

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081525\  
 Data File : VY023117.D  
 Acq On : 15 Aug 2025 11:31  
 Operator : SY/MD  
 Sample : Q2853-01  
 Misc : 5.18g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 Tr-5-081325

Quant Time: Aug 18 02:27:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 568235   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.609  | 114  | 1090444  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 987577   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152  | 412577   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 329880   | 60.912   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 121.820% |
| 35) Dibromofluoromethane    | 7.628  | 113   | 343033   | 52.573   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 105.140% |
| 50) Toluene-d8              | 10.103 | 98    | 1330270  | 52.188   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 104.380% |
| 62) 4-Bromofluorobenzene    | 12.401 | 95    | 408322   | 49.810   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 99.620%  |

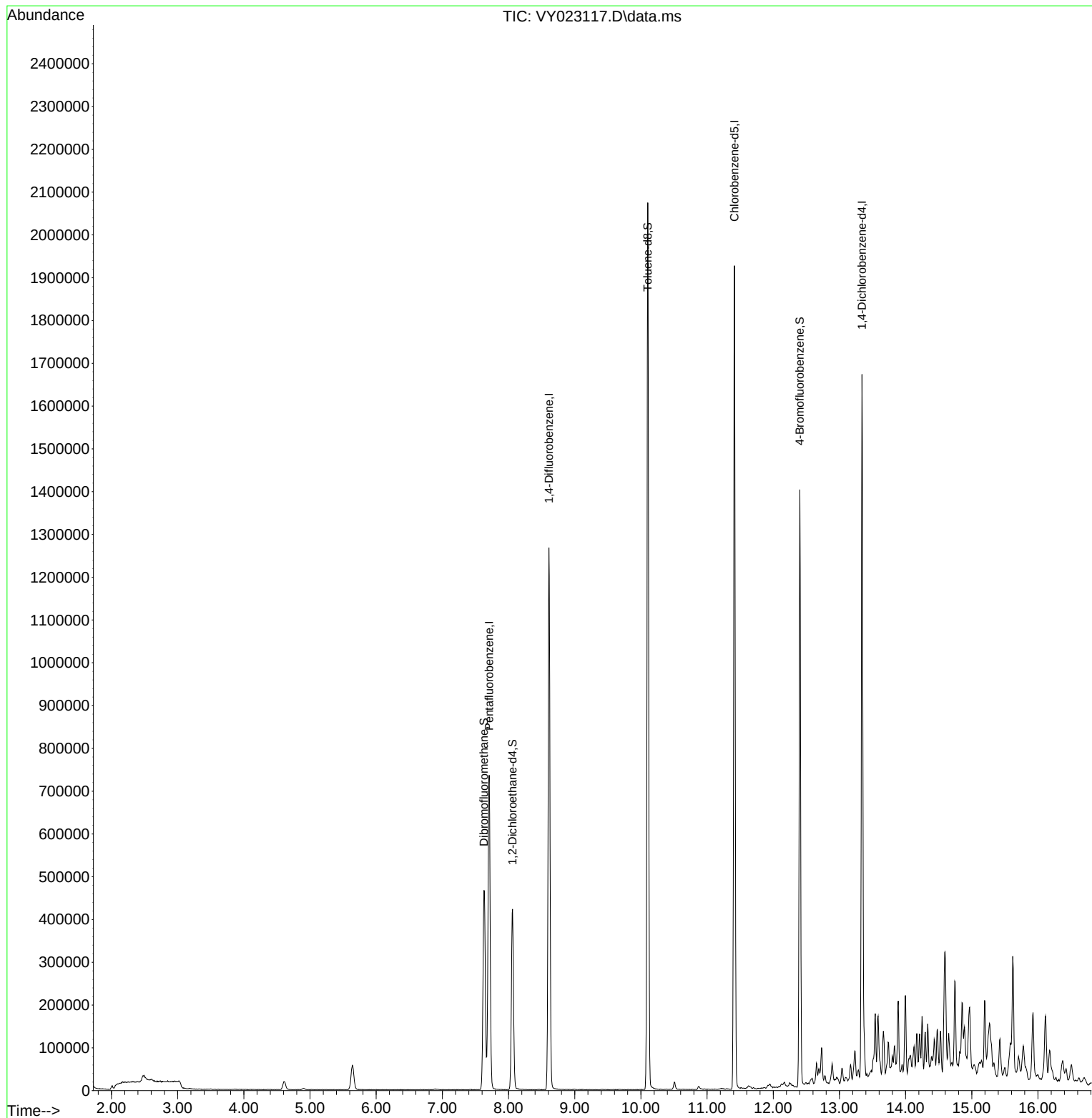
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

