

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111323\  
 Data File : VN080070.D  
 Acq On : 13 Nov 2023 16:41  
 Operator : JC\MD  
 Sample : PB157075ZHE#11  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 14 19:25:24 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

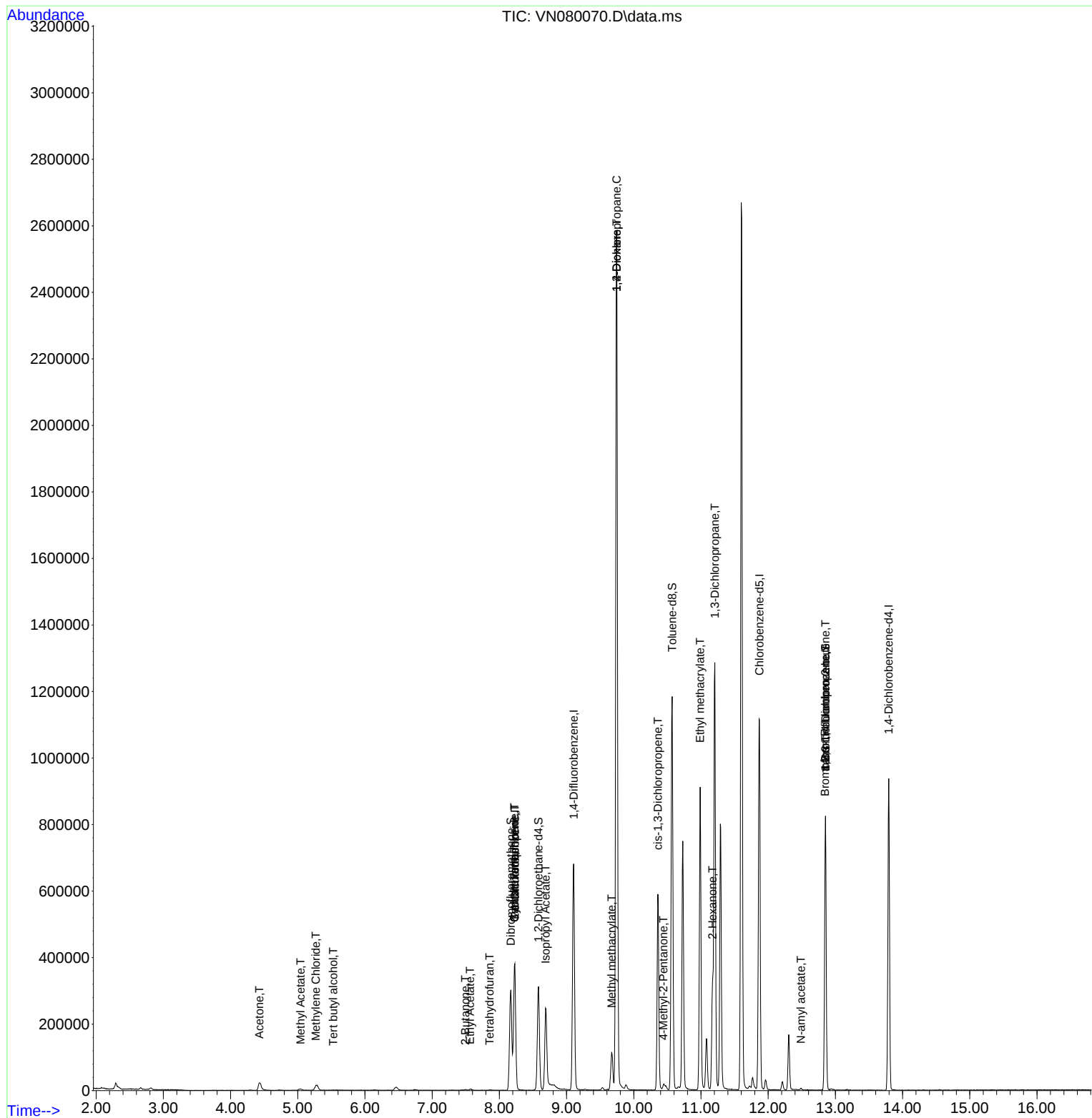
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 268403   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 571648   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 656317   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 245639   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 255779   | 62.550    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 125.100%# |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 217495   | 53.757    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 107.520%  |          |
| 50) Toluene-d8                | 10.571 | 98    | 811653   | 54.494    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 108.980%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 281349   | 56.956    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 113.920%  |          |
| Target Compounds              |        |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 2.365  | 50    | 560      | Below Cal | #           | 42       |
| 11) Tert butyl alcohol        | 5.530  | 59    | 123      | 0.236     | ug/l #      | 72       |
| 16) Acetone                   | 4.430  | 43    | 47012    | 32.730    | ug/l #      | 86       |
| 18) Methyl Acetate            | 5.042  | 43    | 7456     | 1.085     | ug/l #      | 83       |
| 20) Methylene Chloride        | 5.271  | 84    | 13138    | 3.625     | ug/l        | 95       |
| 25) 2-Butanone                | 7.494  | 43    | 3784     | 1.799     | ug/l        | 91       |
