

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
 Data File : VY022883.D  
 Acq On : 30 Jun 2025 16:25  
 Operator : SY/MD  
 Sample : Q2447-02  
 Misc : 3.20g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 COMP-1

Quant Time: Jul 01 03:39:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 24 08:29:52 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 298997   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 555819   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 511023   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152  | 193412   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 170023   | 50.949   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 101.900% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 173797   | 51.416   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 102.840% |
| 50) Toluene-d8              | 10.103 | 98    | 662747   | 49.410   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 98.820%  |
| 62) 4-Bromofluorobenzene    | 12.402 | 95    | 215200   | 49.908   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 99.820%  |

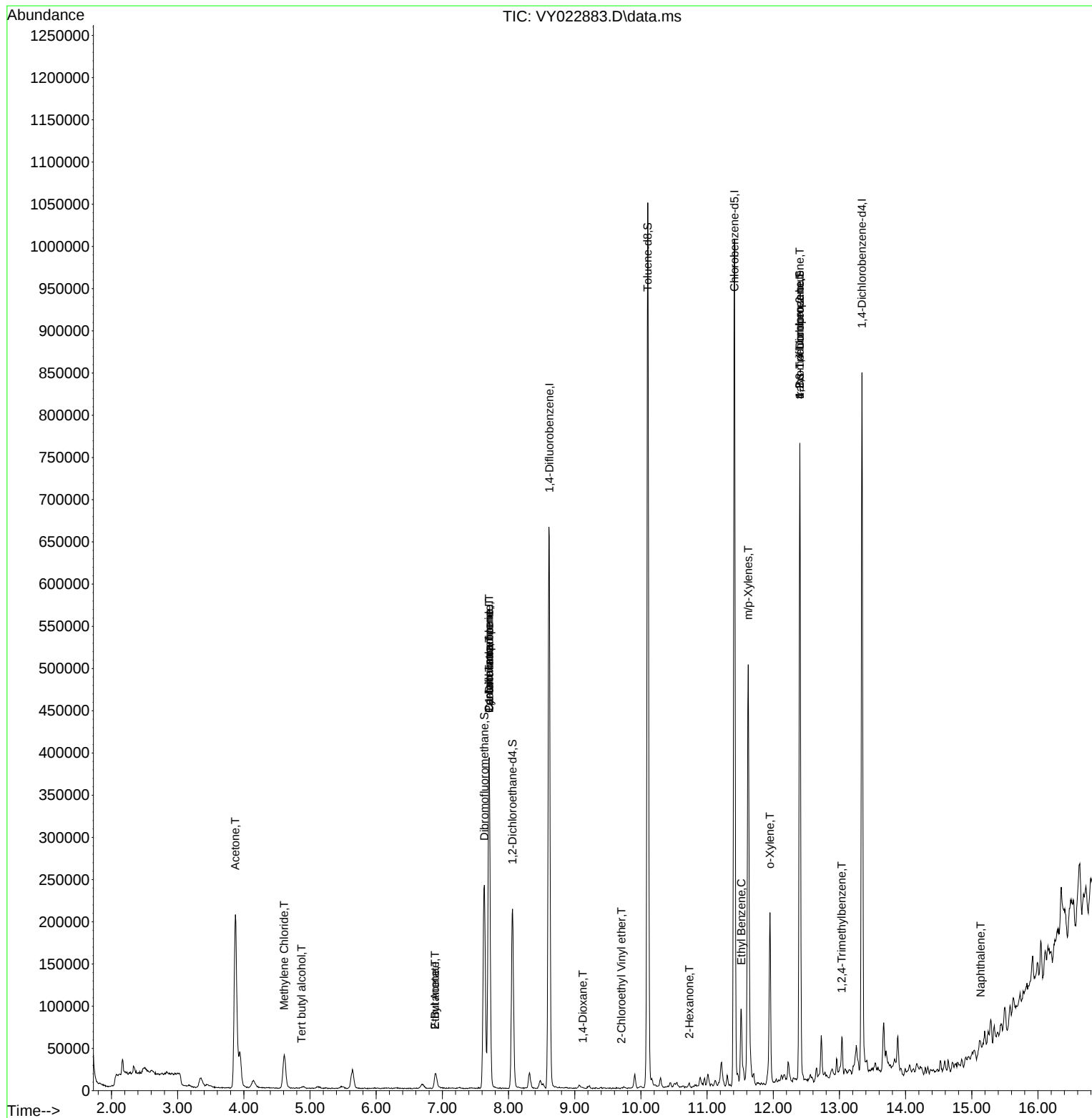
| Target Compounds              |        |     |        |         |        | Qvalue |
|-------------------------------|--------|-----|--------|---------|--------|--------|
| 11) Tert butyl alcohol        | 4.872  | 59  | 1116   | 5.029   | ug/l # | 73     |
| 16) Acetone                   | 3.873  | 43  | 382453 | 606.357 | ug/l   | 100    |
| 20) Methylene Chloride        | 4.610  | 84  | 27865  | 6.995   | ug/l   | 96     |
| 25) 2-Butanone                | 6.890  | 43  | 32969  | 35.914  | ug/l   | 89     |
| 31) Cyclohexane               | 7.707  | 56  | 7288   | 1.271   | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 7.707  | 75  | 27004  | 5.271   | ug/l # | 50     |
| 37) Ethyl Acetate             | 6.890  | 43  | 32969  | 14.912  | ug/l # | 69     |
| 38) Carbon Tetrachloride      | 7.707  | 117 | 30748  | 5.688   | ug/l # | 16     |
| 49) 1,4-Dioxane               | 9.122  | 88  | 31     | 1.254   | ug/l # | 24     |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63  | 99     | 15.704  | ug/l # | 48     |
| 59) 2-Hexanone                | 10.731 | 43  | 2168   | 1.366   | ug/l # | 26     |
| 67) Ethyl Benzene             | 11.518 | 91  | 61642  | 3.124   | ug/l   | 98     |
| 68) m/p-Xylenes               | 11.621 | 106 | 141564 | 18.562  | ug/l   | 99     |
| 69) o-Xylene                  | 11.950 | 106 | 48920  | 6.808   | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane    | 12.402 | 75  | 119536 | 60.538  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.402 | 75  | 119536 | 152.942 | ug/l # | 11     |
| 84) 1,2,4-Trimethylbenzene    | 13.036 | 105 | 24397  | 2.110   | ug/l   | 98     |
| 95) Naphthalene               | 15.133 | 128 | 7750   | 1.323   | ug/l # | 84     |

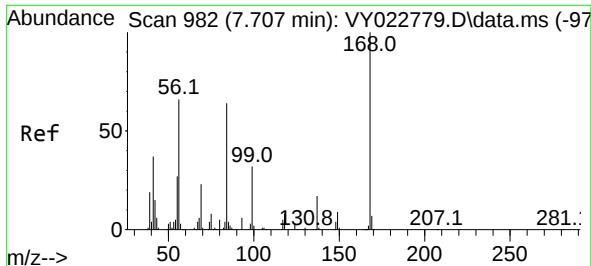
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
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Sample : Q2447-02  
Misc : 3.20g/5.0mL/MSVOA\_Y/SOIL/A  
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Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

Quant Time: Jul 01 03:39:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 24 08:29:52 2025  
Response via : Initial Calibration

