

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071423\  
 Data File : VY014644.D  
 Acq On : 14 Jul 2023 13:52  
 Operator : SY/MD  
 Sample : 03601-01  
 Misc : 5.06g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-1-071223

Quant Time: Jul 14 23:09:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

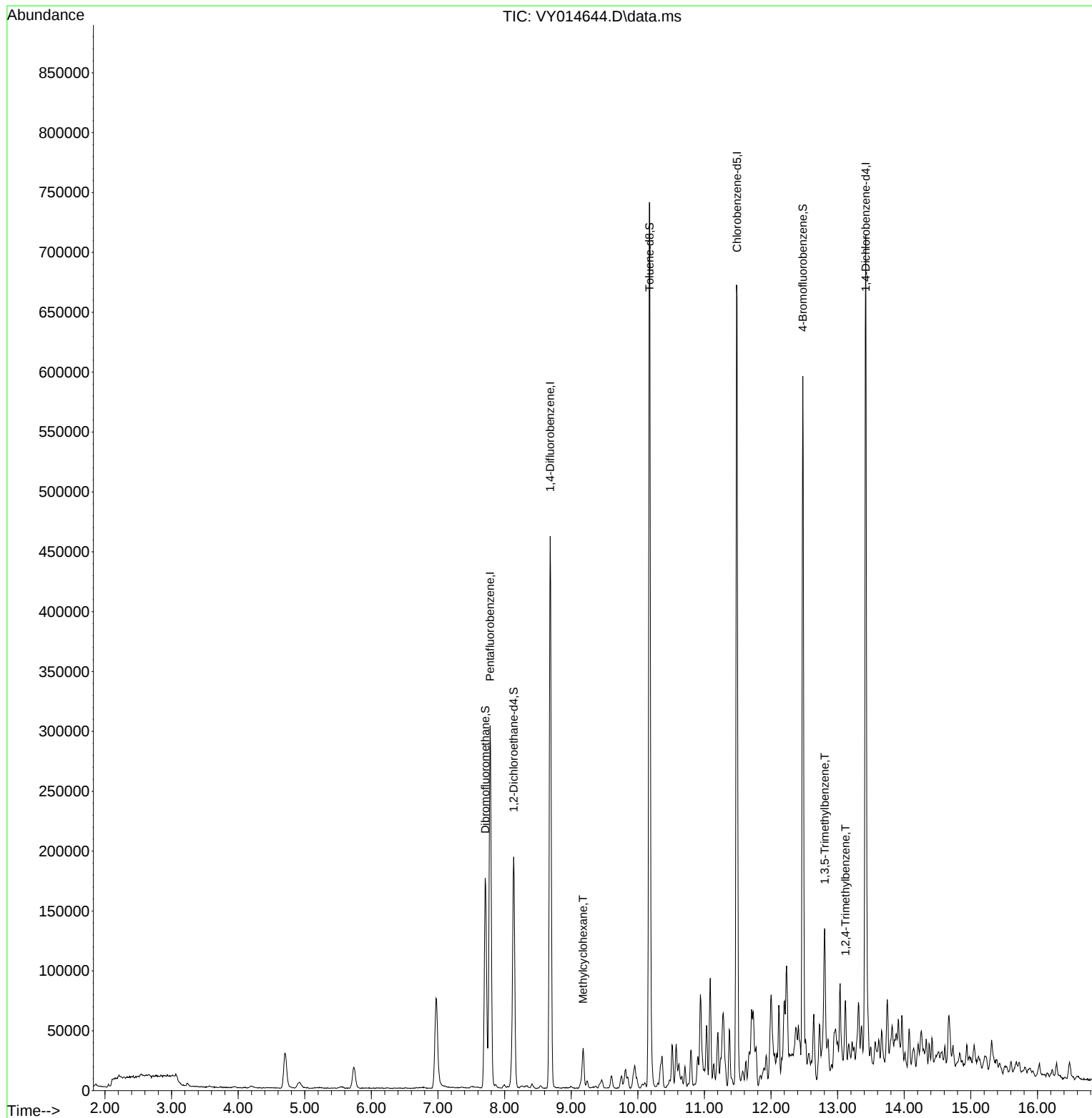
| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.782     | 168   | 231634   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.685     | 114   | 398572   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.489    | 117   | 372487   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.422    | 152   | 176608   | 50.000   | ug/l       | 0.00     |
|                             |           |       |          |          |            |          |
| System Monitoring Compounds |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.136     | 65    | 143240   | 54.267   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 50 - 163 | Recovery | = 108.540% |          |
| 35) Dibromofluoromethane    | 7.709     | 113   | 125167   | 49.332   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 54 - 147 | Recovery | = 98.660%  |          |
| 50) Toluene-d8              | 10.178    | 98    | 472678   | 50.531   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 58 - 134 | Recovery | = 101.060% |          |
| 62) 4-Bromofluorobenzene    | 12.477    | 95    | 178107   | 49.657   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 30 - 143 | Recovery | = 99.320%  |          |
|                             |           |       |          |          |            |          |
| Target Compounds            |           |       |          |          |            | Qvalue   |
| 39) Methylcyclohexane       | 9.179     | 83    | 13428    | 2.716    | ug/l       | 97       |
| 80) 1,3,5-Trimethylbenzene  | 12.806    | 105   | 17999    | 1.559    | ug/l       | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.117    | 105   | 26882    | 2.372    | ug/l       | 98       |
| -----                       |           |       |          |          |            |          |

