

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071825\  
 Data File : VY023002.D  
 Acq On : 18 Jul 2025 17:01  
 Operator : SY/MD  
 Sample : Q2638-03  
 Misc : 4.60g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OU4-TS-32-071725

Quant Time: Jul 19 02:13:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071825S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 19 01:50:49 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 293331   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.610  | 114  | 518735   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 489053   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152  | 219615   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 194533   | 65.511   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 131.020% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 165389   | 50.262   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 100.520% |
| 50) Toluene-d8              | 10.103 | 98    | 612100   | 46.908   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 93.820%  |
| 62) 4-Bromofluorobenzene    | 12.402 | 95    | 220011   | 53.562   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 107.120% |

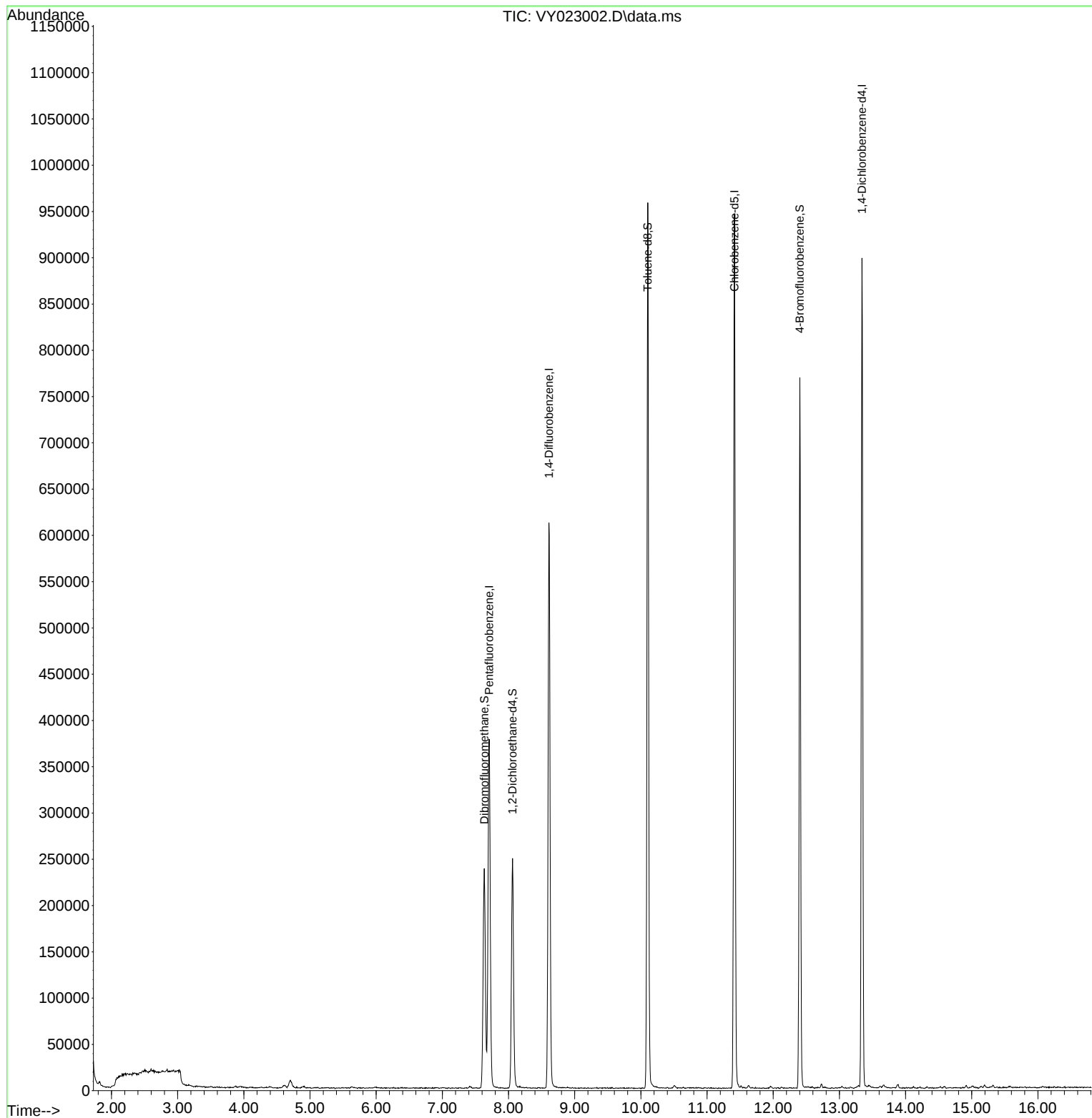
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

