

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041525\  
 Data File : VY021887.D  
 Acq On : 15 Apr 2025 11:42  
 Operator : SY/MD  
 Sample : Q1792-01  
 Misc : 5.60g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TR-05-041125RE

Quant Time: Apr 16 03:00:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032725S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 28 02:30:29 2025  
 Response via : Initial Calibration

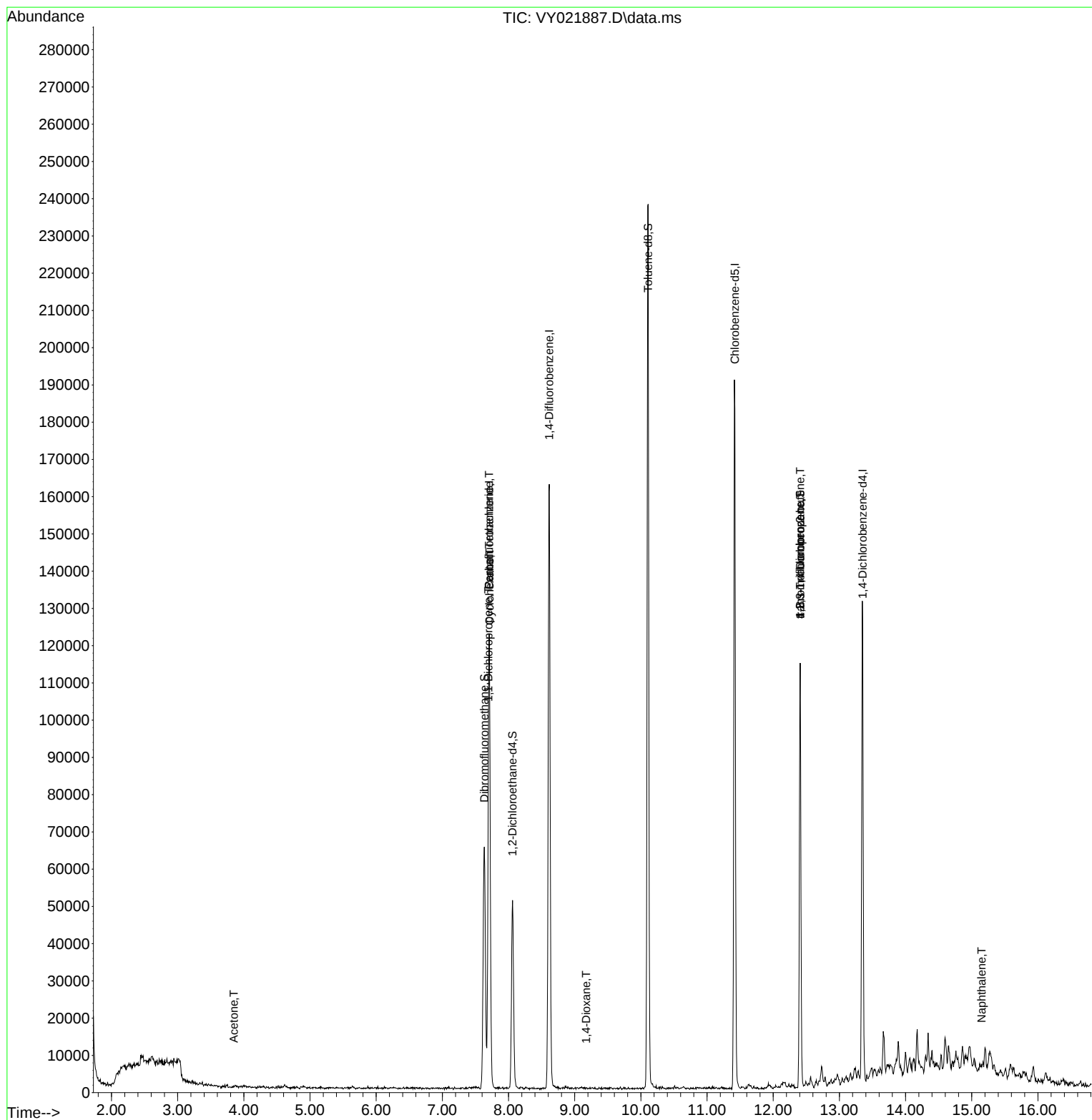
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 91502    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 135553   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 99507    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.353 | 152   | 32691    | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061  | 65    | 40173    | 40.522    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 81.040%  |
| 35) Dibromofluoromethane      | 7.634  | 113   | 45985    | 52.297    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 104.600% |
| 50) Toluene-d8                | 10.109 | 98    | 155761   | 46.563    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 93.120%  |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 33799    | 29.871    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 59.740%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        |          |
| 16) Acetone                   | 3.848  | 43    | 259      | 1.276     | ug/l # | 44       |
| 20) Methylene Chloride        | 4.616  | 84    | 320      | Below Cal | #      | 59       |
| 31) Cyclohexane               | 7.713  | 56    | 2079     | 1.188     | ug/l # | 10       |
| 36) 1,1-Dichloropropene       | 7.695  | 75    | 7673     | 5.729     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 9529     | 6.212     | ug/l # | 15       |
| 49) 1,4-Dioxane               | 9.170  | 88    | 24       | 4.094     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 18397    | 56.772    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 18397    | 130.812   | ug/l # | 12       |
| 95) Naphthalene               | 15.151 | 128   | 1112     | 1.237     | ug/l # | 88       |
| -----                         |        |       |          |           |        |          |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032725S.M  
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Response via : Initial Calibration