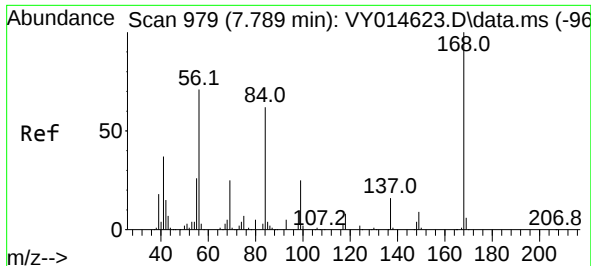
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jul 14 02:09:50 2023  
Response via : Initial Calibration

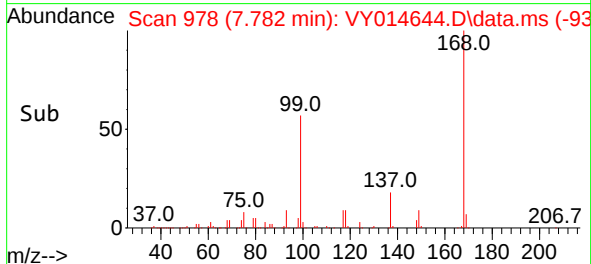
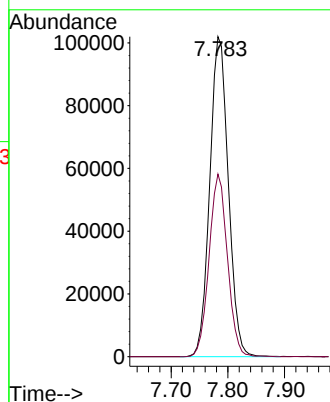
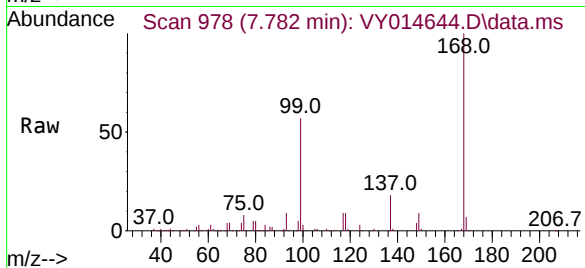




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.782 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY014644.D  
Acq: 14 Jul 2023 13:52

