

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120623\  
 Data File : VY016611.D  
 Acq On : 06 Dec 2023 13:23  
 Operator : SY/MD  
 Sample : 05538-03RE  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-03-112223RE

Quant Time: Dec 07 00:32:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 05 01:24:25 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.801  | 168  | 13162    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.703  | 114  | 19941    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.508 | 117  | 16457    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.446 | 152  | 6544     | 50.000 | ug/l  | 0.01     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.161  | 65    | 6144     | 50.505   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 101.000% |
| 35) Dibromofluoromethane    | 7.734  | 113   | 6169     | 51.406   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 102.820% |
| 50) Toluene-d8              | 10.191 | 98    | 21576    | 47.532   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 95.060%  |
| 62) 4-Bromofluorobenzene    | 12.495 | 95    | 5860     | 39.256   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 78.520%  |

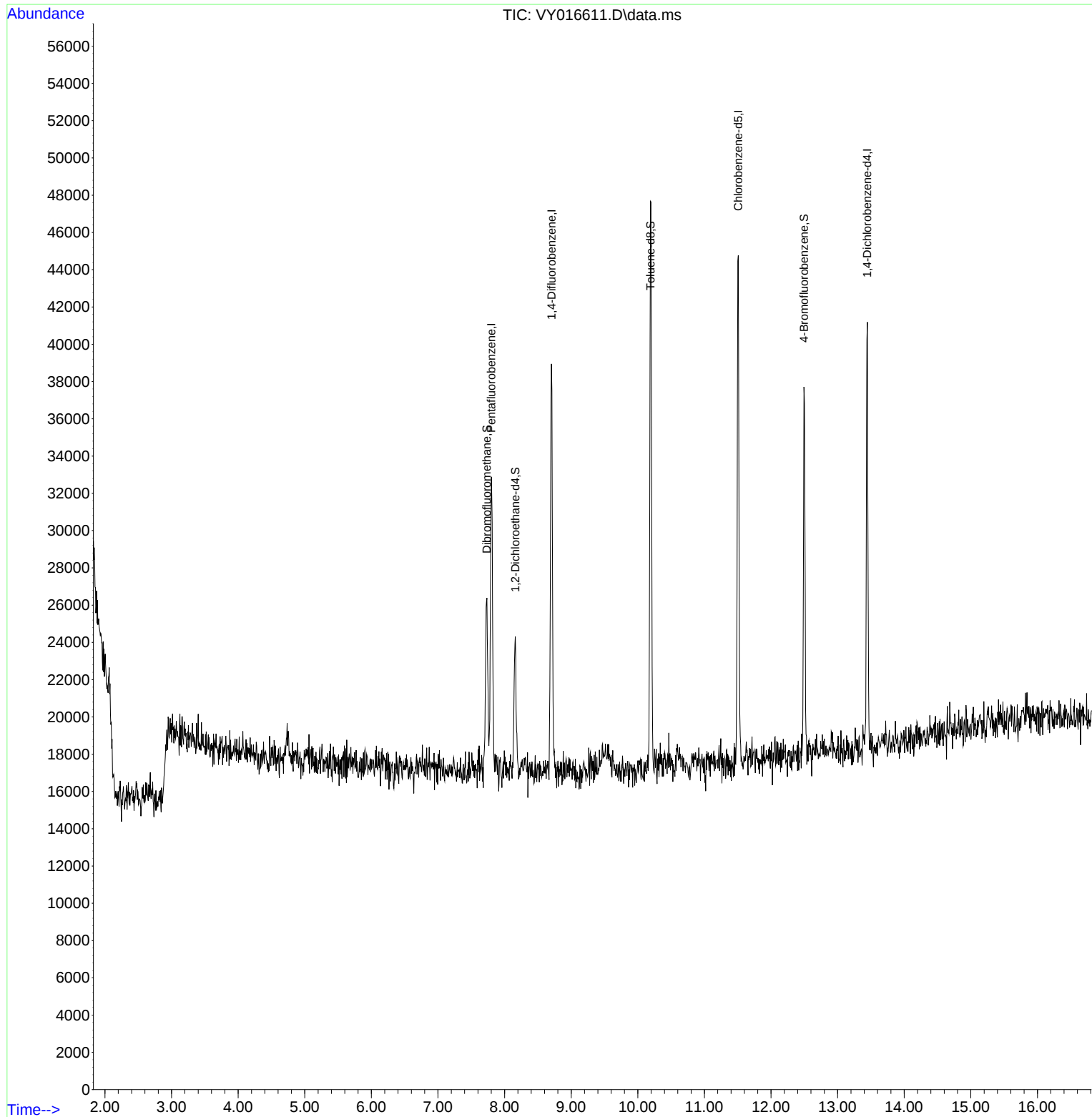
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