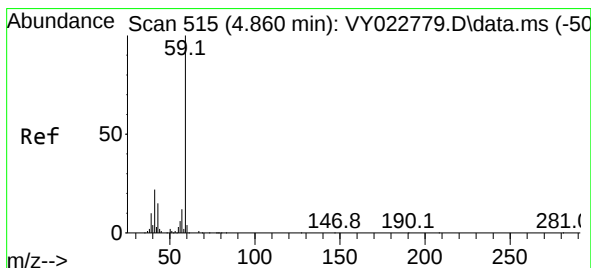
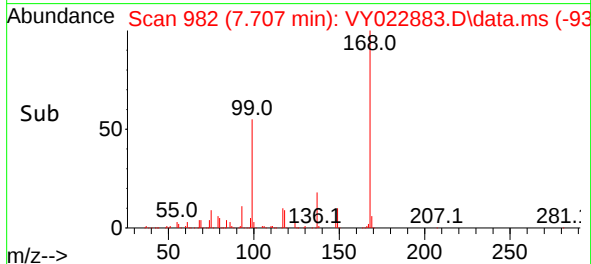
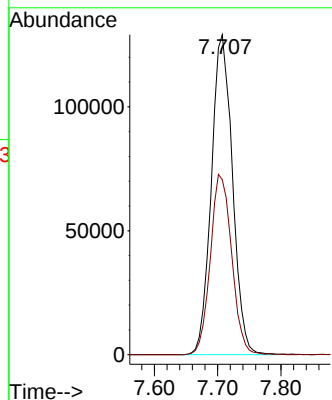
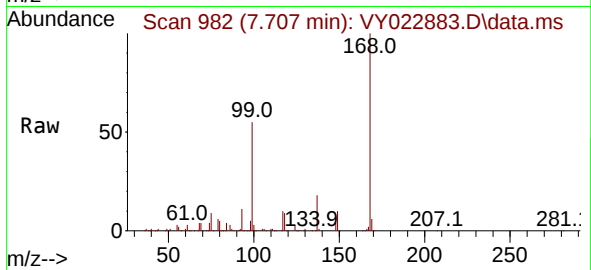




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

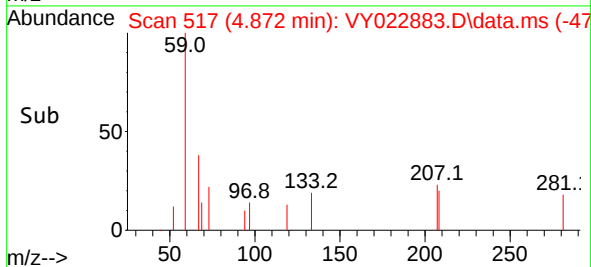
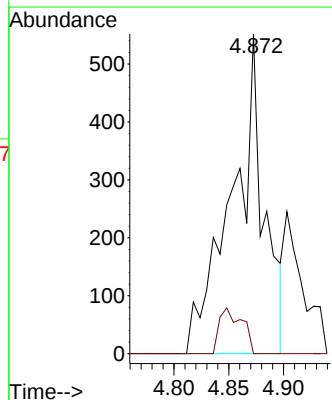
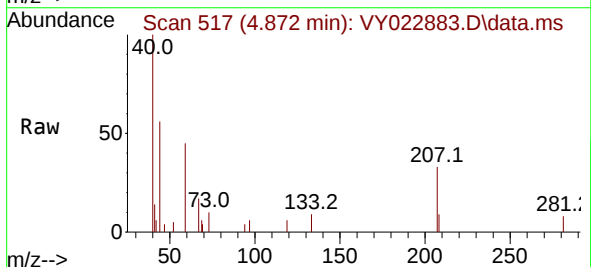
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

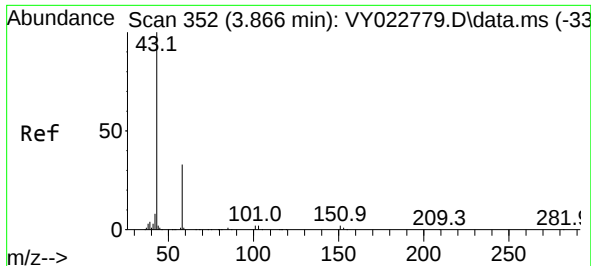
Tgt Ion:168 Resp: 298997  
Ion Ratio Lower Upper  
168 100  
99 54.6 44.3 66.5



#11  
Tert butyl alcohol  
Concen: 5.029 ug/l  
RT: 4.872 min Scan# 517  
Delta R.T. -0.012 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 59 Resp: 1116  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

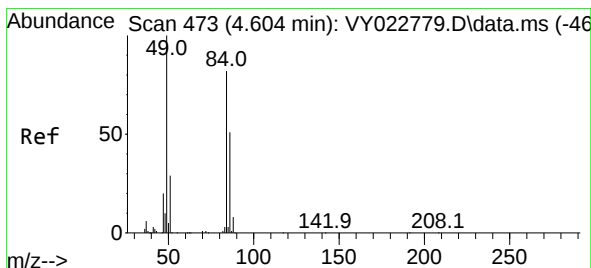
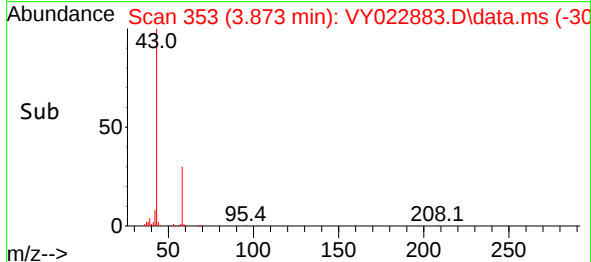
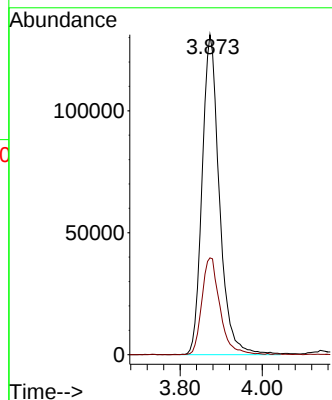
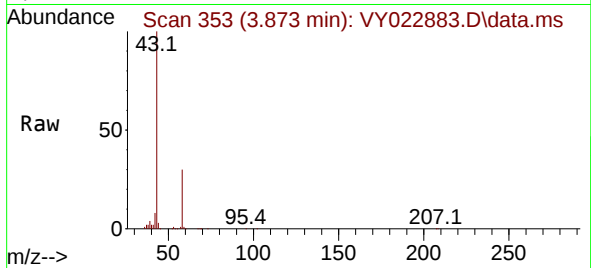




#16  
Acetone  
Concen: 606.357 ug/l  
RT: 3.873 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

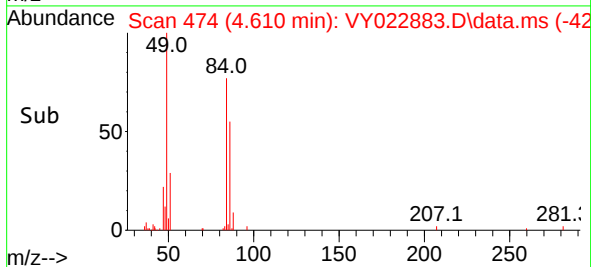
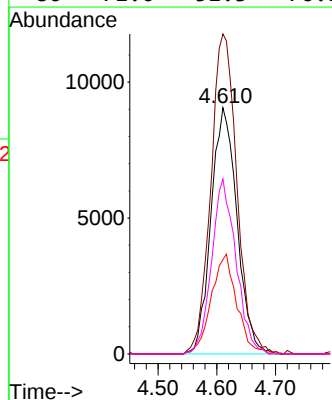
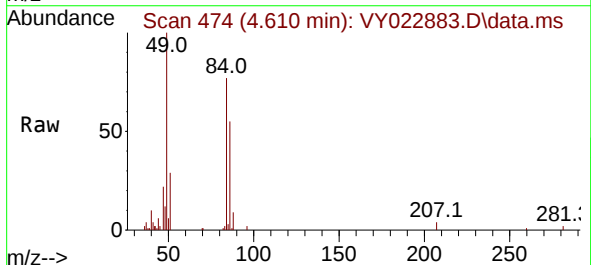
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

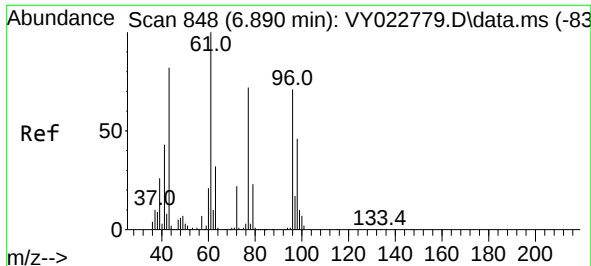
Tgt Ion: 43 Resp: 382453  
Ion Ratio Lower Upper  
43 100  
58 30.2 24.0 36.0