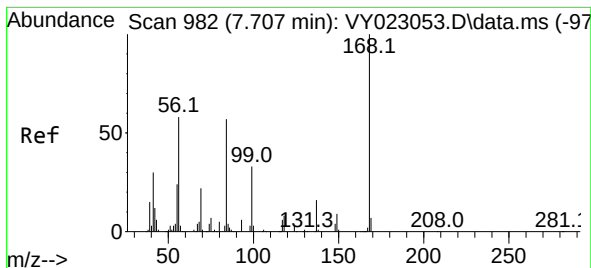
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Aug 13 02:10:11 2025  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 9

Delta R.T. 0.000 min

Lab File: VY023117.D

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Instrument :

MSVOA\_Y

ClientSampleId :

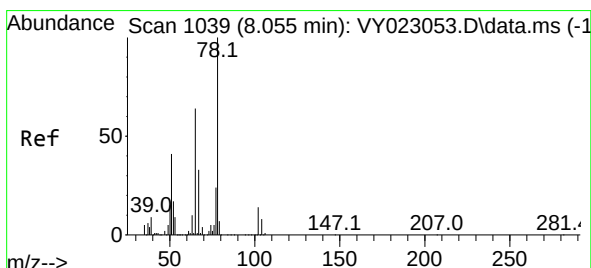
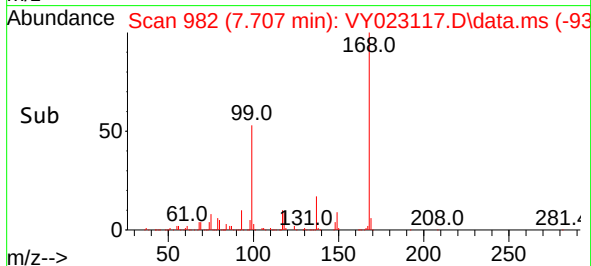
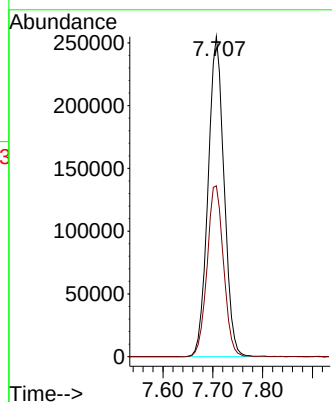
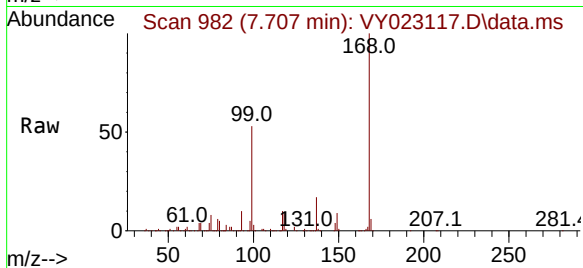
Tr-5-081325

Tgt Ion:168 Resp: 568235

Ion Ratio Lower Upper

168 100

99 53.4 42.8 64.2



#33

1,2-Dichloroethane-d4

Concen: 60.912 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023117.D

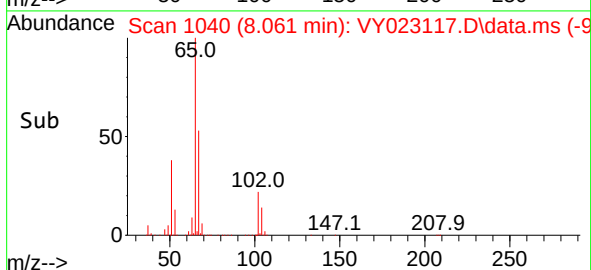
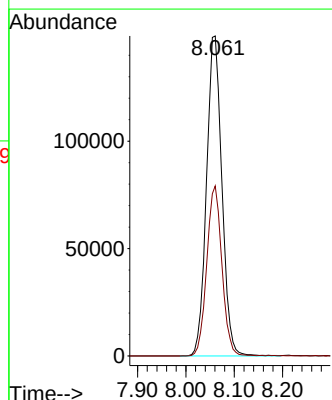
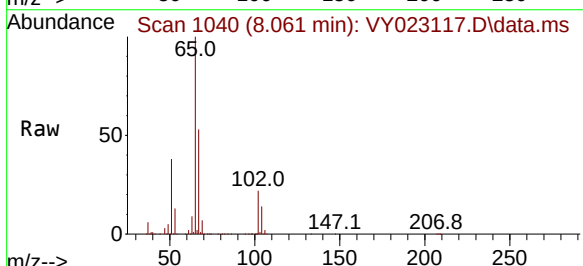
Acq: 15 Aug 2025 11:31