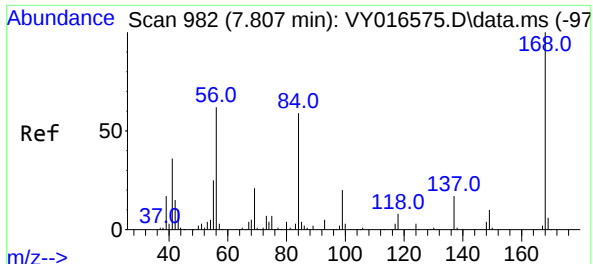
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120423S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 05 01:24:25 2023  
Response via : Initial Calibration

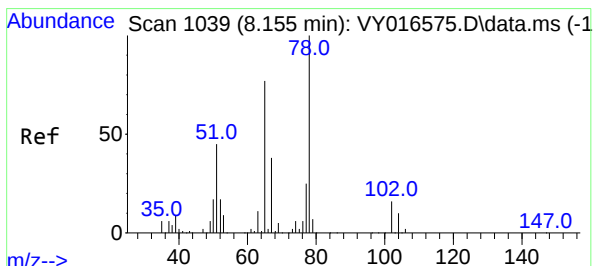
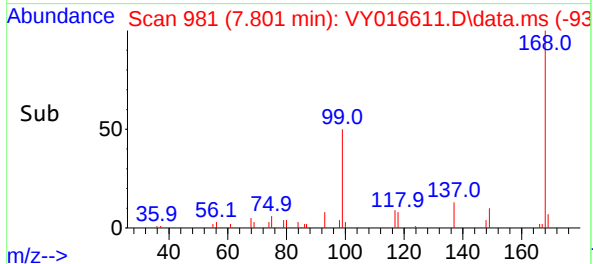
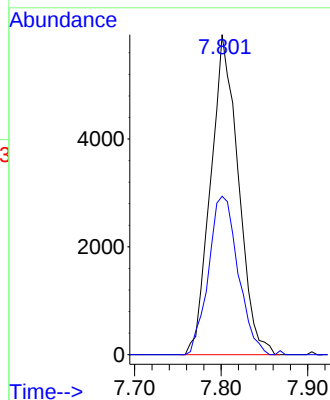
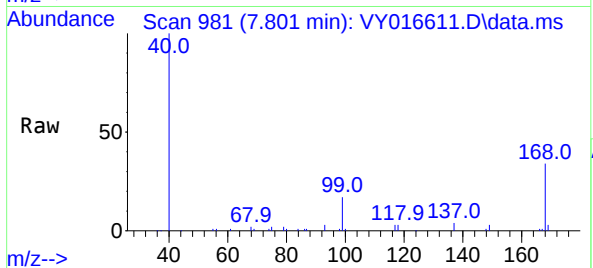




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.801 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

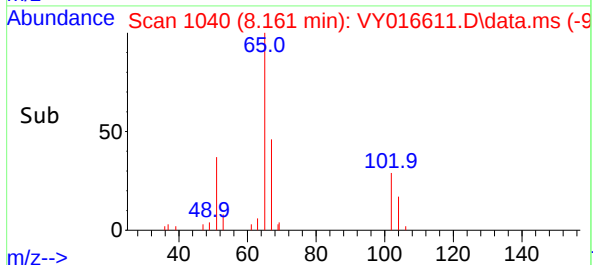
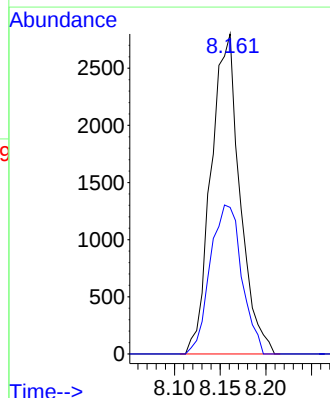
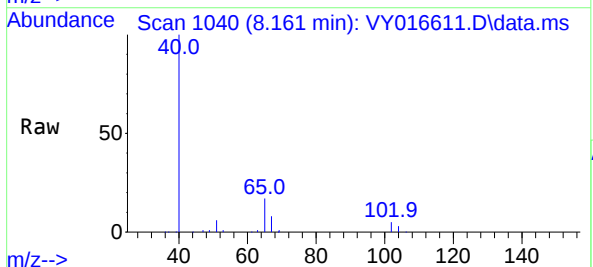
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-03-112223RE