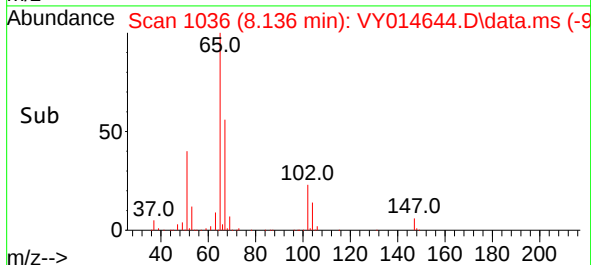
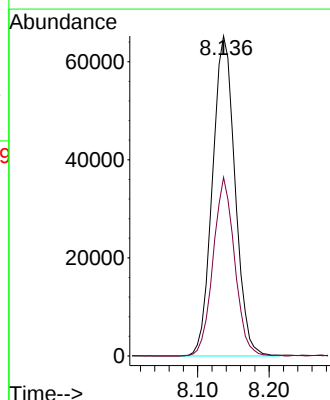
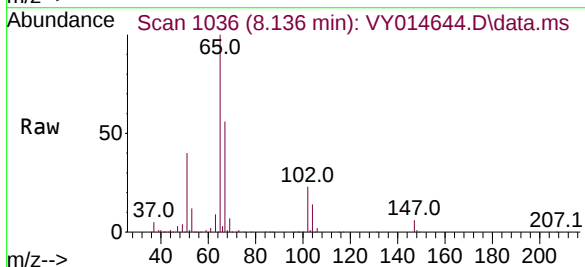
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-1-071223

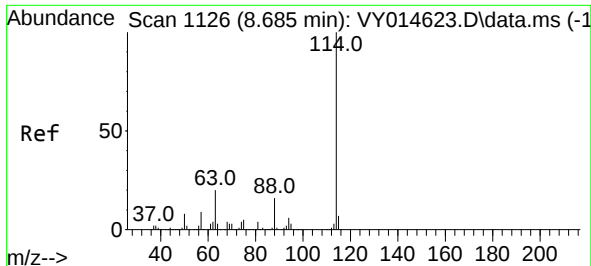
Tgt Ion:168 Resp: 231634  
Ion Ratio Lower Upper  
168 100  
99 57.0 43.4 65.0



#33  
1,2-Dichloroethane-d4  
Concen: 54.267 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY014644.D  
Acq: 14 Jul 2023 13:52

Tgt Ion: 65 Resp: 143240  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 101.8

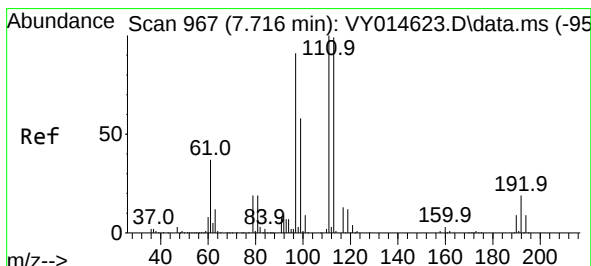
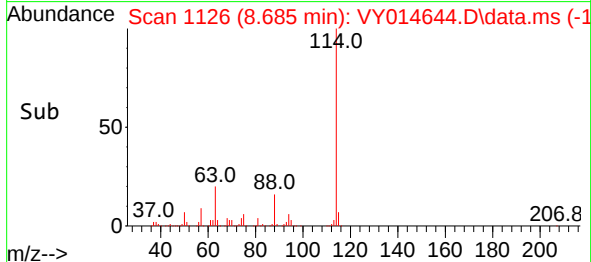
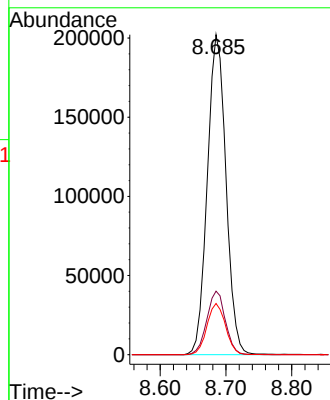
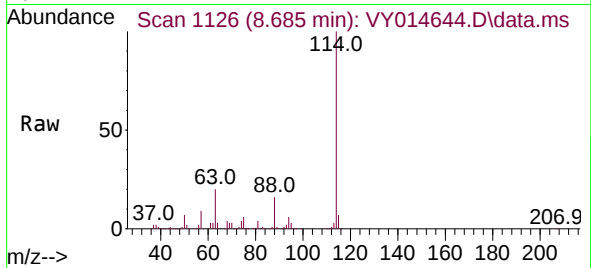




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VY014644.D  
Acq: 14 Jul 2023 13:52