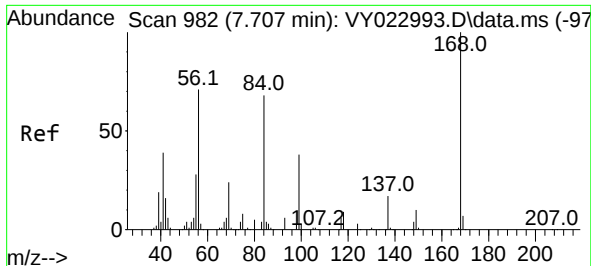
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071825\  
Data File : VY023002.D  
Acq On : 18 Jul 2025 17:01  
Operator : SY/MD  
Sample : Q2638-03  
Misc : 4.60g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-32-071725

Quant Time: Jul 19 02:13:22 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071825S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 19 01:50:49 2025  
Response via : Initial Calibration

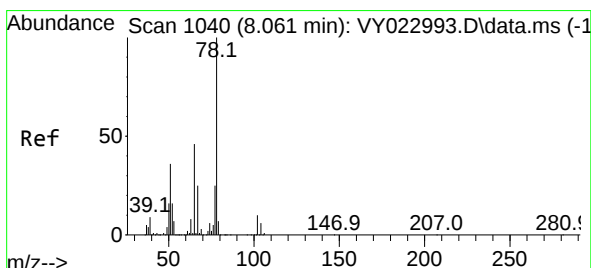
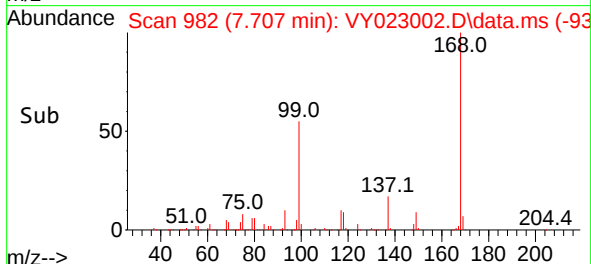
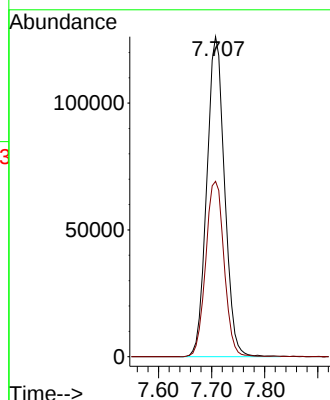
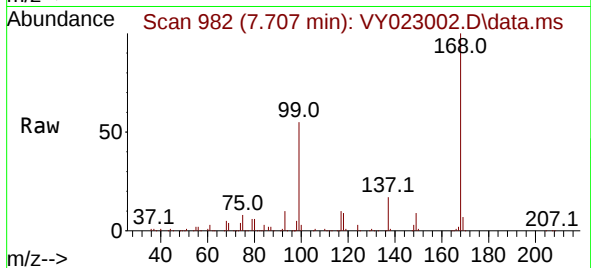




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 99  
Delta R.T. 0.000 min  
Lab File: VY023002.D  
Acq: 18 Jul 2025 17:01

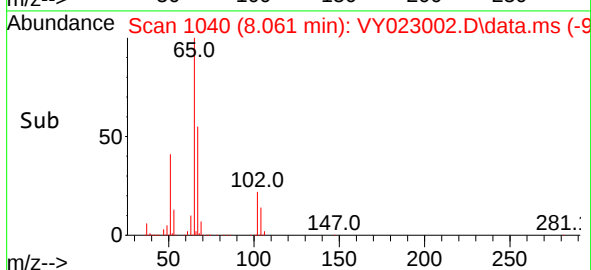
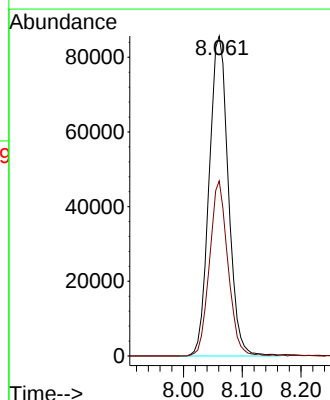
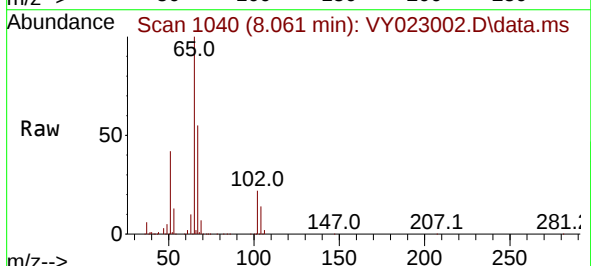
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-32-071725

