

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092823\  
 Data File : VY015747.D  
 Acq On : 28 Sep 2023 16:44  
 Operator : SY/MD  
 Sample : 04627-07RE  
 Misc : 3.55g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 280-300FB-BACKFILL-04RE

Quant Time: Sep 29 01:26:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.795  | 168  | 116879   | 50.000 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.697  | 114  | 209093   | 50.000 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 11.496 | 117  | 195579   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 88262    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.149  | 65    | 80481    | 62.583   | ug/l | 0.01     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 125.160% |
| 35) Dibromofluoromethane    | 7.722  | 113   | 69910    | 55.861   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 111.720% |
| 50) Toluene-d8              | 10.185 | 98    | 248607   | 58.587   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 117.180% |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 81530    | 48.960   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 97.920%  |

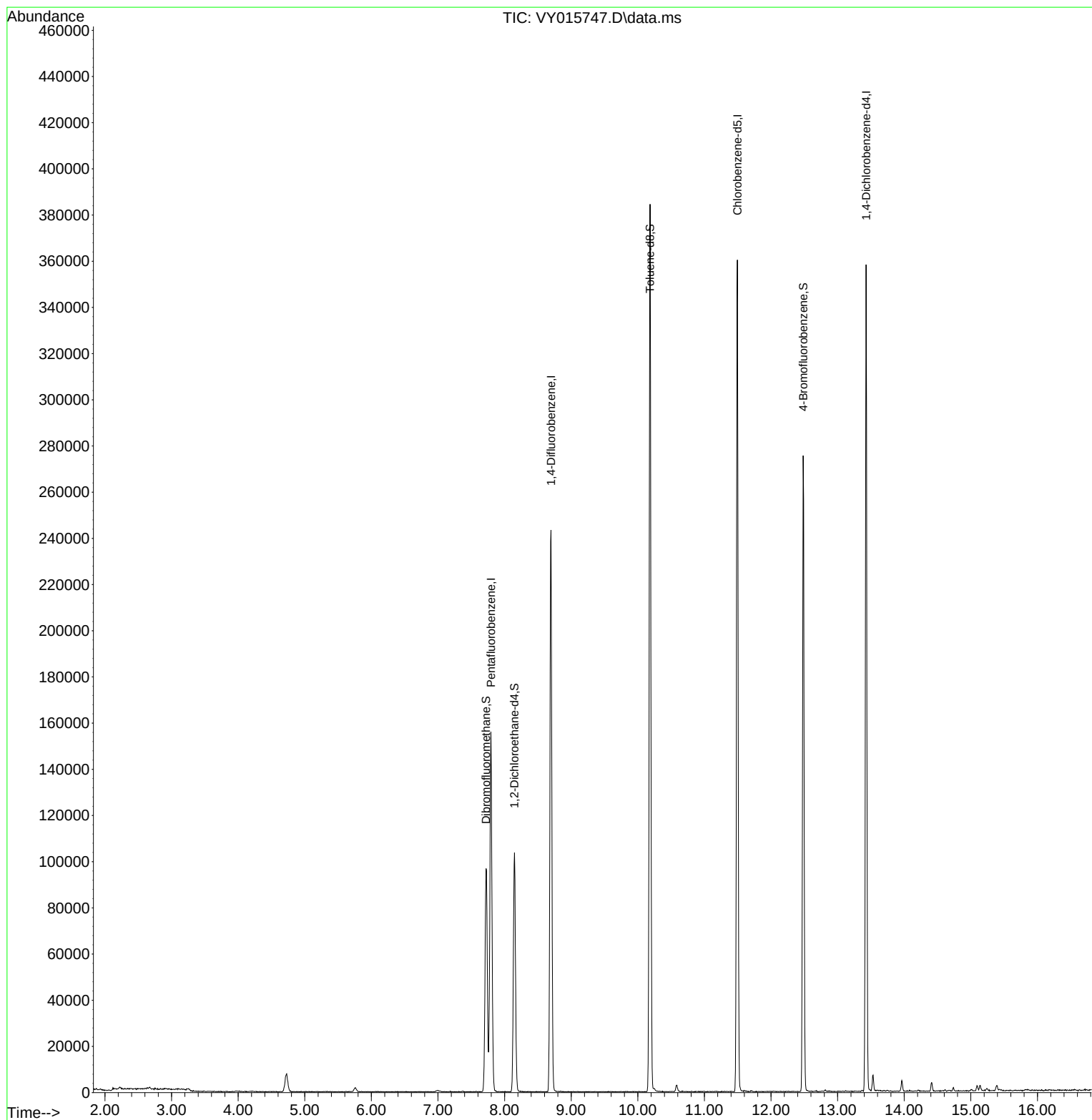
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

