

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082222\  
 Data File : VY010153.D  
 Acq On : 22 Aug 2022 18:55  
 Operator : KP/MD  
 Sample : N4258-03  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 280251

Quant Time: Aug 23 00:16:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081922S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 22 02:37:07 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.783  | 168  | 159283   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 300494   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 299417   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 129527   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 88569    | 67.886   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 135.780% |
| 35) Dibromofluoromethane    | 7.710  | 113   | 85157    | 50.293   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 100.580% |
| 50) Toluene-d8              | 10.179 | 98    | 311993   | 49.174   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 98.340%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 97443    | 42.985   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 85.960%  |

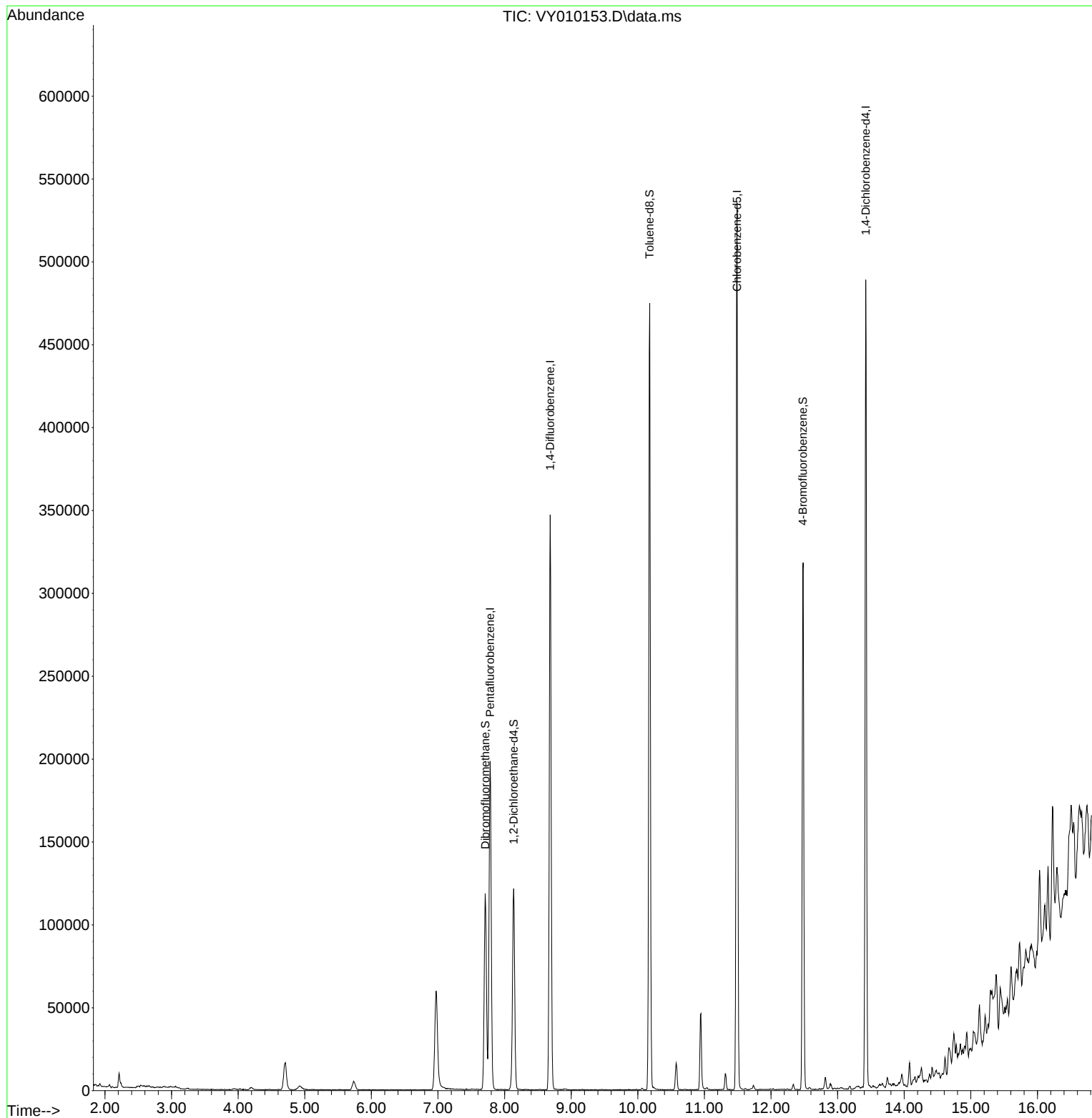
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

