

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062723\  
 Data File : VY014453.D  
 Acq On : 27 Jun 2023 13:15  
 Operator : KP/MD  
 Sample : 03402-01RE  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP1-0623RE

Quant Time: Jun 27 16:42:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 17:18:46 2023  
 Response via : Initial Calibration

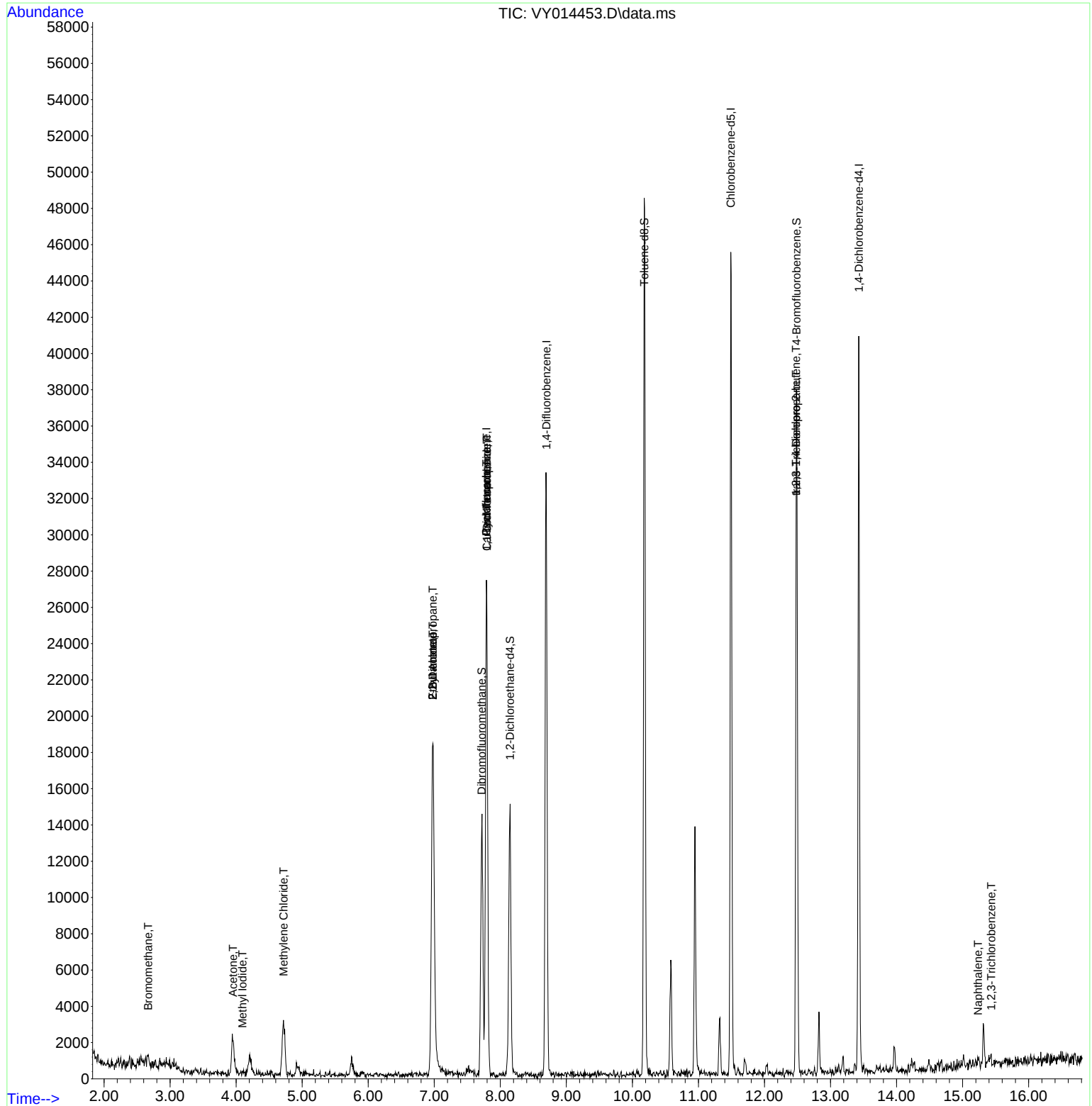
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 21872    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 29388    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 26581    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 10739    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 12879    | 47.426    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 94.860%  |
| 35) Dibromofluoromethane      | 7.716  | 113   | 9342     | 51.453    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 102.900% |
| 50) Toluene-d8                | 10.179 | 98    | 34344    | 47.585    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 95.160%  |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 9447     | 36.664    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 73.320%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.668  | 94    | 278      | 1.461     | ug/l # | 35       |
| 10) Methyl Iodide             | 4.095  | 142   | 327      | 4.029     | ug/l # | 60       |
| 11) Tert butyl alcohol        | 4.936  | 59    | 632      | Below Cal | #      | 89       |
| 16) Acetone                   | 3.954  | 43    | 3872     | 45.313    | ug/l   | 92       |
| 20) Methylene Chloride        | 4.716  | 84    | 2385     | 4.621     | ug/l   | 89       |
| 25) 2-Butanone                | 6.978  | 43    | 1200     | 11.275    | ug/l # | 49       |
| 26) 2,2-Dichloropropane       | 6.978  | 77    | 1532     | 3.815     | ug/l # | 54       |
| 31) Cyclohexane               | 7.789  | 56    | 475      | 1.416     | ug/l # | 11       |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 1676     | 5.990     | ug/l # | 44       |
| 37) Ethyl Acetate             | 6.978  | 43    | 1200     | 6.223     | ug/l # | 24       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 2111     | 5.996     | ug/l # | 19       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 5096     | 37.829    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 5096     | 86.124    | ug/l # | 10       |
| 95) Naphthalene               | 15.233 | 128   | 752      | 1.626     | ug/l # | 72       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180   | 282      | 1.440     | ug/l # | 80       |
| -----                         |        |       |          |           |        |          |

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

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Sample : 03402-01RE  
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MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

Quant Time: Jun 27 16:42:53 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062323S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 17:18:46 2023  
Response via : Initial Calibration