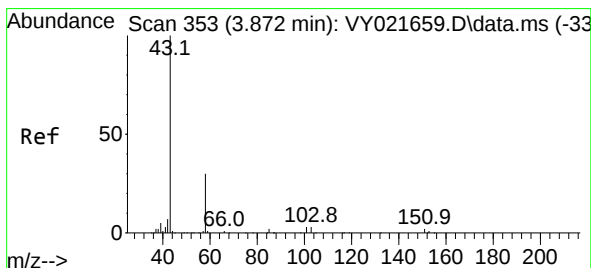
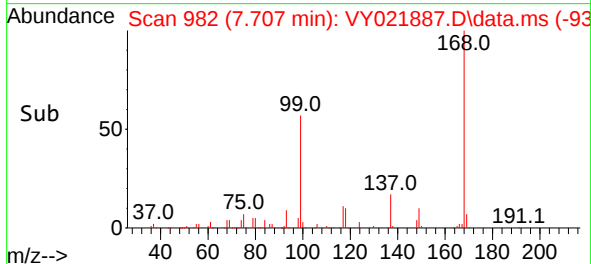
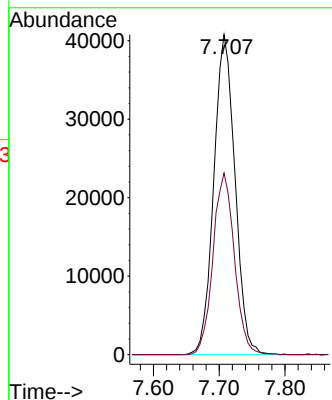
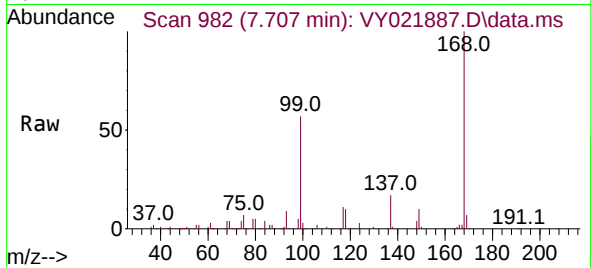




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

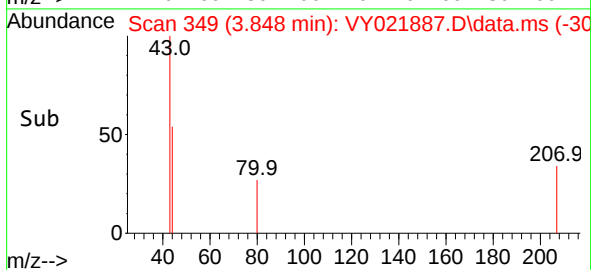
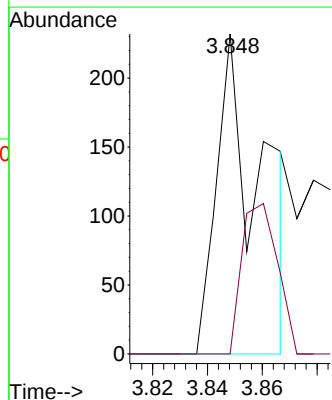
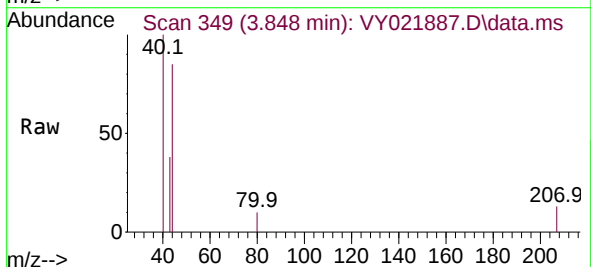
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE

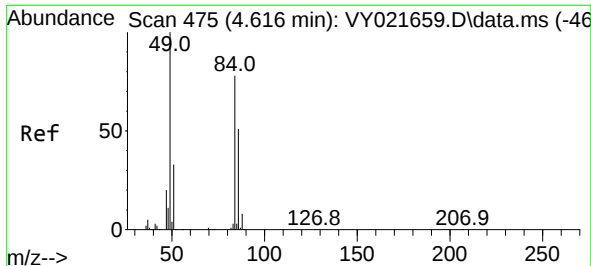
Tgt Ion:168 Resp: 91502  
Ion Ratio Lower Upper  
168 100  
99 56.8 46.7 70.1



#16  
Acetone  
Concen: 1.276 ug/l  
RT: 3.848 min Scan# 349  
Delta R.T. -0.024 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

Tgt Ion: 43 Resp: 259  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.2 36.4#