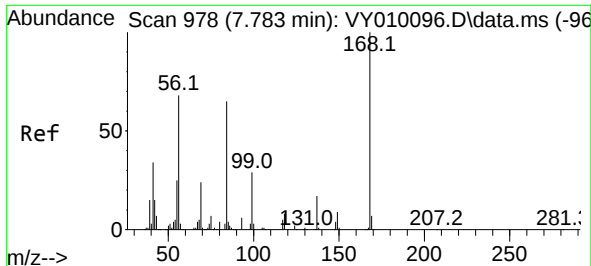
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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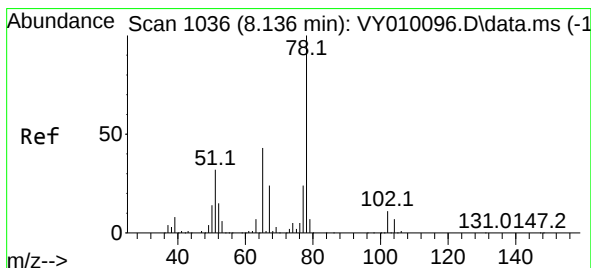
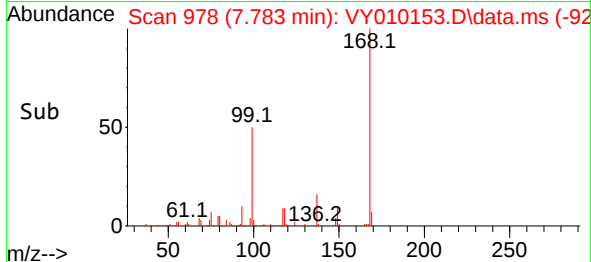
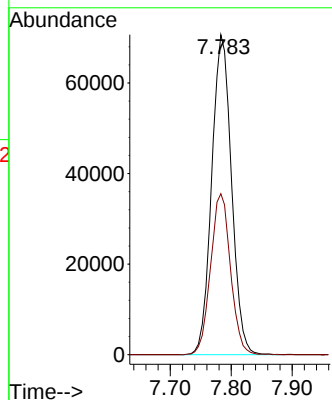
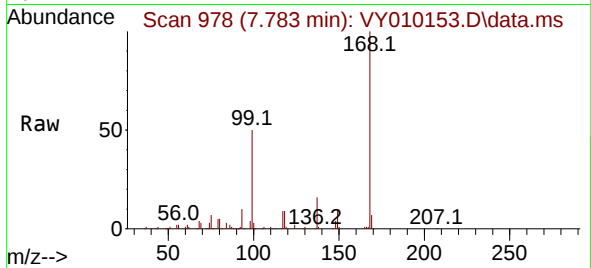




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010153.D  
Acq: 22 Aug 2022 18:55

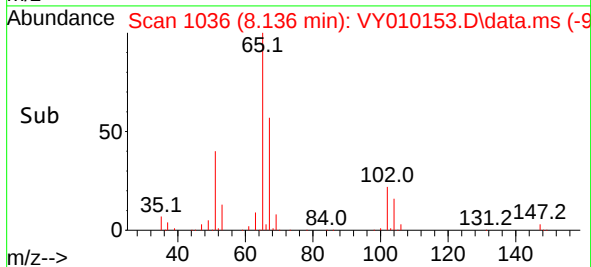
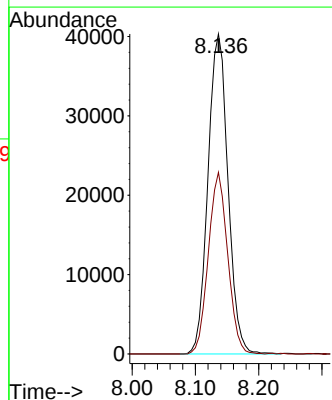
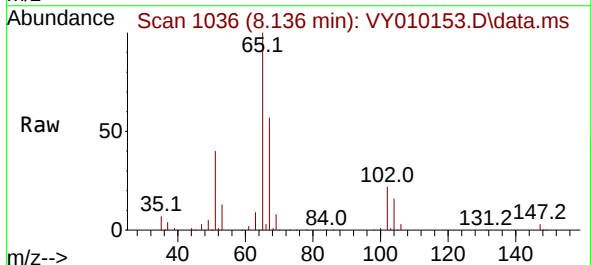
Instrument :  
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ClientSampleId :  
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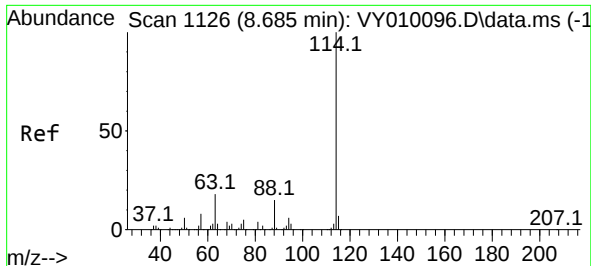
Tgt Ion:168 Resp: 159283  
Ion Ratio Lower Upper  
168 100  
99 50.3 40.7 61.1