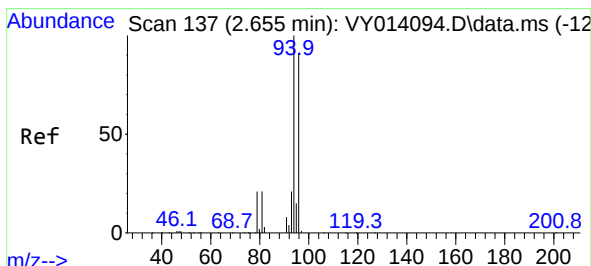
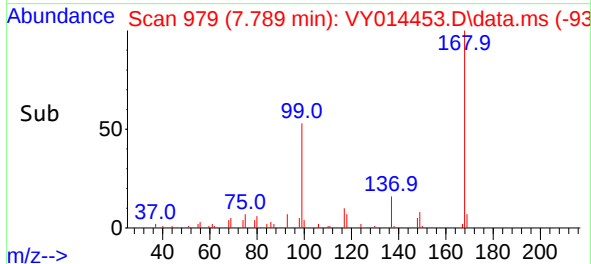
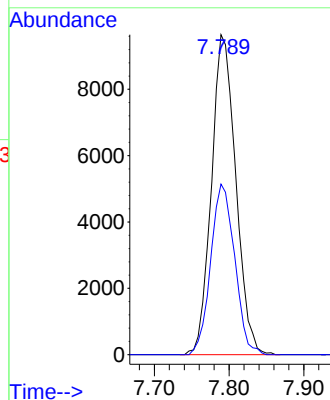
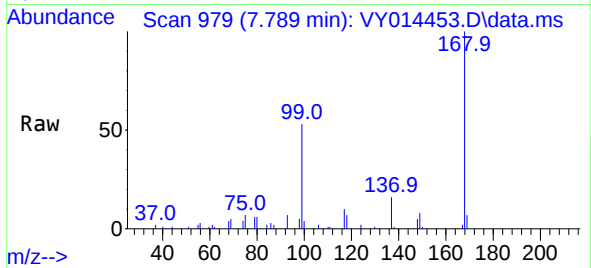




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

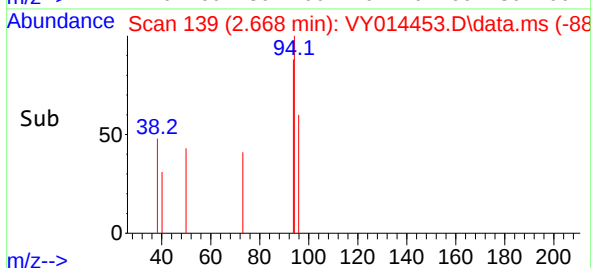
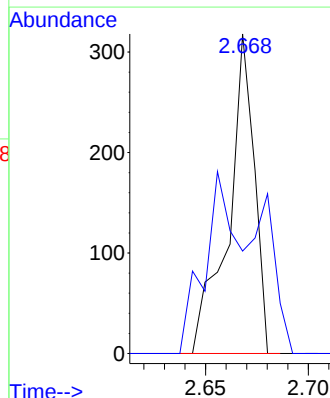
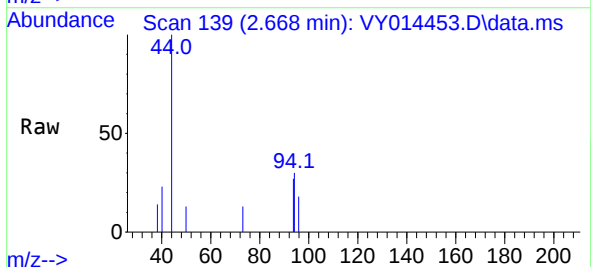
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

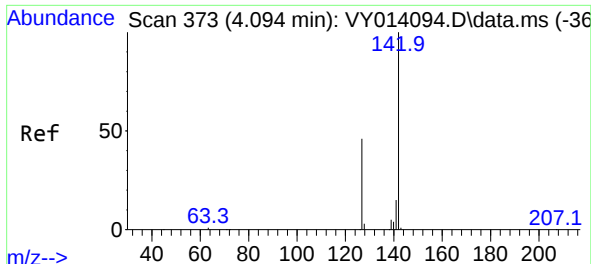
Tgt Ion:168 Resp: 21872  
Ion Ratio Lower Upper  
168 100  
99 53.3 43.4 65.0



#5  
Bromomethane  
Concen: 1.461 ug/l  
RT: 2.668 min Scan# 139  
Delta R.T. 0.013 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

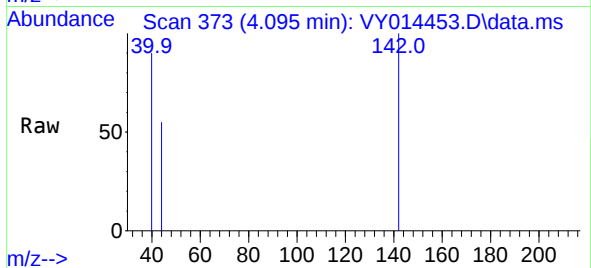
Tgt Ion: 94 Resp: 278  
Ion Ratio Lower Upper  
94 100  
96 32.1 75.8 113.6#



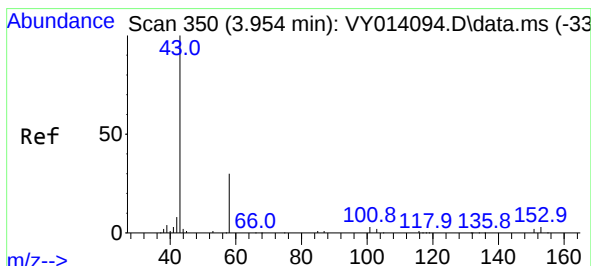
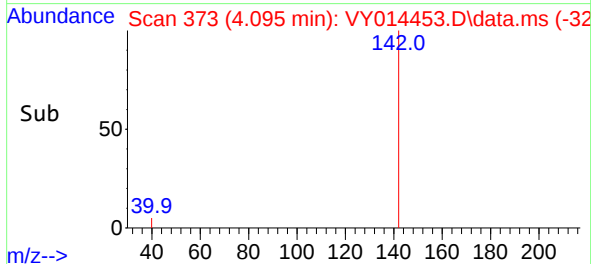
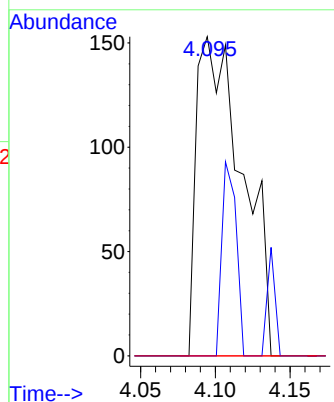


#10  
Methyl Iodide  
Concen: 4.029 ug/l  
RT: 4.095 min Scan# 31  
Delta R.T. 0.001 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