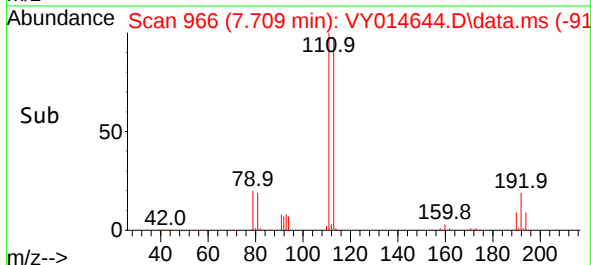
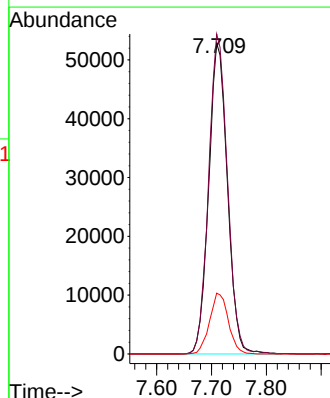
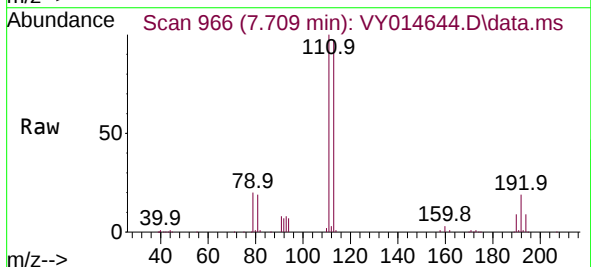
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-1-071223

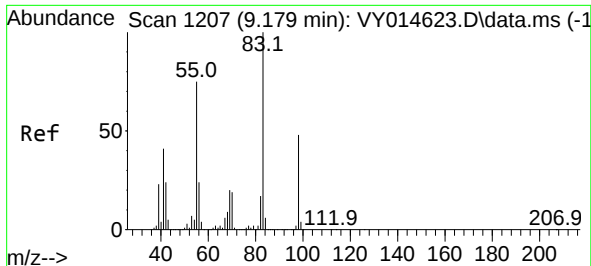
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 398572 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 19.9  | 0.0   | 42.4   |
| 88       | 16.0  | 0.0   | 30.6   |



#35  
Dibromofluoromethane  
Concen: 49.332 ug/l  
RT: 7.709 min Scan# 966  
Delta R.T. -0.007 min  
Lab File: VY014644.D  
Acq: 14 Jul 2023 13:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 125167 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 103.5 | 81.3  | 121.9  |
| 192      | 19.6  | 16.9  | 25.3   |





#39

Methylcyclohexane

Concen: 2.716 ug/l

RT: 9.179 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA\_Y

ClientSampleId :

HR-1-071223

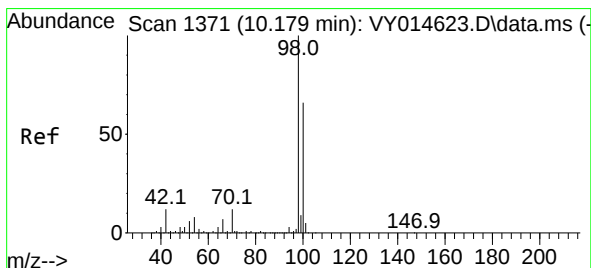
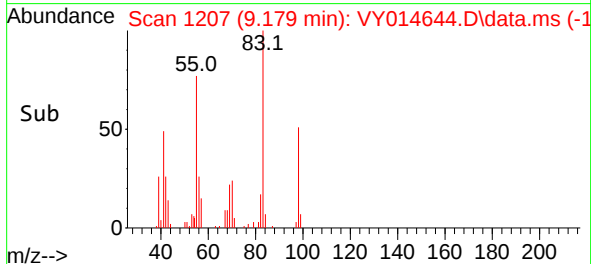
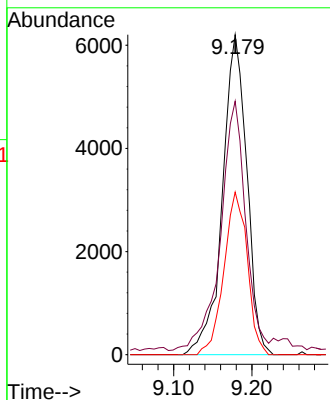
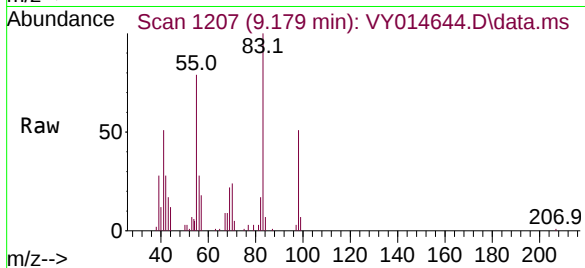
Tgt Ion: 83 Resp: 13428