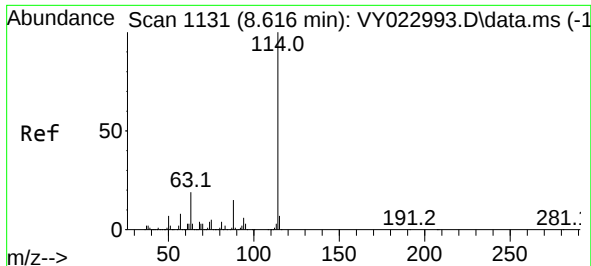
Tgt Ion:168 Resp: 293331  
Ion Ratio Lower Upper  
168 100  
99 54.8 44.4 66.6



#33  
1,2-Dichloroethane-d4  
Concen: 65.511 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY023002.D  
Acq: 18 Jul 2025 17:01

Tgt Ion: 65 Resp: 194533  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY023002.D

Acq: 18 Jul 2025 17:01

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-TS-32-071725

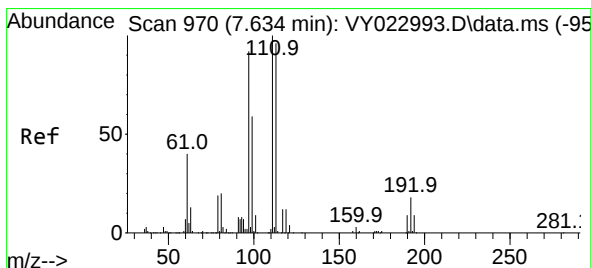
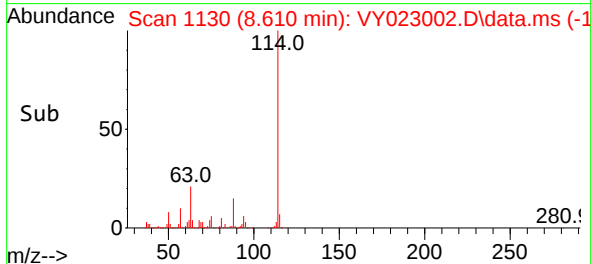
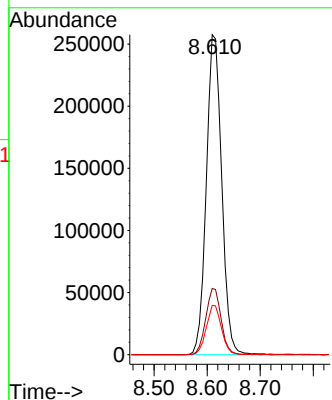
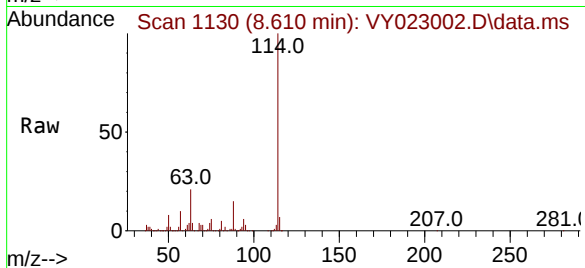
Tgt Ion:114 Resp: 518735

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

88 15.4 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.262 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY023002.D