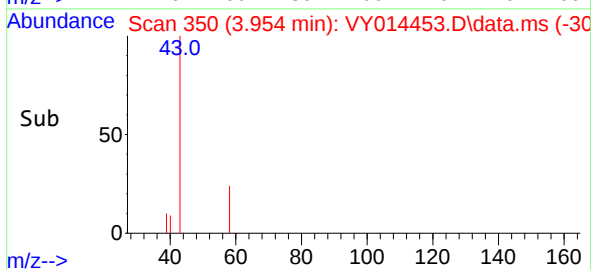
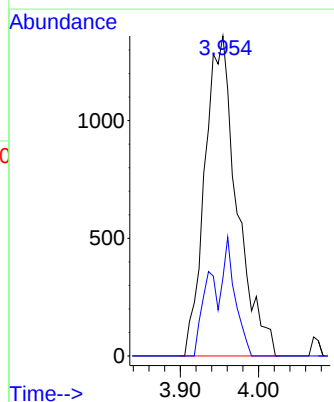
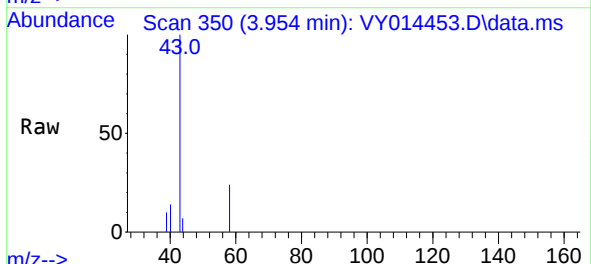


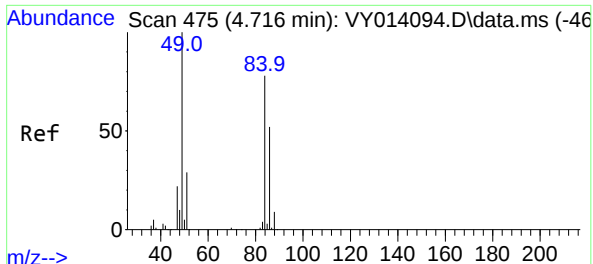
Tgt Ion:142 Resp: 327  
Ion Ratio Lower Upper  
142 100  
127 19.0 37.6 56.4#  
141 0.0 11.8 17.8#



#16  
Acetone  
Concen: 45.313 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

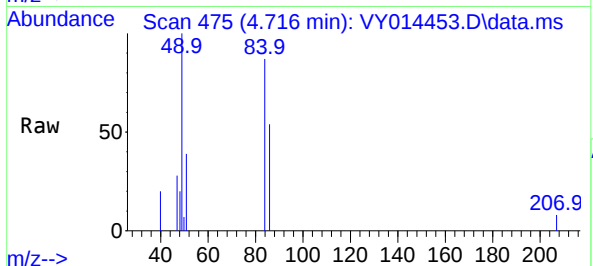
Tgt Ion: 43 Resp: 3872  
Ion Ratio Lower Upper  
43 100  
58 24.3 22.7 34.1





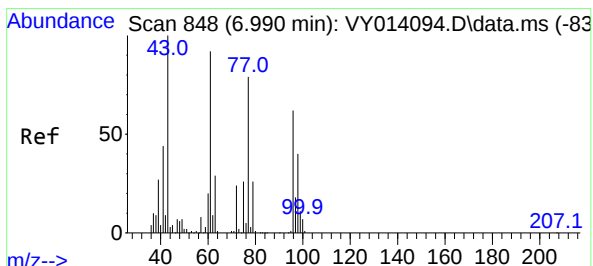
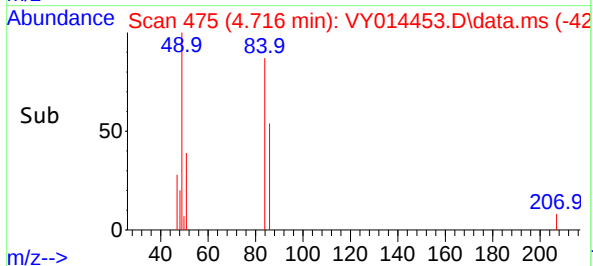
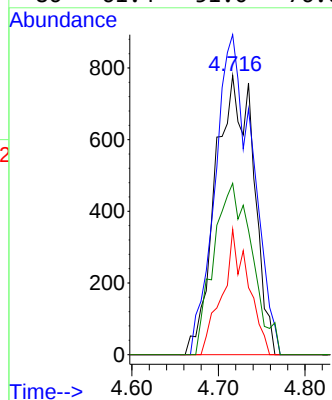
#20  
Methylene Chloride  
Concen: 4.621 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE



Tgt Ion: 84 Resp: 2385

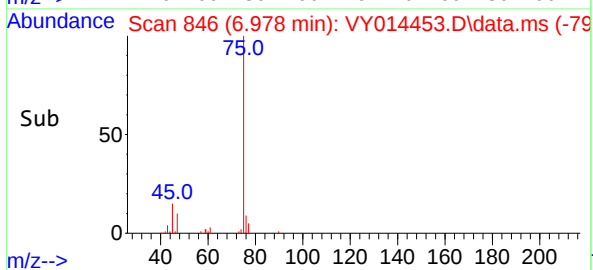
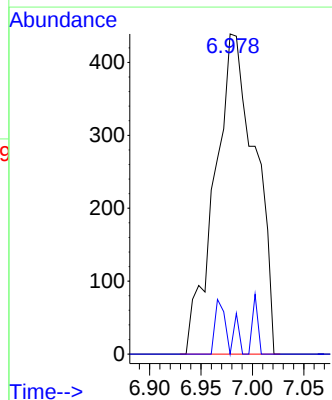
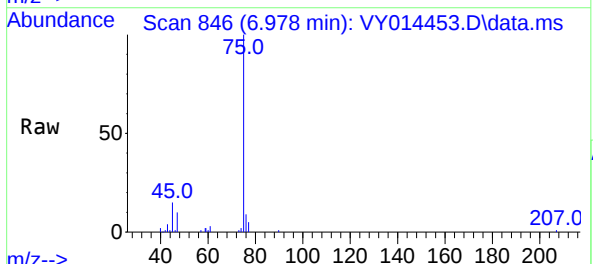
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 114.6 | 106.9 | 160.3 |
| 51  | 44.9  | 33.2  | 49.8  |
| 86  | 61.4  | 51.0  | 76.6  |

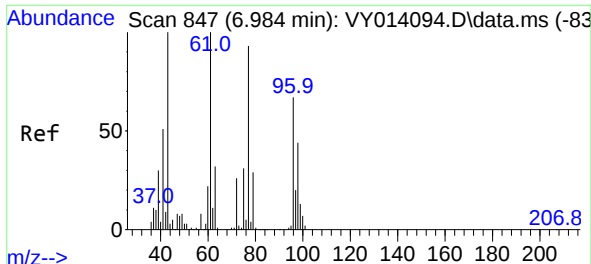


#25  
2-Butanone  
Concen: 11.275 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.012 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Tgt Ion: 43 Resp: 1200

