

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051525\  
 Data File : VY022270.D  
 Acq On : 15 May 2025 17:33  
 Operator : SY/MD  
 Sample : Q1984-13  
 Misc : 3.58g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OU4-TS-27-050725

Quant Time: May 16 01:58:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 308299   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 537661   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 394719   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 119908   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 163578   | 48.548   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 97.100% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 158681   | 49.448   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 98.900% |
| 50) Toluene-d8              | 10.103 | 98    | 630288   | 47.956   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 95.920% |
| 62) 4-Bromofluorobenzene    | 12.402 | 95    | 144152   | 34.603   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 69.200% |

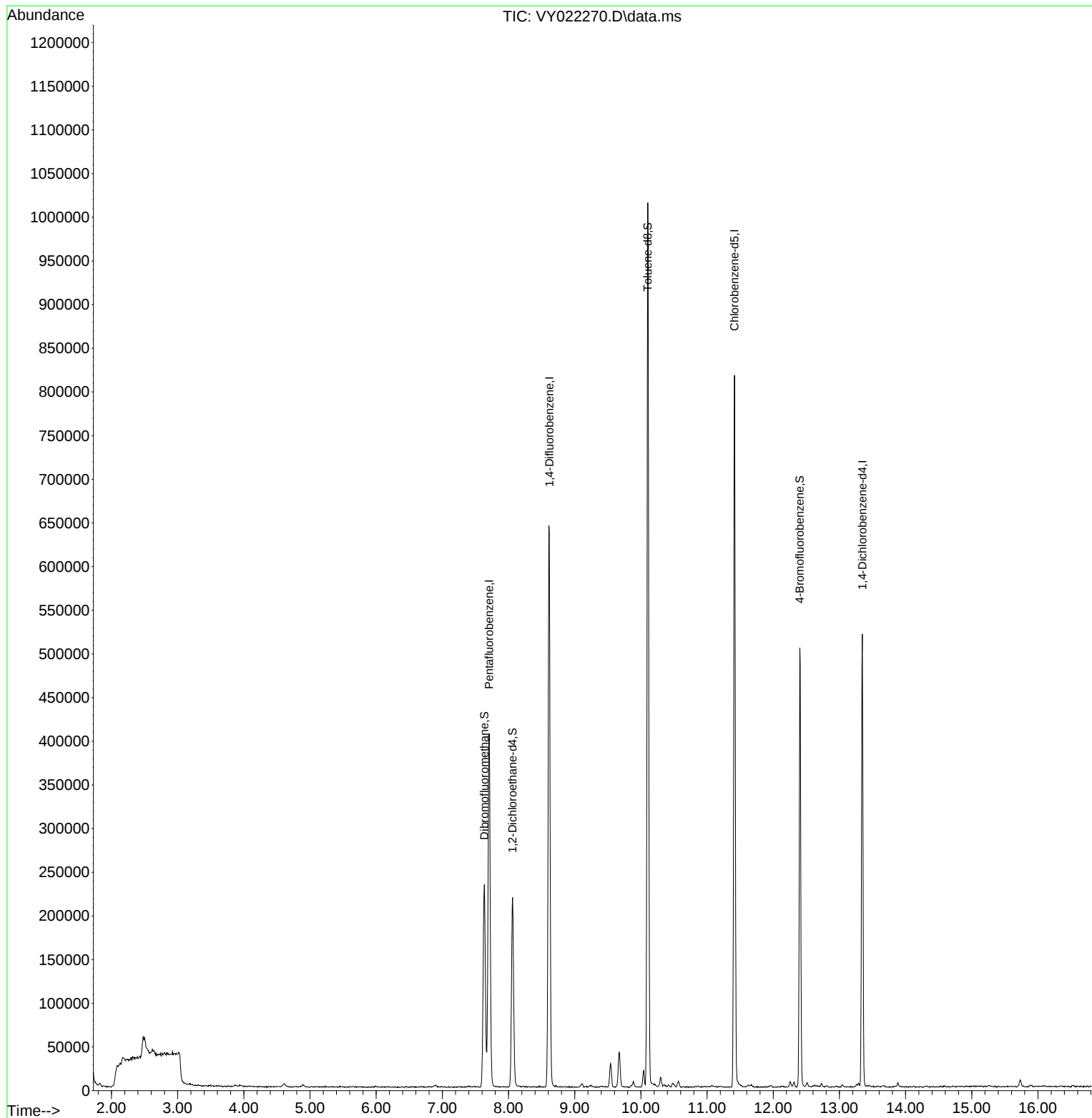
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