Acq: 18 Jul 2025 17:01

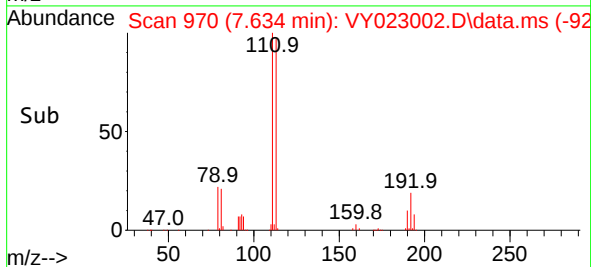
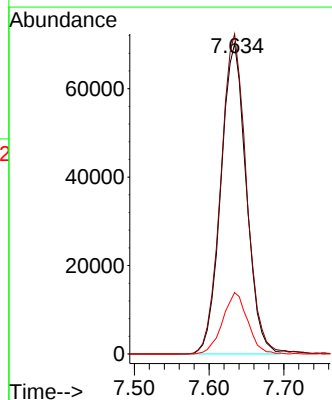
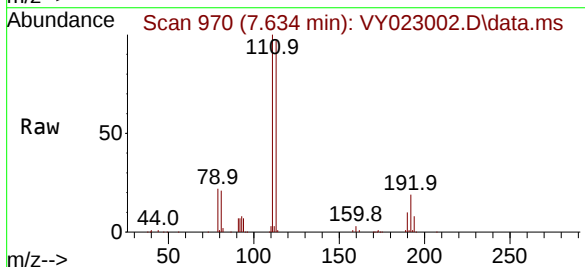
Tgt Ion:113 Resp: 165389

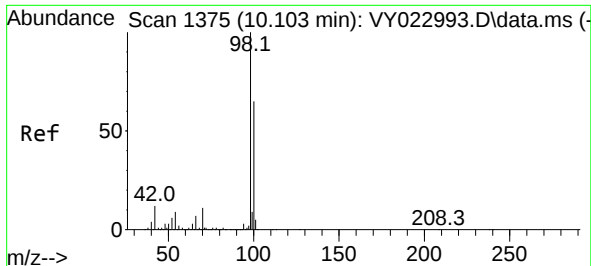
Ion Ratio Lower Upper

113 100

111 104.6 83.2 124.8

192 19.6 15.3 22.9

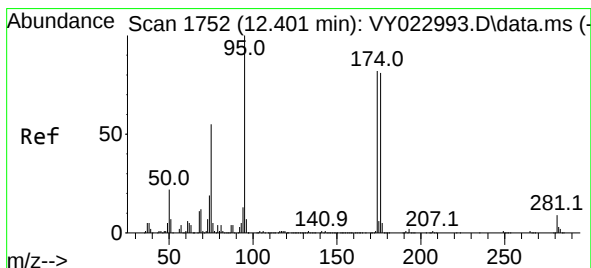
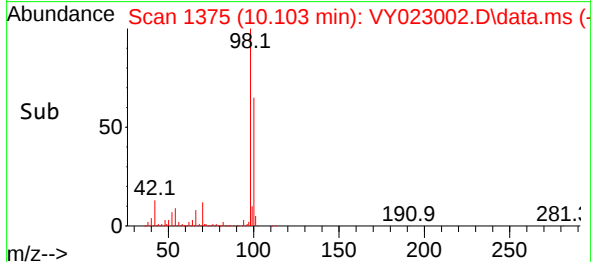
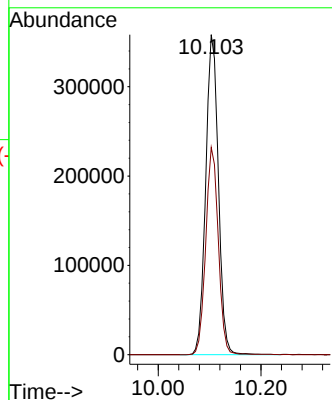
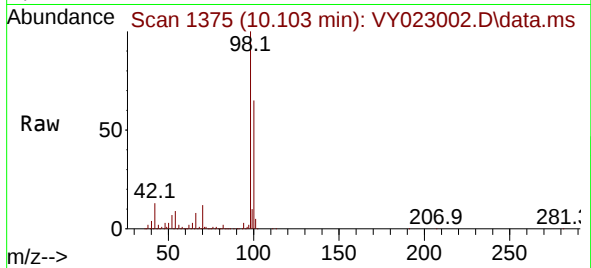




#50  
Toluene-d8  
Concen: 46.908 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.000 min  
Lab File: VY023002.D  
Acq: 18 Jul 2025 17:01