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 20.5  | 30.7# |

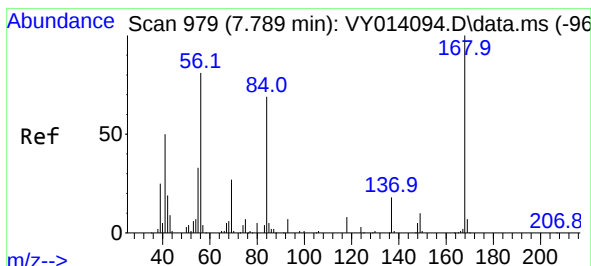
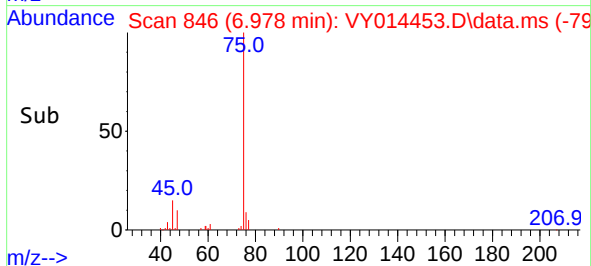
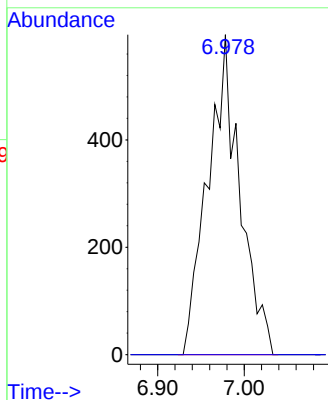
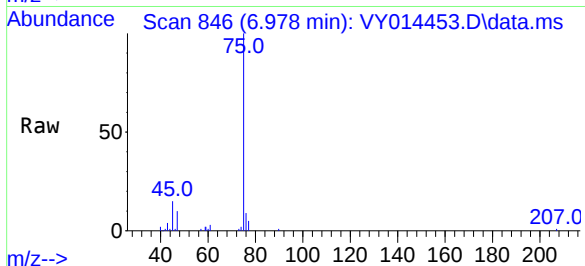




#26  
2,2-Dichloropropane  
Concen: 3.815 ug/l  
RT: 6.978 min Scan# 84  
Delta R.T. -0.006 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

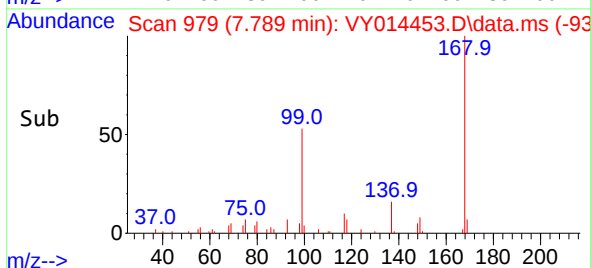
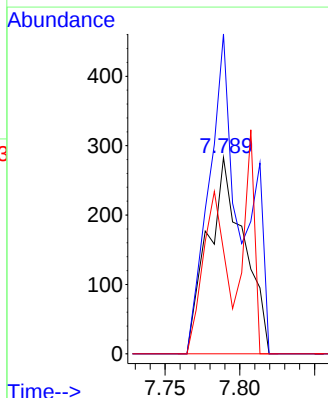
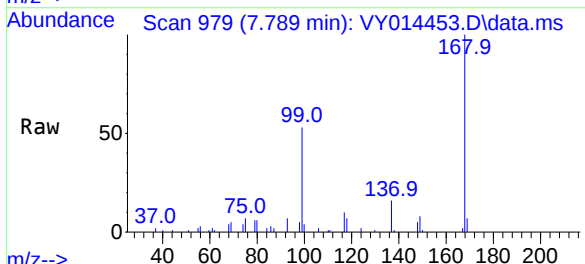
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MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

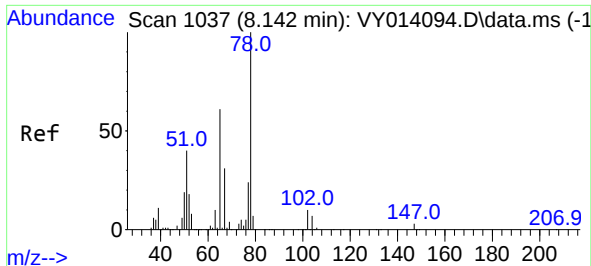
Tgt Ion: 77 Resp: 1532  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.9#



#31  
Cyclohexane  
Concen: 1.416 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. 0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Tgt Ion: 56 Resp: 475  
Ion Ratio Lower Upper  
56 100  
69 162.9 27.8 41.6#  
84 52.7 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 47.426 ug/l

RT: 8.149 min Scan# 1037

Delta R.T. 0.007 min

Lab File: VY014453.D

Acq: 27 Jun 2023 13:15

Instrument :

MSVOA\_Y

ClientSampleId :

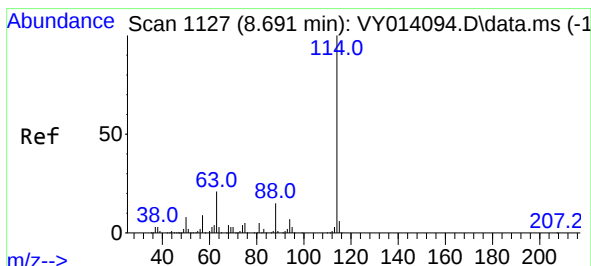
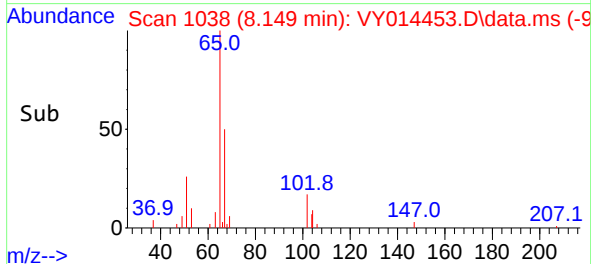
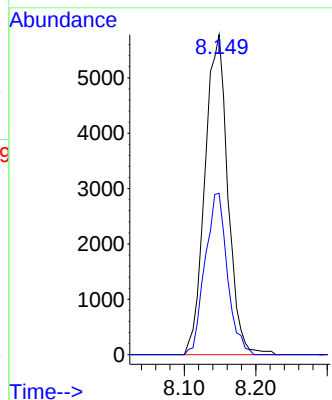
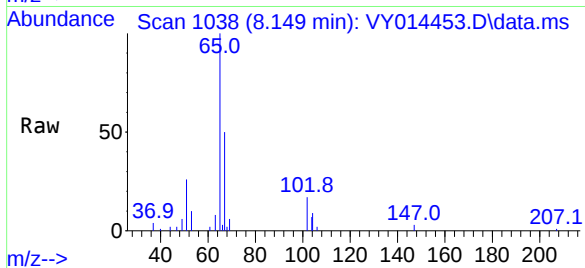
TP1-0623RE

