

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102025\  
 Data File : VY023507.D  
 Acq On : 20 Oct 2025 14:36  
 Operator : SY/MD  
 Sample : Q3383-01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OR-03-101725

Quant Time: Oct 21 03:59:11 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:12:50 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 87147    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 117576   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 96488    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 34513    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 40262    | 55.249   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 110.500% |
| 35) Dibromofluoromethane    | 7.640  | 113   | 46161    | 63.895   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 127.800% |
| 50) Toluene-d8              | 10.109 | 98    | 130149   | 48.374   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 96.740%  |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 33298    | 37.487   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 74.980%  |

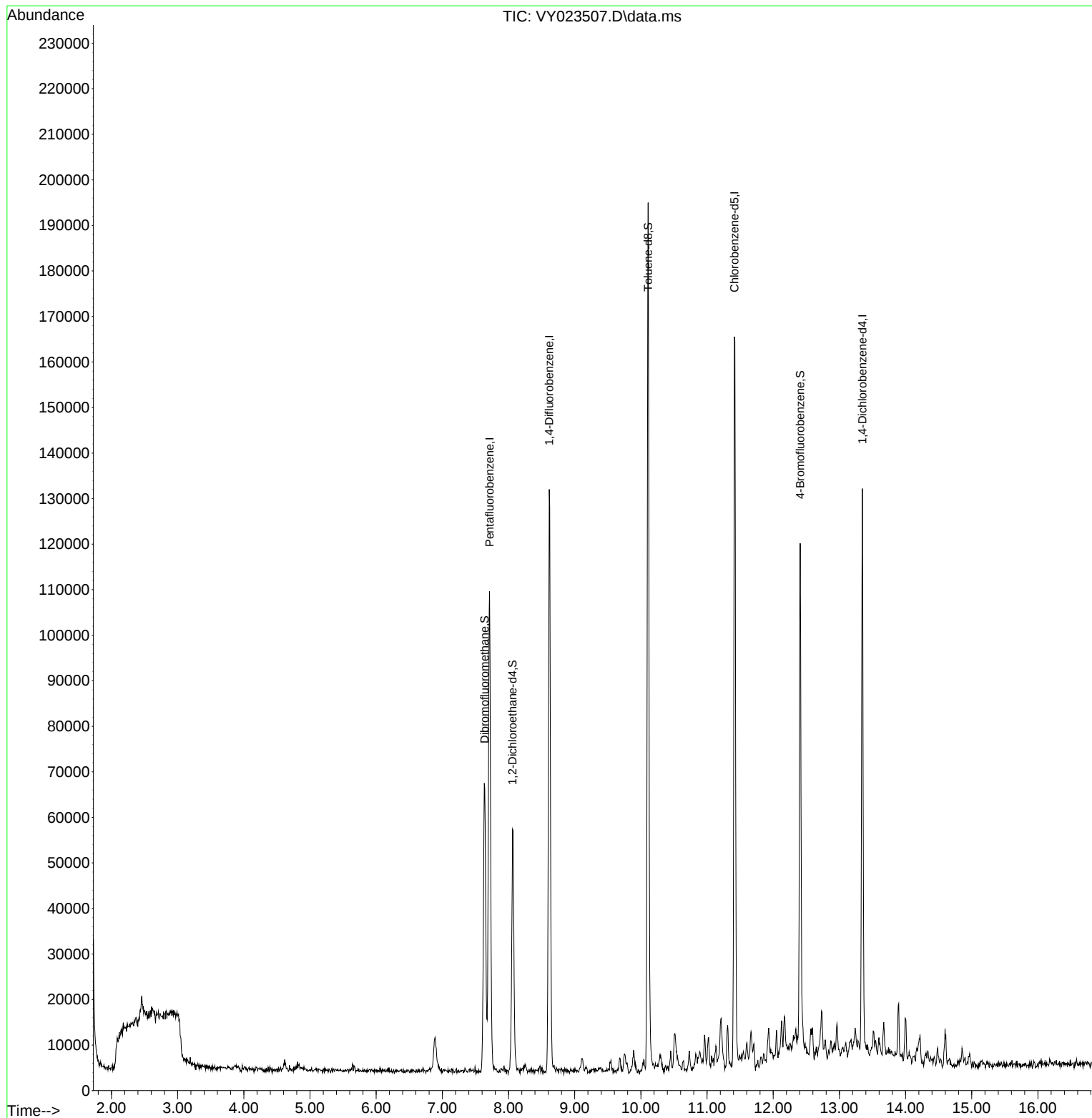
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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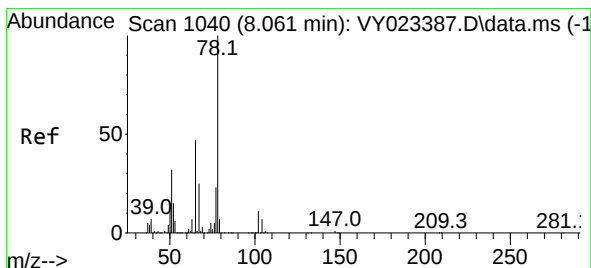
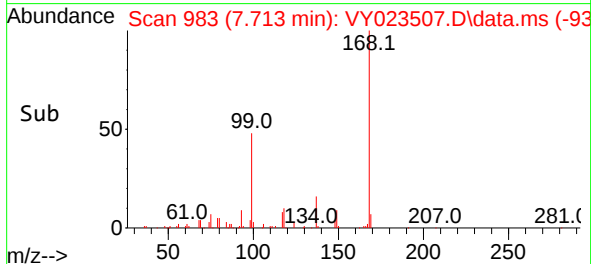
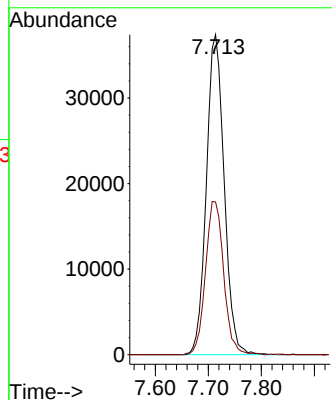
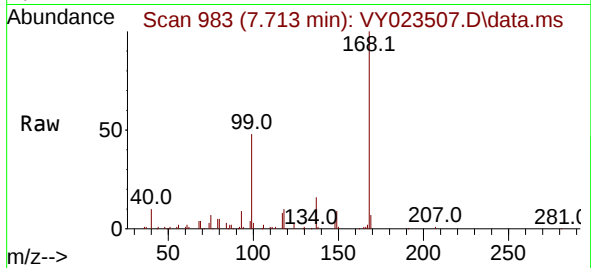