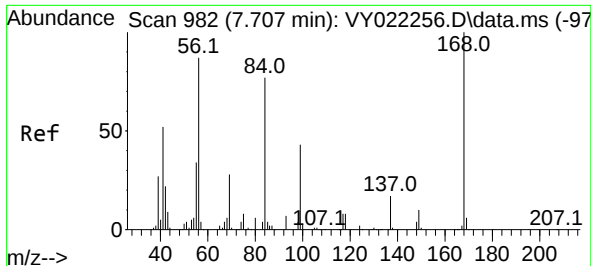
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OU4-TS-27-050725

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QLast Update : Fri May 16 01:42:09 2025  
Response via : Initial Calibration

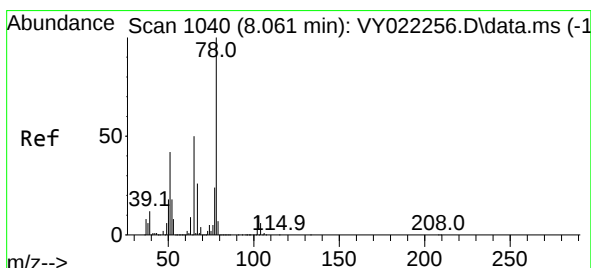
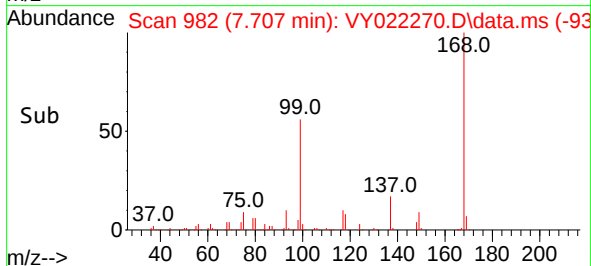
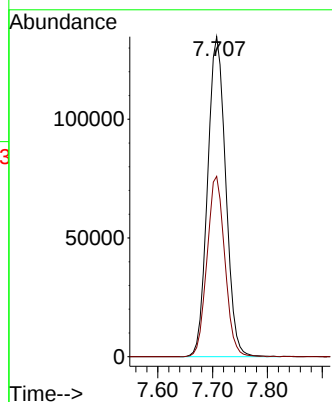
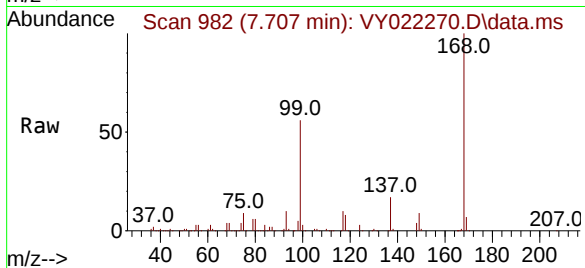




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

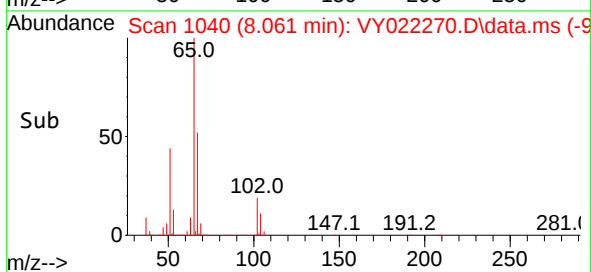
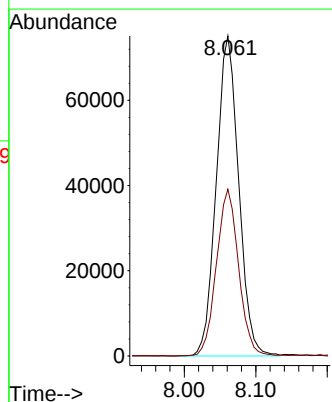
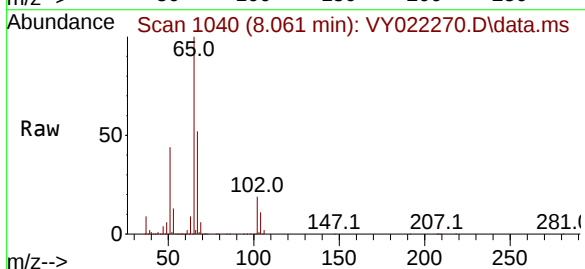
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-27-050725