| 29) Tetrahydrofuran           | 7.853  | 42    | 879      | 0.642     | ug/l #      | 20       |
| 31) Cyclohexane               | 8.224  | 56    | 6603     | 1.222     | ug/l #      | 7        |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 23753    | 4.112     | ug/l #      | 49       |
| 37) Ethyl Acetate             | 7.565  | 43    | 5833     | 1.101     | ug/l #      | 89       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 29653    | 5.093     | ug/l #      | 15       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 272356   | 29.313    | ug/l #      | 82       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 3007     | 0.680     | ug/l #      | 45       |
| 48) Methyl methacrylate       | 9.671  | 41    | 7349     | 1.806     | ug/l #      | 3        |
| 49) 1,4-Dioxane               | 9.747  | 88    | 371      | 5.159     | ug/l #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 20822    | 3.981     | ug/l #      | 63       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 98209    | 14.274    | ug/l #      | 71       |
| 56) Ethyl methacrylate        | 10.988 | 69    | 5080     | 0.863     | ug/l #      | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 12917    | 1.776     | ug/l #      | 42       |
| 59) 2-Hexanone                | 11.171 | 43    | 247897   | 61.949    | ug/l #      | 19       |
| 71) Bromoform                 | 12.847 | 173   | 1630     | 0.448     | ug/l #      | 1        |
| 74) N-amyl acetate            | 12.488 | 43    | 2475     | 0.304     | ug/l #      | 40       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 152402   | 26.427    | ug/l #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 152402   | 71.902    | ug/l #      | 15       |