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023507.D  
Acq: 20 Oct 2025 14:36

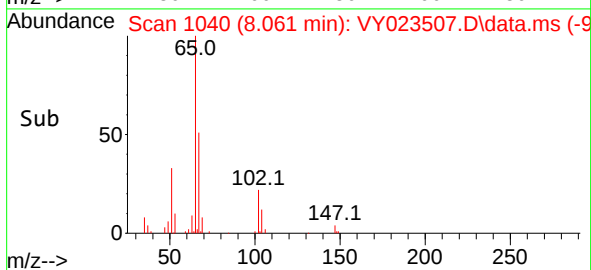
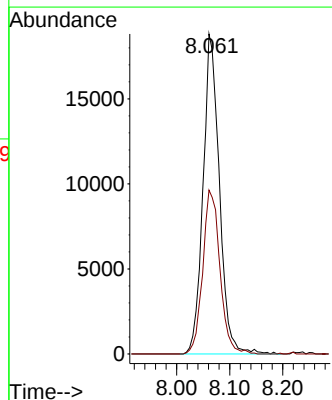
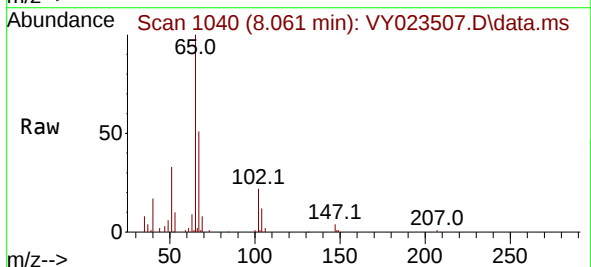
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-03-101725

