

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052125\  
 Data File : VY022367.D  
 Acq On : 21 May 2025 15:08  
 Operator : SY/MD  
 Sample : Q2097-15  
 Misc : 4.42g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 72-12013

Quant Time: May 22 00:11:15 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      | 7.713  | 168  | 258237   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.622  | 114  | 453870   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 359786   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152  | 133171   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 125432   | 44.443   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 88.880% |
| 35) Dibromofluoromethane    | 7.646  | 113   | 132078   | 48.756   | ug/l | 0.01    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 97.520% |
| 50) Toluene-d8              | 10.115 | 98    | 541628   | 48.818   | ug/l | 0.01    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 97.640% |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 136962   | 38.947   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 77.900% |

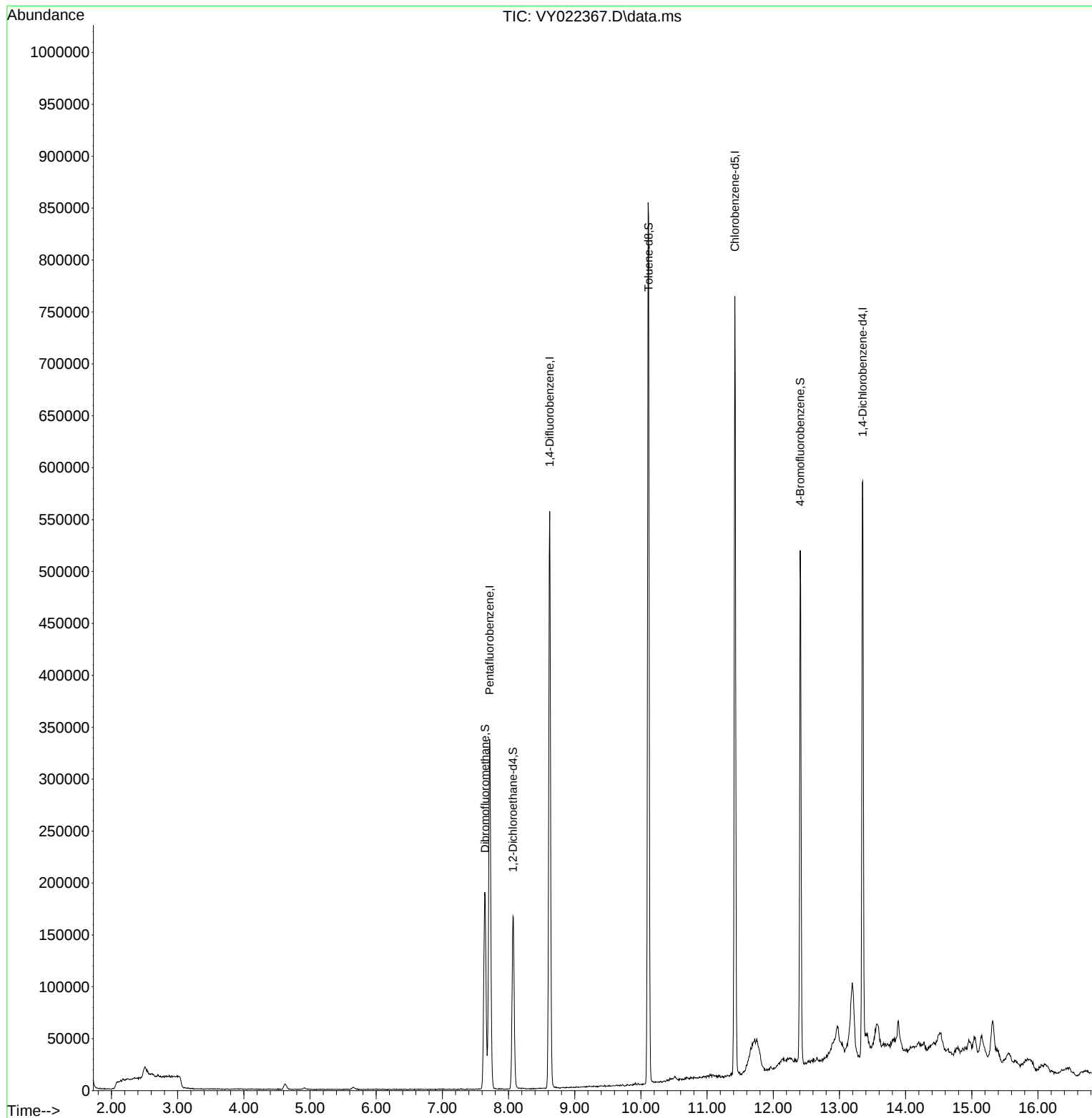
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

