

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050625\  
 Data File : VY022175.D  
 Acq On : 06 May 2025 11:53  
 Operator : SY/MD  
 Sample : Q1952-01  
 Misc : 5.75g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CLEAN-FILL

Quant Time: May 07 04:33:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

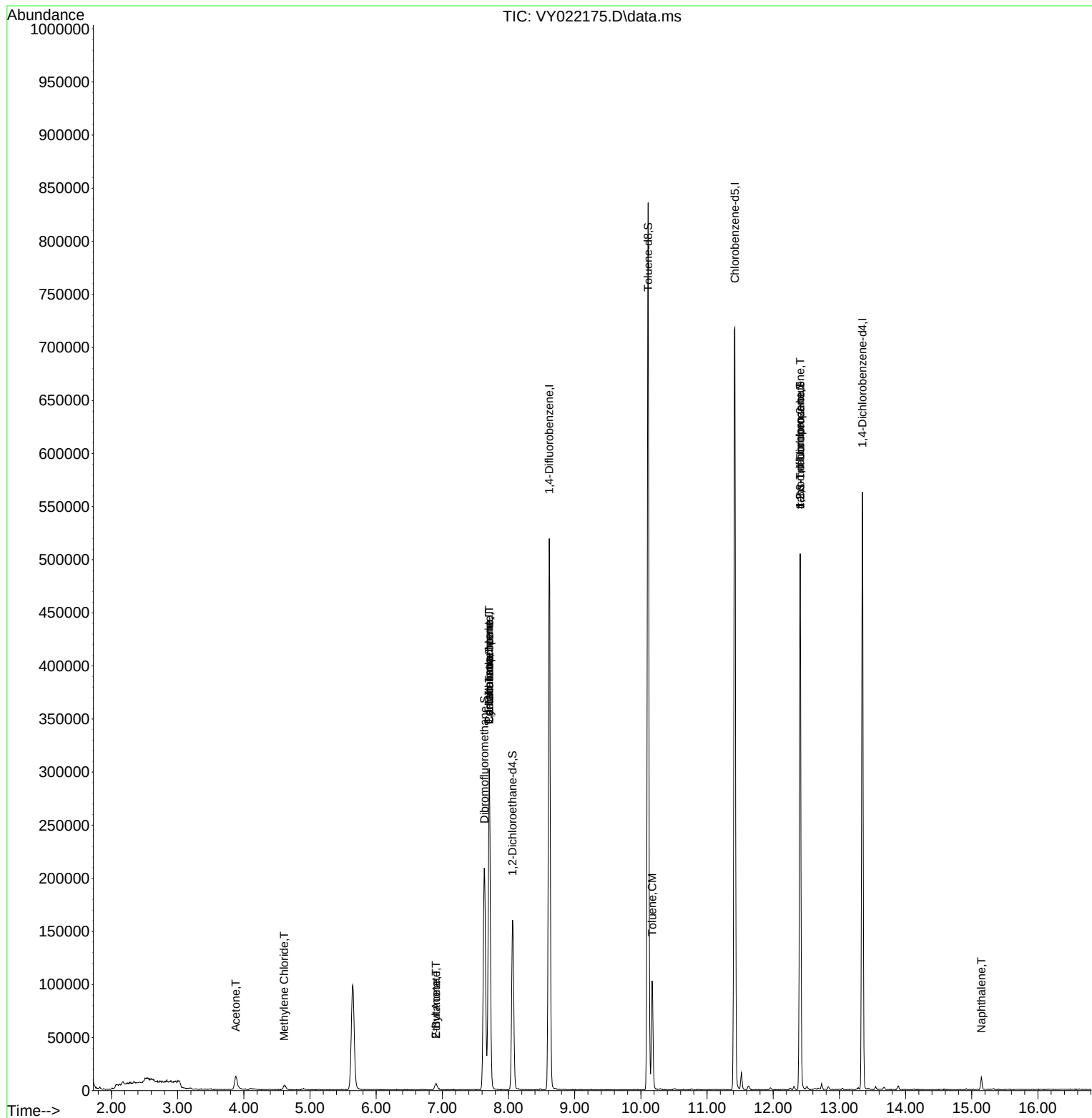
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 233623   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 445228   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 400178   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347 | 152   | 146601   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.061  | 65    | 126304   | 58.530   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 117.060% |          |
| 35) Dibromofluoromethane      | 7.634  | 113   | 153412   | 52.156   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 104.320% |          |
| 50) Toluene-d8                | 10.109 | 98    | 539797   | 48.678   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 97.360%  |          |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 149719   | 40.106   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 80.220%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 16) Acetone                   | 3.879  | 43    | 22669    | 64.399   | ug/l       | 95       |
| 20) Methylene Chloride        | 4.610  | 84    | 2912     | 1.067    | ug/l       | 93       |
| 25) 2-Butanone                | 6.903  | 43    | 9855     | 20.035   | ug/l       | 96       |
| 31) Cyclohexane               | 7.707  | 56    | 4749     | 1.331    | ug/l #     | 36       |
| 36) 1,1-Dichloropropene       | 7.707  | 75    | 17910    | 4.533    | ug/l #     | 47       |
| 37) Ethyl Acetate             | 6.903  | 43    | 9855     | 6.945    | ug/l #     | 64       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 22963    | 4.864    | ug/l #     | 17       |
| 52) Toluene                   | 10.170 | 92    | 41821    | 5.231    | ug/l       | 99       |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 75596    | 60.202   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 75596    | 144.975  | ug/l #     | 16       |
| 95) Naphthalene               | 15.145 | 128   | 9334     | 2.262    | ug/l       | 97       |
| -----                         |        |       |          |          |            |          |

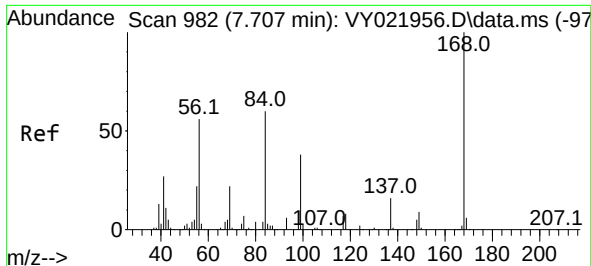
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 7 Sample Multiplier: 1