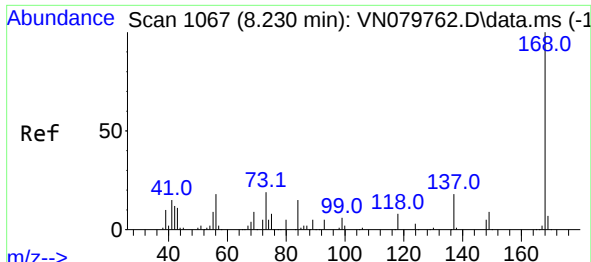
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111323\  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
Response via : Initial Calibration

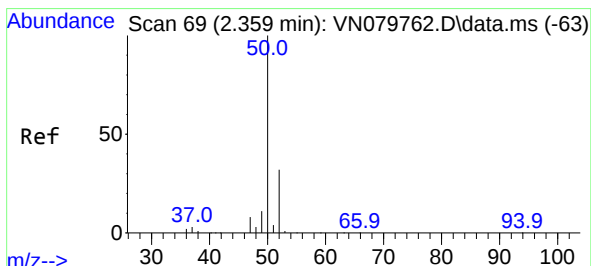
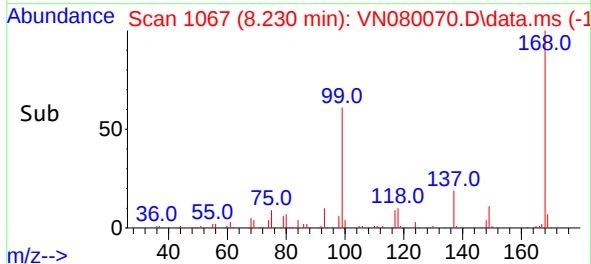
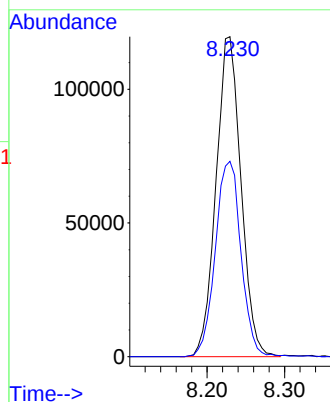
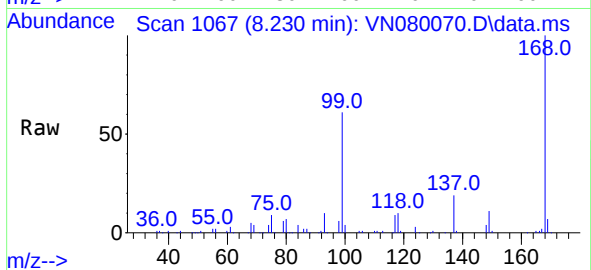




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. 0.001 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

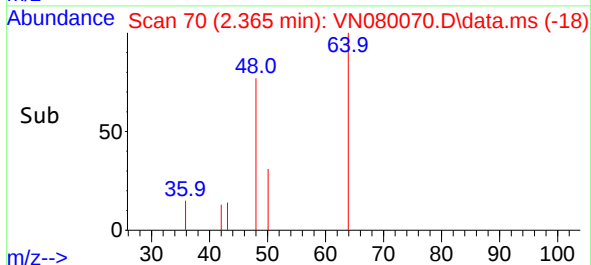
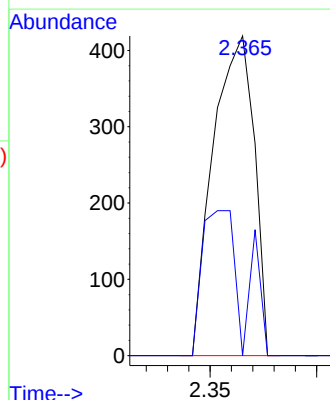
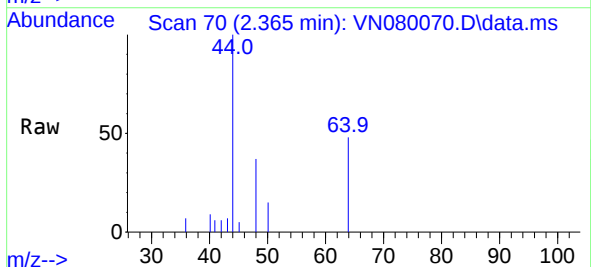
Instrument :  
MSVOA\_N  
ClientSampleId :

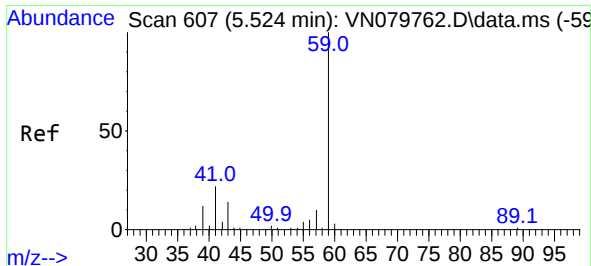
Tgt Ion:168 Resp: 268403  
Ion Ratio Lower Upper  
168 100  
99 61.1 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 50 Resp: 560  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.5 39.7#