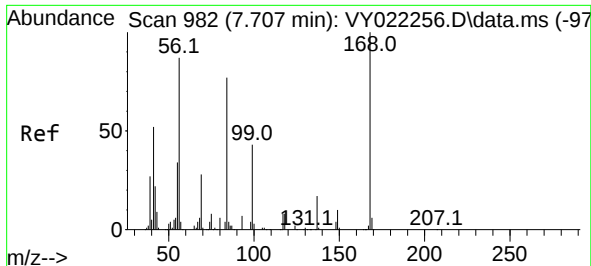
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : SY/MD  
Sample : Q2097-15  
Misc : 4.42g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-12013

Quant Time: May 22 00:11:15 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

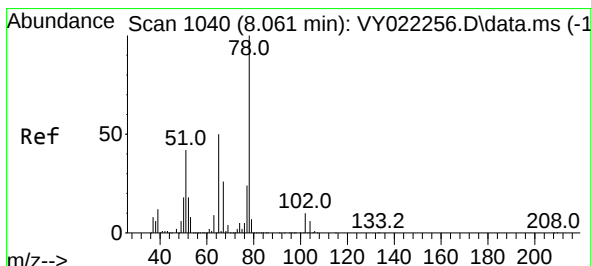
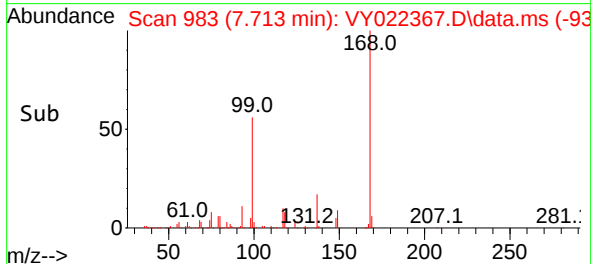
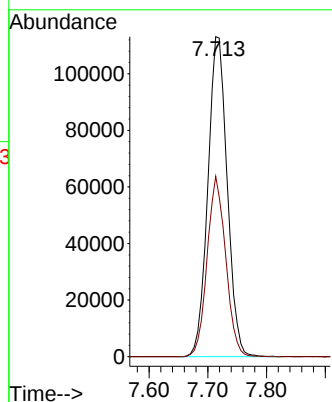
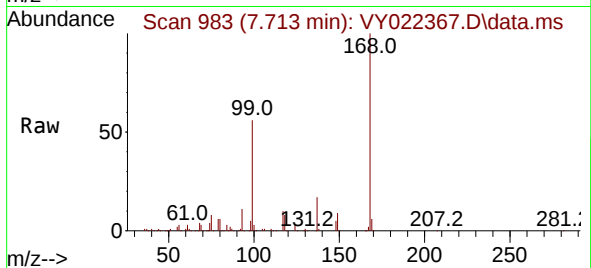




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY022367.D  
Acq: 21 May 2025 15:08

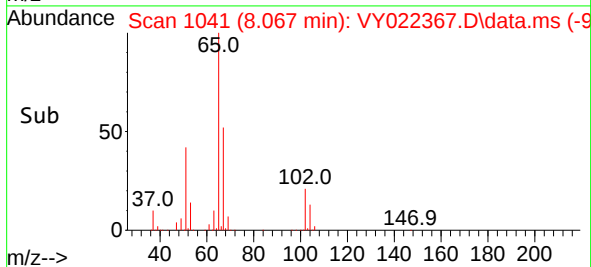
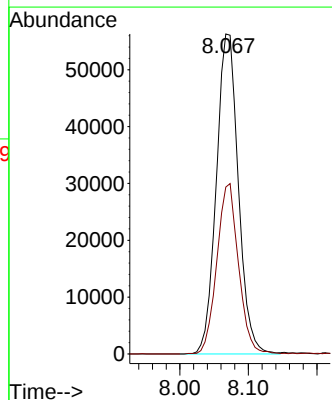
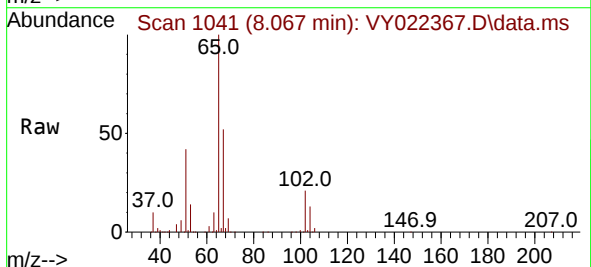
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-12013