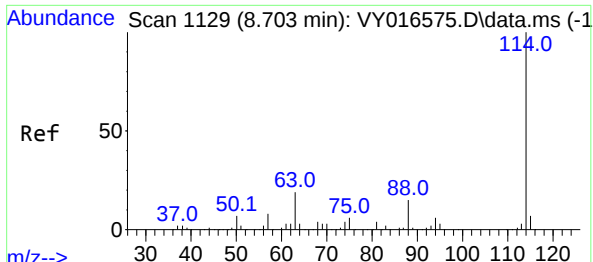
Tgt Ion:168 Resp: 13162  
Ion Ratio Lower Upper  
168 100  
99 49.5 43.4 65.0



#33  
1,2-Dichloroethane-d4  
Concen: 50.505 ug/l  
RT: 8.161 min Scan# 1040  
Delta R.T. 0.006 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

Tgt Ion: 65 Resp: 6144  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 101.8

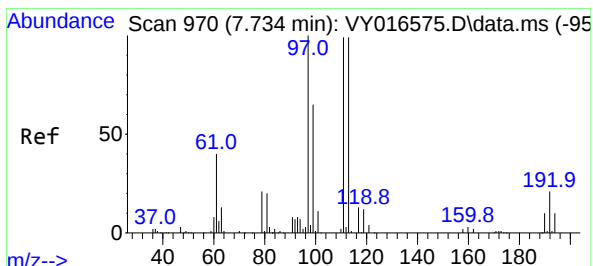
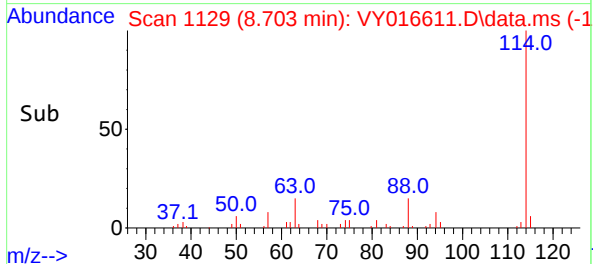
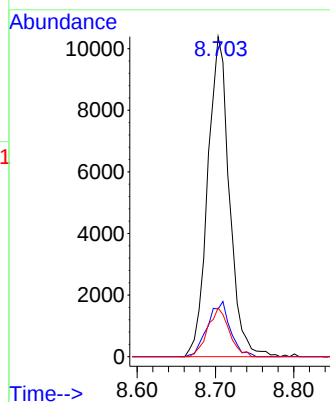
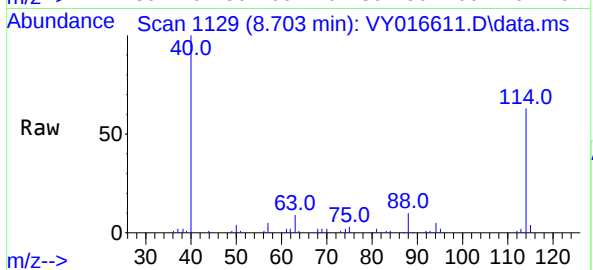




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.703 min Scan# 1129  
Delta R.T. -0.000 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