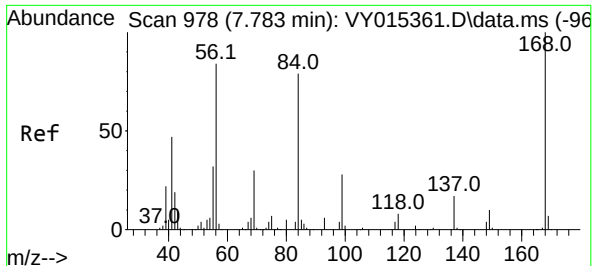
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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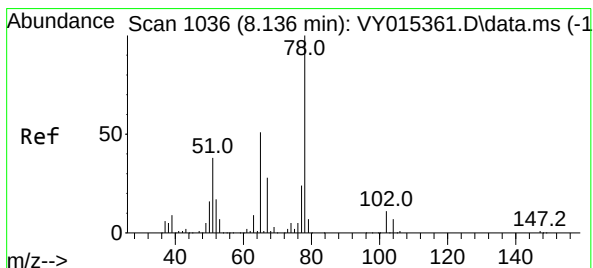
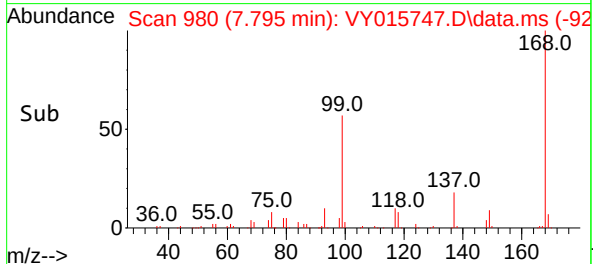
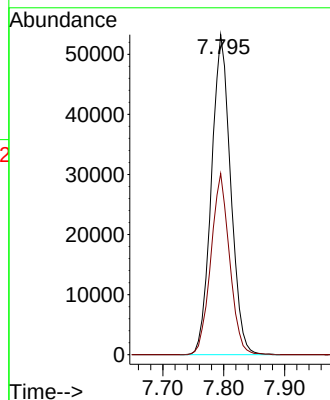
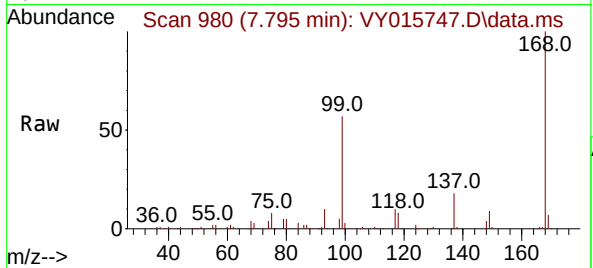




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY015747.D  
Acq: 28 Sep 2023 16:44

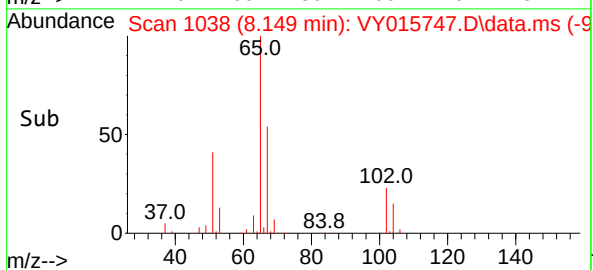
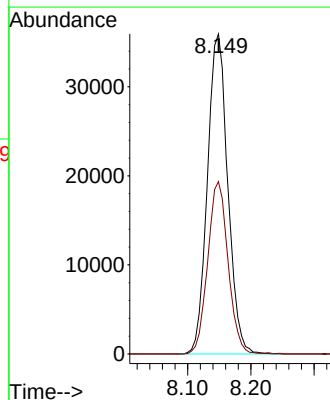
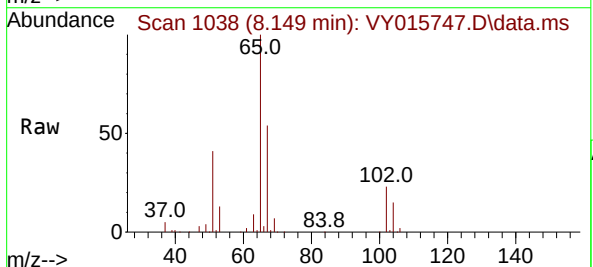
Instrument :  
MSVOA\_Y  
ClientSampleId :  
280-300FB-BACKFILL-04RE