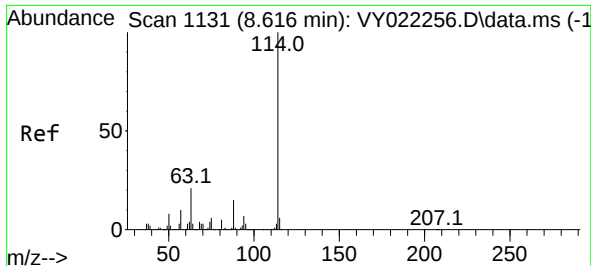
Tgt Ion:168 Resp: 258237  
Ion Ratio Lower Upper  
168 100  
99 56.3 44.2 66.4



#33  
1,2-Dichloroethane-d4  
Concen: 44.443 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VY022367.D  
Acq: 21 May 2025 15:08

Tgt Ion: 65 Resp: 125432  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 104.6

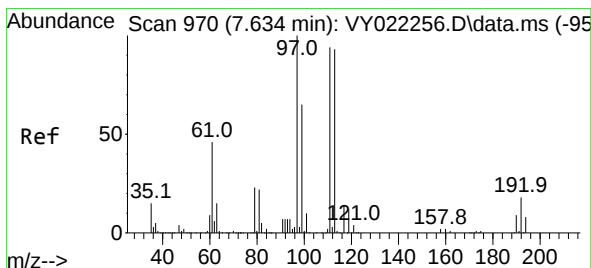
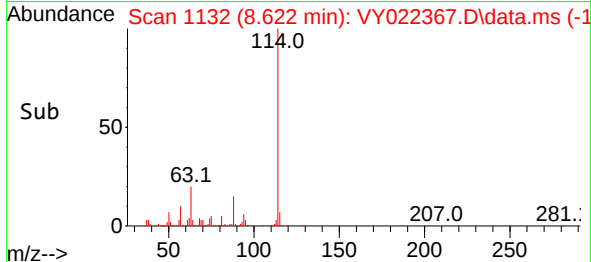
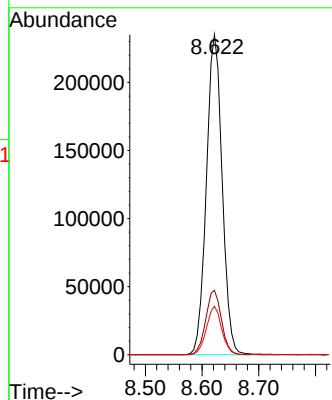
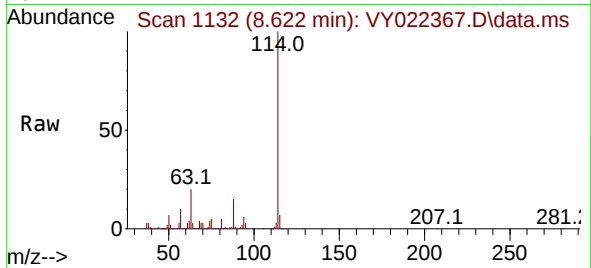




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.622 min Scan# 1132  
Delta R.T. 0.006 min  
Lab File: VY022367.D  
Acq: 21 May 2025 15:08

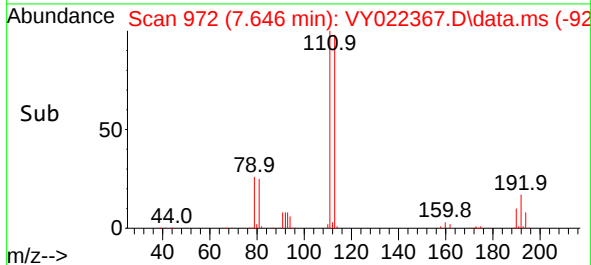
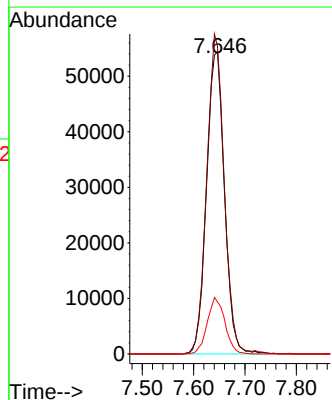
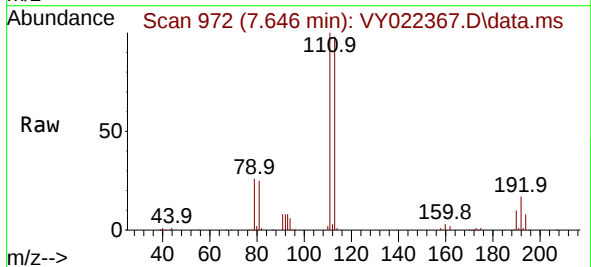
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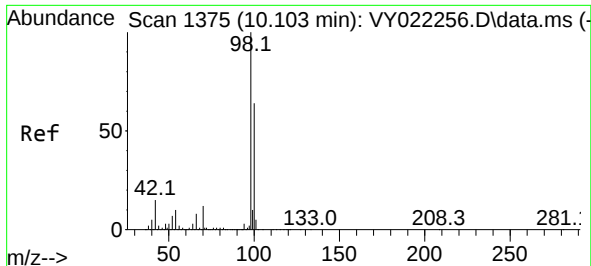
Tgt Ion:114 Resp: 453870  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 41.0  
88 15.1 0.0 29.4