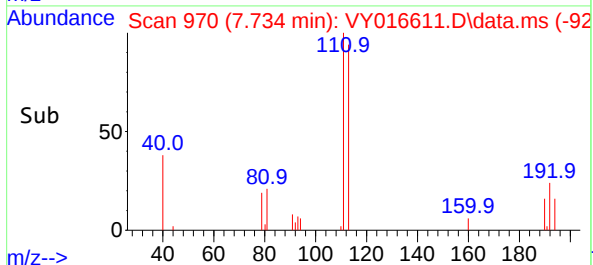
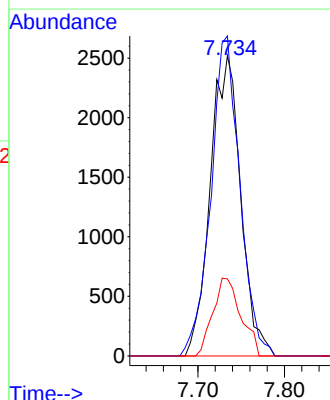
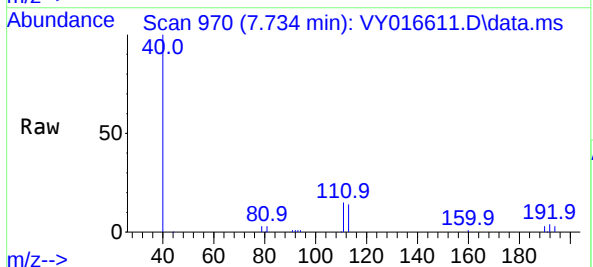
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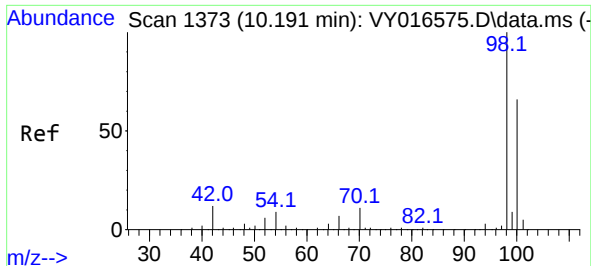
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 19941       |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 14.9  | 0.0 42.4    |
| 88          | 15.2  | 0.0 30.6    |



#35  
Dibromofluoromethane  
Concen: 51.406 ug/l  
RT: 7.734 min Scan# 970  
Delta R.T. -0.000 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 6169        |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 101.2 | 81.3 121.9  |
| 192         | 23.7  | 16.9 25.3   |

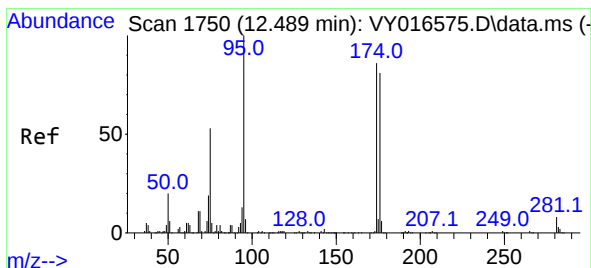
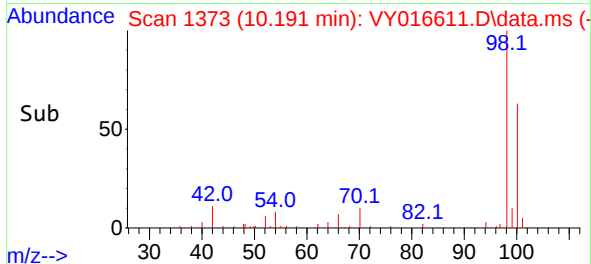
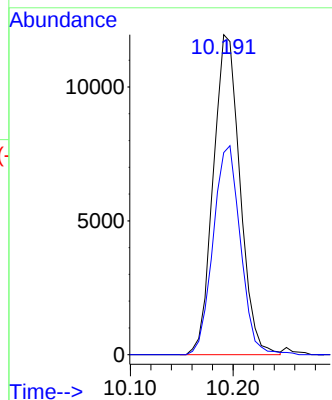
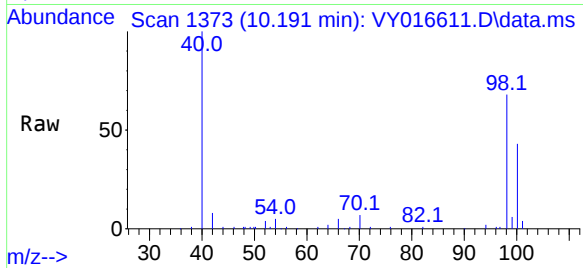




#50  
Toluene-d8  
Concen: 47.532 ug/l  
RT: 10.191 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