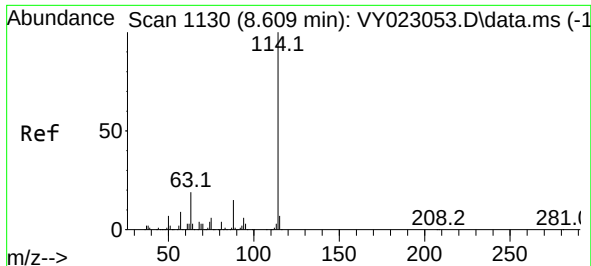
Tgt Ion: 65 Resp: 329880

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY023117.D

Acq: 15 Aug 2025 11:31

Instrument :

MSVOA\_Y

ClientSampleId :

Tr-5-081325

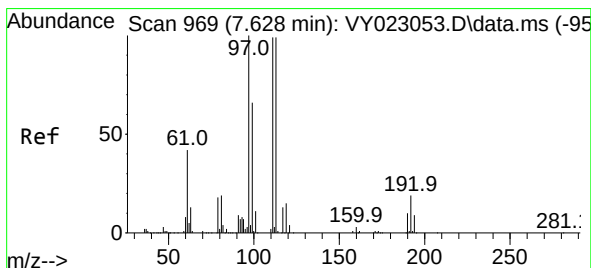
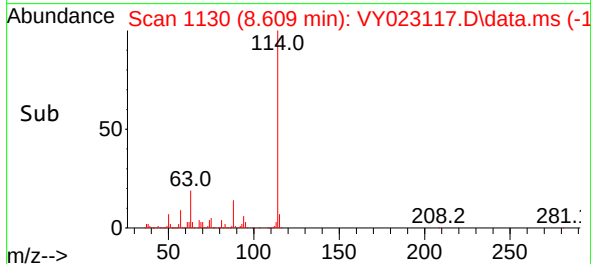
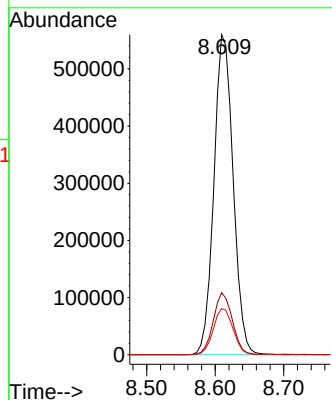
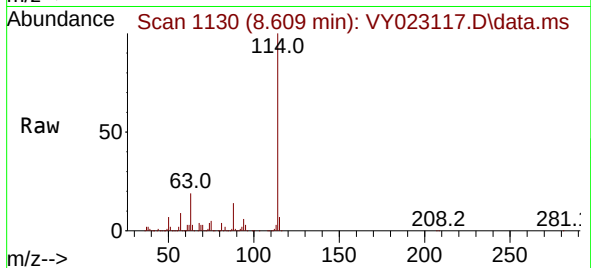
Tgt Ion:114 Resp: 1090444

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

88 14.4 0.0 30.0



#35

Dibromofluoromethane

Concen: 52.573 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.000 min

Lab File: VY023117.D

Acq: 15 Aug 2025 11:31

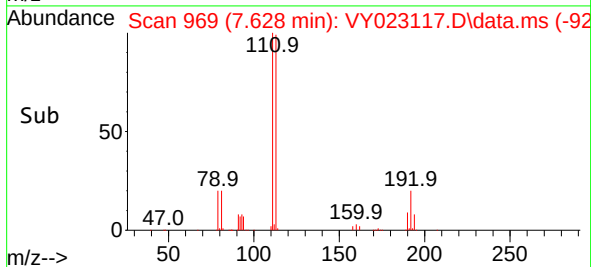
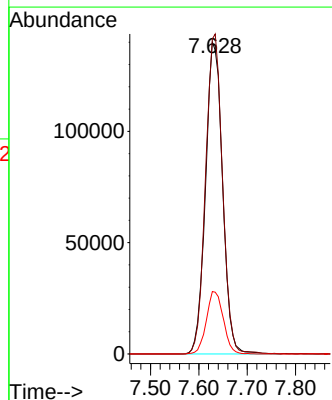
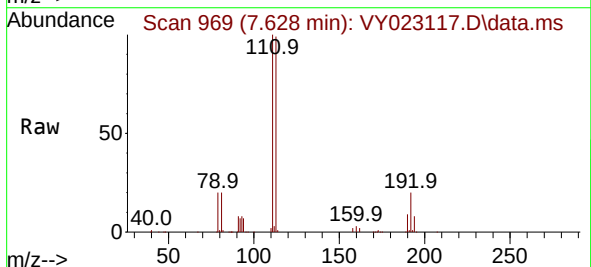
Tgt Ion:113 Resp: 343033