Ion Ratio Lower Upper

83 100

55 77.0 63.0 94.4

98 50.8 37.4 56.2



#50

Toluene-d8

Concen: 50.531 ug/l

RT: 10.178 min Scan# 1371

Delta R.T. -0.001 min

Lab File: VY014644.D

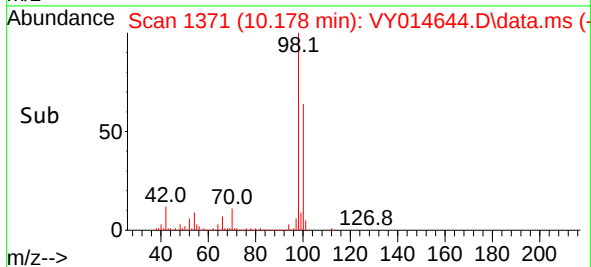
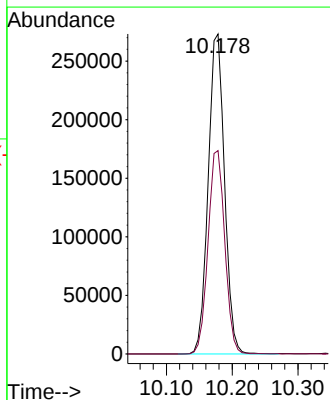
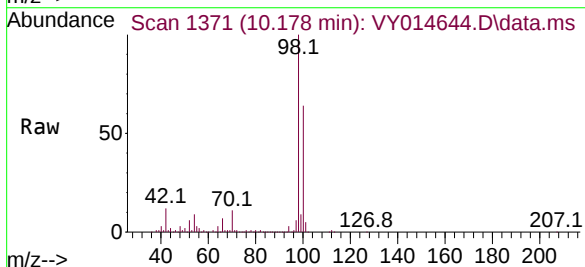
Acq: 14 Jul 2023 13:52

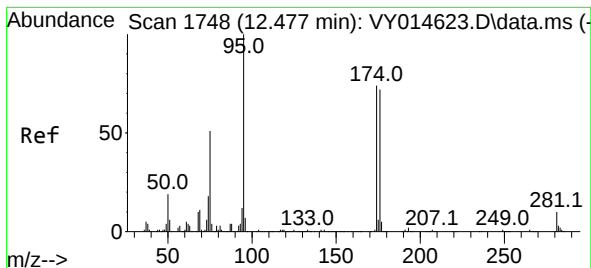
Tgt Ion: 98 Resp: 472678

Ion Ratio Lower Upper

98 100

100 65.0 50.1 75.1

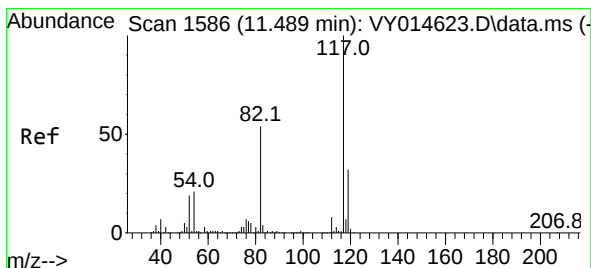
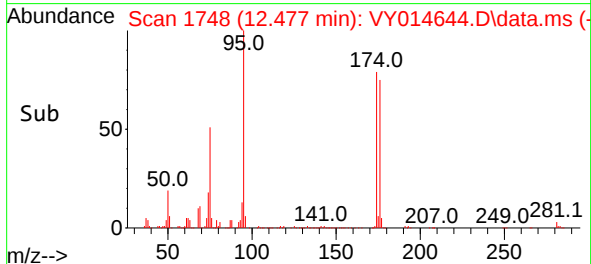
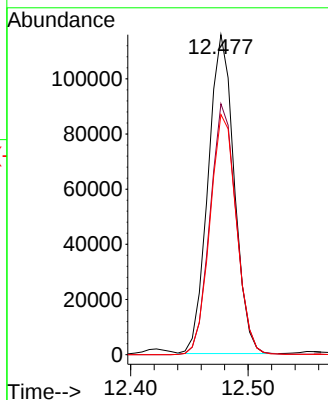
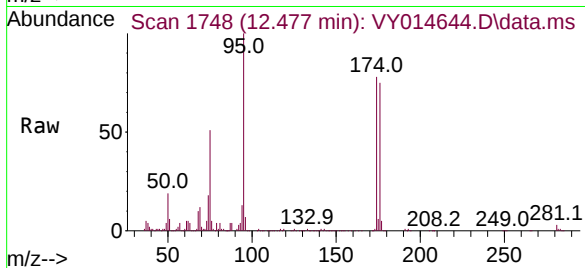