#20  
Methylene Chloride  
Concen: 6.995 ug/l  
RT: 4.610 min Scan# 474  
Delta R.T. -0.012 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 84 Resp: 27865  
Ion Ratio Lower Upper  
84 100  
49 129.9 101.9 152.9  
51 38.3 29.8 44.8  
86 71.0 51.3 76.9

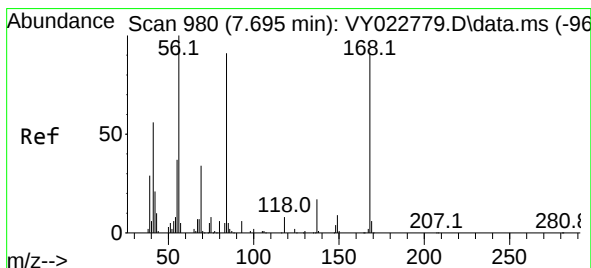
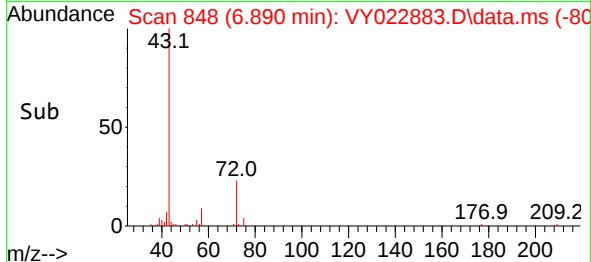
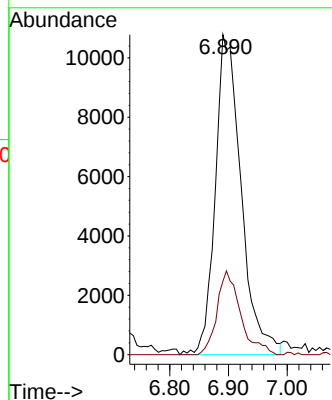
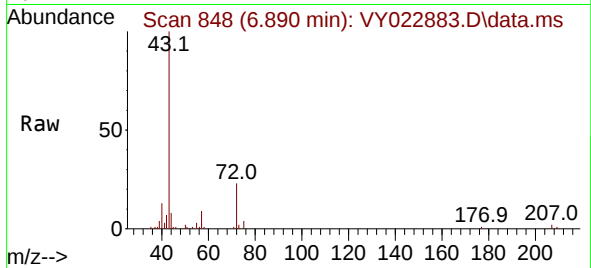




#25  
2-Butanone  
Concen: 35.914 ug/l  
RT: 6.890 min Scan# 848  
Delta R.T. -0.012 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

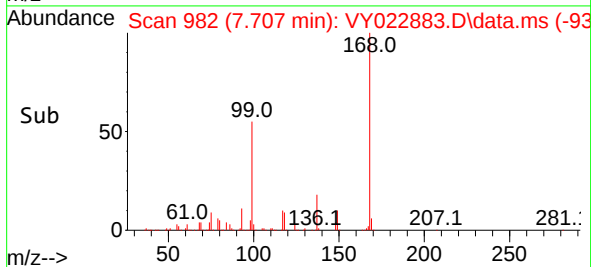
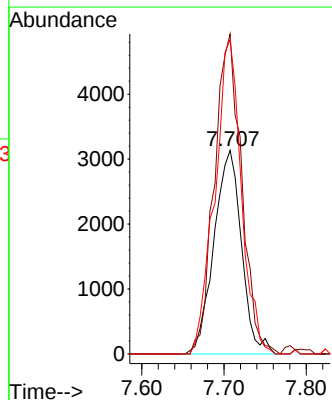
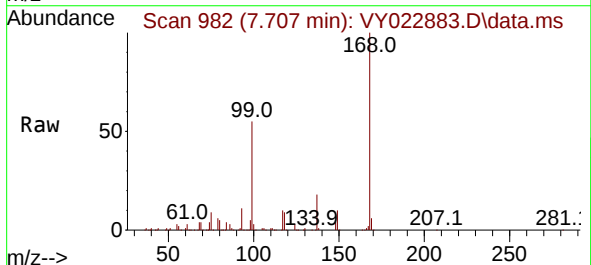
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

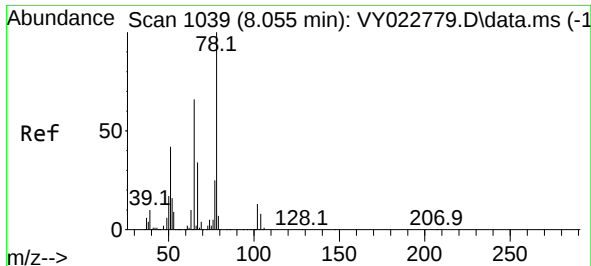
Tgt Ion: 43 Resp: 32969  
Ion Ratio Lower Upper  
43 100  
72 23.0 22.9 34.3



#31  
Cyclohexane  
Concen: 1.271 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 56 Resp: 7288  
Ion Ratio Lower Upper  
56 100  
69 157.3 27.0 40.6#  
84 154.5 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 50.949 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022883.D

Acq: 30 Jun 2025 16:25

Instrument :

MSVOA\_Y

ClientSampleId :

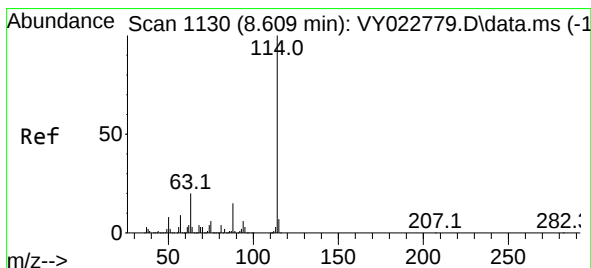
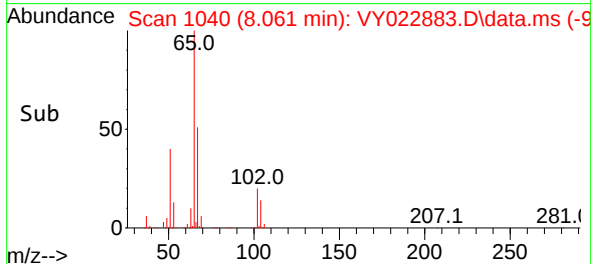
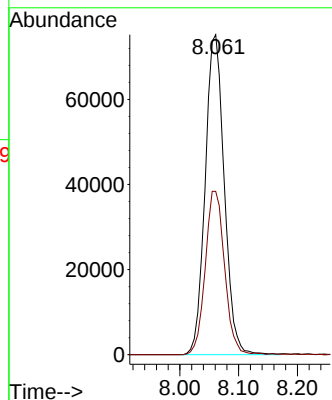
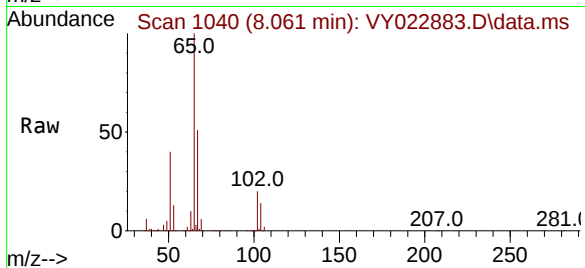
COMP-1

Tgt Ion: 65 Resp: 170023

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022883.D

Acq: 30 Jun 2025 16:25

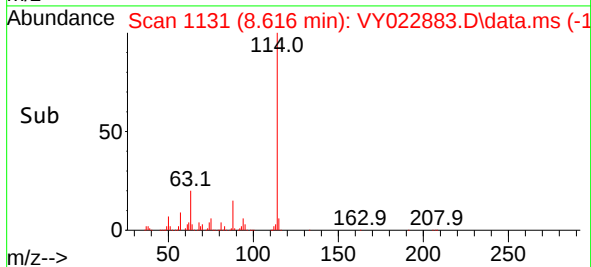
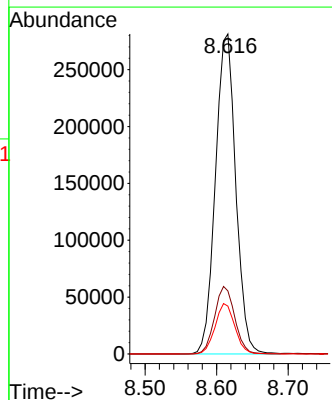
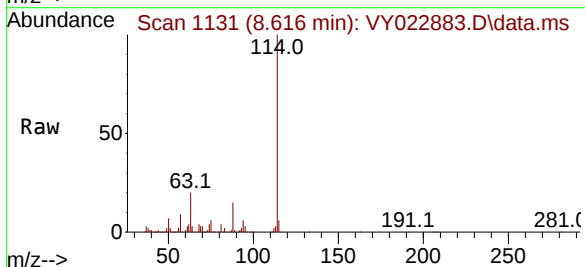
Tgt Ion:114 Resp: 555819