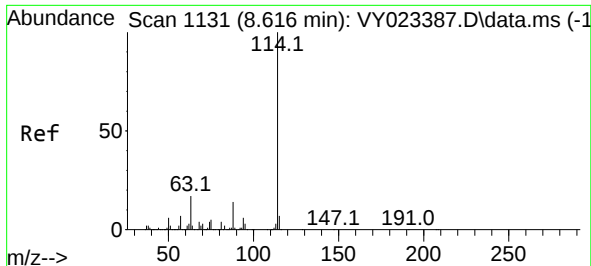
Tgt Ion:168 Resp: 87147  
Ion Ratio Lower Upper  
168 100  
99 47.8 39.7 59.5



#33  
1,2-Dichloroethane-d4  
Concen: 55.249 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY023507.D  
Acq: 20 Oct 2025 14:36

Tgt Ion: 65 Resp: 40262  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 105.8

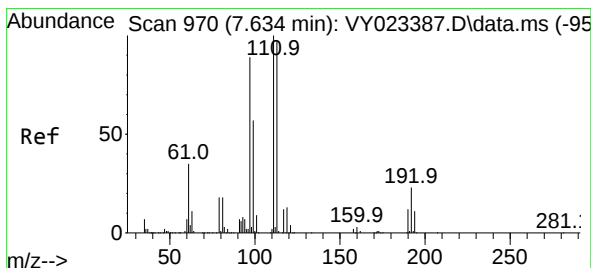
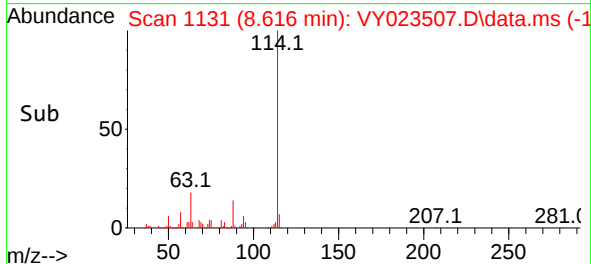
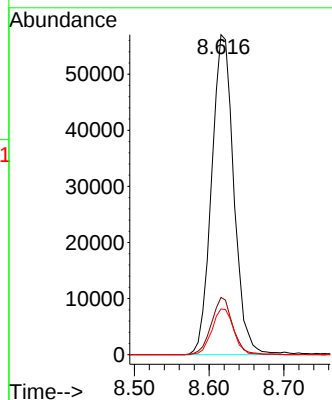
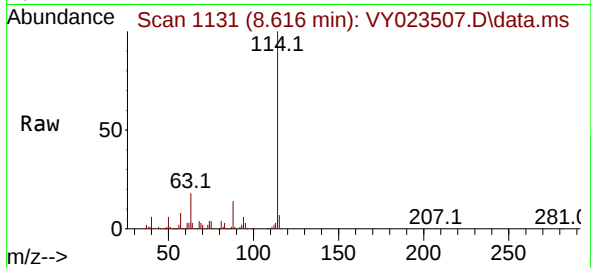




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY023507.D  
Acq: 20 Oct 2025 14:36

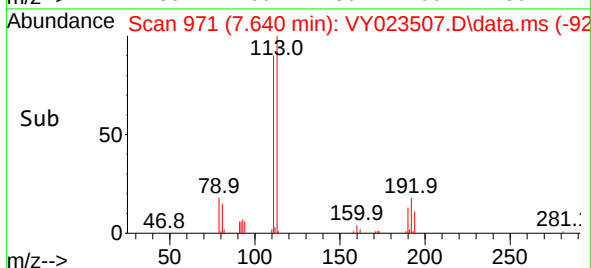
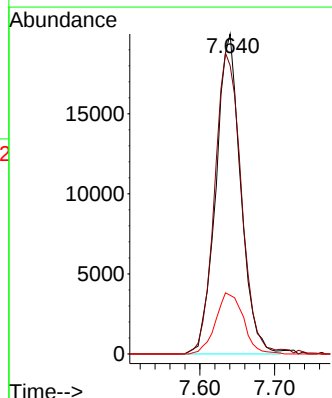
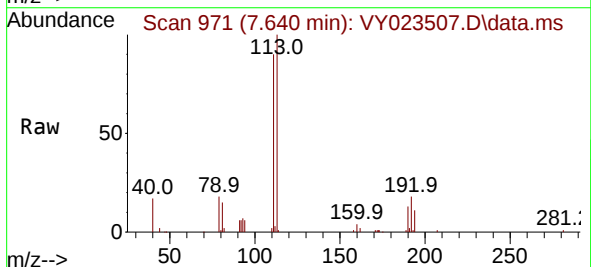
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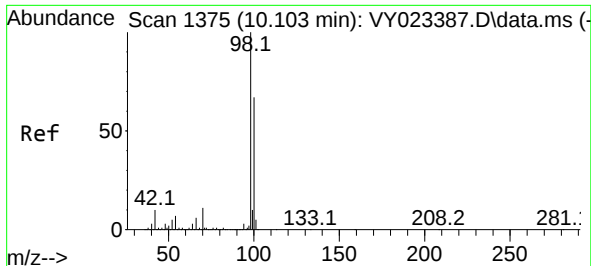
Tgt Ion:114 Resp: 117576  
Ion Ratio Lower Upper  
114 100  
63 17.9 0.0 34.2  
88 14.3 0.0 28.4