#62  
4-Bromofluorobenzene  
Concen: 49.657 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY014644.D  
Acq: 14 Jul 2023 13:52

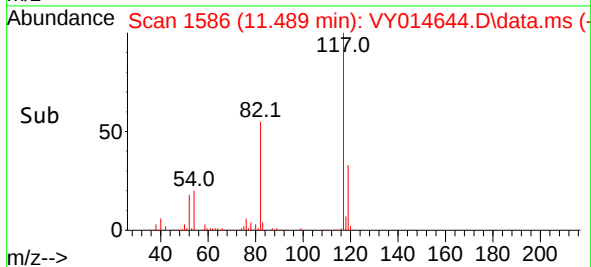
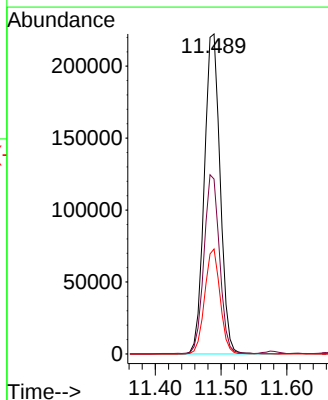
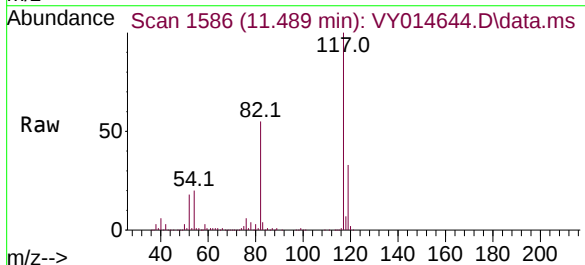
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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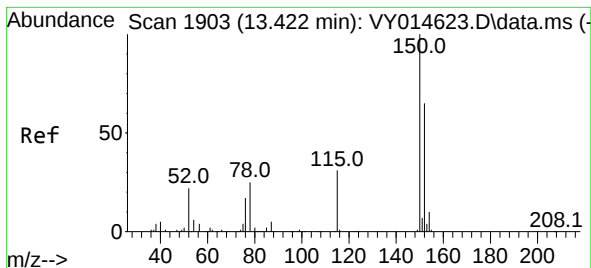
Tgt Ion: 95 Resp: 178107  
Ion Ratio Lower Upper  
95 100  
174 78.9 0.0 178.2  
176 77.0 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY014644.D  
Acq: 14 Jul 2023 13:52

Tgt Ion: 117 Resp: 372487  
Ion Ratio Lower Upper  
117 100  
82 54.5 43.4 65.0  
119 32.8 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.000 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA\_Y

ClientSampleId :

