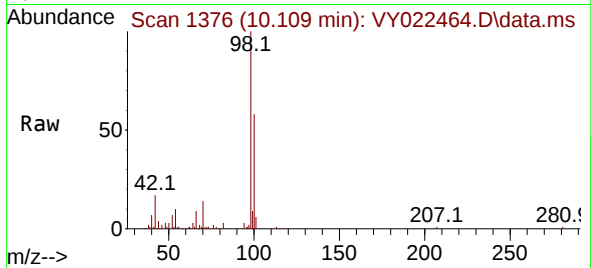




#50  
Toluene-d8  
Concen: 43.436 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. -0.000 min  
Lab File: VY022464.D  
Acq: 29 May 2025 13:59

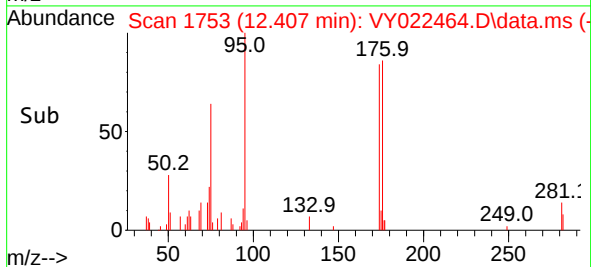
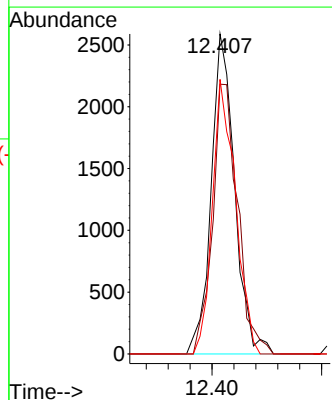
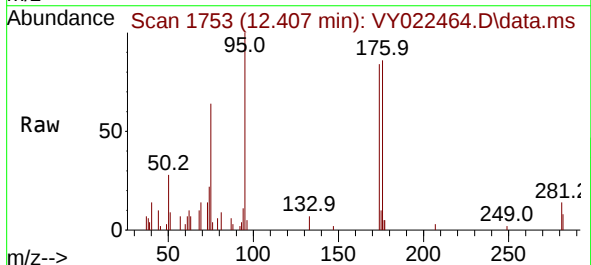
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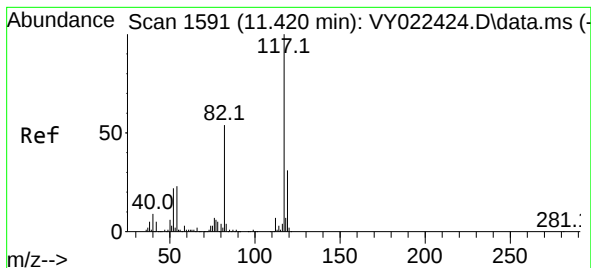
Tgt Ion: 98 Resp: 26868  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 20.534 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. -0.000 min  
Lab File: VY022464.D  
Acq: 29 May 2025 13:59

Tgt Ion: 95 Resp: 3842  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 171.6  
176 84.4 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: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA\_Y

ClientSampleId :

TP-47

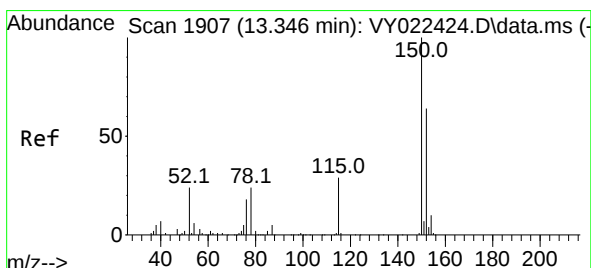
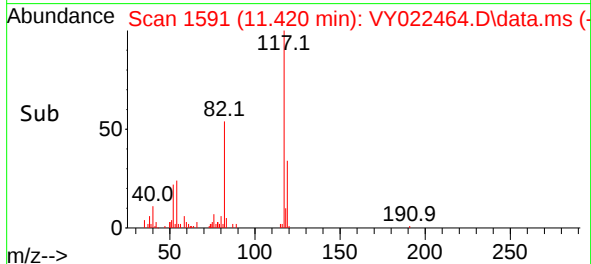
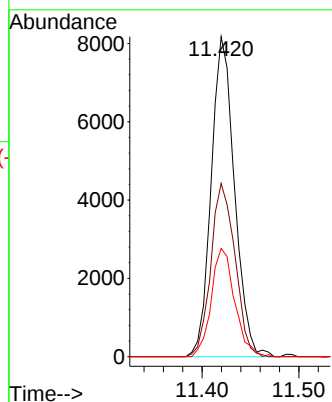
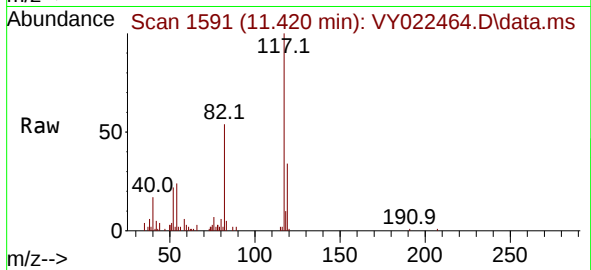
Tgt Ion:117 Resp: 13686

Ion Ratio Lower Upper

117 100

82 54.1 43.3 64.9

119 33.8 24.5 36.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Tgt Ion:152 Resp: 2224

Ion Ratio Lower Upper

152 100

115 60.9 28.4 85.3

150 163.4 0.0 345.8