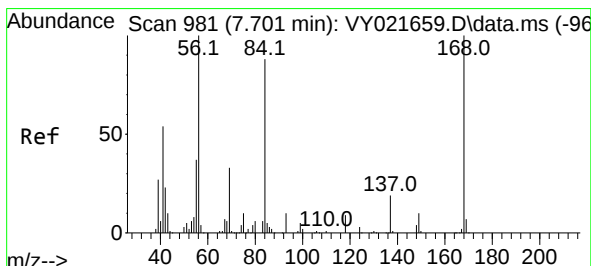
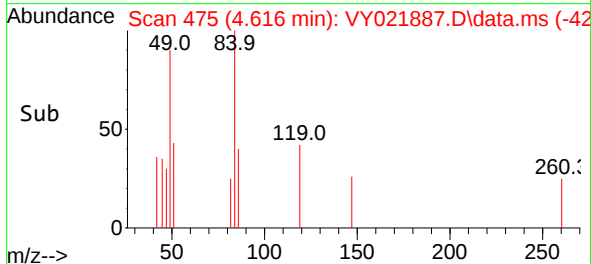
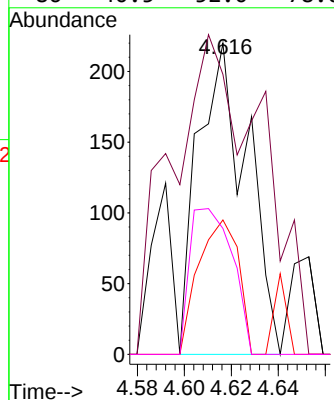
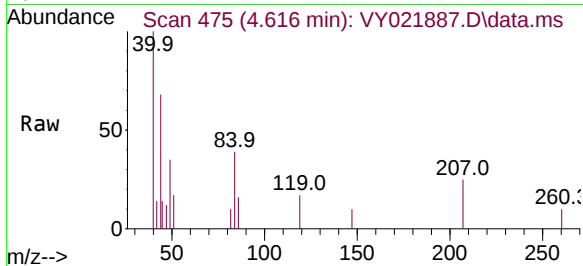




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.616 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

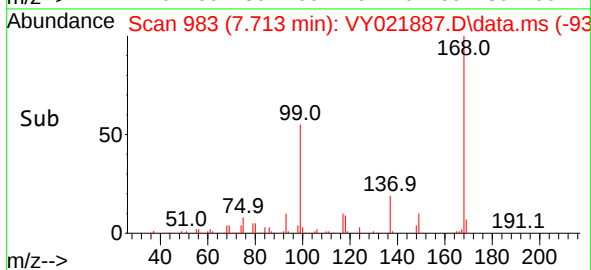
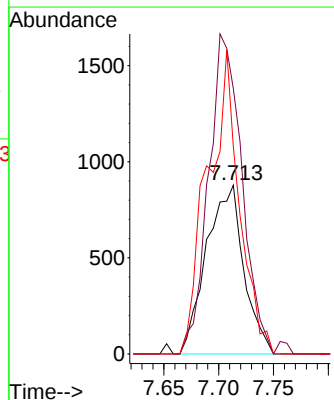
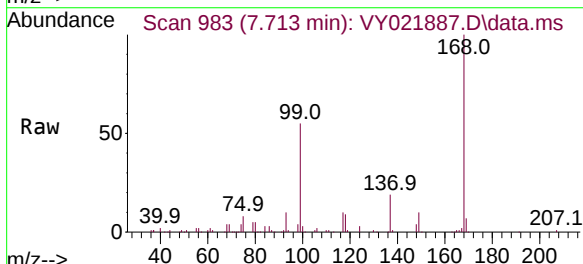
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE

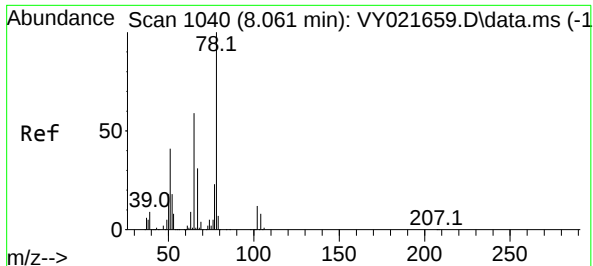
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 320    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 60.0  | 102.8 | 154.2# |
| 51       | 43.2  | 33.5  | 50.3   |
| 86       | 40.5  | 52.0  | 78.0#  |



#31  
Cyclohexane  
Concen: 1.188 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. 0.012 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 2079   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 157.3 | 26.6  | 40.0#  |
| 84       | 122.9 | 69.0  | 103.4# |





#33

1,2-Dichloroethane-d4

Concen: 40.522 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY021887.D

Acq: 15 Apr 2025 11:42

Instrument :

MSVOA\_Y

ClientSampleId :

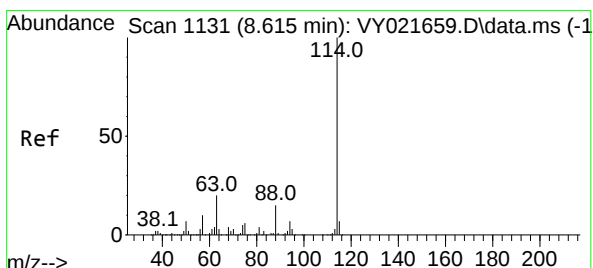
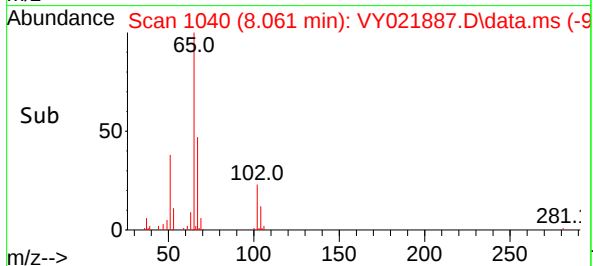
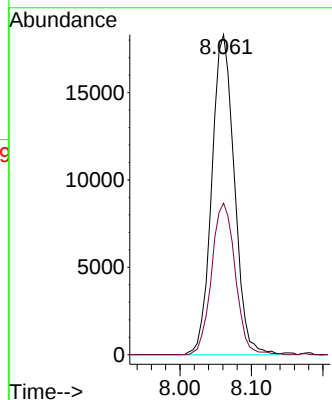
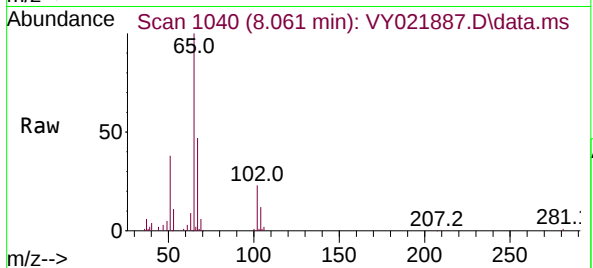
TR-05-041125RE