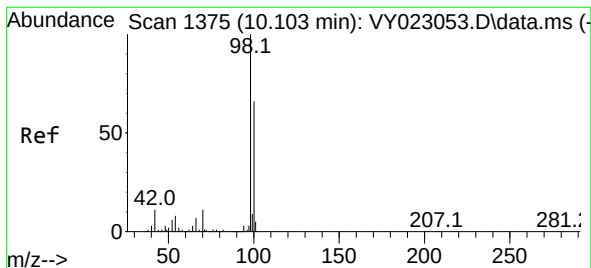
Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

192 20.0 16.2 24.4





#50

Toluene-d8

Concen: 52.188 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY023117.D

Acq: 15 Aug 2025 11:31

Instrument :

MSVOA\_Y

ClientSampleId :

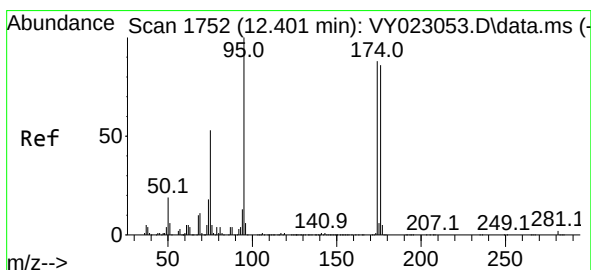
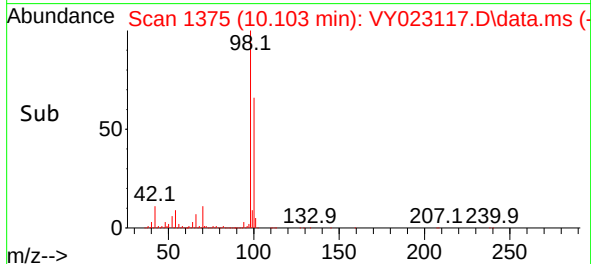
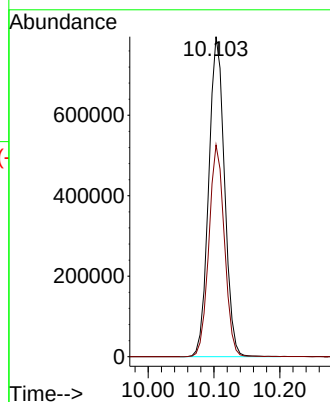
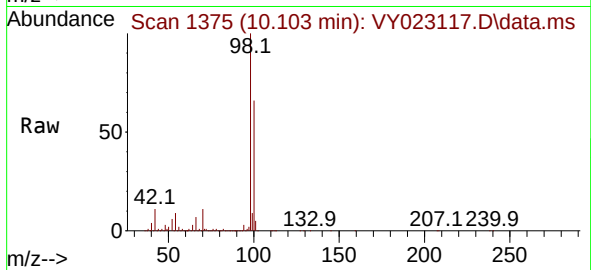
Tr-5-081325

Tgt Ion: 98 Resp: 1330270

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 49.810 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.000 min