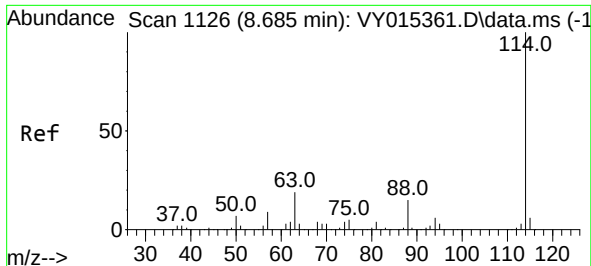
Tgt Ion:168 Resp: 116879  
Ion Ratio Lower Upper  
168 100  
99 56.6 43.4 65.0



#33  
1,2-Dichloroethane-d4  
Concen: 62.583 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. 0.013 min  
Lab File: VY015747.D  
Acq: 28 Sep 2023 16:44

Tgt Ion: 65 Resp: 80481  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VY015747.D

Acq: 28 Sep 2023 16:44

Instrument :

MSVOA\_Y

ClientSampleId :

280-300FB-BACKFILL-04RE

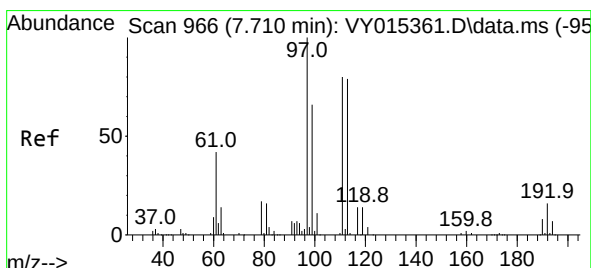
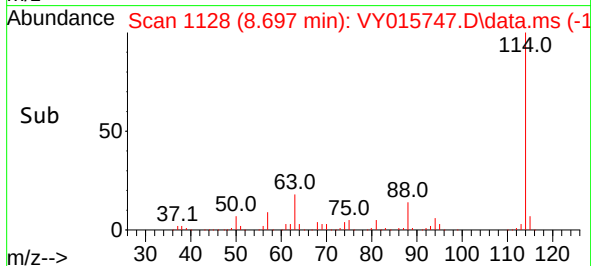
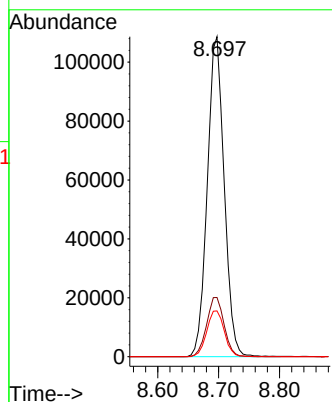
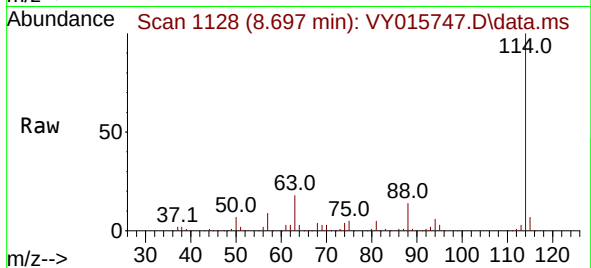
Tgt Ion:114 Resp: 209093

Ion Ratio Lower Upper

114 100

63 18.5 0.0 42.4

88 14.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.861 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY015747.D

Acq: 28 Sep 2023 16:44

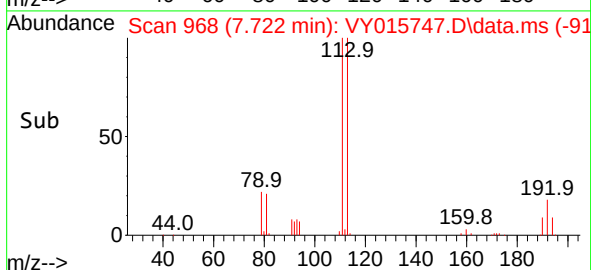
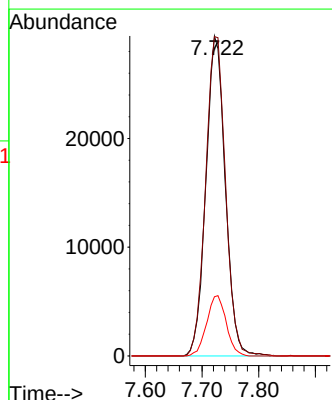
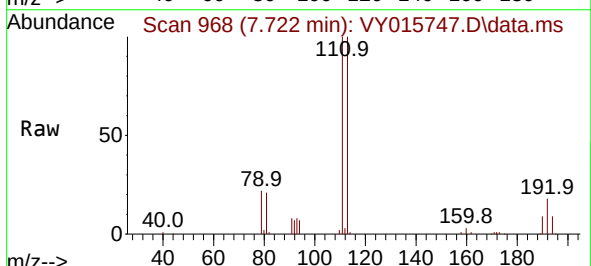
Tgt Ion:113 Resp: 69910