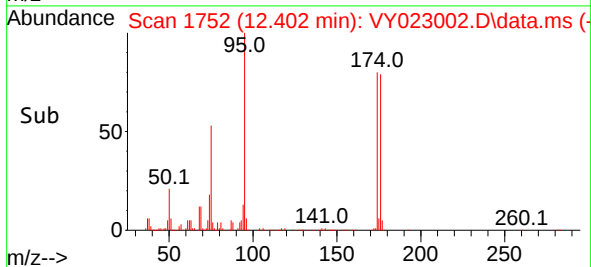
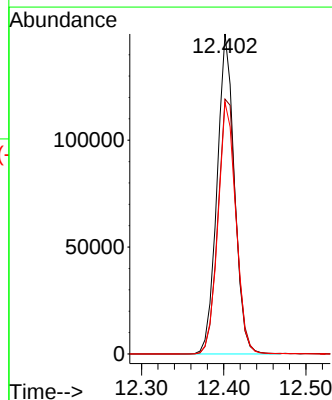
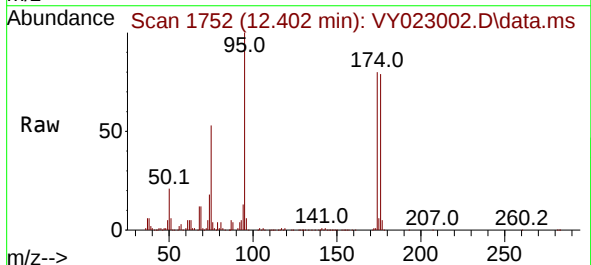
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-32-071725

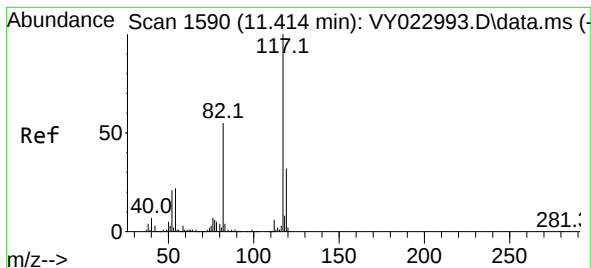
Tgt Ion: 98 Resp: 612100  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 53.562 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023002.D  
Acq: 18 Jul 2025 17:01

Tgt Ion: 95 Resp: 220011  
Ion Ratio Lower Upper  
95 100  
174 83.9 0.0 170.8  
176 80.8 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023002.D

Acq: 18 Jul 2025 17:01

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-TS-32-071725

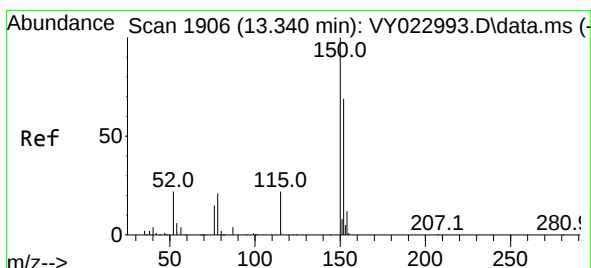
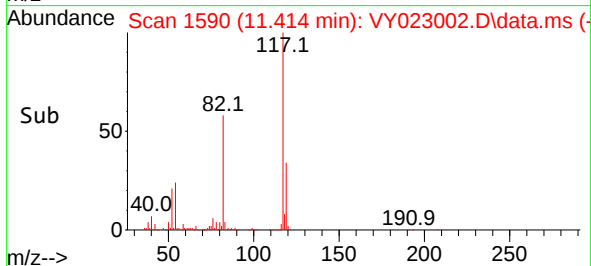
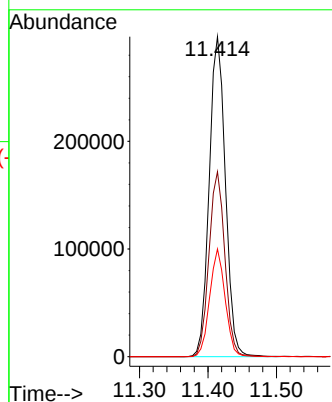
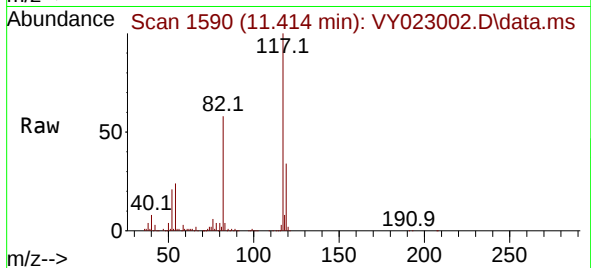
Tgt Ion:117 Resp: 489053

Ion Ratio Lower Upper

117 100

82 57.8 44.3 66.5

119 33.6 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023002.D

Acq: 18 Jul 2025 17:01

Tgt Ion:152 Resp: 219615

Ion Ratio Lower Upper

152 100

115 58.1 29.4 88.2

150 158.4 0.0 350.0