Tgt Ion: 65 Resp: 40173

Ion Ratio Lower Upper

65 100

67 49.5 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021887.D

Acq: 15 Apr 2025 11:42

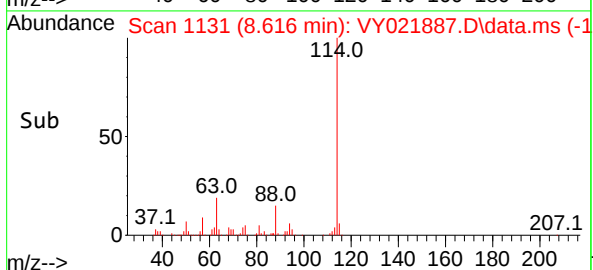
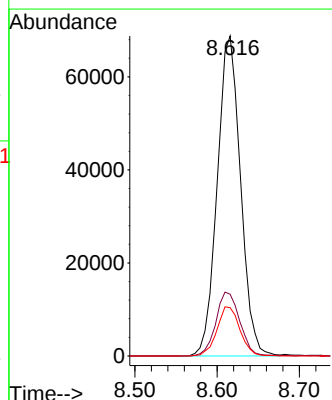
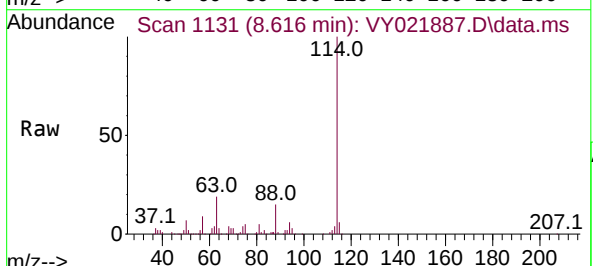
Tgt Ion: 114 Resp: 135553

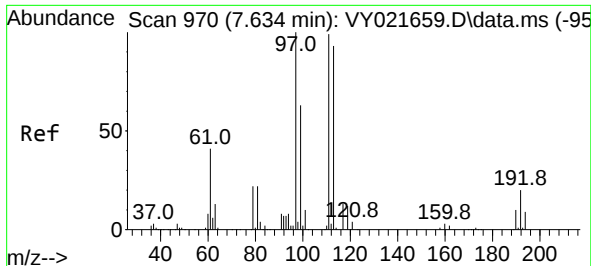
Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.2

88 15.1 0.0 29.8

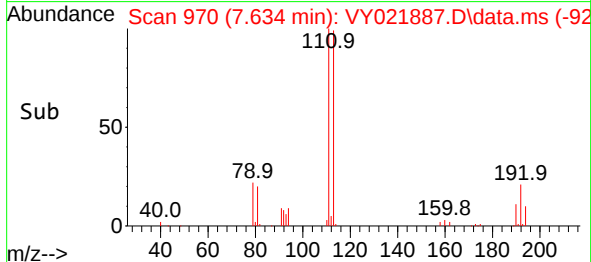
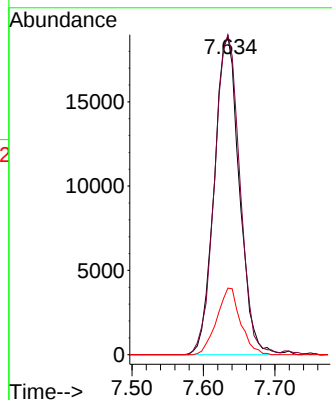
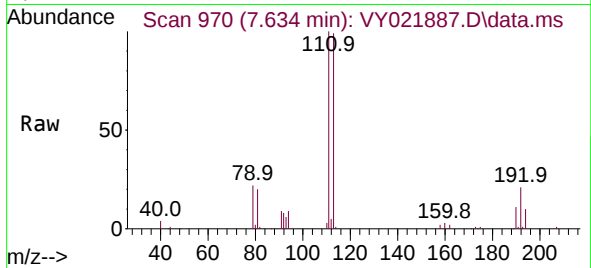




#35  
Dibromofluoromethane  
Concen: 52.297 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