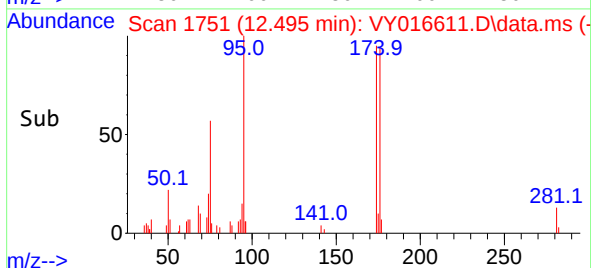
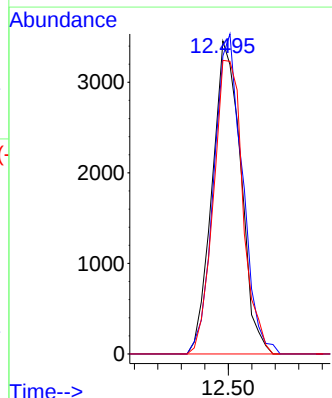
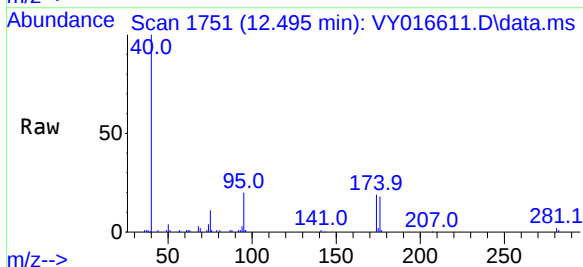
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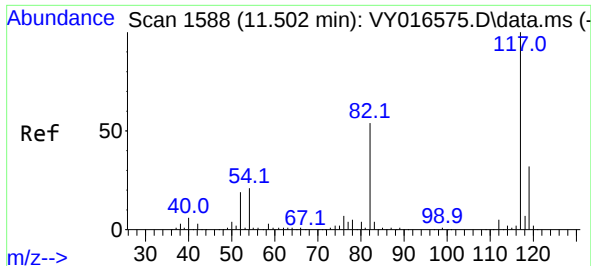
Tgt Ion: 98 Resp: 21576  
Ion Ratio Lower Upper  
98 100  
100 66.8 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 39.256 ug/l  
RT: 12.495 min Scan# 1751  
Delta R.T. 0.006 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

Tgt Ion: 95 Resp: 5860  
Ion Ratio Lower Upper  
95 100  
174 101.5 0.0 178.2  
176 95.9 0.0 173.8

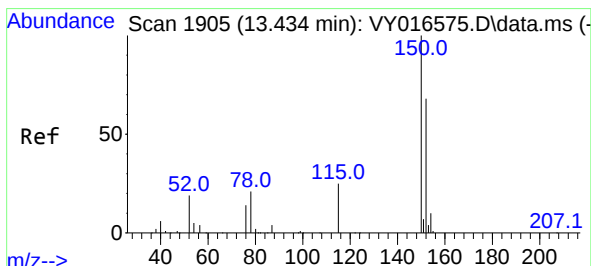
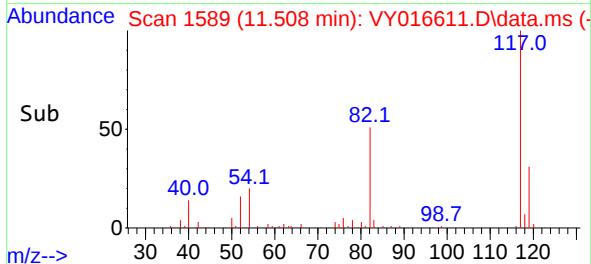
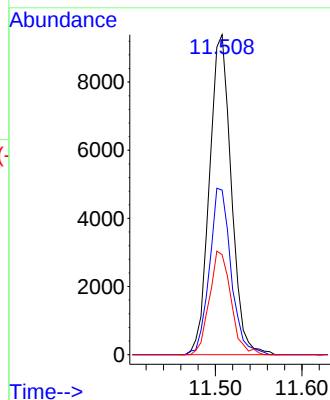
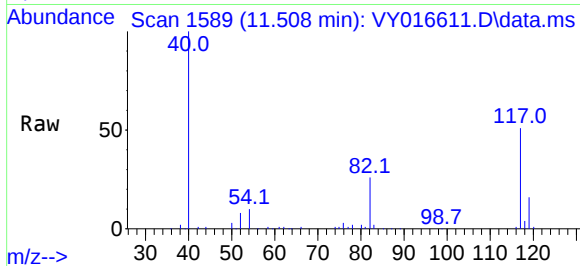




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.508 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-03-112223RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 16457 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 51.5  | 43.4  | 65.0  |
| 119      | 31.2  | 26.3  | 39.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.446 min Scan# 1907  
Delta R.T. 0.012 min  
Lab File: VY016611.D  
Acq: 06 Dec 2023 13:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 6544  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 54.6  | 28.8  | 86.5  |
| 150      | 163.1 | 0.0   | 348.8 |