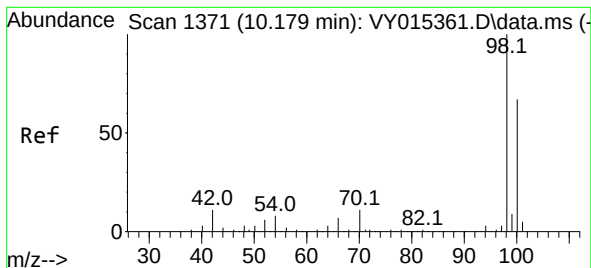
Ion Ratio Lower Upper

113 100

111 102.2 81.3 121.9

192 19.0 16.9 25.3





#50

Toluene-d8

Concen: 58.587 ug/l

RT: 10.185 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015747.D

Acq: 28 Sep 2023 16:44

Instrument :

MSVOA\_Y

ClientSampleId :

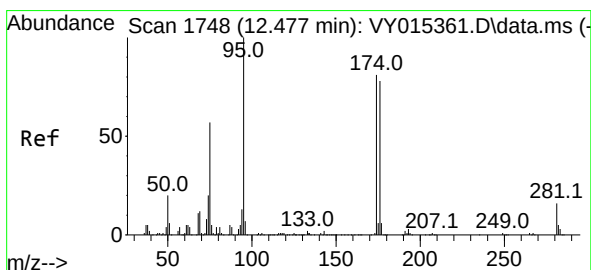
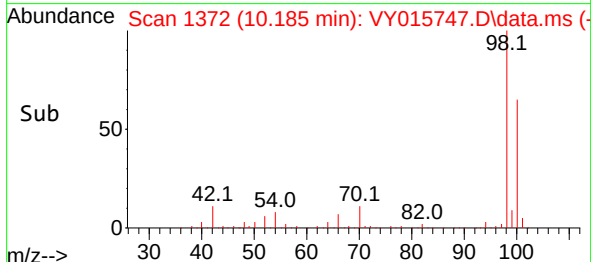
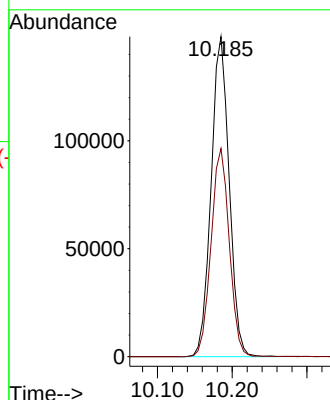
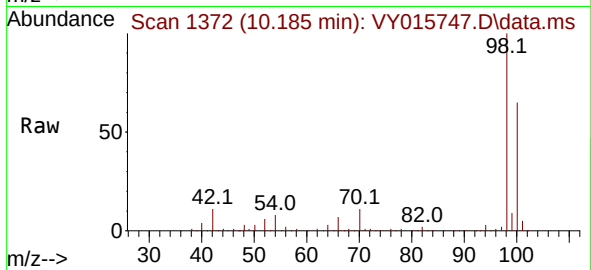
280-300FB-BACKFILL-04RE

Tgt Ion: 98 Resp: 248607

Ion Ratio Lower Upper

98 100

100 65.7 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 48.960 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY015747.D