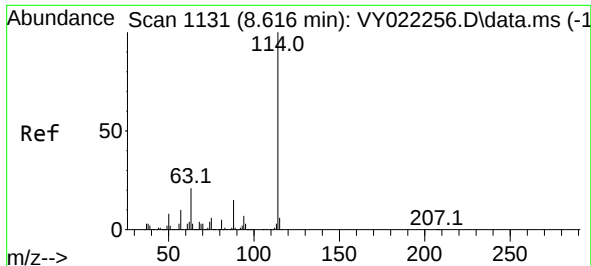
Tgt Ion:168 Resp: 308299  
Ion Ratio Lower Upper  
168 100  
99 56.3 44.2 66.4



#33  
1,2-Dichloroethane-d4  
Concen: 48.548 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

Tgt Ion: 65 Resp: 163578  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.6

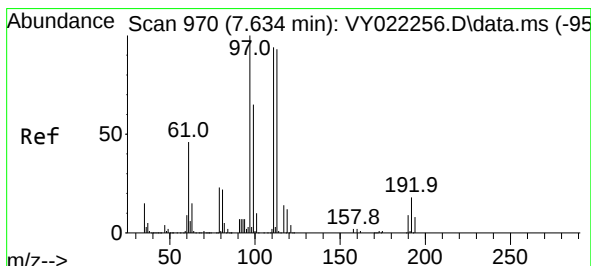
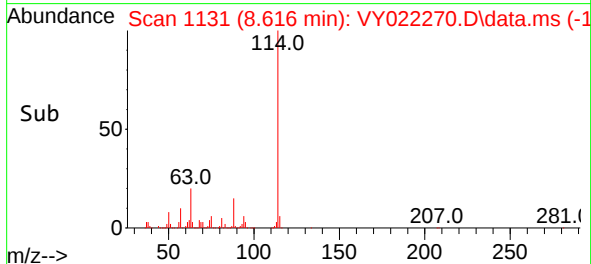
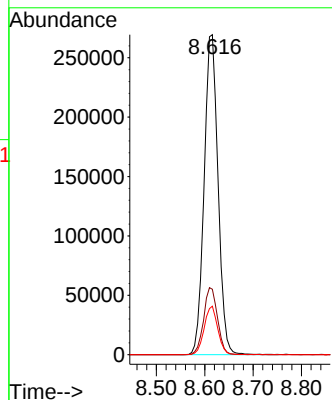
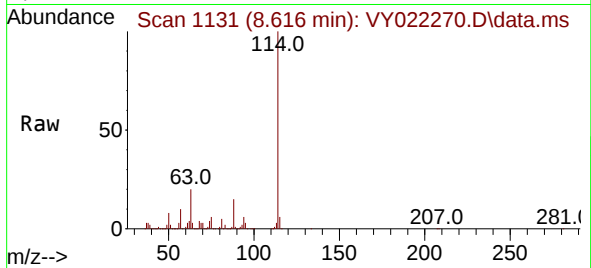