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MSVOA\_Y  
ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Wed Apr 23 02:30:30 2025  
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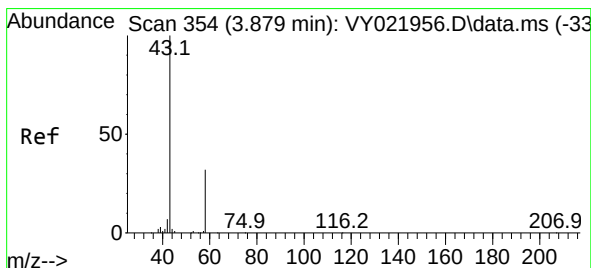
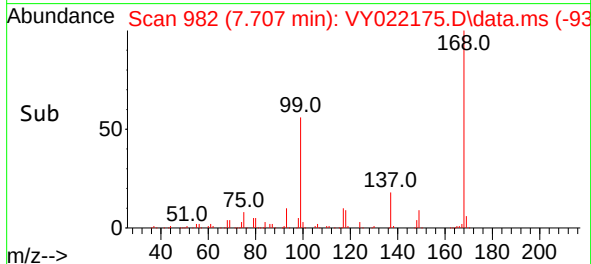
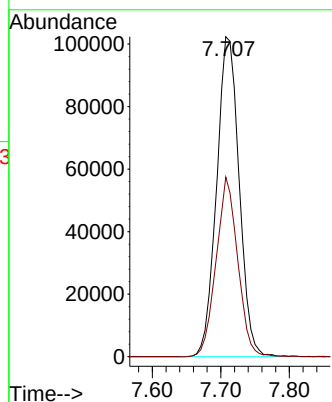
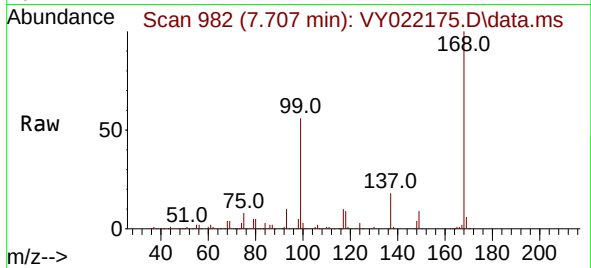




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

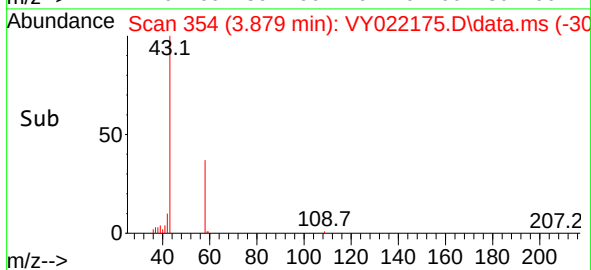
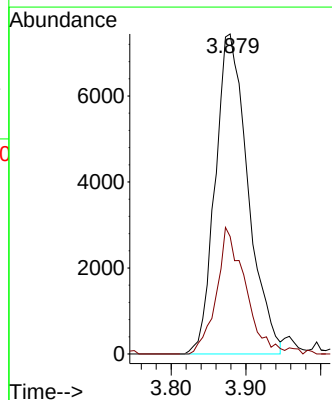
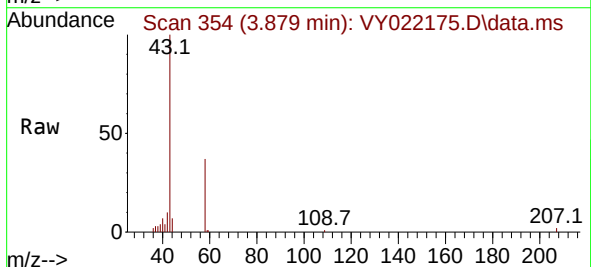
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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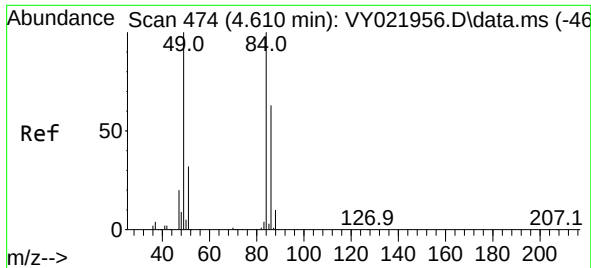
Tgt Ion:168 Resp: 233623  
Ion Ratio Lower Upper  
168 100  
99 56.1 43.1 64.7



#16  
Acetone  
Concen: 64.399 ug/l  
RT: 3.879 min Scan# 354  
Delta R.T. -0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Tgt Ion: 43 Resp: 22669  
Ion Ratio Lower Upper  
43 100  
58 36.7 27.0 40.4

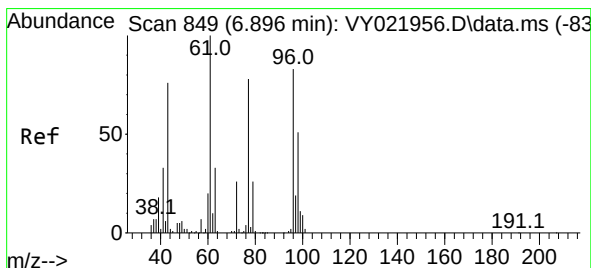
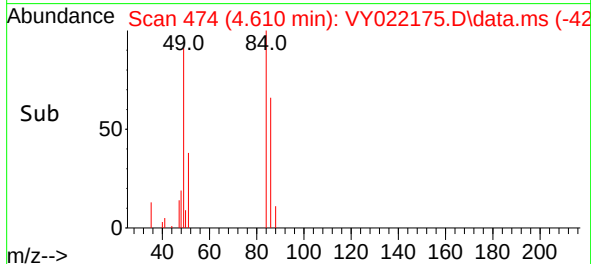
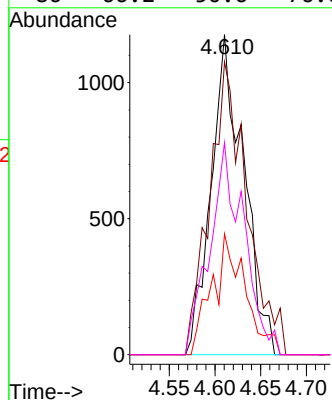
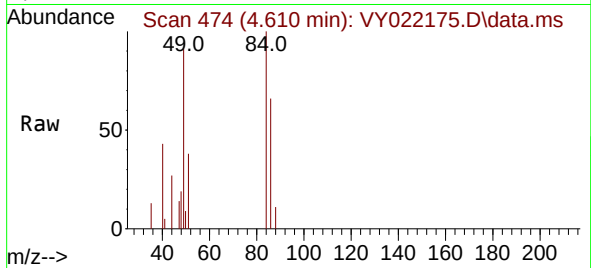