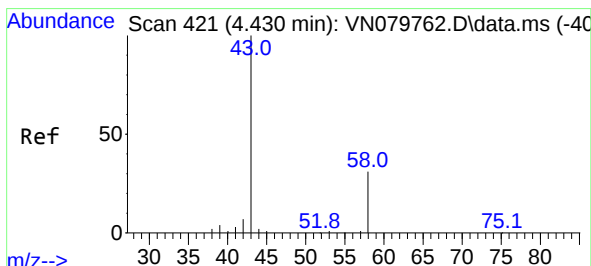
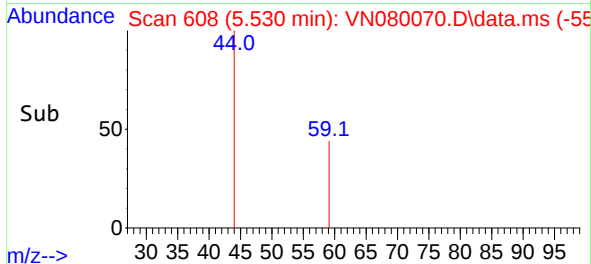
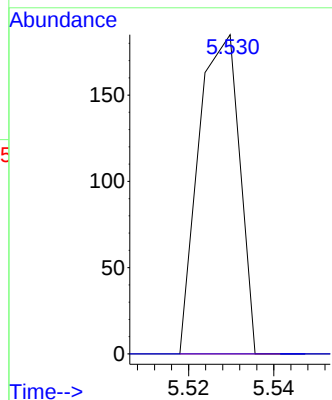
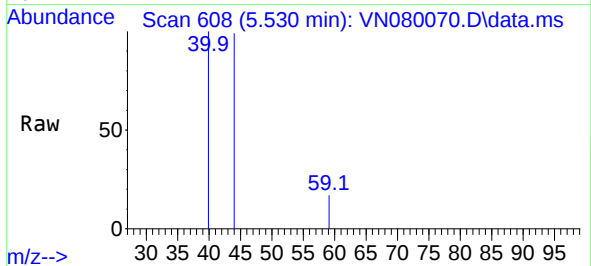




#11  
Tert butyl alcohol  
Concen: 0.236 ug/l  
RT: 5.530 min Scan# 607  
Delta R.T. 0.012 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

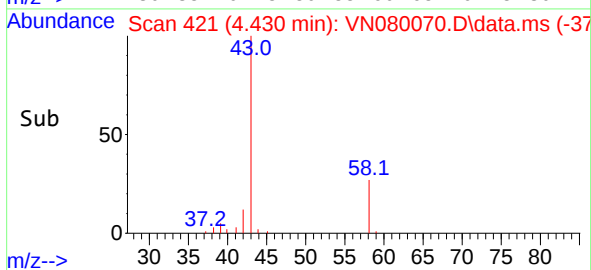
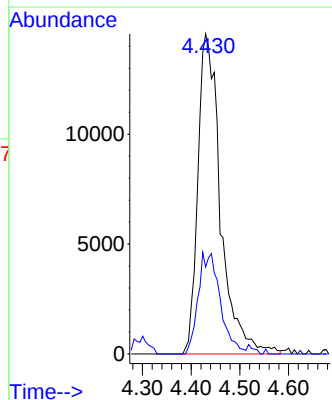
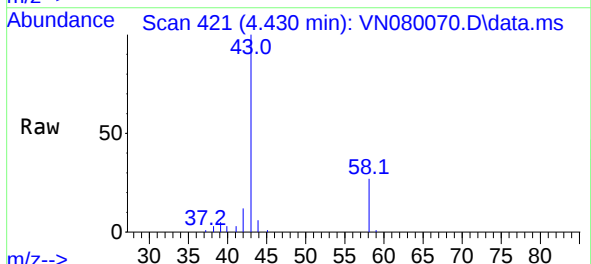
Instrument :  
MSVOA\_N  
ClientSampleId :