Tgt Ion: 65 Resp: 12879

Ion Ratio Lower Upper

65 100

67 49.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY014453.D

Acq: 27 Jun 2023 13:15

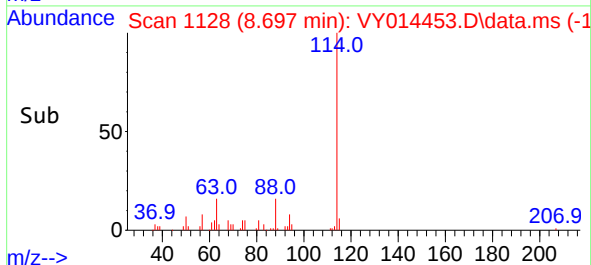
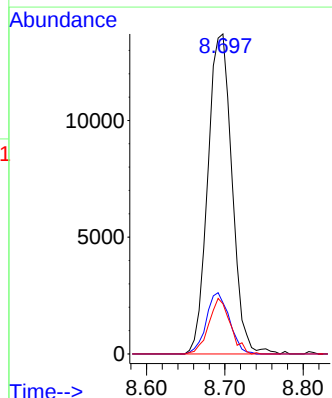
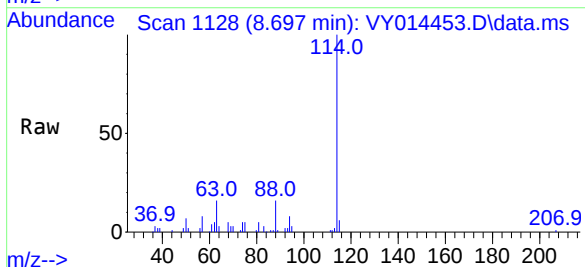
Tgt Ion: 114 Resp: 29388

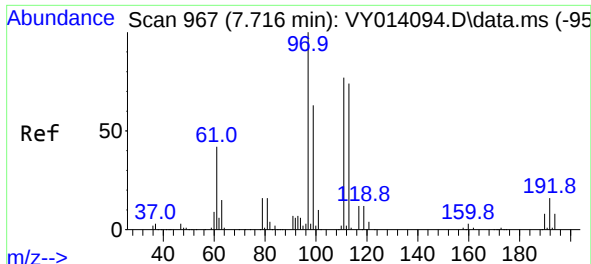
Ion Ratio Lower Upper

114 100

63 16.0 0.0 42.4

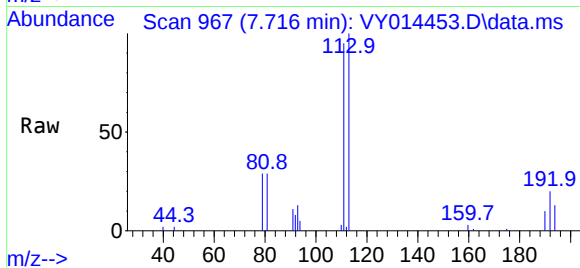
88 15.7 0.0 30.6



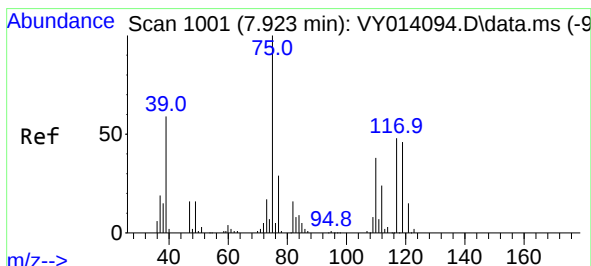
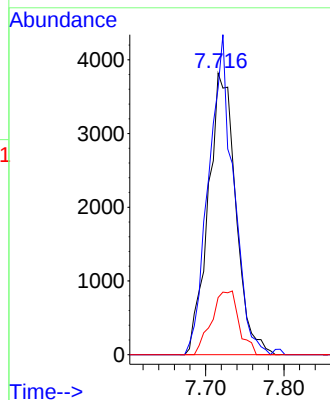
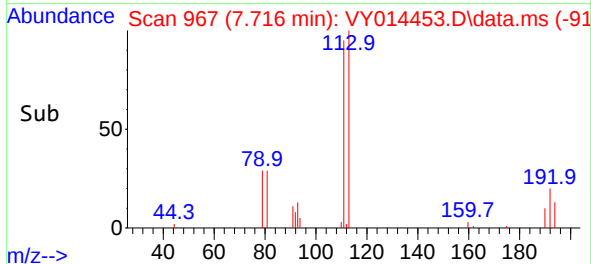


#35  
Dibromofluoromethane  
Concen: 51.453 ug/l  
RT: 7.716 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

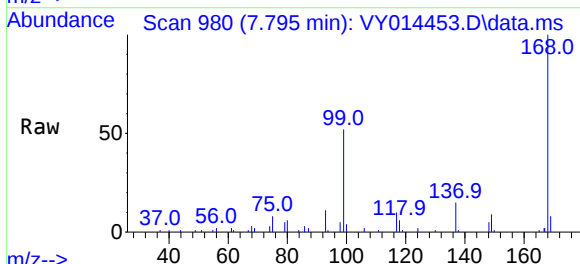
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE



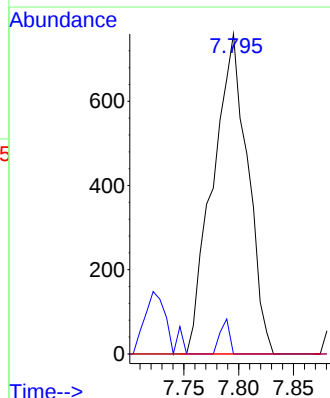
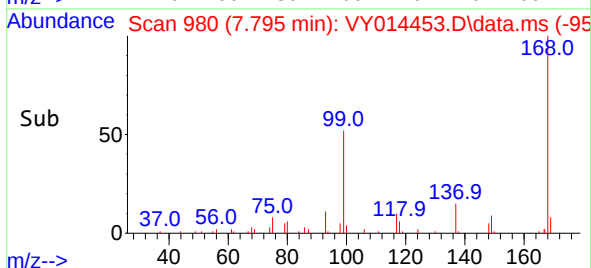
Tgt Ion:113 Resp: 9342  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.3 121.9  
192 22.4 16.9 25.3

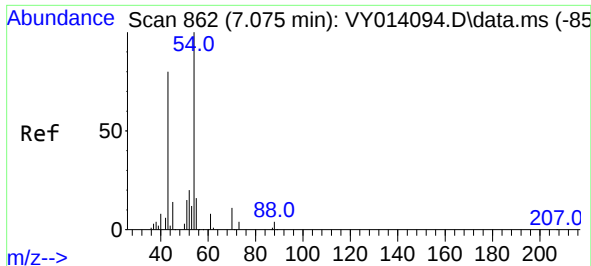


#36  
1,1-Dichloropropene  
Concen: 5.990 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.128 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15



Tgt Ion: 75 Resp: 1676  
Ion Ratio Lower Upper  
75 100  
110 2.9 17.8 53.5#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 6.223 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.097 min

Lab File: VY014453.D

Acq: 27 Jun 2023 13:15

Instrument :

MSVOA\_Y

ClientSampleId :