#20  
Methylene Chloride  
Concen: 1.067 ug/l  
RT: 4.610 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

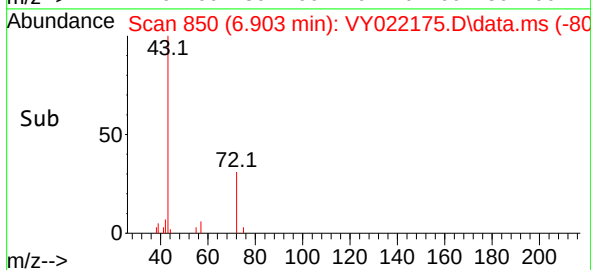
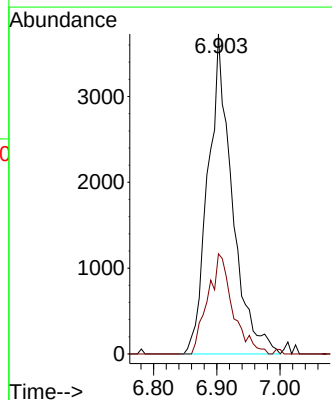
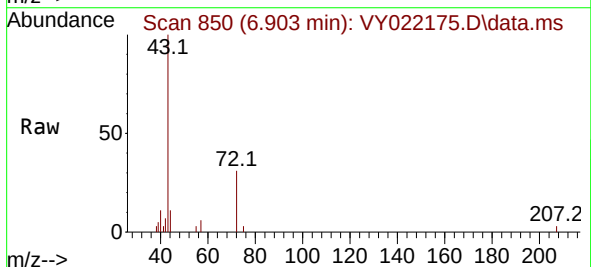
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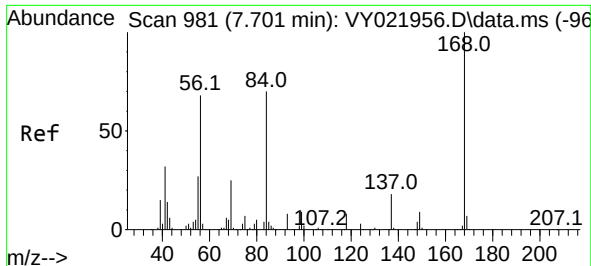
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2912  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 91.5  | 79.9  | 119.9 |
| 51       | 37.8  | 25.4  | 38.0  |
| 86       | 66.2  | 50.6  | 76.0  |



#25  
2-Butanone  
Concen: 20.035 ug/l  
RT: 6.903 min Scan# 850  
Delta R.T. 0.006 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9855  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 31.3  | 27.0  | 40.4  |

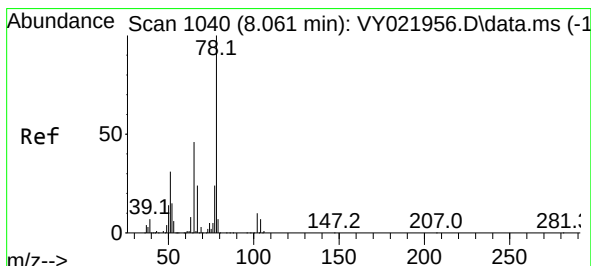
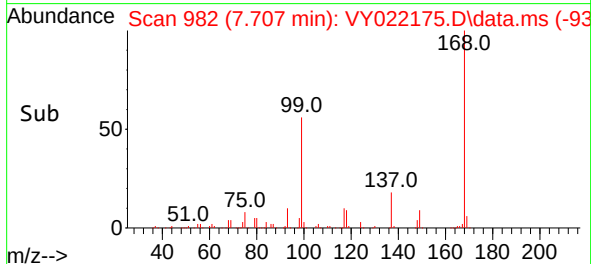
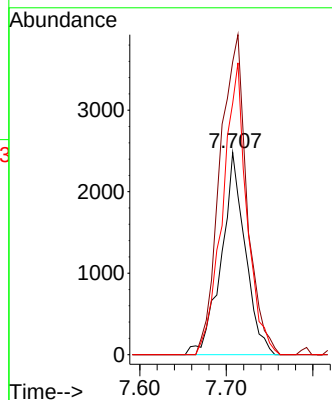
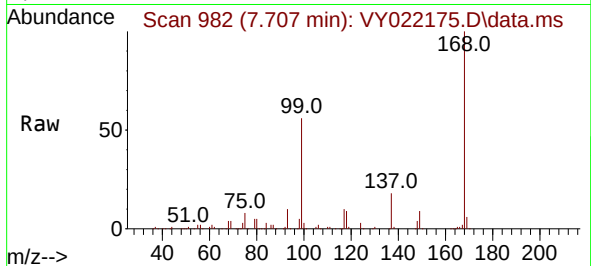




#31  
Cyclohexane  
Concen: 1.331 ug/l  
RT: 7.707 min Scan# 981  
Delta R.T. 0.006 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