#35  
Dibromofluoromethane  
Concen: 48.756 ug/l  
RT: 7.646 min Scan# 972  
Delta R.T. 0.012 min  
Lab File: VY022367.D  
Acq: 21 May 2025 15:08

Tgt Ion:113 Resp: 132078  
Ion Ratio Lower Upper  
113 100  
111 103.6 82.6 123.8  
192 18.4 15.2 22.8

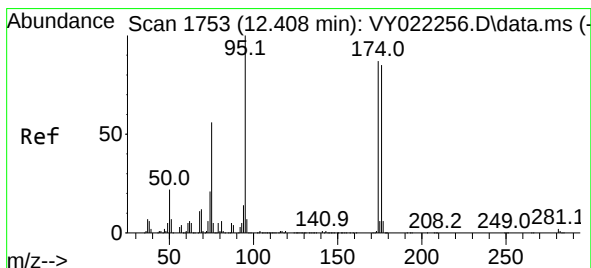
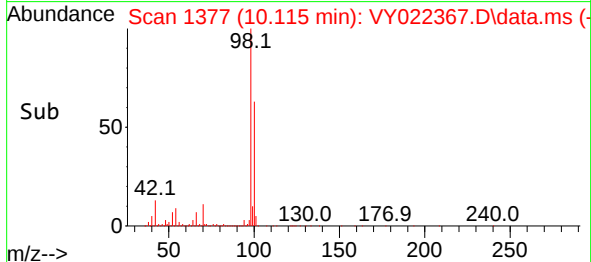
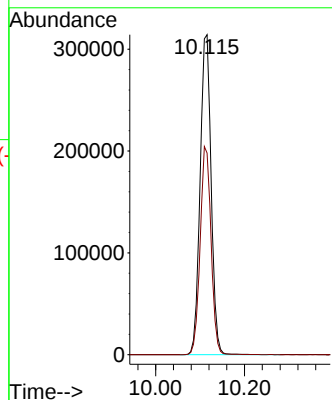
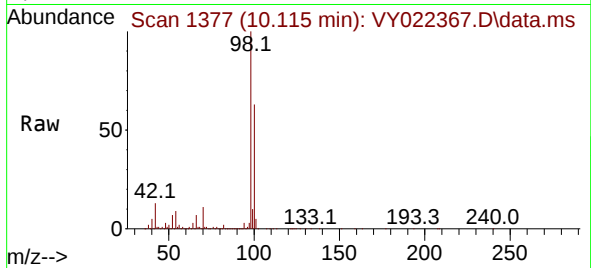




#50  
Toluene-d8  
Concen: 48.818 ug/l  
RT: 10.115 min Scan# 1377  
Delta R.T. 0.012 min  
Lab File: VY022367.D  
Acq: 21 May 2025 15:08