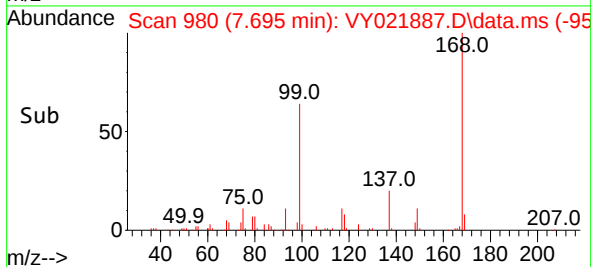
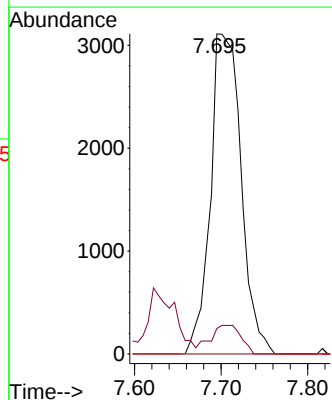
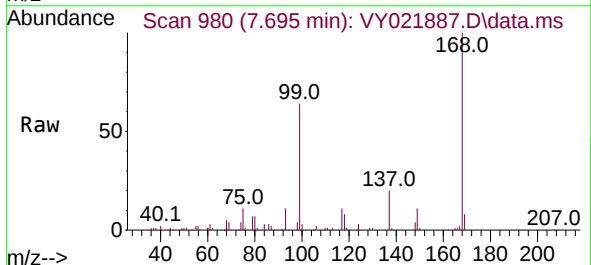
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE

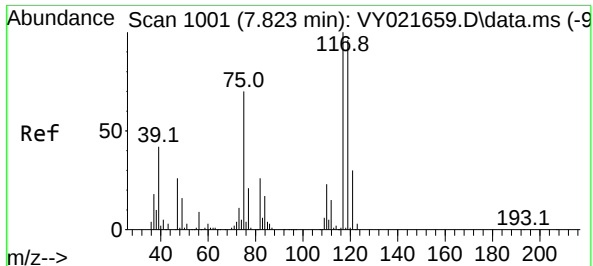
Tgt Ion:113 Resp: 45985  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.6 123.8  
192 19.8 16.2 24.4



#36  
1,1-Dichloropropene  
Concen: 5.729 ug/l  
RT: 7.695 min Scan# 980  
Delta R.T. -0.140 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

Tgt Ion: 75 Resp: 7673  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.0 50.9#  
77 0.0 24.8 37.2#

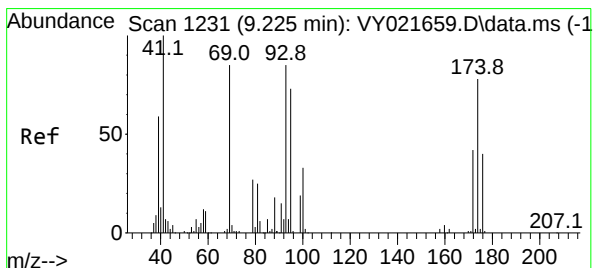
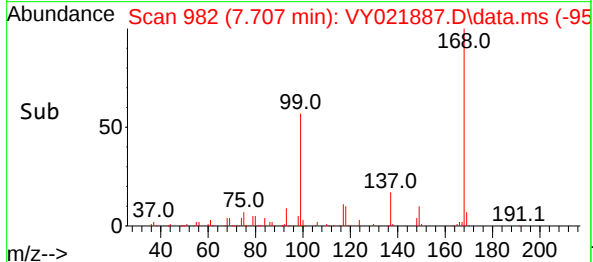
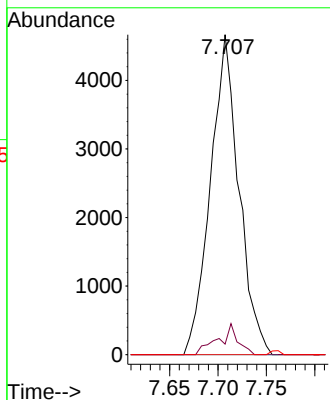
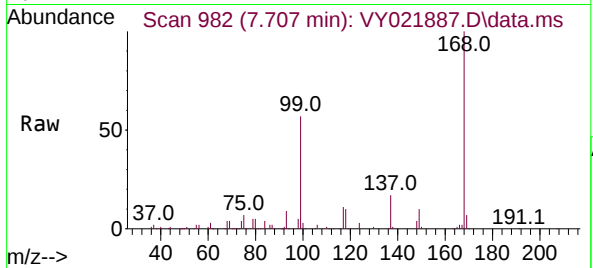




#38  
Carbon Tetrachloride  
Concen: 6.212 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

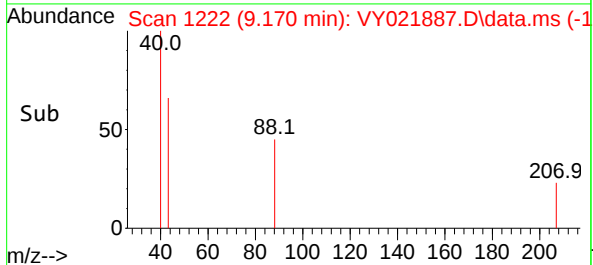
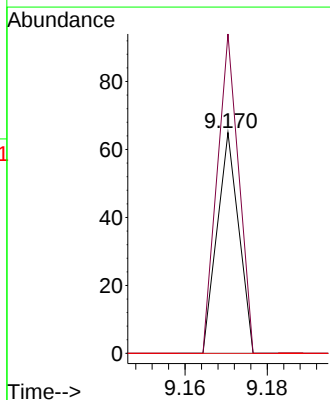
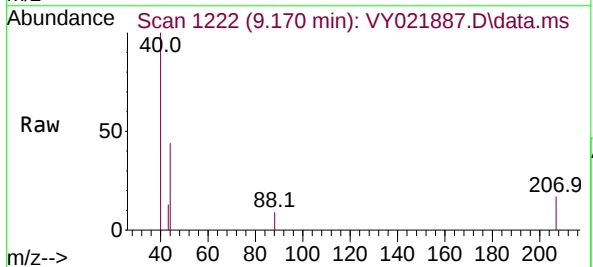
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE