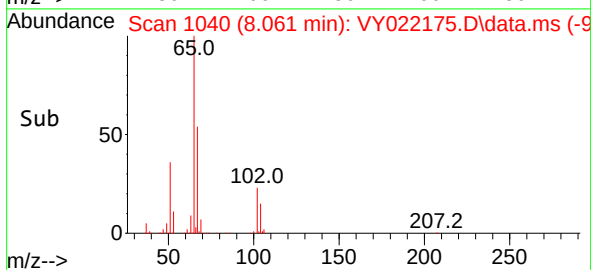
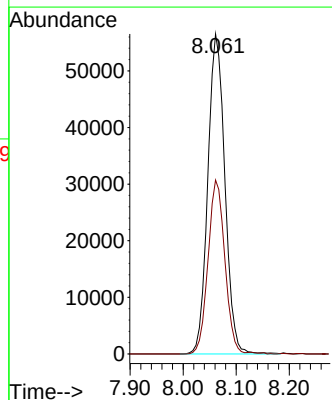
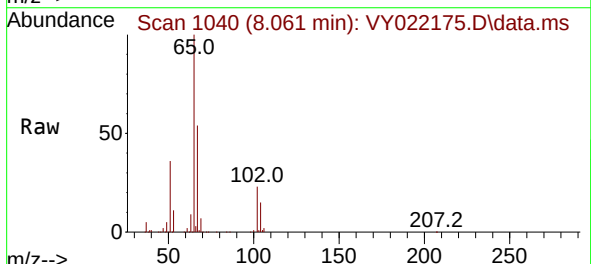
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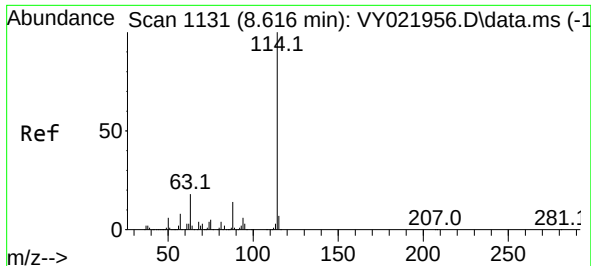
Tgt Ion: 56 Resp: 4749  
Ion Ratio Lower Upper  
56 100  
69 144.9 29.4 44.2#  
84 124.3 82.2 123.4#



#33  
1,2-Dichloroethane-d4  
Concen: 58.530 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Tgt Ion: 65 Resp: 126304  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 105.8

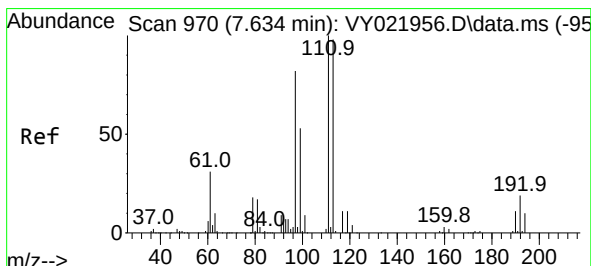
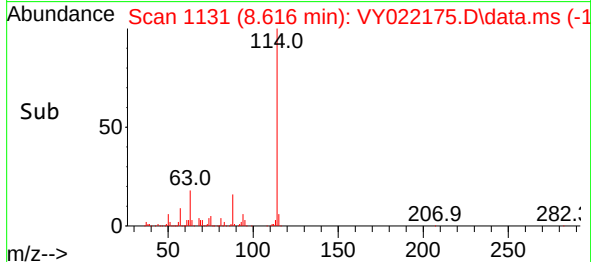
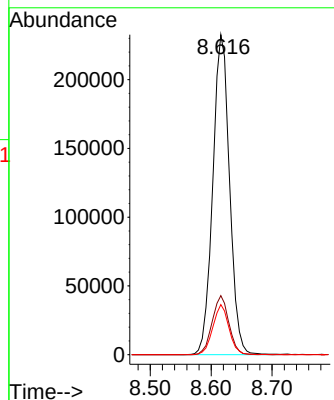
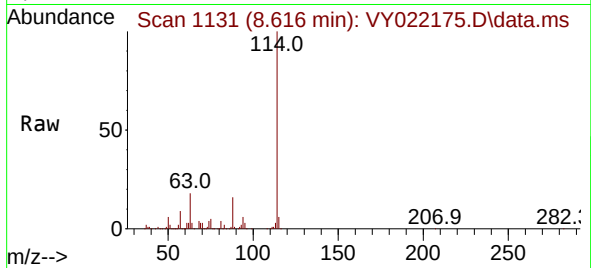




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

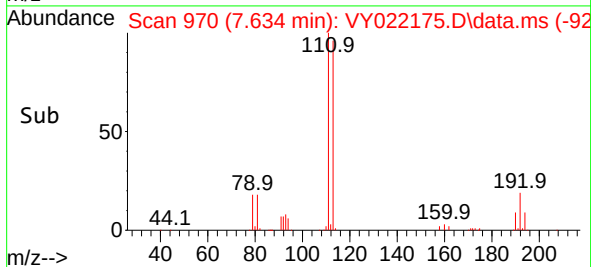
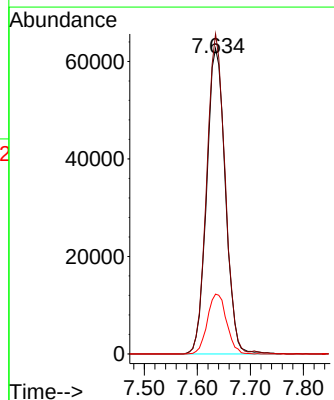
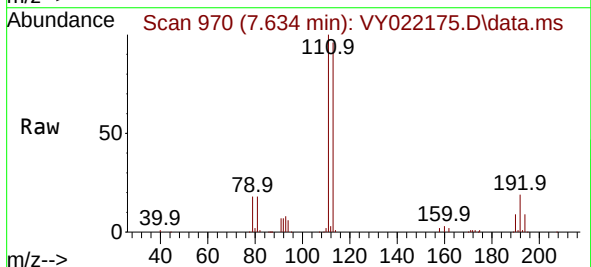
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ClientSampleId :  
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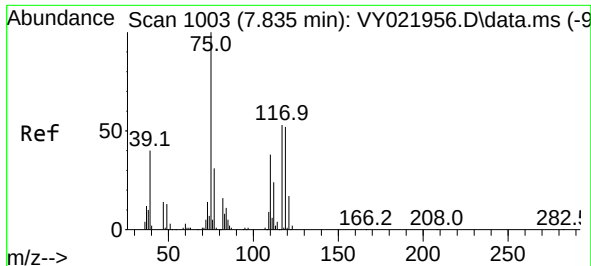
Tgt Ion:114 Resp: 445228  
Ion Ratio Lower Upper  
114 100  
63 18.5 0.0 35.4  
88 15.7 0.0 28.2