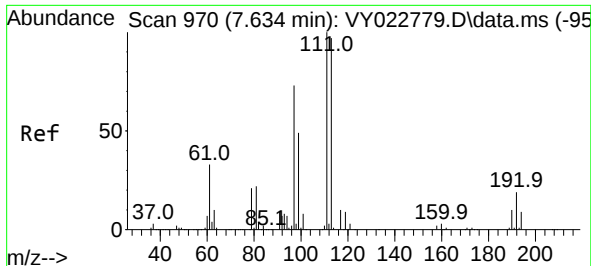
Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

88 15.0 0.0 27.8

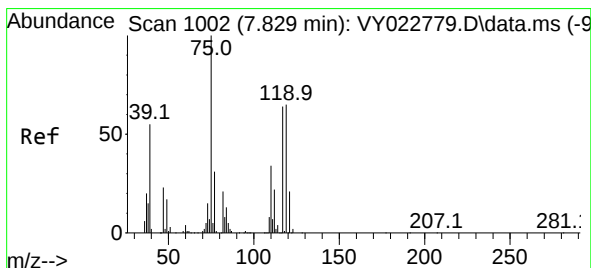
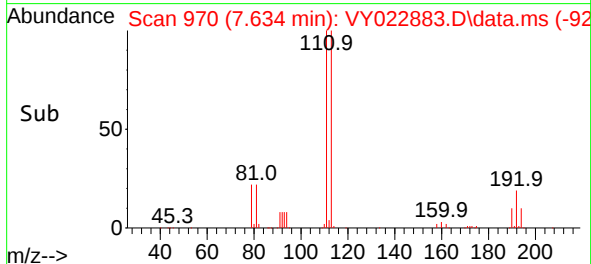
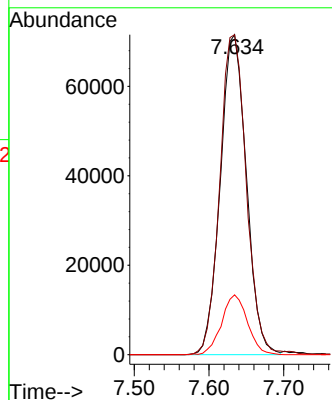
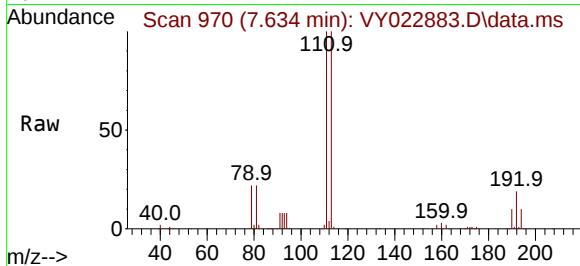




#35  
Dibromofluoromethane  
Concen: 51.416 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

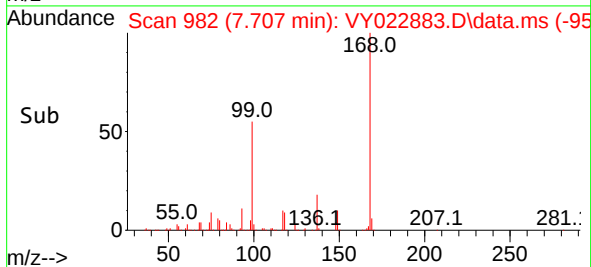
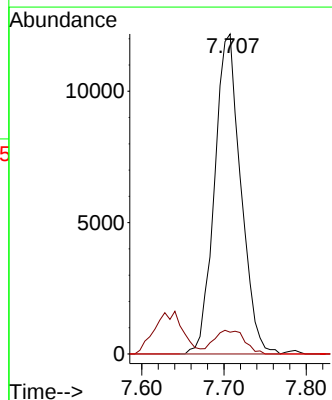
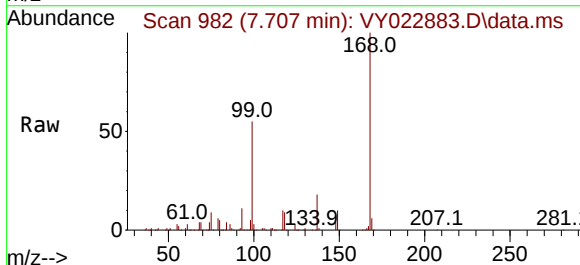
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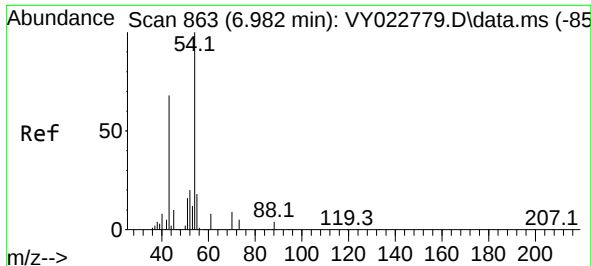
Tgt Ion:113 Resp: 173797  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.1 121.7  
192 18.6 14.2 21.2



#36  
1,1-Dichloropropene  
Concen: 5.271 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. -0.134 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 75 Resp: 27004  
Ion Ratio Lower Upper  
75 100  
110 8.7 16.9 50.7#  
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 14.912 ug/l

RT: 6.890 min Scan# 84

Delta R.T. -0.104 min

Lab File: VY022883.D

Acq: 30 Jun 2025 16:25

Instrument :

MSVOA\_Y

ClientSampleId :

COMP-1

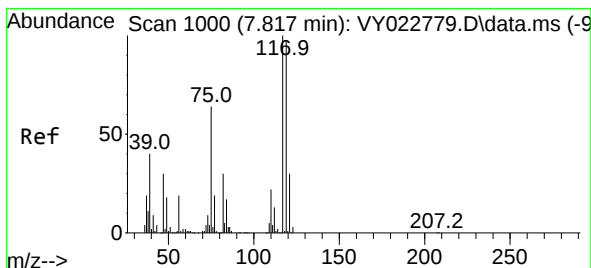
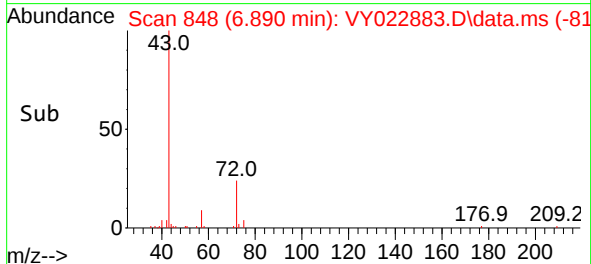
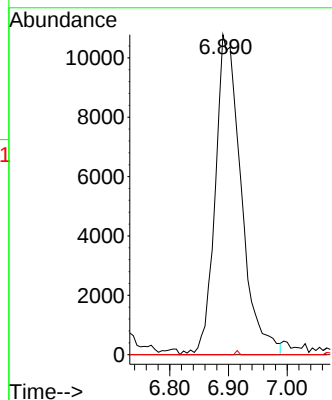
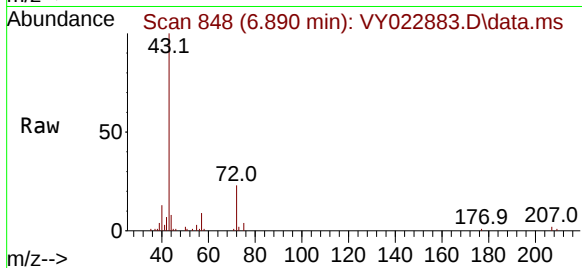
Tgt Ion: 43 Resp: 32969