Acq: 28 Sep 2023 16:44

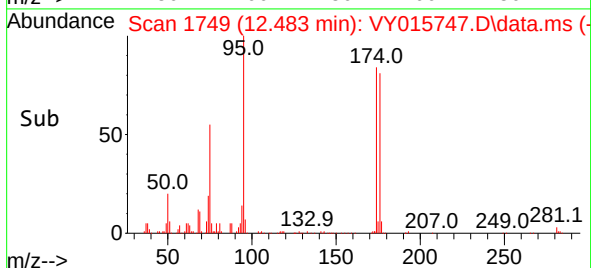
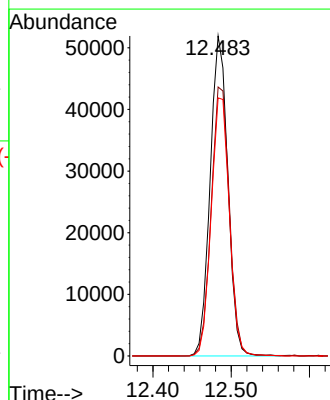
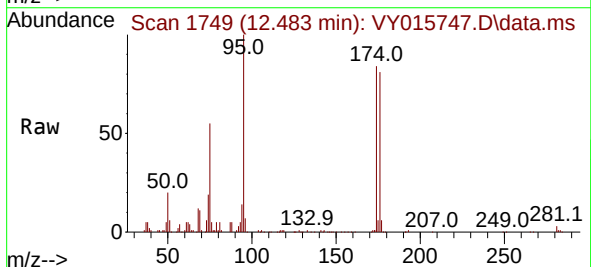
Tgt Ion: 95 Resp: 81530

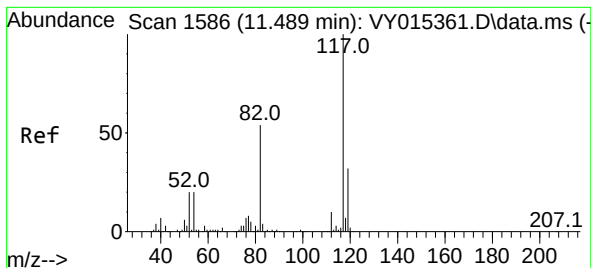
Ion Ratio Lower Upper

95 100

174 86.5 0.0 178.2

176 82.9 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.007 min

Lab File: VY015747.D

Acq: 28 Sep 2023 16:44

Instrument :

MSVOA\_Y

ClientSampleId :

280-300FB-BACKFILL-04RE

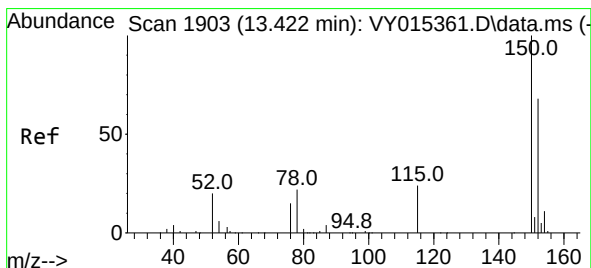
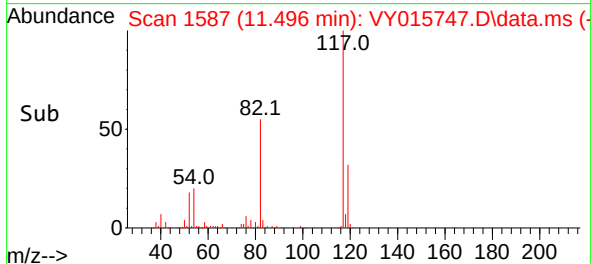
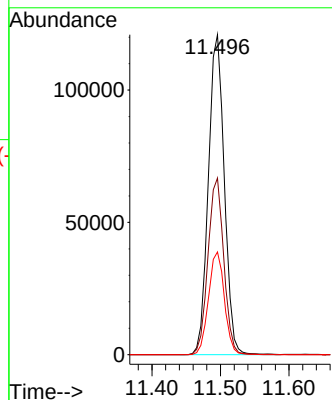
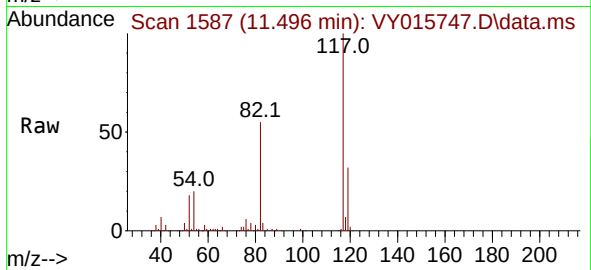
Tgt Ion:117 Resp: 195579

Ion Ratio Lower Upper

117 100

82 55.2 43.4 65.0

119 32.1 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY015747.D

Acq: 28 Sep 2023 16:44

Tgt Ion:152 Resp: 88262

Ion Ratio Lower Upper

152 100

115 58.7 28.8 86.5

150 156.7 0.0 348.8