#35  
Dibromofluoromethane  
Concen: 52.156 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. 0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Tgt Ion:113 Resp: 153412  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.8 122.8  
192 20.0 15.6 23.4

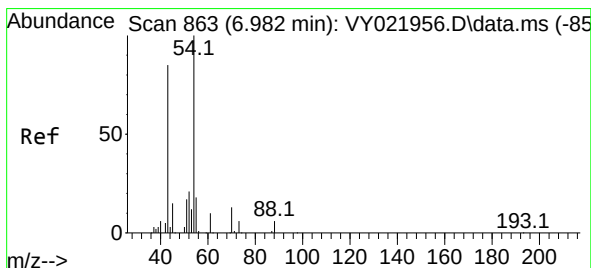
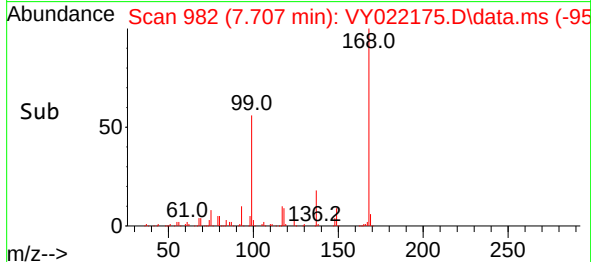
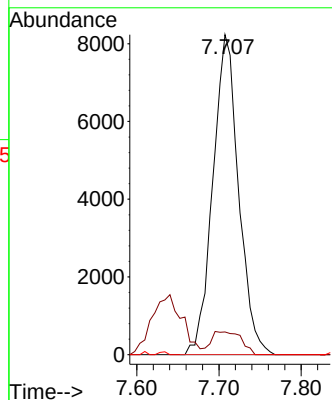
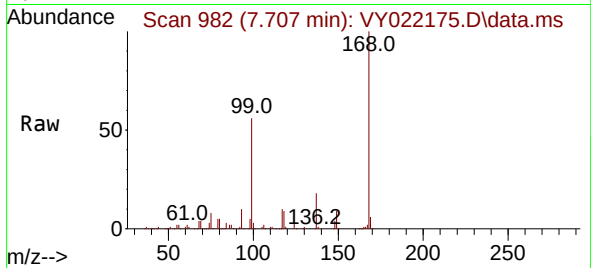




#36  
1,1-Dichloropropene  
Concen: 4.533 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

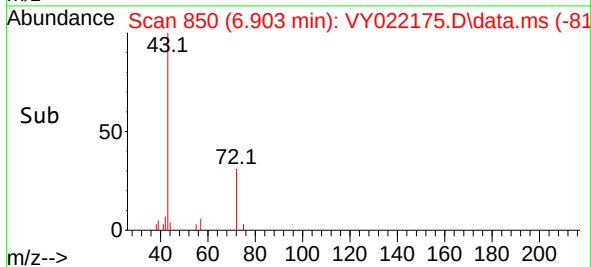
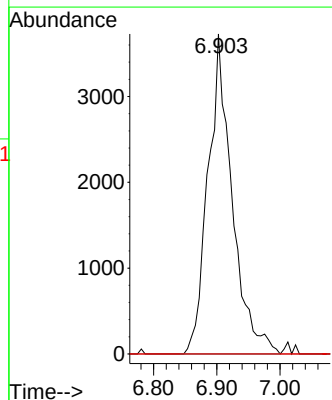
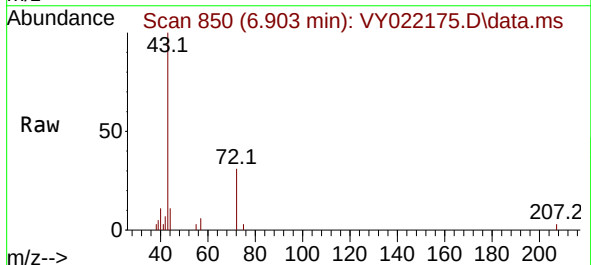
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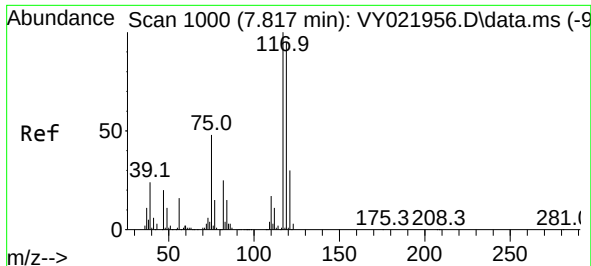
Tgt Ion: 75 Resp: 17910  
Ion Ratio Lower Upper  
75 100  
110 8.5 19.1 57.3#  
77 0.0 25.5 38.3#



#37  
Ethyl Acetate  
Concen: 6.945 ug/l  
RT: 6.903 min Scan# 850  
Delta R.T. -0.079 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Tgt Ion: 43 Resp: 9855  
Ion Ratio Lower Upper  
43 100  
61 0.0 13.8 20.6#  
70 0.0 9.2 13.8#