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 7.2 10.8#



#38

Carbon Tetrachloride

Concen: 5.688 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022883.D

Acq: 30 Jun 2025 16:25

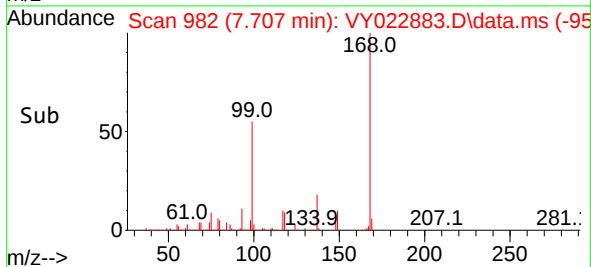
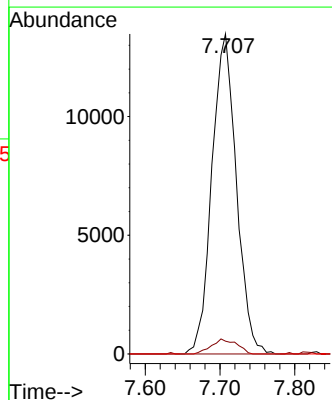
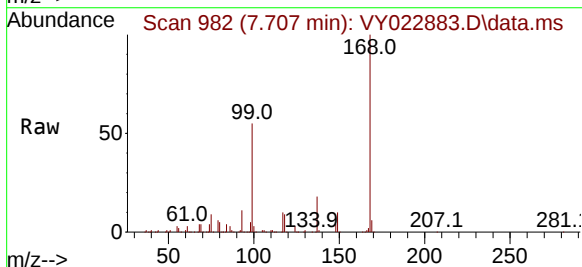
Tgt Ion: 117 Resp: 30748

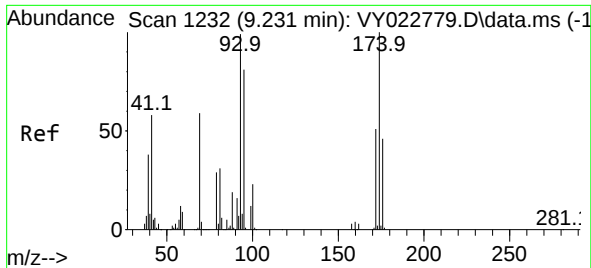
Ion Ratio Lower Upper

117 100

119 4.0 75.0 112.6#

121 0.0 25.0 37.4#

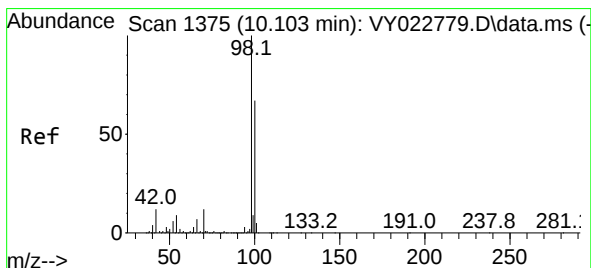
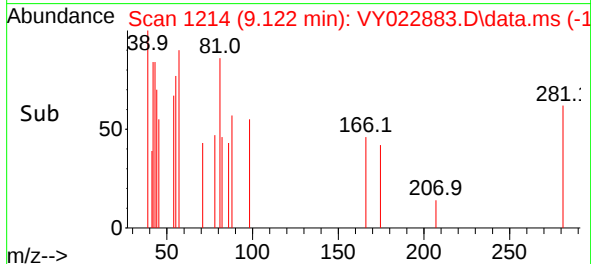
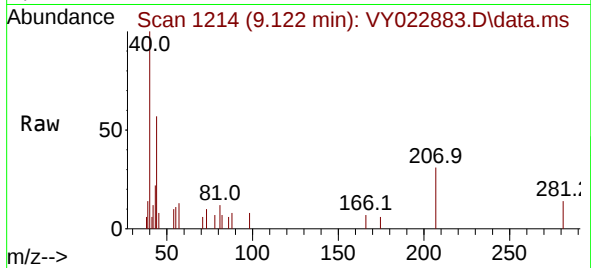




#49  
1,4-Dioxane  
Concen: 1.254 ug/l  
RT: 9.122 min Scan# 11  
Delta R.T. -0.122 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

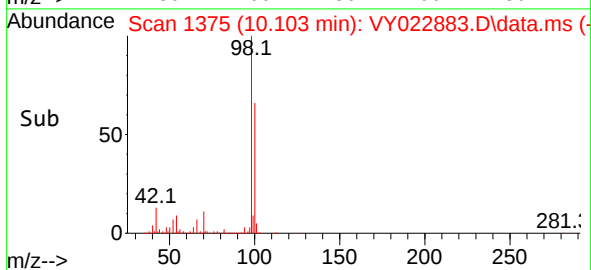
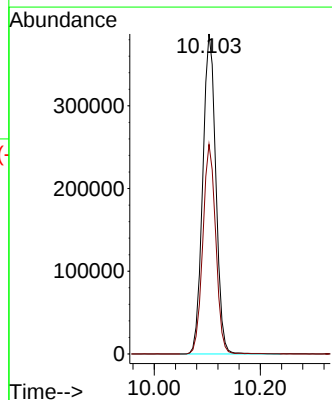
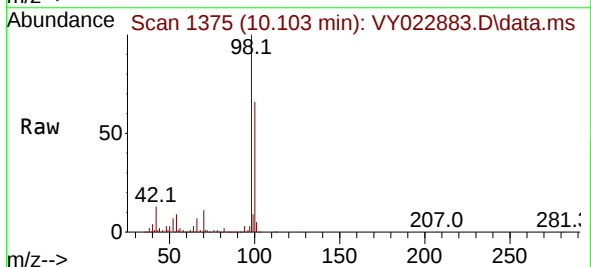
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

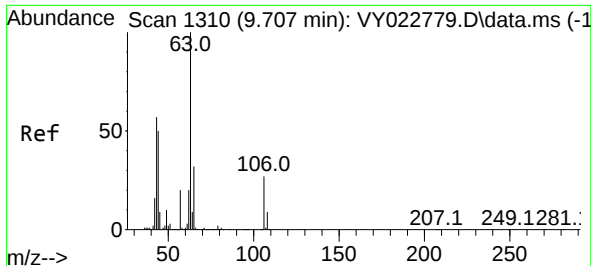
Tgt Ion: 88 Resp: 31  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.4 38.2#  
58 0.0 54.9 82.3#



#50  
Toluene-d8  
Concen: 49.410 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 98 Resp: 662747  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.4 77.0

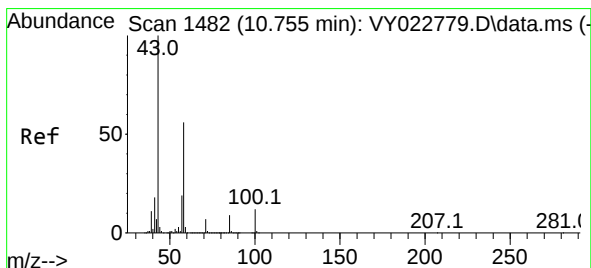
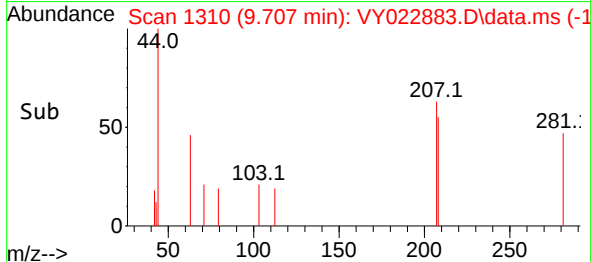
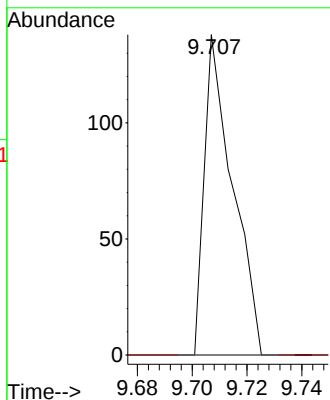
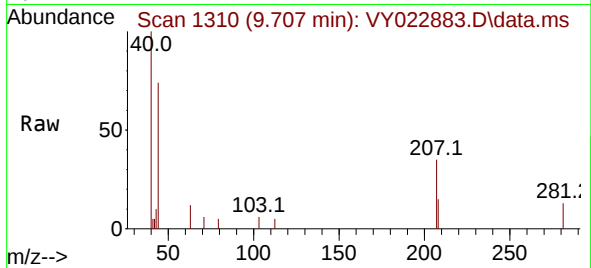