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

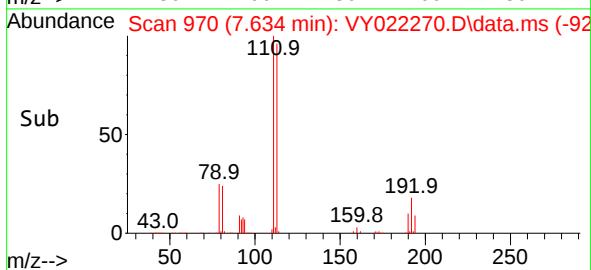
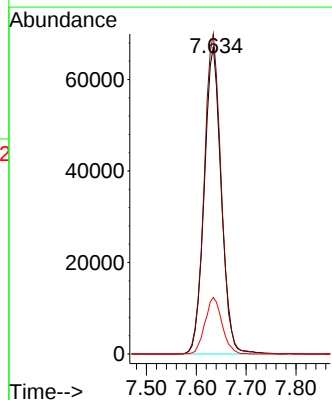
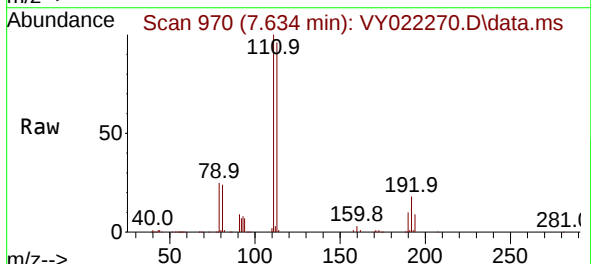
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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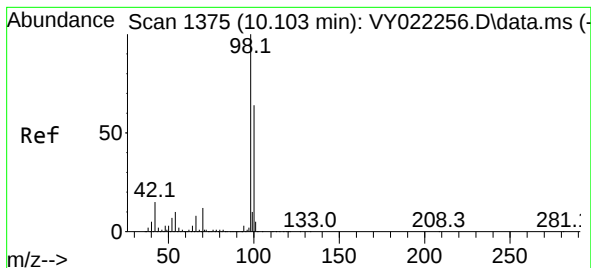
Tgt Ion:114 Resp: 537661  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 41.0  
88 15.1 0.0 29.4



#35  
Dibromofluoromethane  
Concen: 49.448 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

Tgt Ion:113 Resp: 158681  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.6 123.8  
192 18.6 15.2 22.8

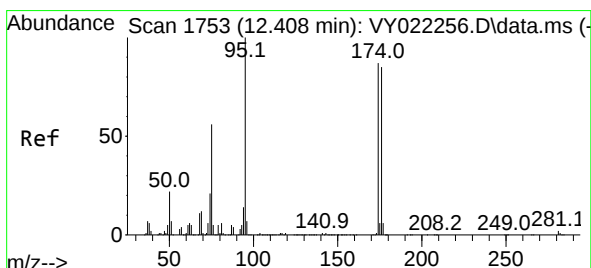
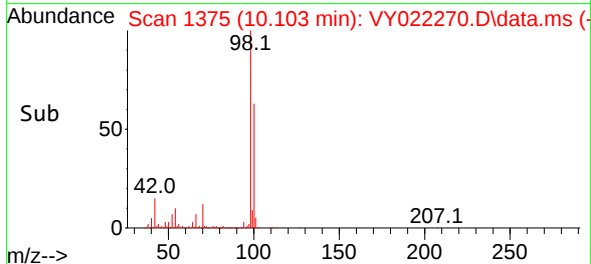
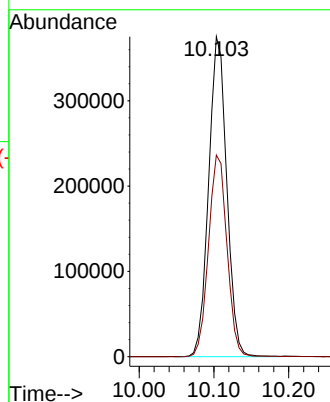
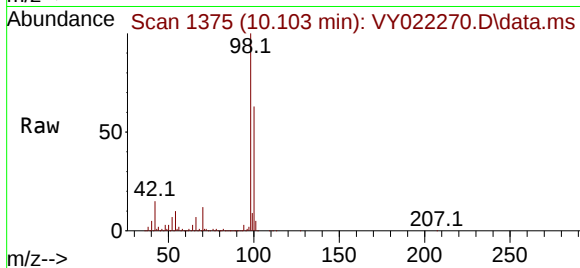




#50  
Toluene-d8  
Concen: 47.956 ug/l  
RT: 10.103 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