TP1-0623RE

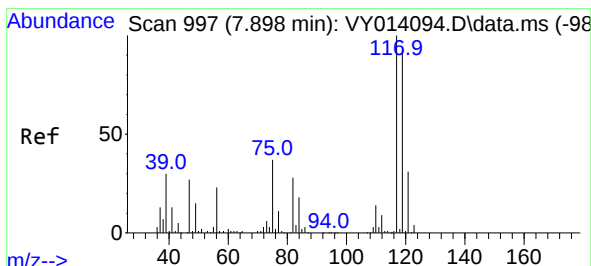
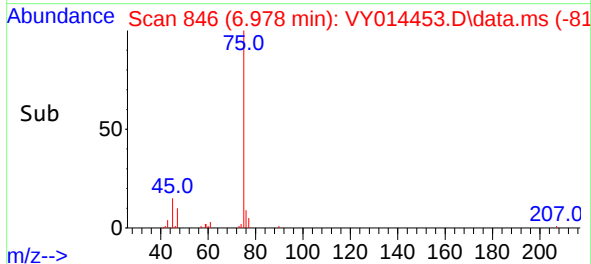
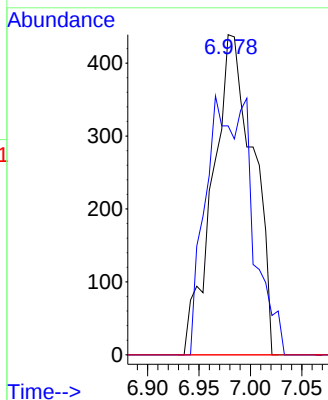
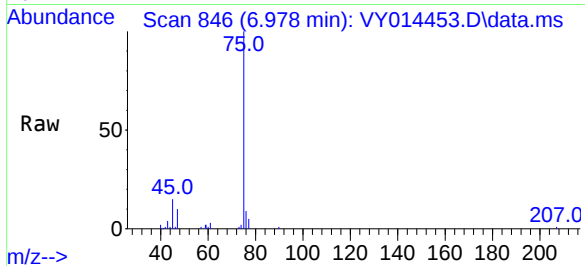
Tgt Ion: 43 Resp: 1200

Ion Ratio Lower Upper

43 100

61 56.8 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.996 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.103 min

Lab File: VY014453.D

Acq: 27 Jun 2023 13:15

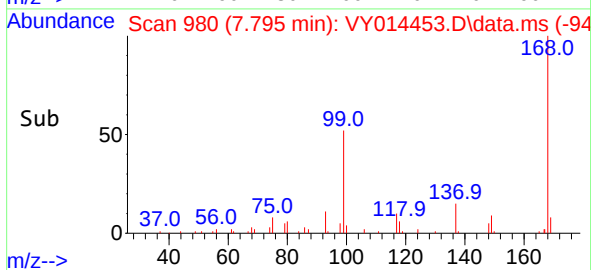
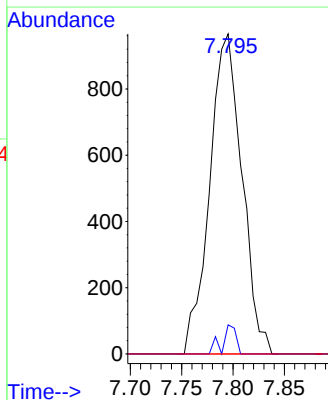
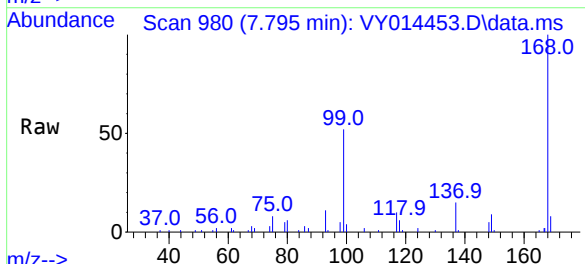
Tgt Ion: 117 Resp: 2111

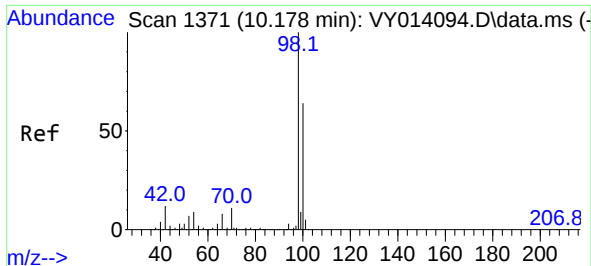
Ion Ratio Lower Upper

117 100

119 9.1 76.4 114.6#

121 0.0 25.8 38.6#

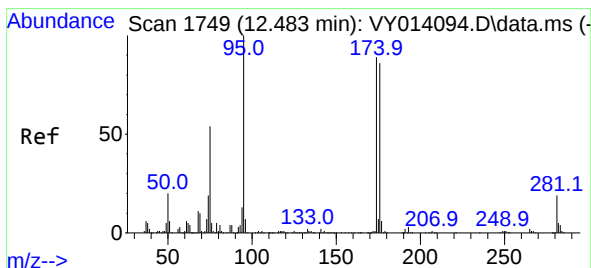
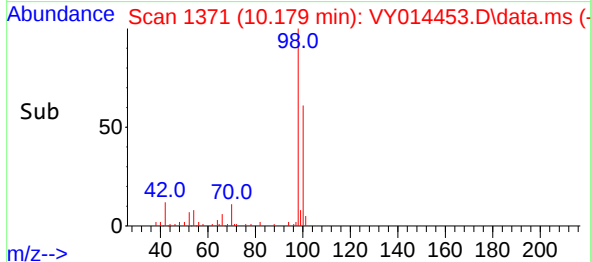
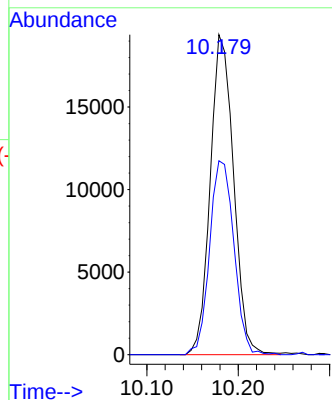
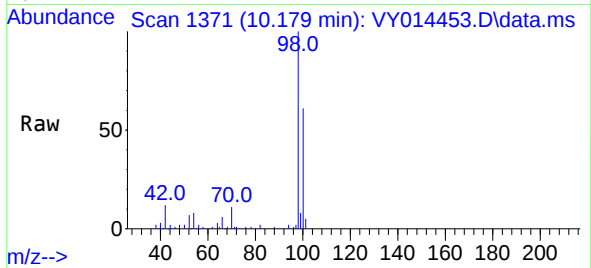




#50  
Toluene-d8  
Concen: 47.585 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