#33  
1,2-Dichloroethane-d4  
Concen: 67.886 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY010153.D  
Acq: 22 Aug 2022 18:55

Tgt Ion: 65 Resp: 88569  
Ion Ratio Lower Upper  
65 100  
67 54.9 0.0 110.6

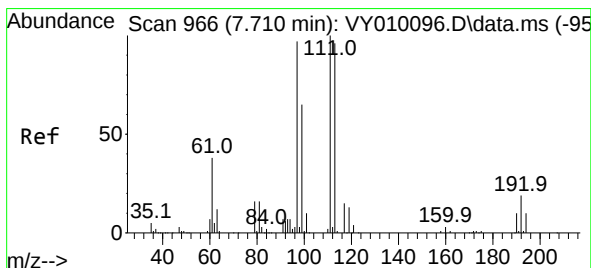
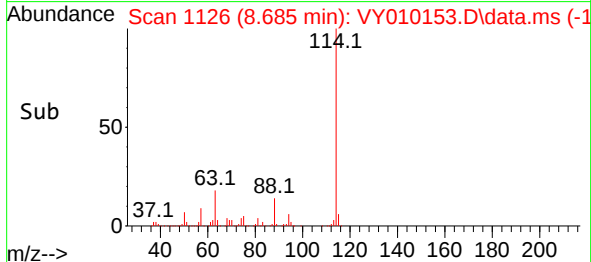
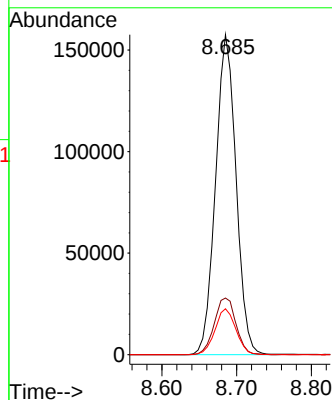
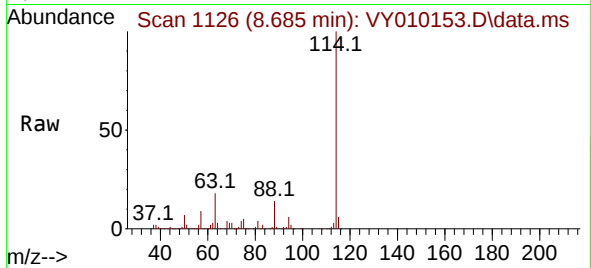




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VY010153.D  
Acq: 22 Aug 2022 18:55