#58  
2-Chloroethyl Vinyl ether  
Concen: 15.704 ug/l  
RT: 9.707 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

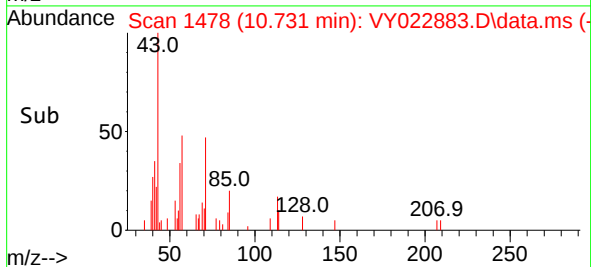
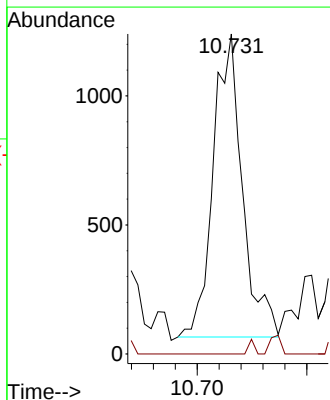
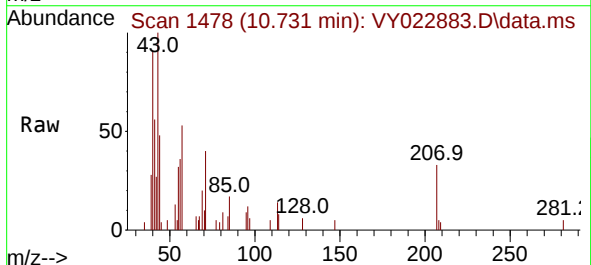
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

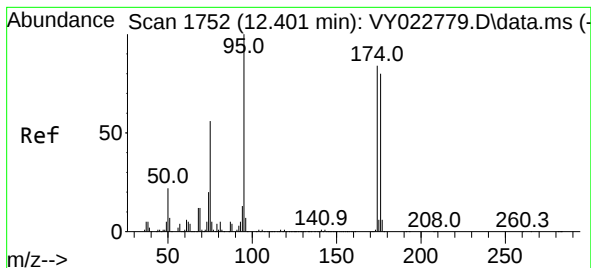
Tgt Ion: 63 Resp: 99  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.6 32.4#



#59  
2-Hexanone  
Concen: 1.366 ug/l  
RT: 10.731 min Scan# 1478  
Delta R.T. -0.030 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 43 Resp: 2168  
Ion Ratio Lower Upper  
43 100  
58 1.0 27.3 81.8#

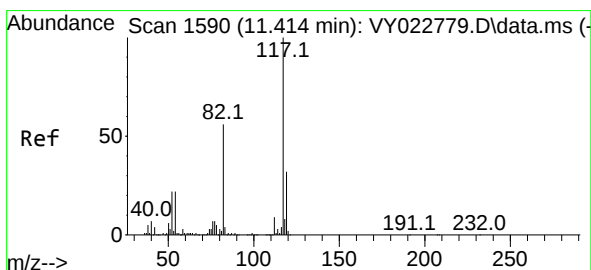
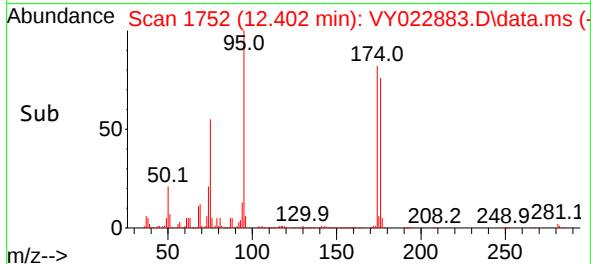
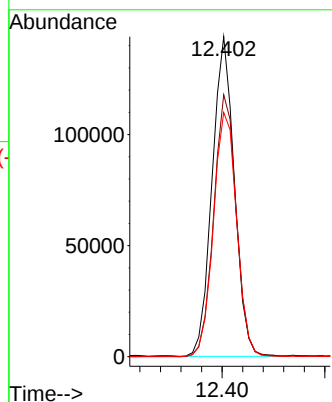
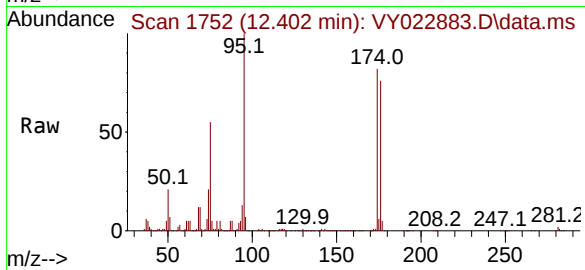




#62  
4-Bromofluorobenzene  
Concen: 49.908 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

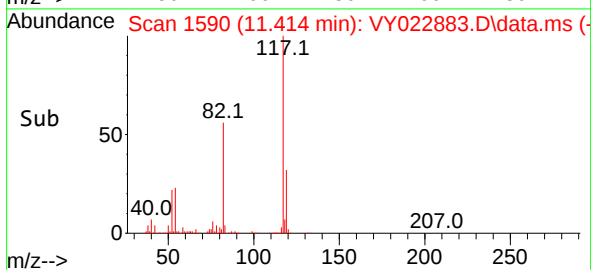
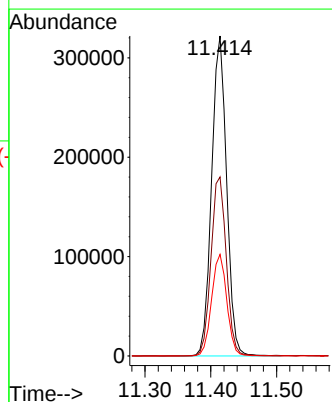
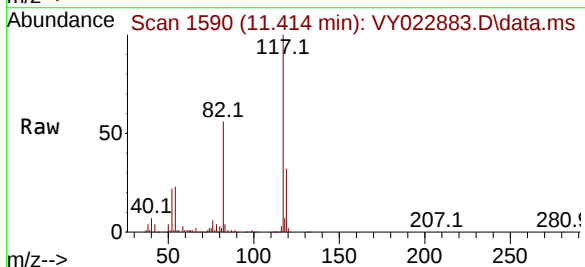
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

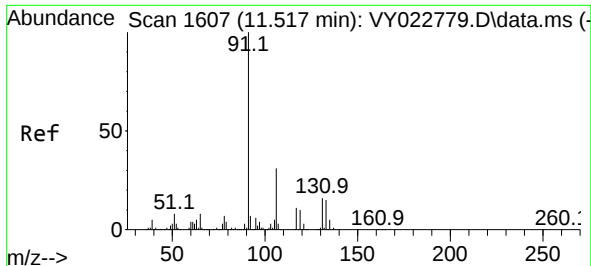
Tgt Ion: 95 Resp: 215200  
Ion Ratio Lower Upper  
95 100  
174 83.7 0.0 170.0  
176 80.2 0.0 166.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 117 Resp: 511023  
Ion Ratio Lower Upper  
117 100  
82 55.9 44.6 66.8  
119 31.8 25.4 38.0





#67

Ethyl Benzene

Concen: 3.124 ug/l

RT: 11.518 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY022883.D

Acq: 30 Jun 2025 16:25

Instrument :

MSVOA\_Y

ClientSampleId :