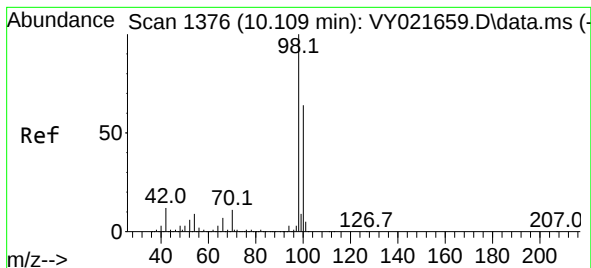
Tgt Ion: 117 Resp: 9529  
Ion Ratio Lower Upper  
117 100  
119 3.3 76.2 114.4#  
121 0.0 24.2 36.4#



#49  
1,4-Dioxane  
Concen: 4.094 ug/l  
RT: 9.170 min Scan# 1222  
Delta R.T. -0.055 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

Tgt Ion: 88 Resp: 24  
Ion Ratio Lower Upper  
88 100  
43 141.7 28.8 43.2#  
58 0.0 59.4 89.2#





#50

Toluene-d8

Concen: 46.563 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021887.D

Acq: 15 Apr 2025 11:42

Instrument :

MSVOA\_Y

ClientSampleId :

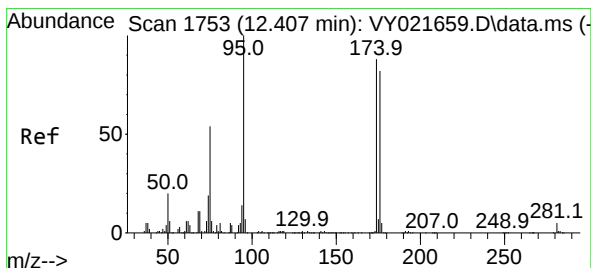
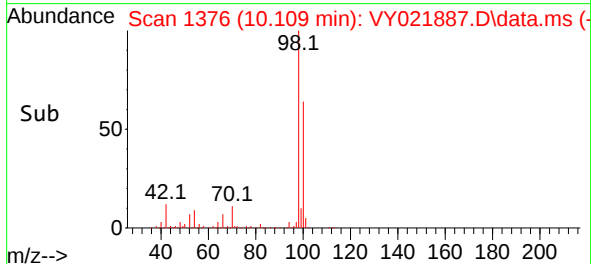
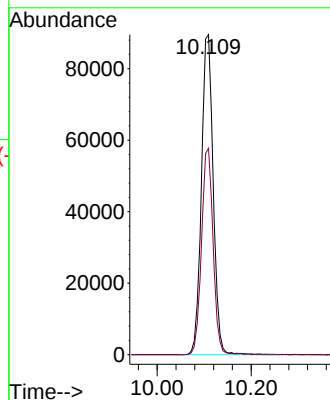
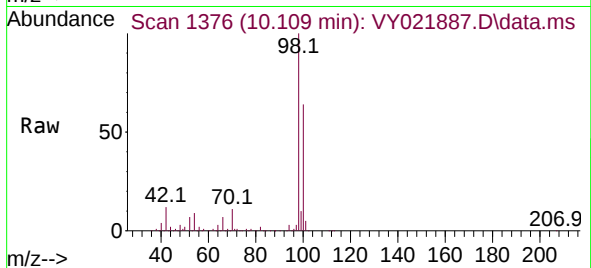
TR-05-041125RE

Tgt Ion: 98 Resp: 155761

Ion Ratio Lower Upper

98 100

100 63.4 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 29.871 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY021887.D

Acq: 15 Apr 2025 11:42

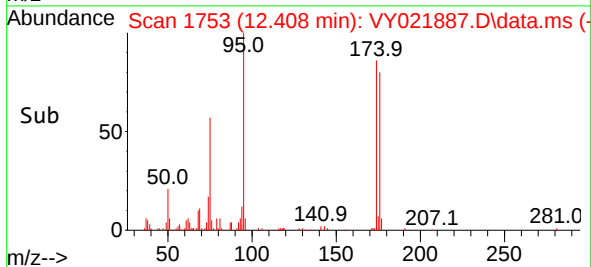
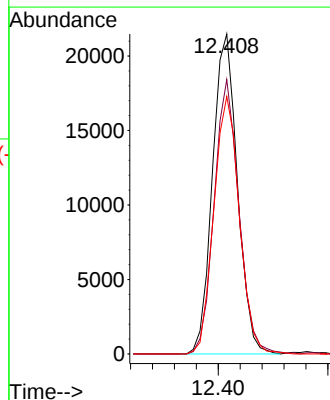
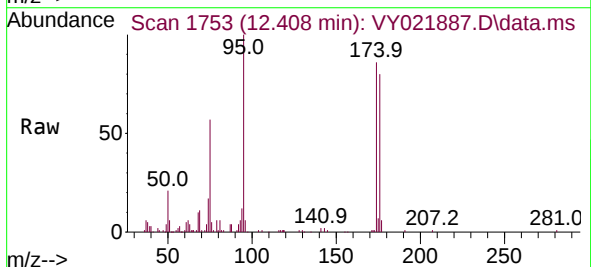
Tgt Ion: 95 Resp: 33799