Lab File: VY023117.D

Acq: 15 Aug 2025 11:31

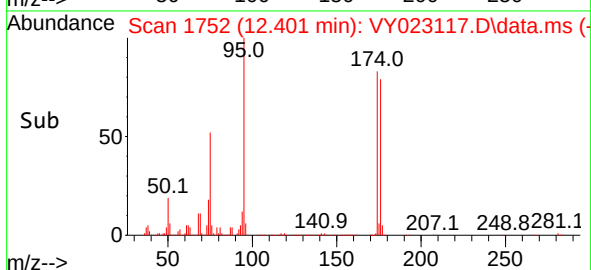
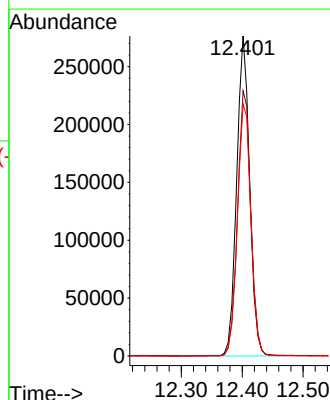
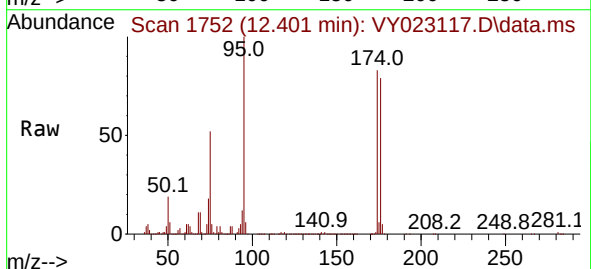
Tgt Ion: 95 Resp: 408322

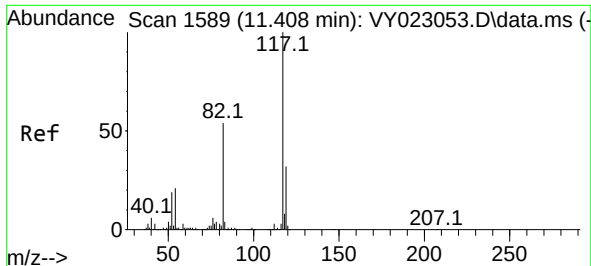
Ion Ratio Lower Upper

95 100

174 85.5 0.0 171.6

176 81.8 0.0 167.6

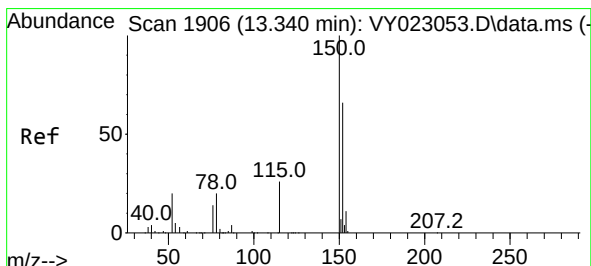
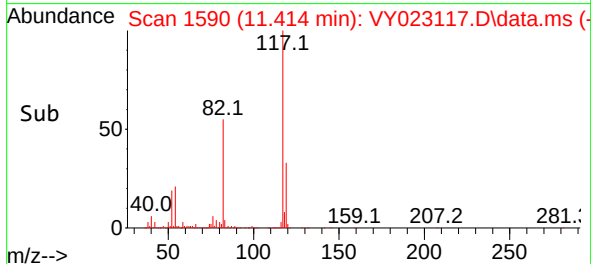
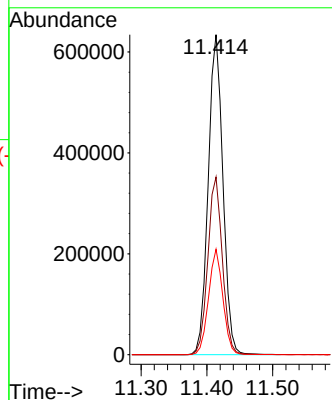
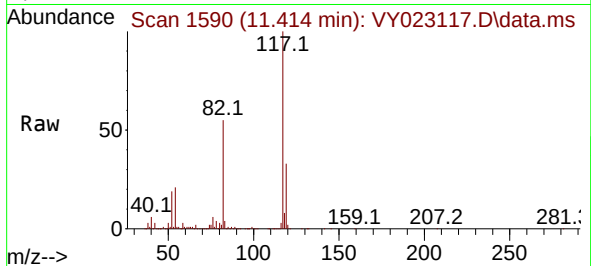




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VY023117.D  
Acq: 15 Aug 2025 11:31

Instrument :  
MSVOA\_Y  
ClientSampleId :  
Tr-5-081325

Tgt Ion:117 Resp: 987577  
Ion Ratio Lower Upper  
117 100  
82 55.5 43.4 65.0  
119 32.9 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.340 min Scan# 1906  
Delta R.T. -0.000 min  
Lab File: VY023117.D  
Acq: 15 Aug 2025 11:31

Tgt Ion:152 Resp: 412577  
Ion Ratio Lower Upper  
152 100  
115 56.3 28.2 84.6  
150 156.1 0.0 348.0