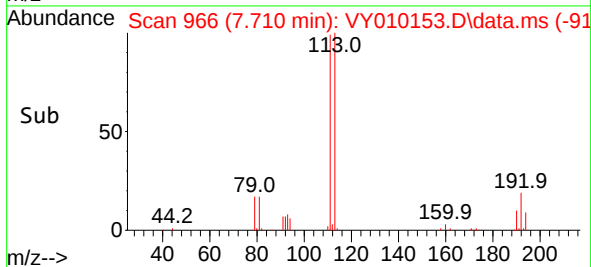
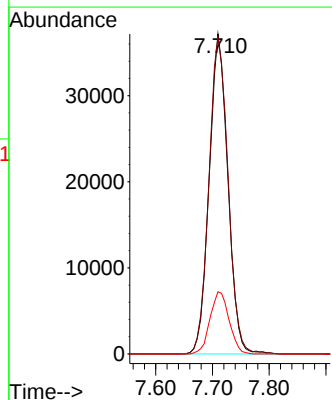
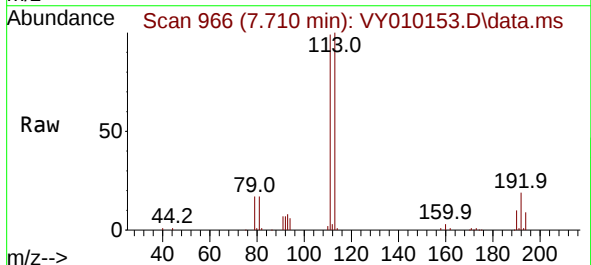
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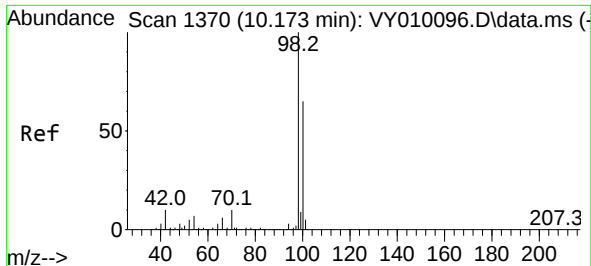
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 300494 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 17.7  | 0.0   | 35.6   |
| 88       | 14.4  | 0.0   | 29.6   |



#35  
Dibromofluoromethane  
Concen: 50.293 ug/l  
RT: 7.710 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VY010153.D  
Acq: 22 Aug 2022 18:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 85157 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.7 | 82.8  | 124.2 |
| 192      | 19.8  | 16.3  | 24.5  |

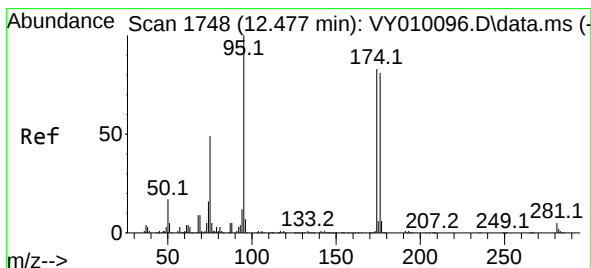
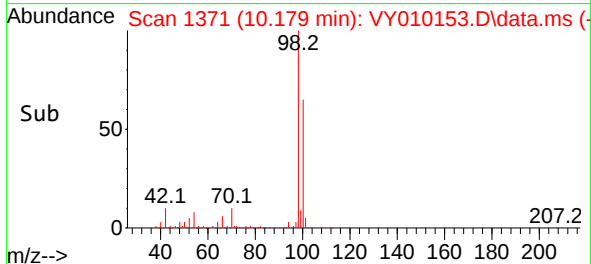
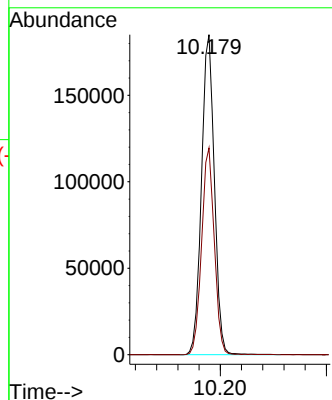
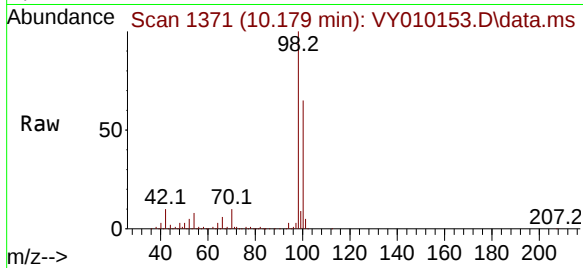




#50  
Toluene-d8  
Concen: 49.174 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY010153.D  
Acq: 22 Aug 2022 18:55