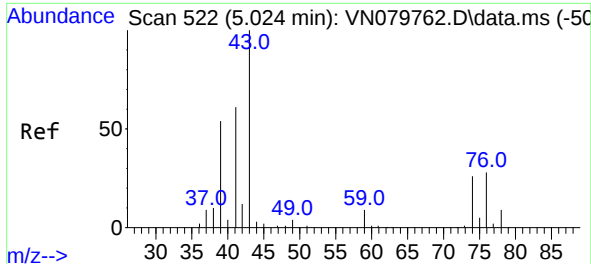
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Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 32.730 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 43 Resp: 47012  
Ion Ratio Lower Upper  
43 100  
58 27.1 28.0 42.0#

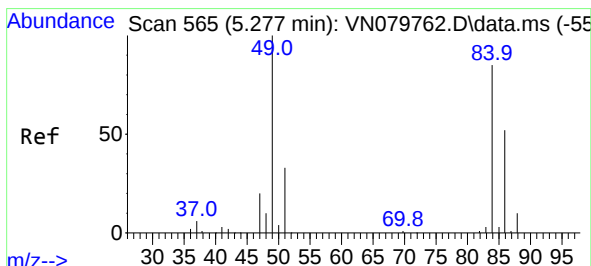
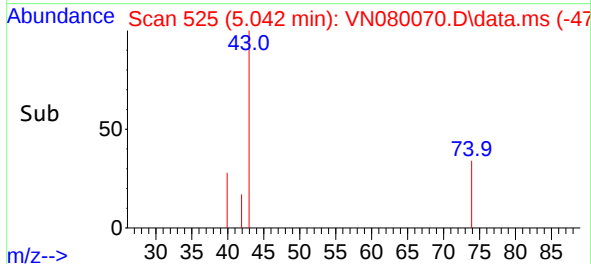
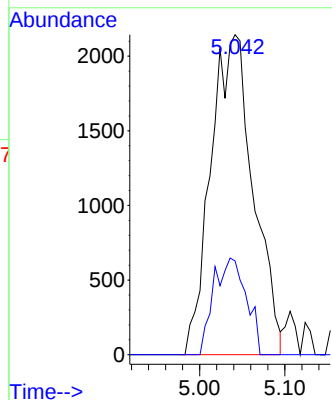
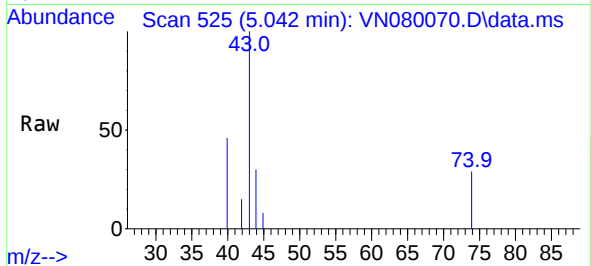




#18  
Methyl Acetate  
Concen: 1.085 ug/l  
RT: 5.042 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

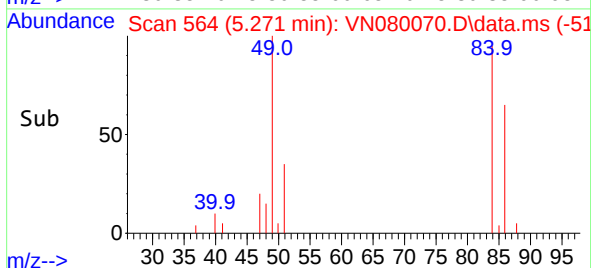
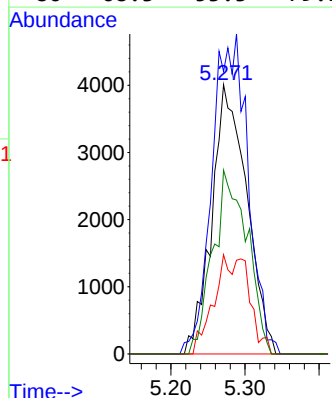
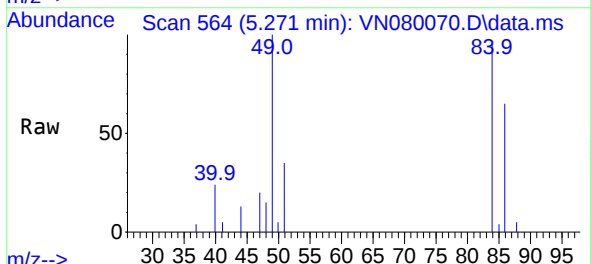
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MSVOA\_N  
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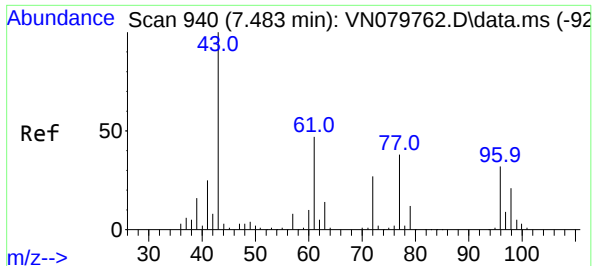
Tgt Ion: 43 Resp: 7456  
Ion Ratio Lower Upper  
43 100  
74 23.0 26.2 39.4#