HR-1-071223

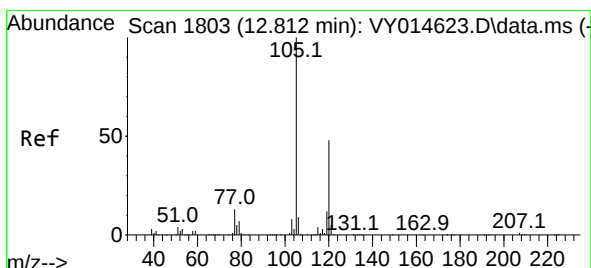
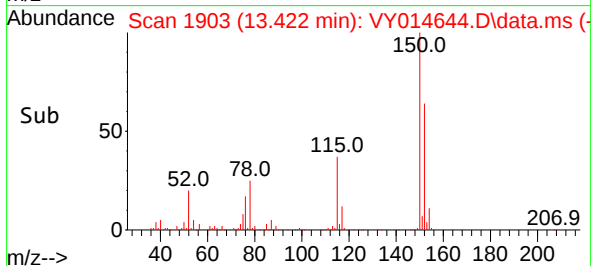
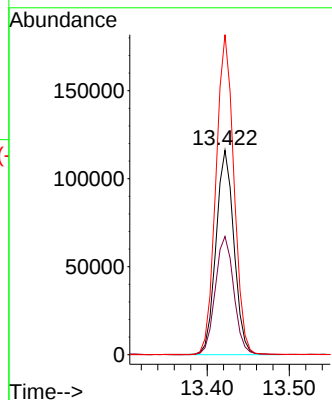
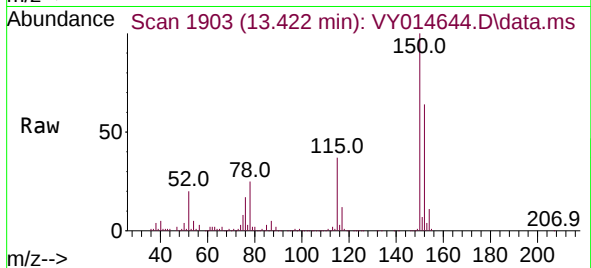
Tgt Ion:152 Resp: 176608

Ion Ratio Lower Upper

152 100

115 59.6 28.8 86.5

150 156.6 0.0 348.8



#80

1,3,5-Trimethylbenzene

Concen: 1.559 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY014644.D

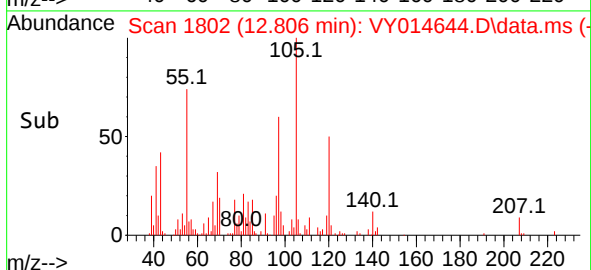
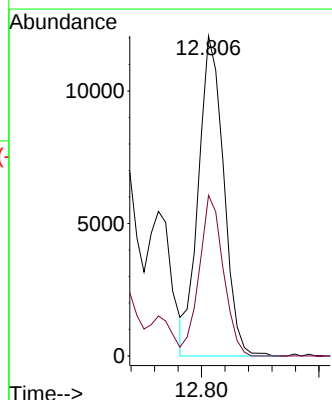
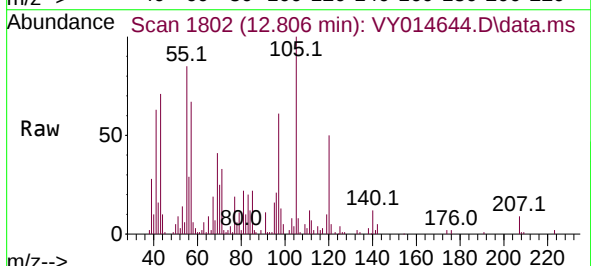
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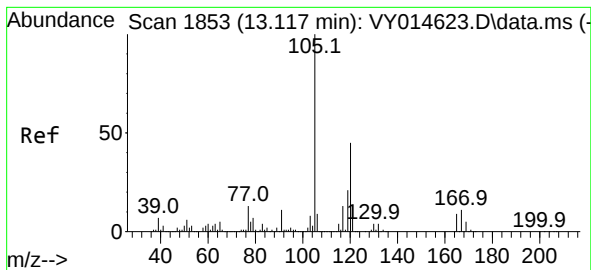
Tgt Ion:105 Resp: 17999

Ion Ratio Lower Upper

105 100

120 48.0 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 2.372 ug/l

RT: 13.117 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA\_Y

ClientSampleId :

HR-1-071223

Tgt Ion:105 Resp: 26882

Ion Ratio Lower Upper

105 100

120 43.3 22.2 66.6