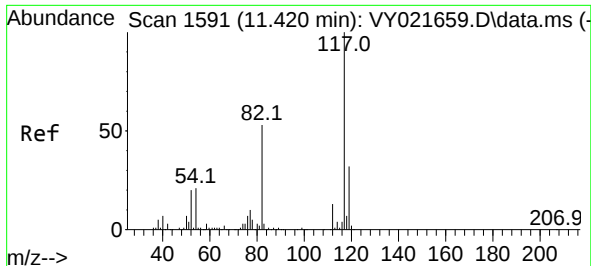
Ion Ratio Lower Upper

95 100

174 85.2 0.0 170.8

176 82.7 0.0 162.0

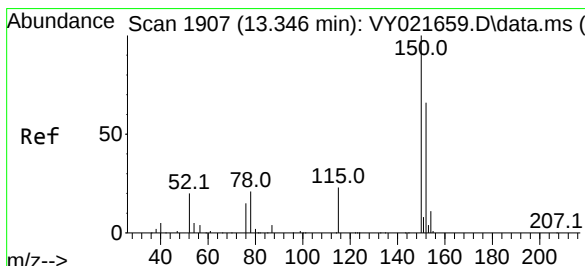
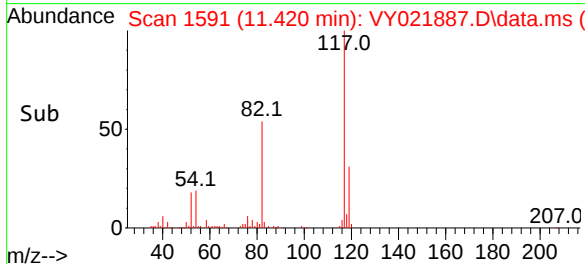
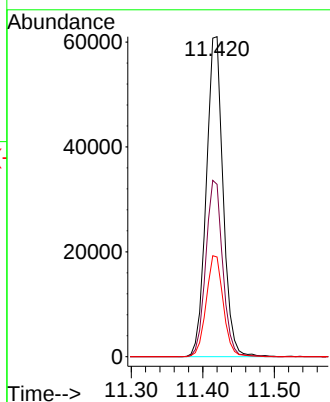
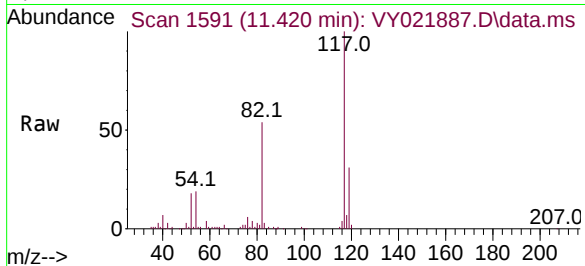




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

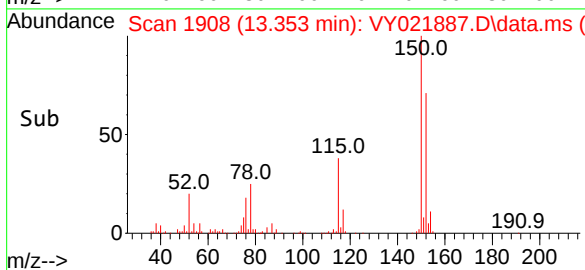
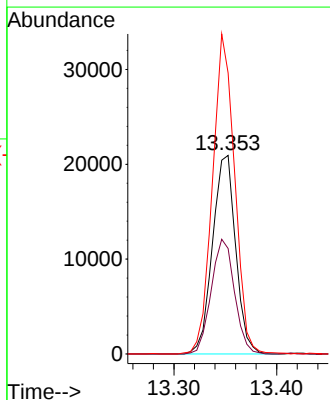
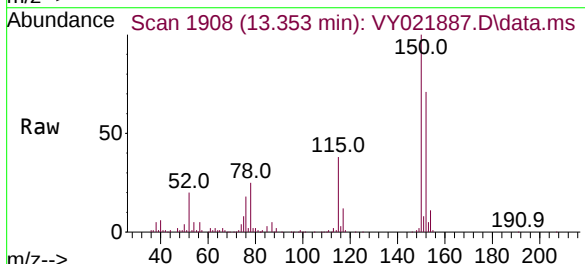
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE

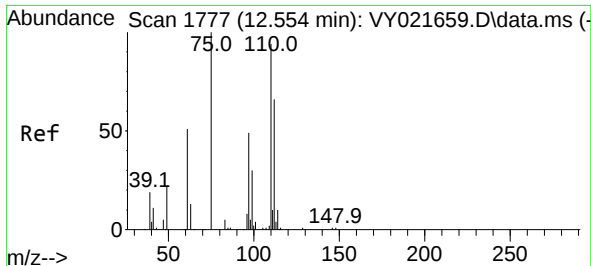
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.8  | 42.8  | 64.2  |
| 119     | 31.1  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.353 min Scan# 1908  
Delta R.T. 0.006 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.1  | 28.8  | 86.5  |
| 150     | 154.4 | 0.0   | 348.4 |