#20  
Methylene Chloride  
Concen: 3.625 ug/l  
RT: 5.271 min Scan# 564  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 84 Resp: 13138  
Ion Ratio Lower Upper  
84 100  
49 104.9 79.7 119.5  
51 36.8 25.2 37.8  
86 68.3 53.3 79.9

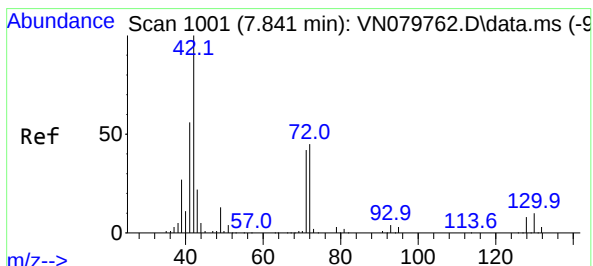
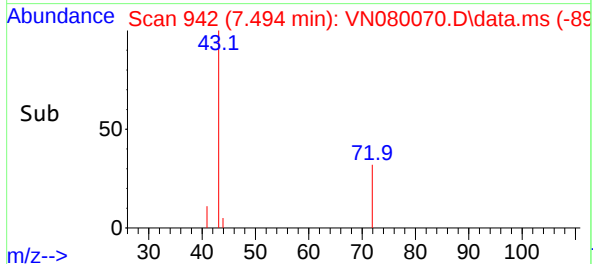
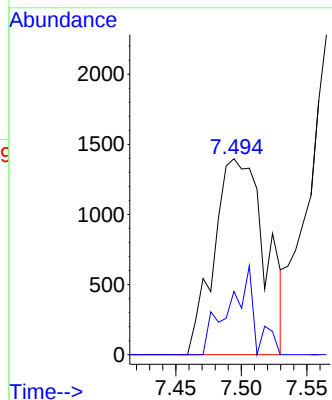
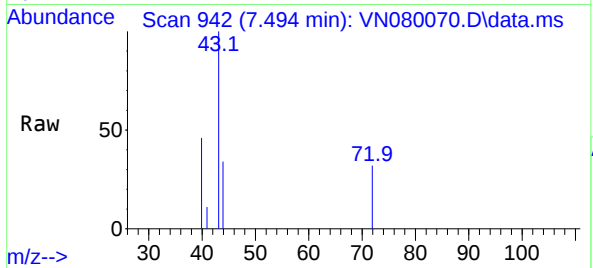




#25  
2-Butanone  
Concen: 1.799 ug/l  
RT: 7.494 min Scan# 940  
Delta R.T. 0.006 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