#35  
Dibromofluoromethane  
Concen: 63.895 ug/l  
RT: 7.640 min Scan# 971  
Delta R.T. 0.006 min  
Lab File: VY023507.D  
Acq: 20 Oct 2025 14:36

Tgt Ion:113 Resp: 46161  
Ion Ratio Lower Upper  
113 100  
111 101.6 81.8 122.6  
192 21.3 18.0 27.0

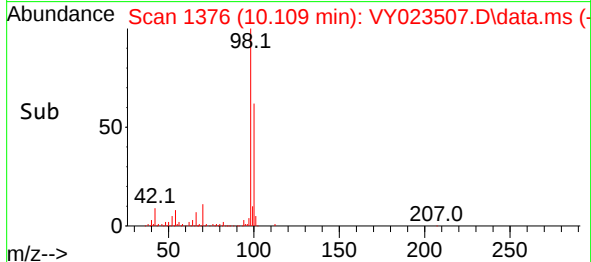
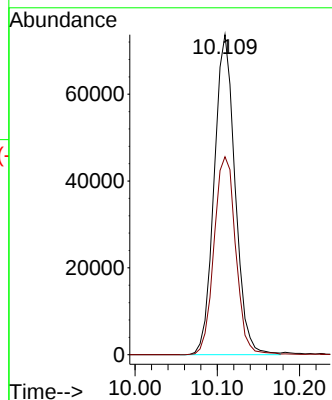
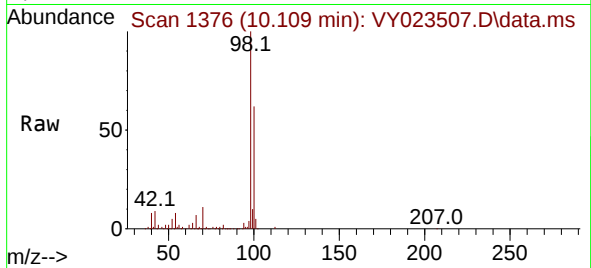




#50  
Toluene-d8  
Concen: 48.374 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023507.D  
Acq: 20 Oct 2025 14:36

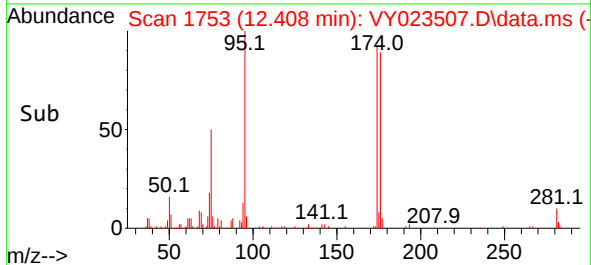
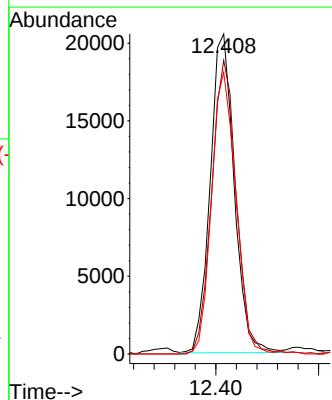
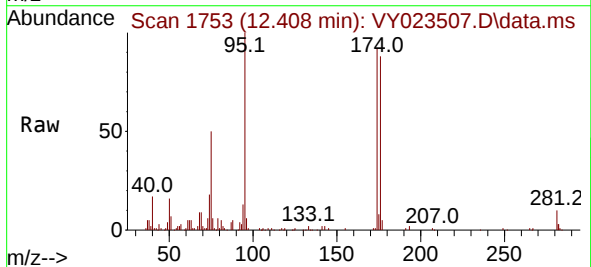
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-03-101725