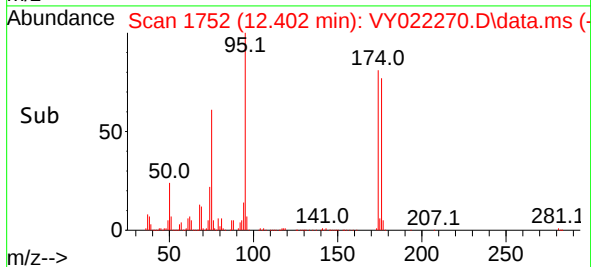
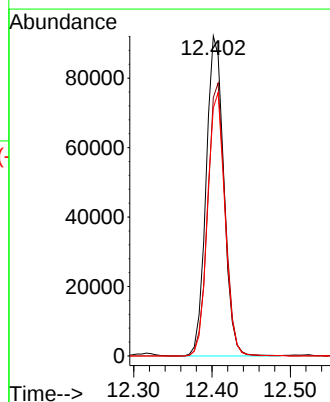
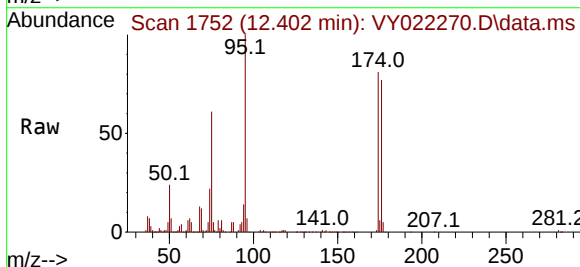
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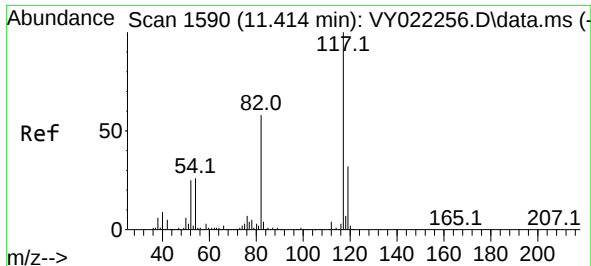
Tgt Ion: 98 Resp: 630288  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.8 77.8



#62  
4-Bromofluorobenzene  
Concen: 34.603 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

Tgt Ion: 95 Resp: 144152  
Ion Ratio Lower Upper  
95 100  
174 83.8 0.0 166.8  
176 81.3 0.0 160.8

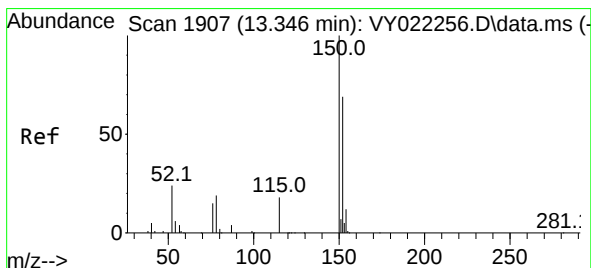
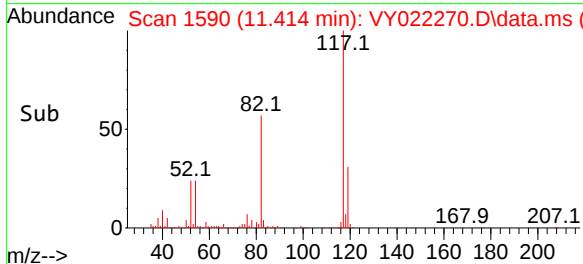
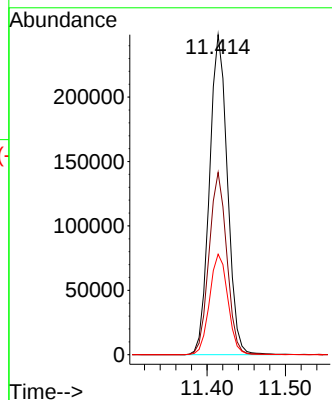
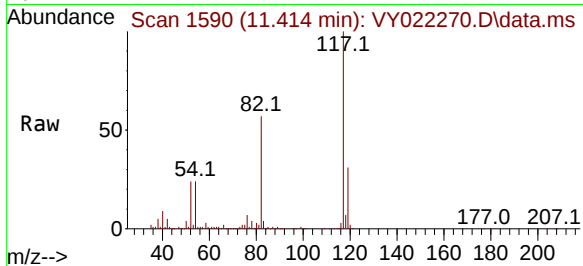




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-27-050725

Tgt Ion:117 Resp: 394719  
Ion Ratio Lower Upper  
117 100  
82 56.9 46.6 70.0  
119 31.4 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY022270.D  
Acq: 15 May 2025 17:33

Tgt Ion:152 Resp: 119908  
Ion Ratio Lower Upper  
152 100  
115 58.5 29.4 88.2  
150 159.5 0.0 353.8