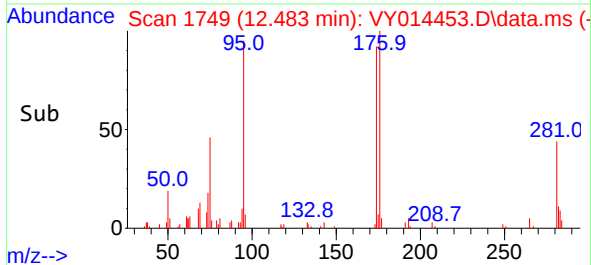
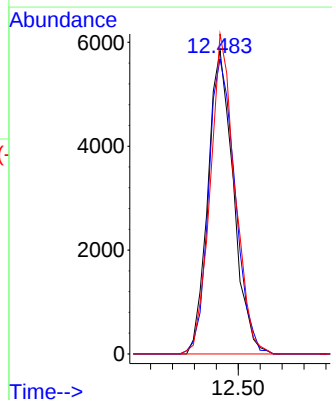
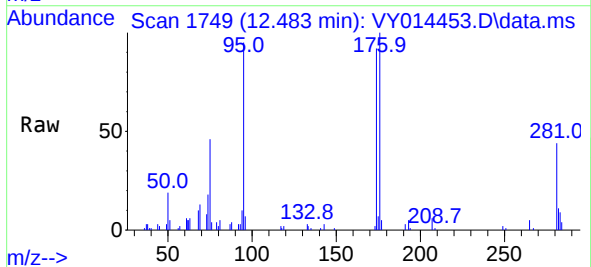
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

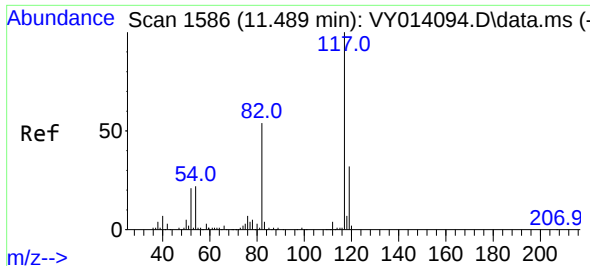
Tgt Ion: 98 Resp: 34344  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 36.664 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Tgt Ion: 95 Resp: 9447  
Ion Ratio Lower Upper  
95 100  
174 101.0 0.0 178.2  
176 101.9 0.0 173.8

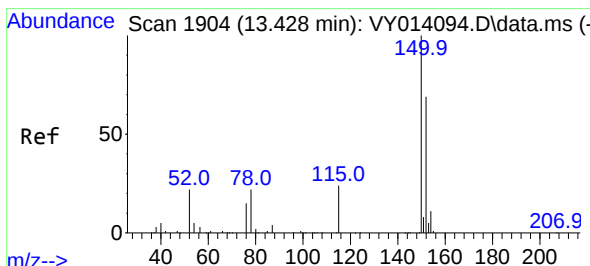
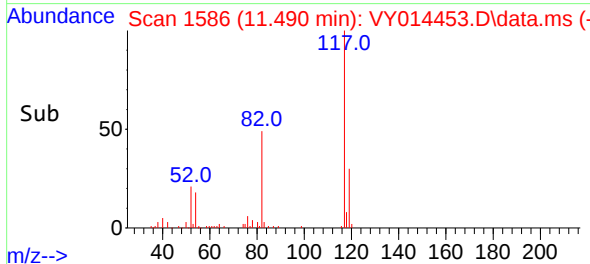
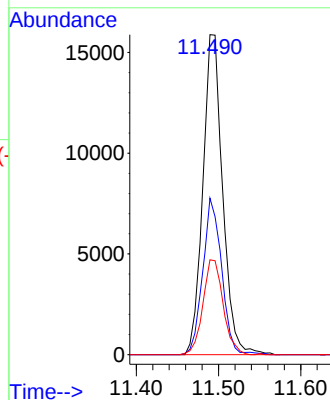
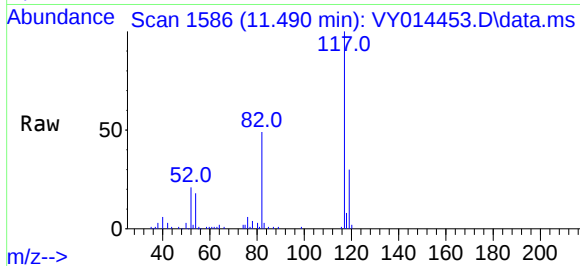




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

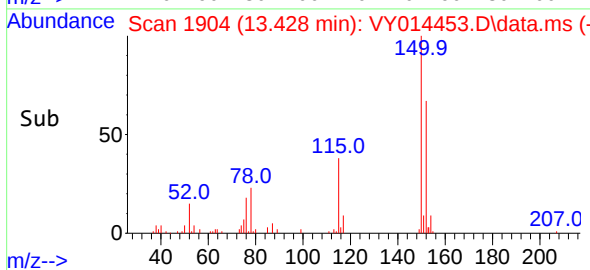
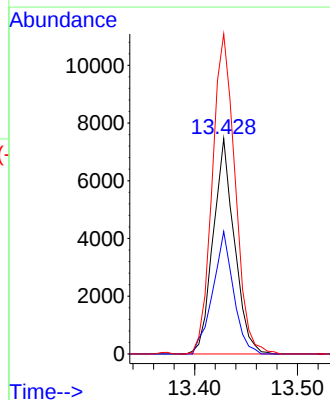
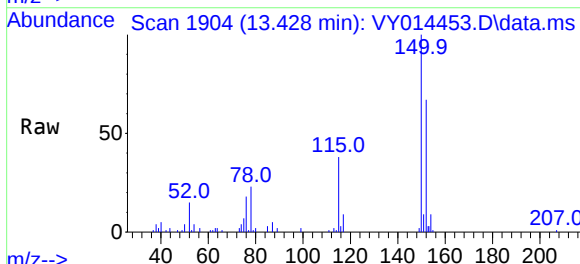
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

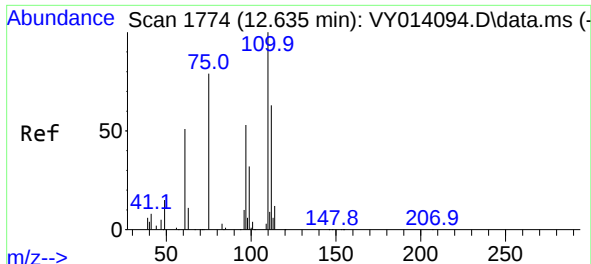
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 26581 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 48.9  | 43.4  | 65.0  |
| 119      | 29.6  | 26.3  | 39.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 10739 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 55.4  | 28.8  | 86.5  |
| 150      | 159.1 | 0.0   | 348.8 |