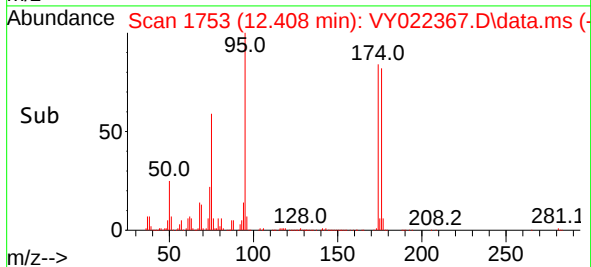
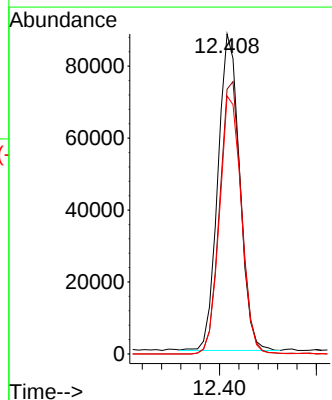
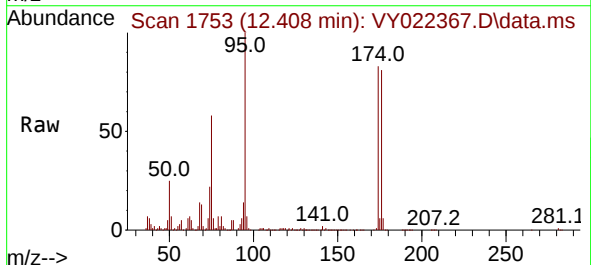
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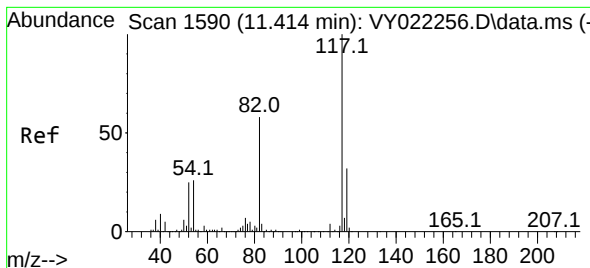
Tgt Ion: 98 Resp: 541628  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.8 77.8



#62  
4-Bromofluorobenzene  
Concen: 38.947 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY022367.D  
Acq: 21 May 2025 15:08

Tgt Ion: 95 Resp: 136962  
Ion Ratio Lower Upper  
95 100  
174 86.6 0.0 166.8  
176 82.1 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022367.D

Acq: 21 May 2025 15:08

Instrument :

MSVOA\_Y

ClientSampleId :

72-12013

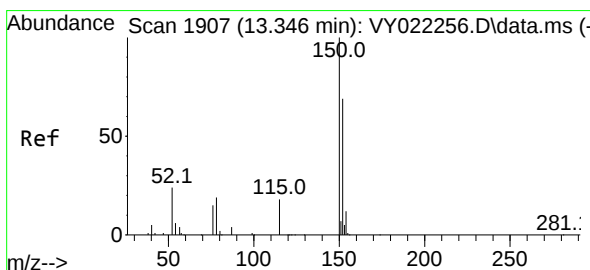
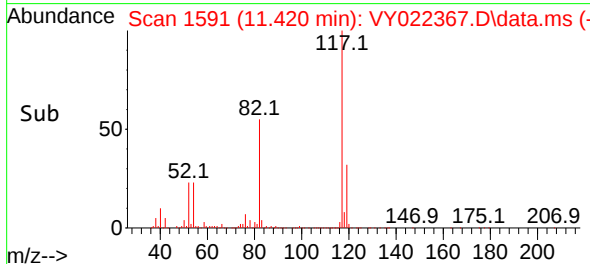
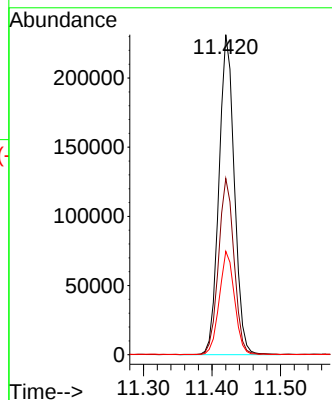
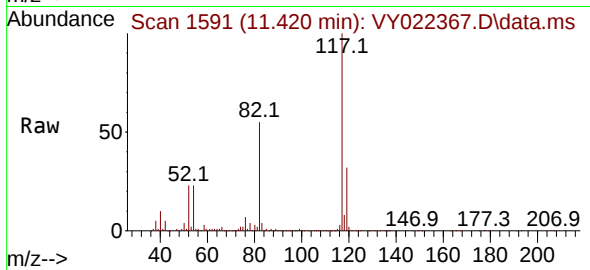
Tgt Ion:117 Resp: 359786

Ion Ratio Lower Upper

117 100

82 55.0 46.6 70.0

119 32.3 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022367.D

Acq: 21 May 2025 15:08

Tgt Ion:152 Resp: 133171

Ion Ratio Lower Upper

152 100

115 56.9 29.4 88.2

150 157.7 0.0 353.8