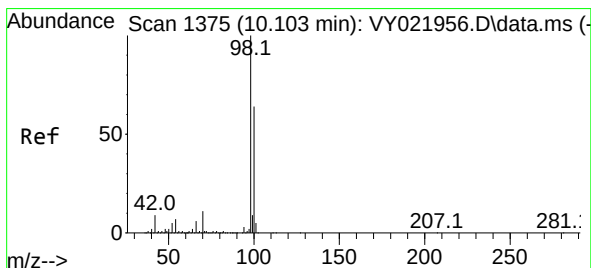
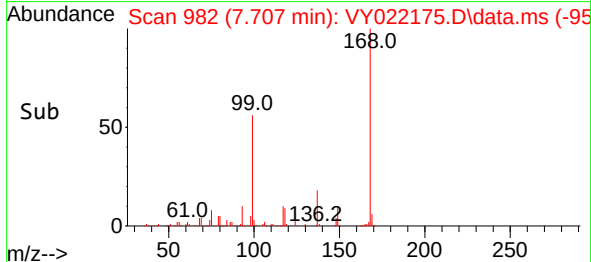
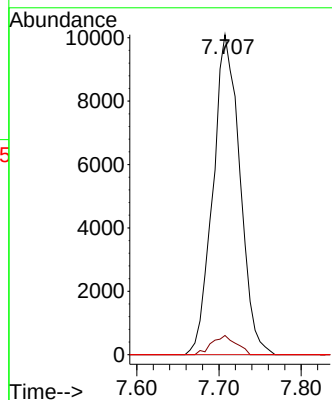
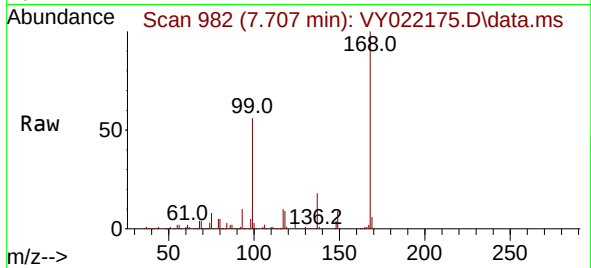




#38  
Carbon Tetrachloride  
Concen: 4.864 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

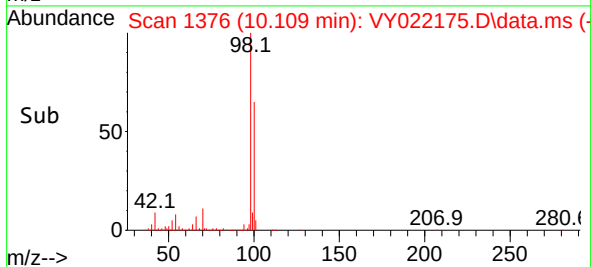
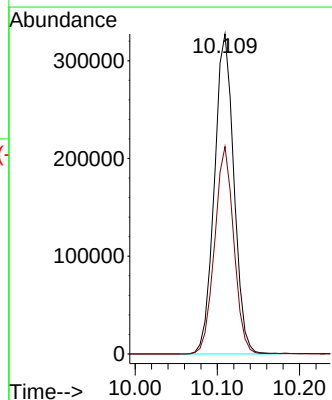
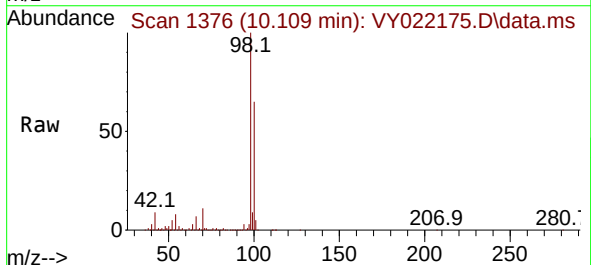
Instrument :  
MSVOA\_Y  
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Tgt Ion:117 Resp: 22963  
Ion Ratio Lower Upper  
117 100  
119 6.0 76.2 114.4#  
121 0.0 24.0 36.0#

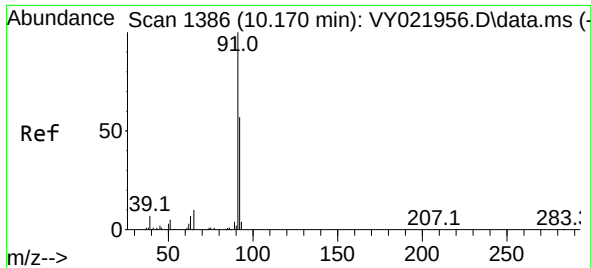


#50  
Toluene-d8  
Concen: 48.678 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.006 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Tgt Ion: 98 Resp: 539797  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.6 77.4



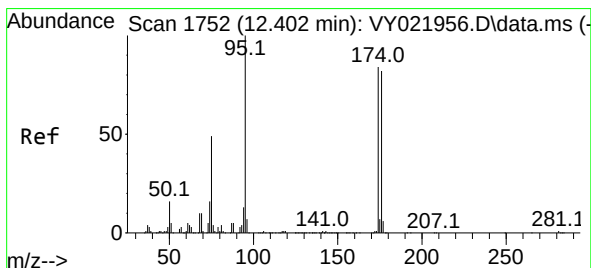
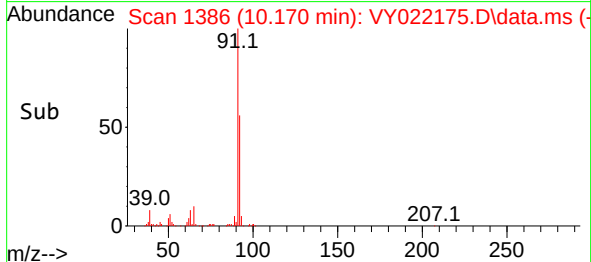
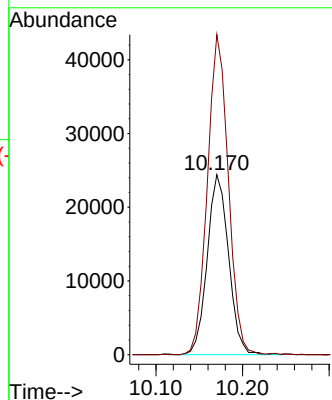
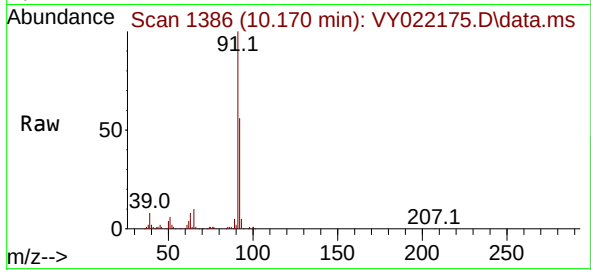