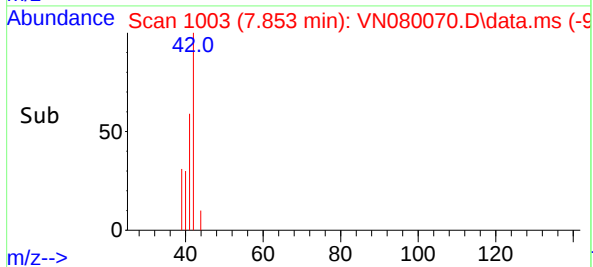
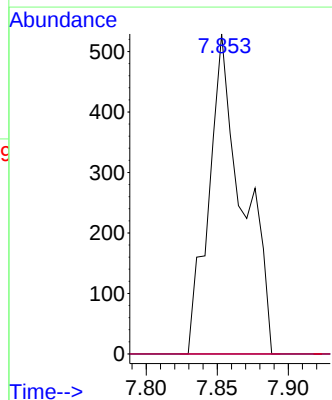
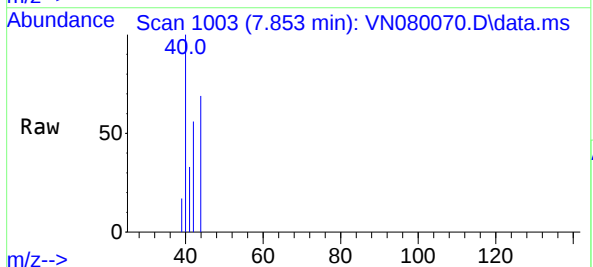
Instrument :  
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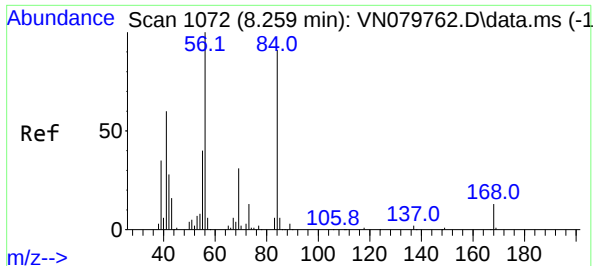
Tgt Ion: 43 Resp: 3784  
Ion Ratio Lower Upper  
43 100  
72 32.3 30.2 45.2



#29  
Tetrahydrofuran  
Concen: 0.642 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.012 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

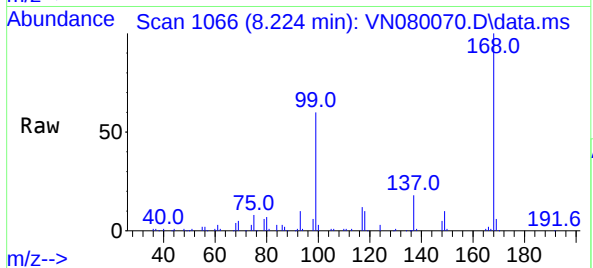
Tgt Ion: 42 Resp: 879  
Ion Ratio Lower Upper  
42 100  
72 0.0 49.8 74.6#  
71 0.0 47.4 71.2#



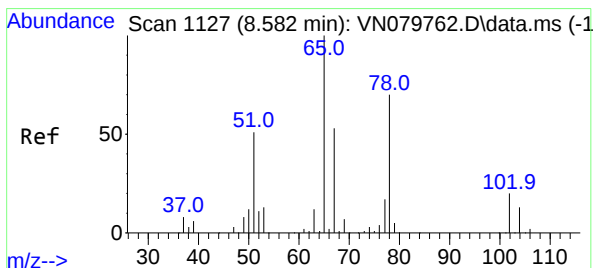
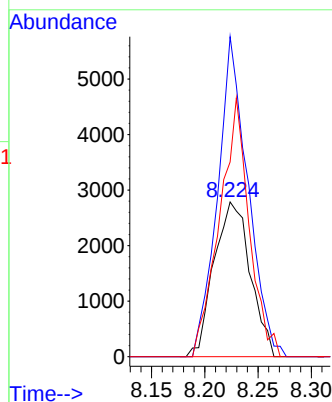
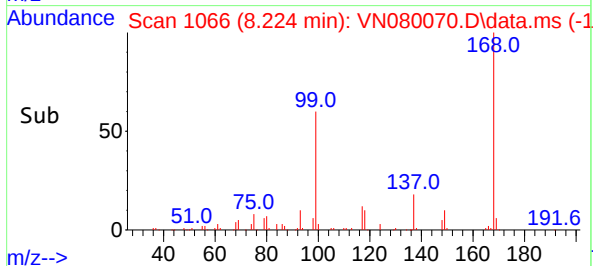