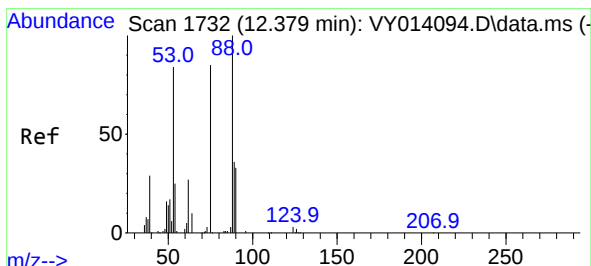
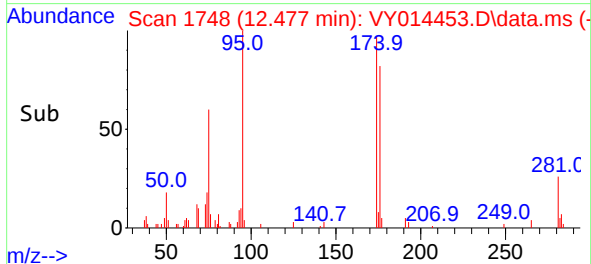
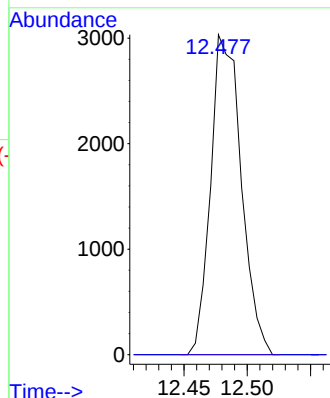
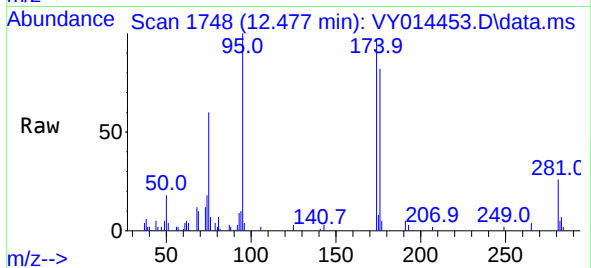




#76  
1,2,3-Trichloropropane  
Concen: 37.829 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.158 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

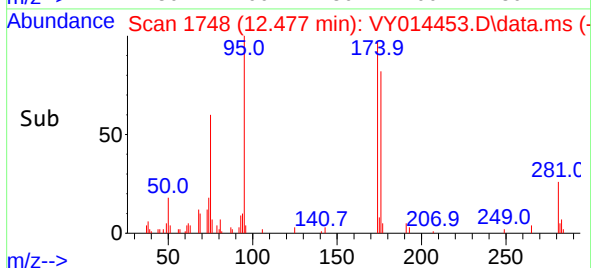
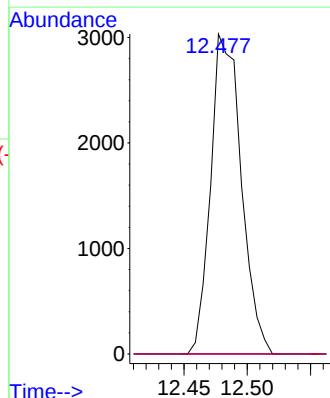
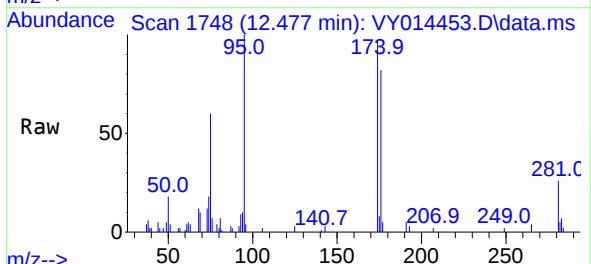
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

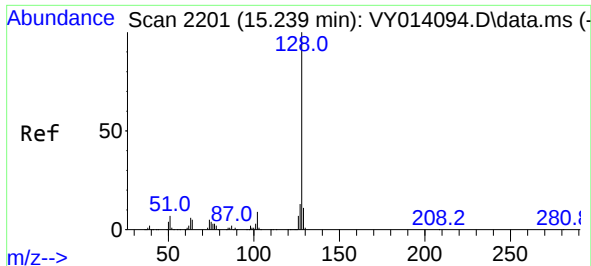
Tgt Ion: 75 Resp: 5096  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 86.124 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.098 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Tgt Ion: 75 Resp: 5096  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#

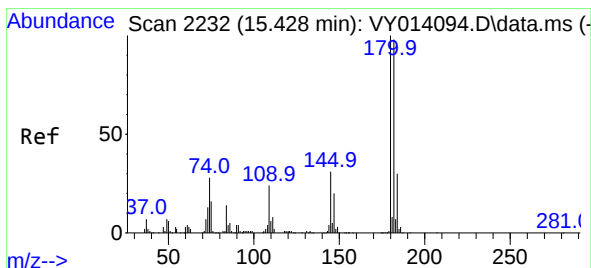
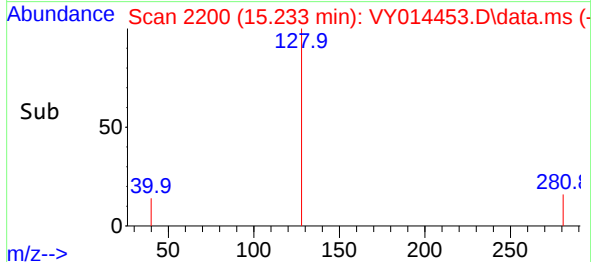
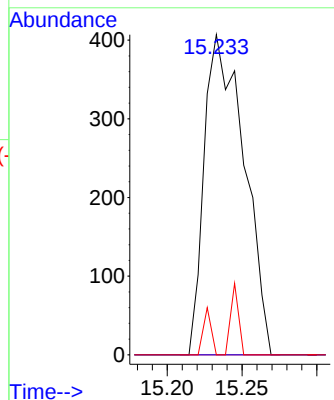
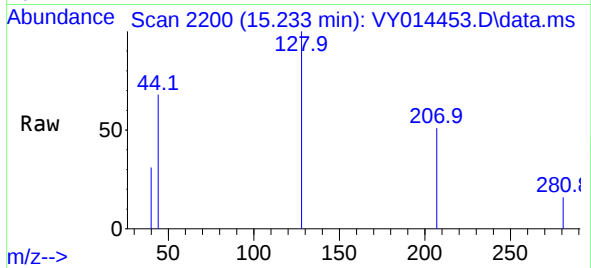




#95  
Naphthalene  
Concen: 1.626 ug/l  
RT: 15.233 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0623RE

Tgt Ion:128 Resp: 752  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.8 16.2#  
129 2.9 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 1.440 ug/l  
RT: 15.434 min Scan# 2233  
Delta R.T. 0.006 min  
Lab File: VY014453.D  
Acq: 27 Jun 2023 13:15

Tgt Ion:180 Resp: 282  
Ion Ratio Lower Upper  
180 100  
182 86.9 47.3 141.8  
145 0.0 15.4 46.2#