#52  
Toluene  
Concen: 5.231 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

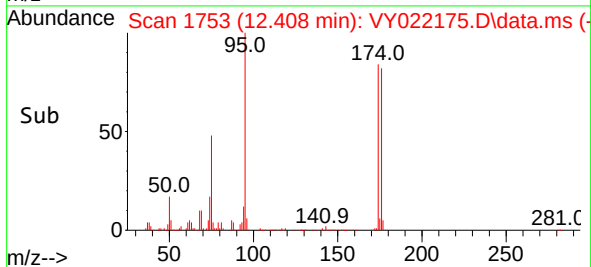
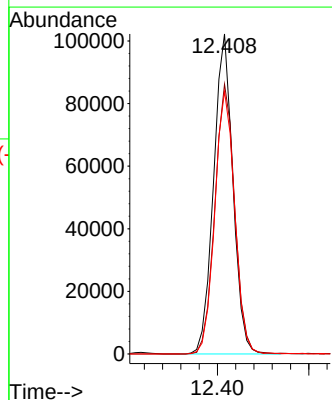
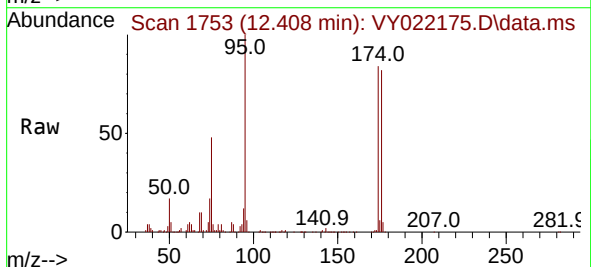
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CLEAN-FILL

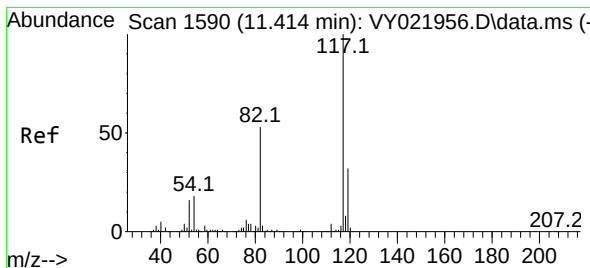
Tgt Ion: 92 Resp: 41821  
Ion Ratio Lower Upper  
92 100  
91 174.1 138.6 207.8



#62  
4-Bromofluorobenzene  
Concen: 40.106 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Tgt Ion: 95 Resp: 149719  
Ion Ratio Lower Upper  
95 100  
174 87.1 0.0 179.0  
176 84.8 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022175.D

Acq: 06 May 2025 11:53

Instrument :

MSVOA\_Y

ClientSampleId :

CLEAN-FILL

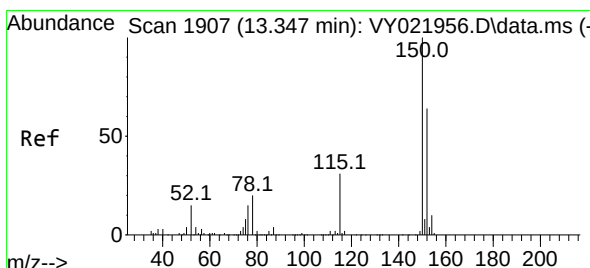
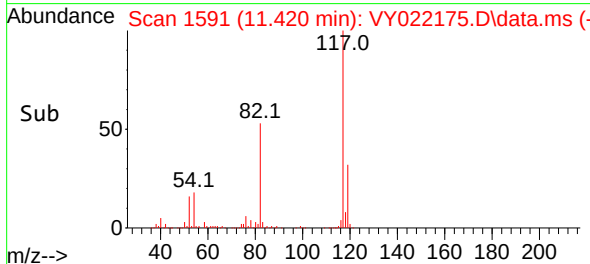
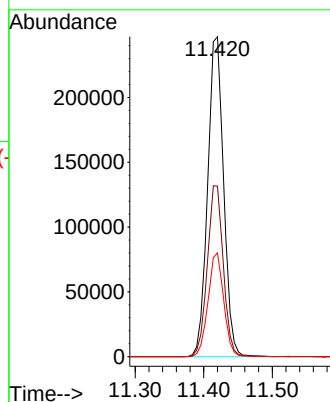
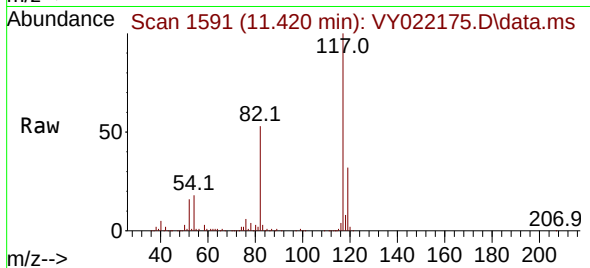
Tgt Ion:117 Resp: 400178

Ion Ratio Lower Upper

117 100

82 53.3 42.1 63.1

119 32.5 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022175.D

Acq: 06 May 2025 11:53

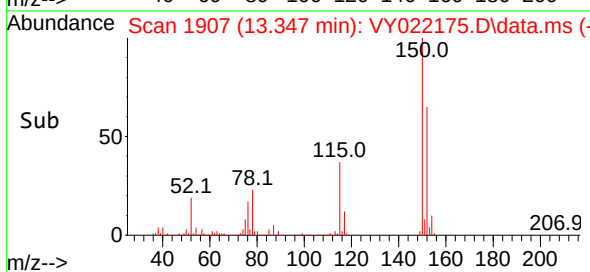
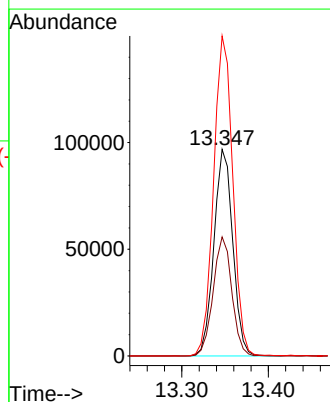
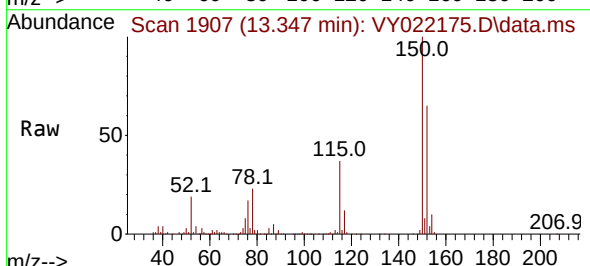
Tgt Ion:152 Resp: 146601