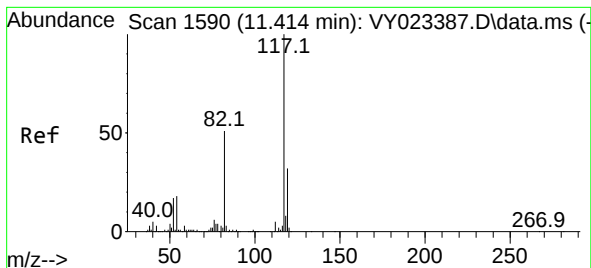
Tgt Ion: 98 Resp: 130149  
Ion Ratio Lower Upper  
98 100  
100 64.2 53.0 79.4



#62  
4-Bromofluorobenzene  
Concen: 37.487 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023507.D  
Acq: 20 Oct 2025 14:36

Tgt Ion: 95 Resp: 33298  
Ion Ratio Lower Upper  
95 100  
174 94.9 0.0 192.8  
176 89.6 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023507.D

Acq: 20 Oct 2025 14:36

Instrument :

MSVOA\_Y

ClientSampleId :

OR-03-101725

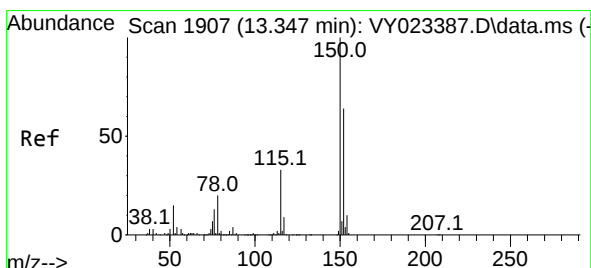
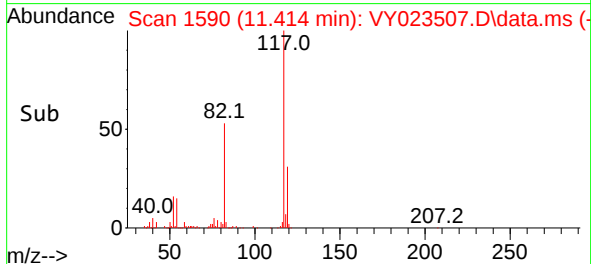
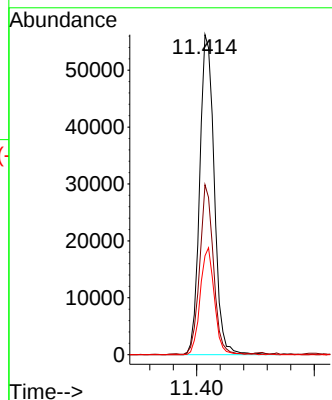
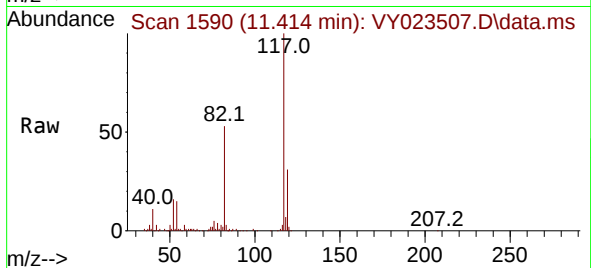
Tgt Ion:117 Resp: 96488

Ion Ratio Lower Upper

117 100

82 53.0 41.0 61.4

119 30.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023507.D

Acq: 20 Oct 2025 14:36

Tgt Ion:152 Resp: 34513

Ion Ratio Lower Upper

152 100

115 52.1 27.1 81.2

150 152.8 0.0 347.4