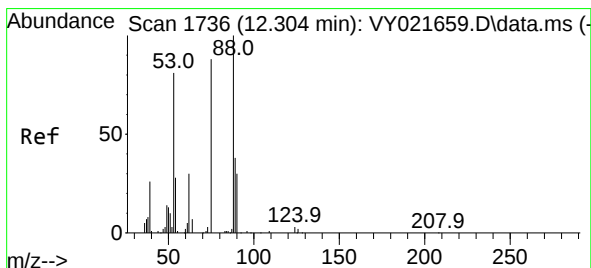
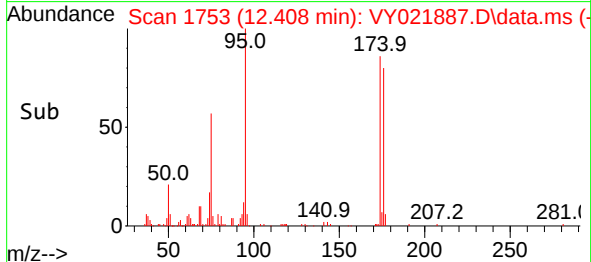
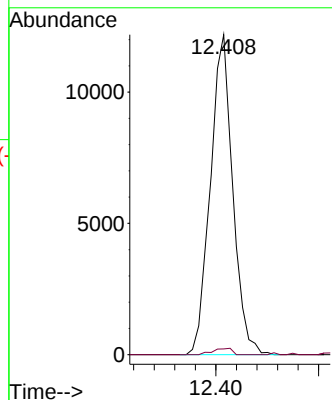
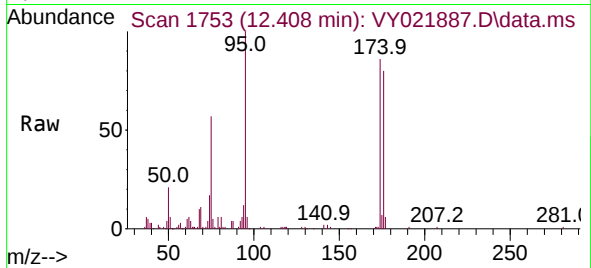




#76  
1,2,3-Trichloropropane  
Concen: 56.772 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. -0.146 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

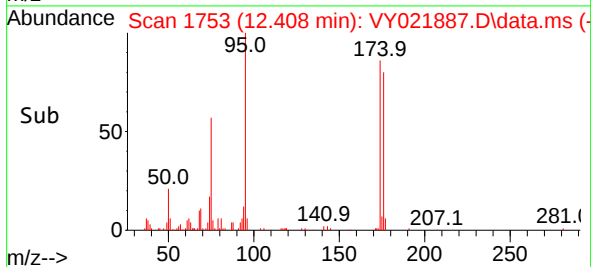
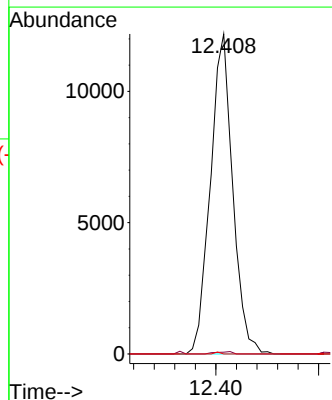
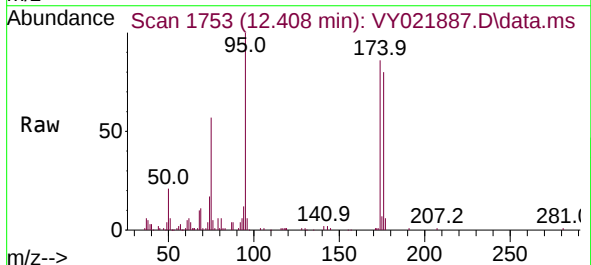
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE

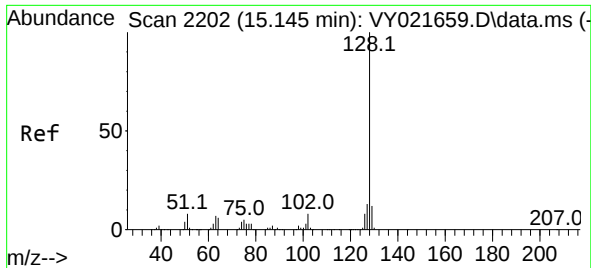
Tgt Ion: 75 Resp: 18397  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 130.812 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.104 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

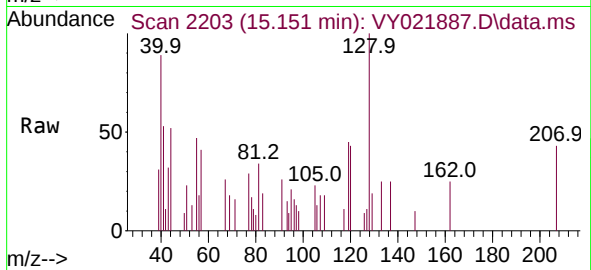
Tgt Ion: 75 Resp: 18397  
Ion Ratio Lower Upper  
75 100  
53 0.5 76.1 114.1#  
89 0.1 36.2 54.4#





#95  
Naphthalene  
Concen: 1.237 ug/l  
RT: 15.151 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VY021887.D  
Acq: 15 Apr 2025 11:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-041125RE



Tgt Ion:128 Resp: 1112  
Ion Ratio Lower Upper  
128 100  
127 7.5 10.8 16.2#  
129 14.0 8.8 13.2#