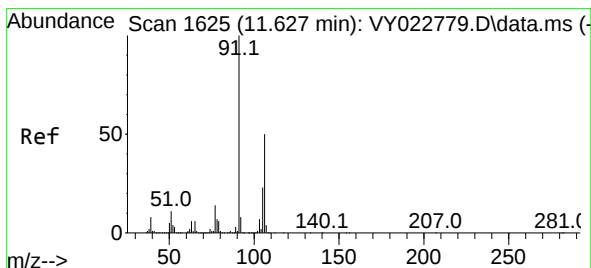
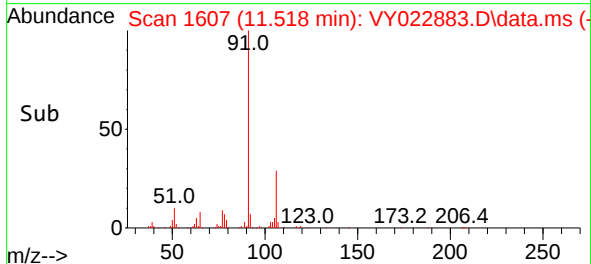
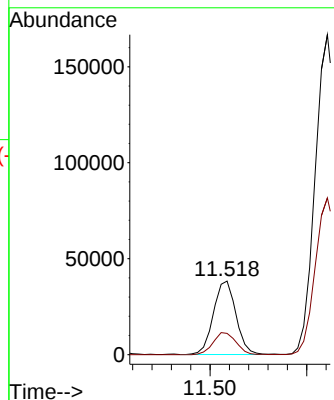
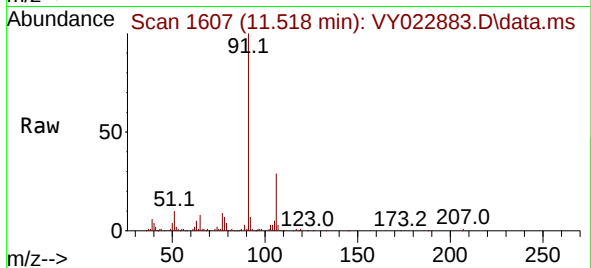
COMP-1

Tgt Ion: 91 Resp: 61642

Ion Ratio Lower Upper

91 100

106 29.0 24.2 36.4



#68

m/p-Xylenes

Concen: 18.562 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY022883.D

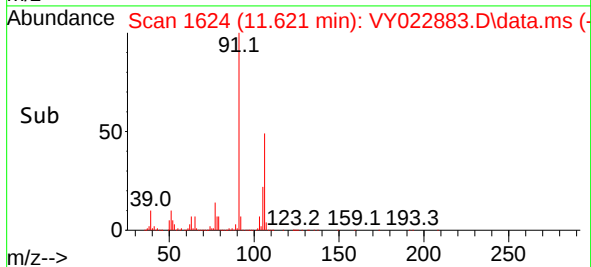
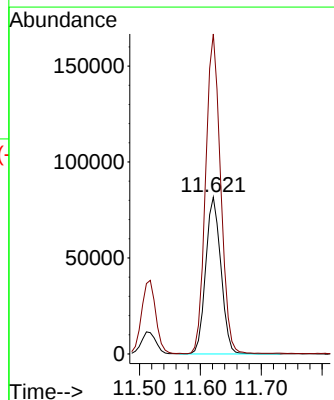
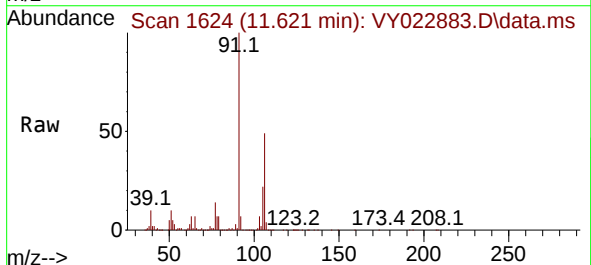
Acq: 30 Jun 2025 16:25

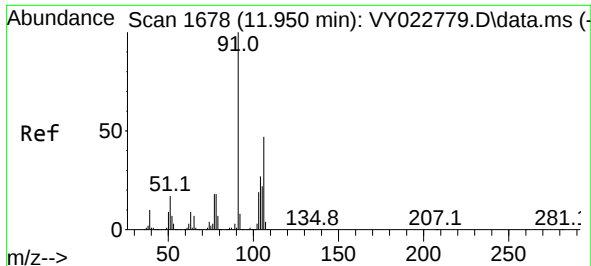
Tgt Ion: 106 Resp: 141564

Ion Ratio Lower Upper

106 100

91 201.0 159.4 239.0

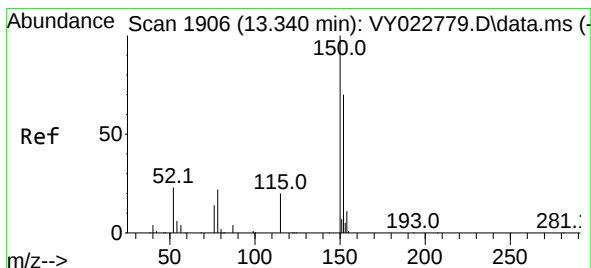
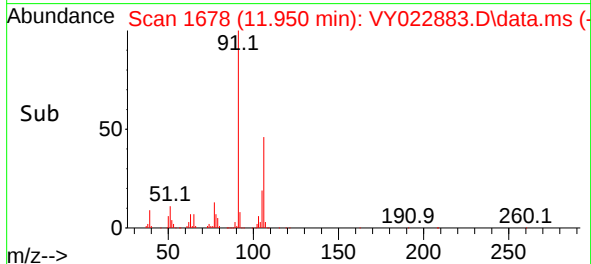
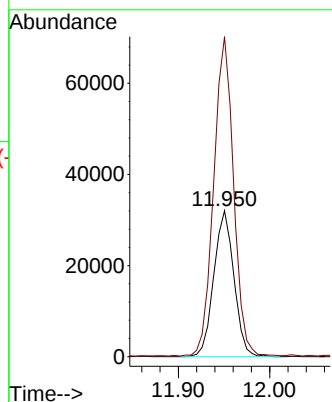
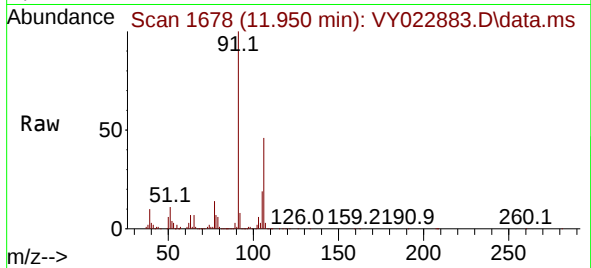




#69  
o-Xylene  
Concen: 6.808 ug/l  
RT: 11.950 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

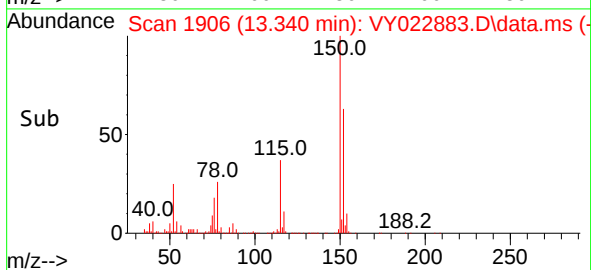
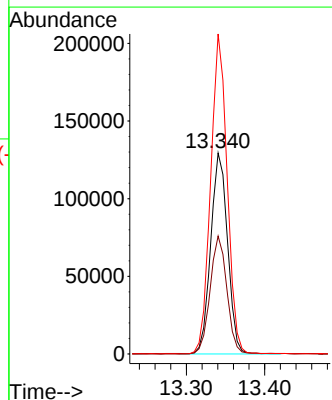
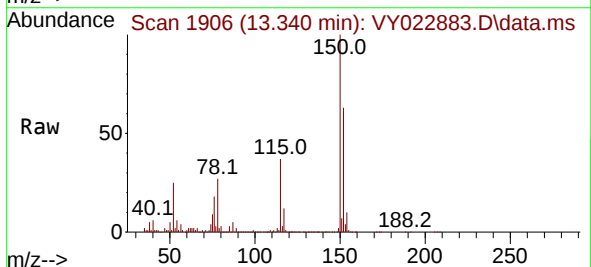
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