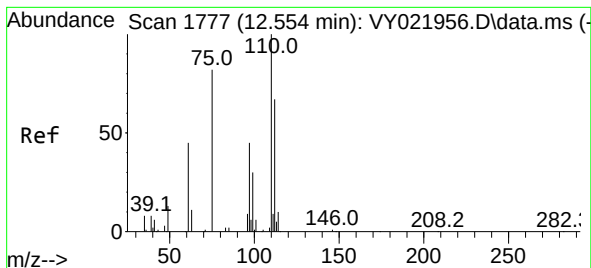
Ion Ratio Lower Upper

152 100

115 57.1 28.0 84.0

150 157.1 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 60.202 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY022175.D

Acq: 06 May 2025 11:53

Instrument :

MSVOA\_Y

ClientSampleId :

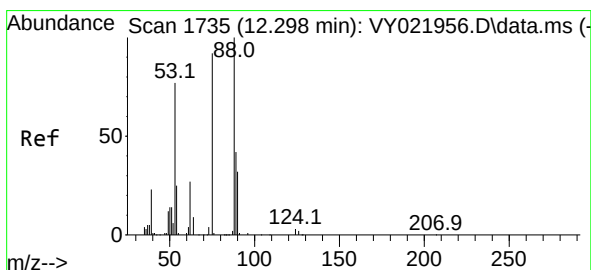
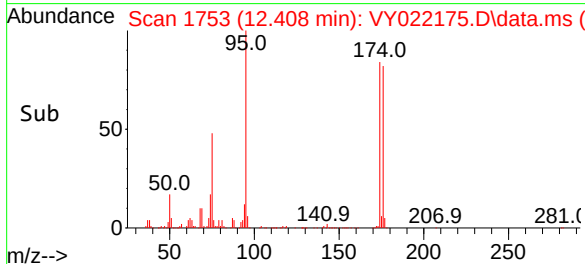
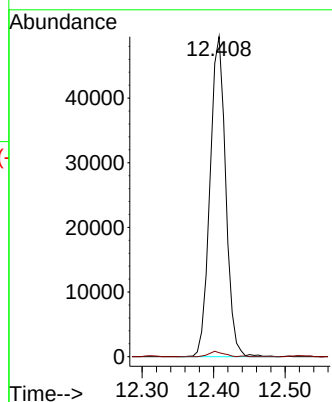
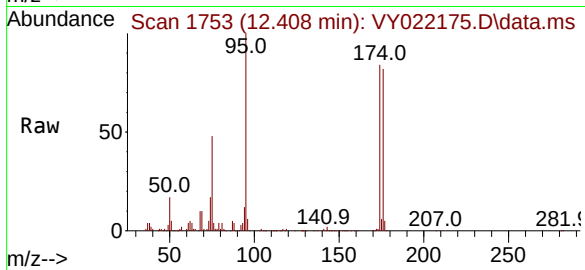
CLEAN-FILL

Tgt Ion: 75 Resp: 75596

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 144.975 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.110 min

Lab File: VY022175.D

Acq: 06 May 2025 11:53

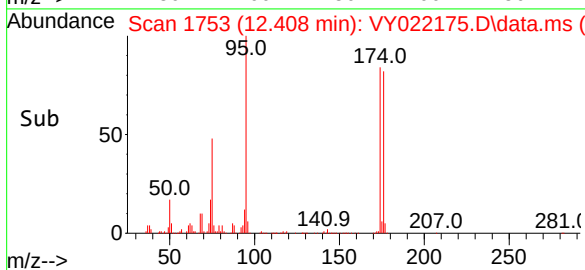
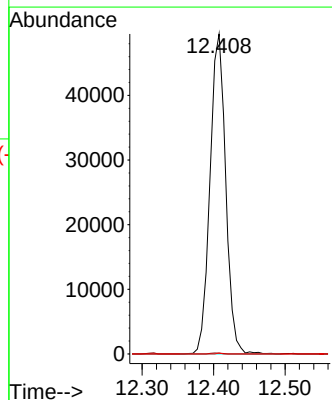
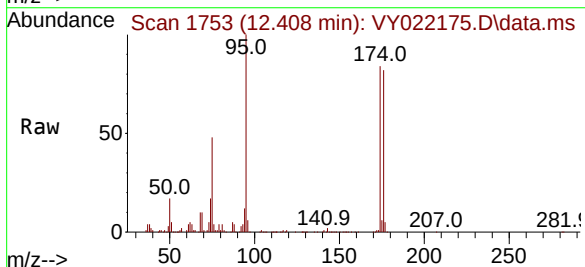
Tgt Ion: 75 Resp: 75596

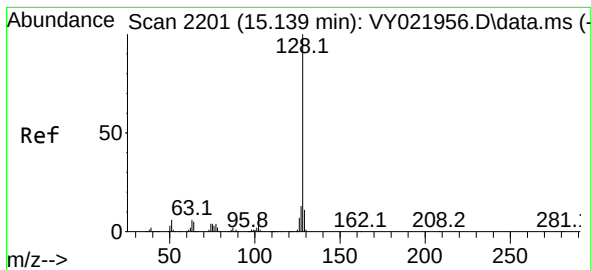
Ion Ratio Lower Upper

75 100

53 0.2 66.0 99.0#

89 0.1 37.2 55.8#





#95  
Naphthalene  
Concen: 2.262 ug/l  
RT: 15.145 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VY022175.D  
Acq: 06 May 2025 11:53

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CLEAN-FILL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 14.8  | 10.6  | 16.0  |
| 129     | 10.2  | 8.9   | 13.3  |