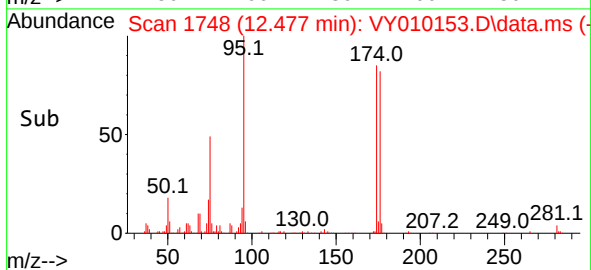
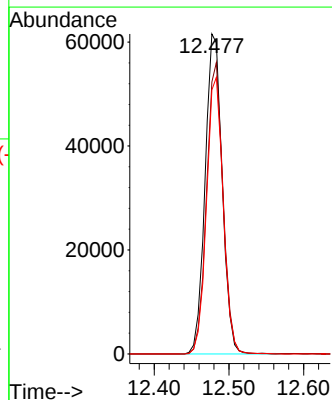
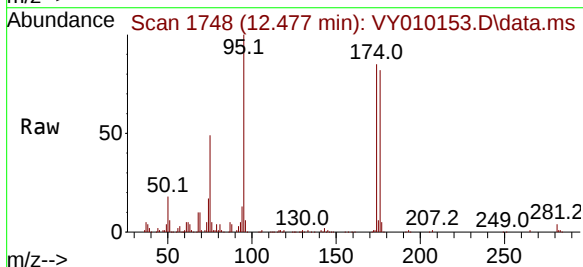
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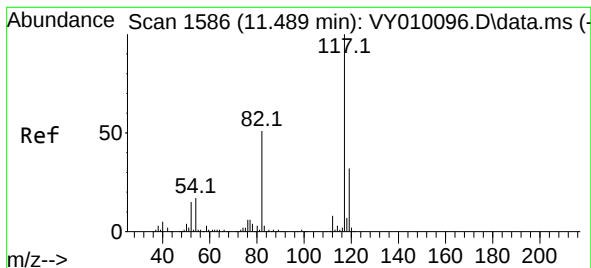
Tgt Ion: 98 Resp: 311993  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.9 77.9



#62  
4-Bromofluorobenzene  
Concen: 42.985 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY010153.D  
Acq: 22 Aug 2022 18:55

Tgt Ion: 95 Resp: 97443  
Ion Ratio Lower Upper  
95 100  
174 88.5 0.0 173.8  
176 84.5 0.0 167.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY010153.D

Acq: 22 Aug 2022 18:55

Instrument :

MSVOA\_Y

ClientSampleId :

280251

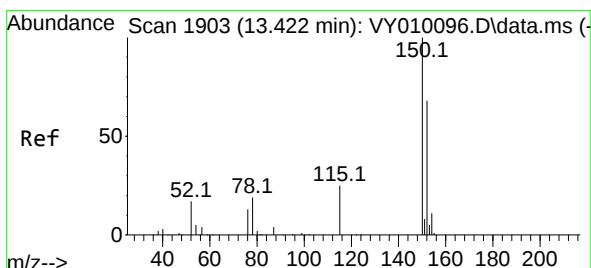
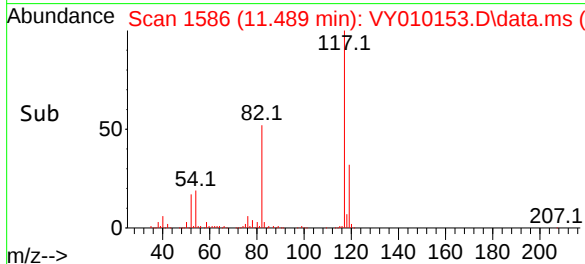
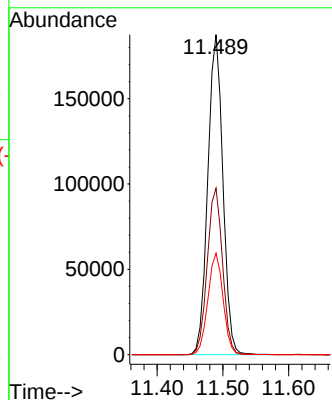
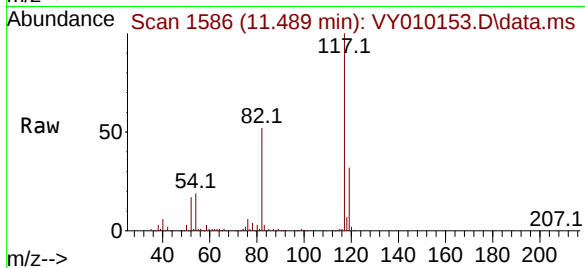
Tgt Ion:117 Resp: 299417

Ion Ratio Lower Upper

117 100

82 52.0 40.6 61.0

119 31.7 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY010153.D

Acq: 22 Aug 2022 18:55

Tgt Ion:152 Resp: 129527

Ion Ratio Lower Upper

152 100

115 56.2 28.1 84.2

150 157.3 0.0 346.2