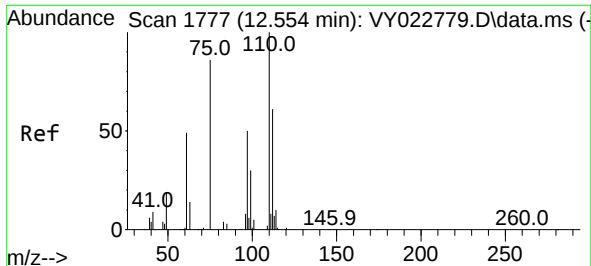
Tgt Ion:106 Resp: 48920  
Ion Ratio Lower Upper  
106 100  
91 216.4 105.8 317.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.340 min Scan# 1906  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion:152 Resp: 193412  
Ion Ratio Lower Upper  
152 100  
115 57.7 28.9 86.7  
150 156.1 0.0 349.6

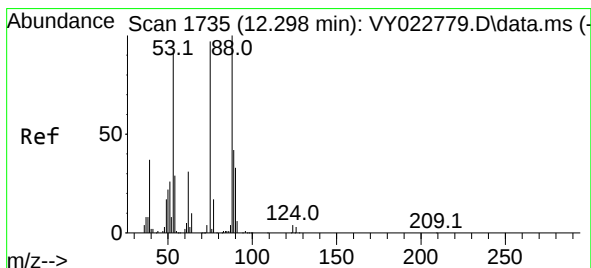
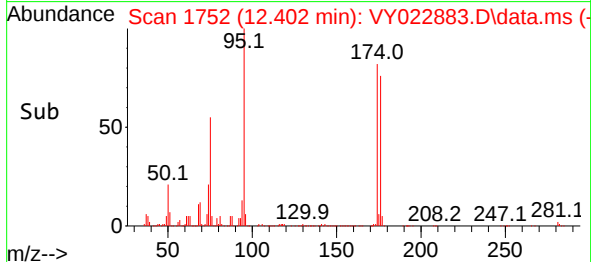
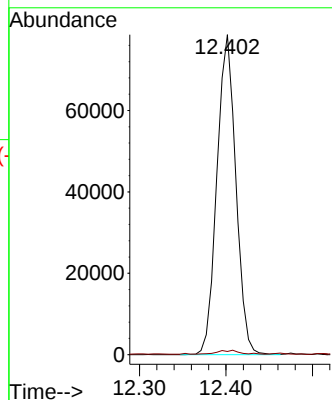
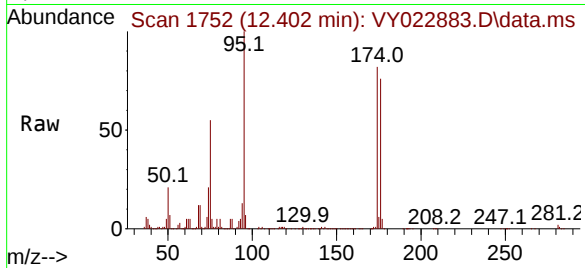




#76  
1,2,3-Trichloropropane  
Concen: 60.538 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.152 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

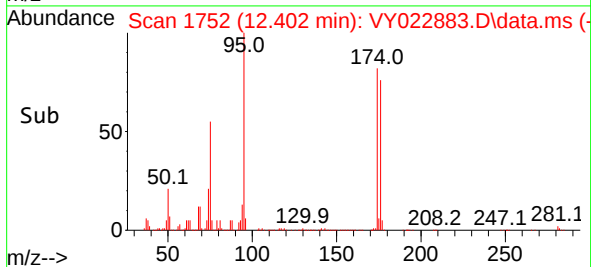
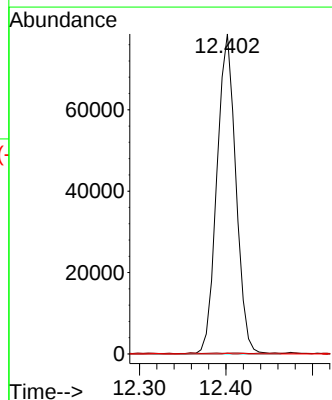
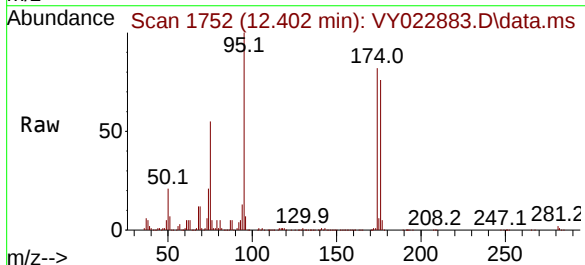
Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

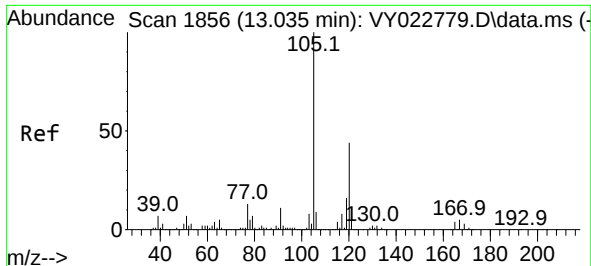
Tgt Ion: 75 Resp: 119536  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 152.942 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.098 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion: 75 Resp: 119536  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.5 117.7#  
89 0.1 35.7 53.5#

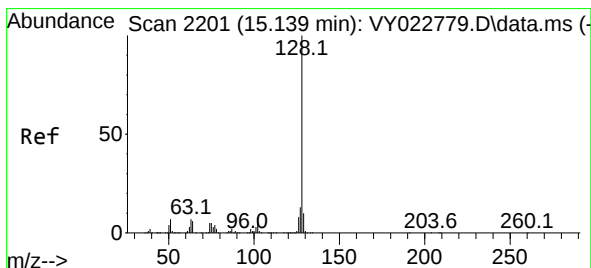
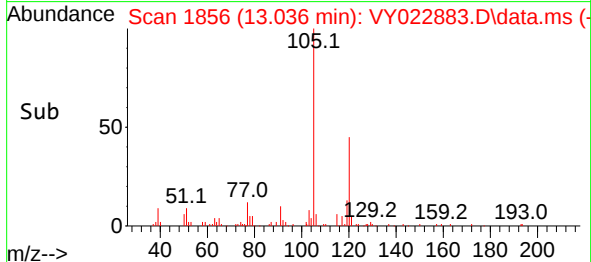
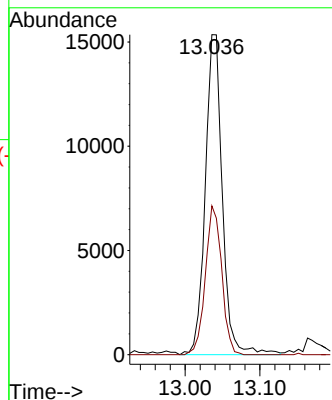
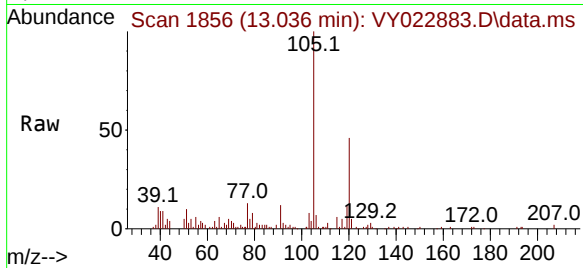




#84  
1,2,4-Trimethylbenzene  
Concen: 2.110 ug/l  
RT: 13.036 min Scan# 1856  
Delta R.T. -0.006 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Instrument :  
MSVOA\_Y  
ClientSampleId :  
COMP-1

Tgt Ion:105 Resp: 24397  
Ion Ratio Lower Upper  
105 100  
120 44.4 22.7 68.1



#95  
Naphthalene  
Concen: 1.323 ug/l  
RT: 15.133 min Scan# 2200  
Delta R.T. -0.012 min  
Lab File: VY022883.D  
Acq: 30 Jun 2025 16:25

Tgt Ion:128 Resp: 7750  
Ion Ratio Lower Upper  
128 100  
127 19.1 10.4 15.6#  
129 17.9 8.9 13.3#