#31  
Cyclohexane  
Concen: 1.222 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :

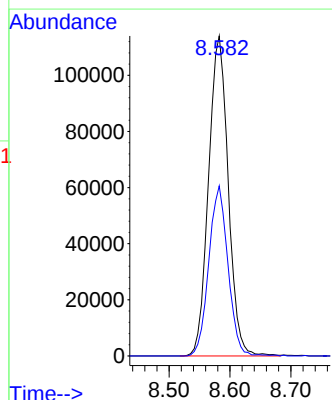
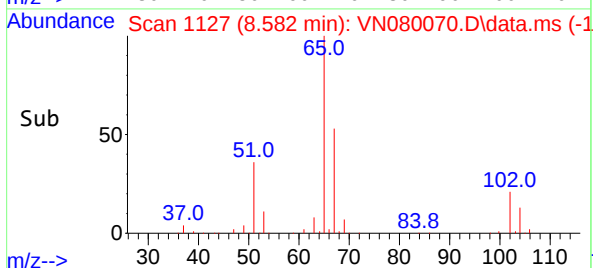
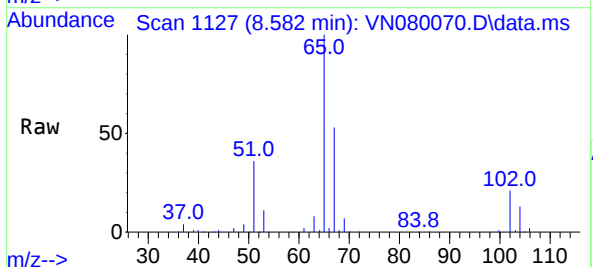


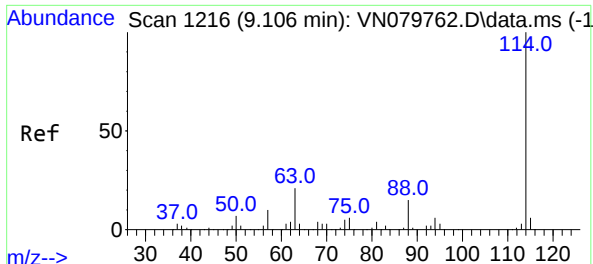
Tgt Ion: 56 Resp: 6603  
Ion Ratio Lower Upper  
56 100  
69 206.9 26.8 40.2#  
84 125.9 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 62.550 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 65 Resp: 255779  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 106.6

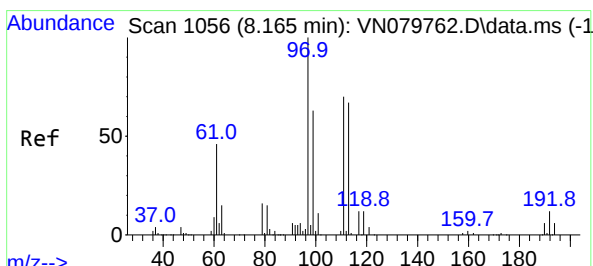
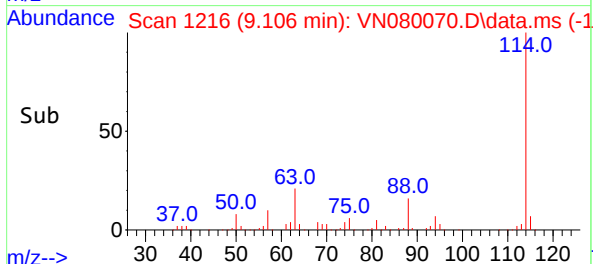
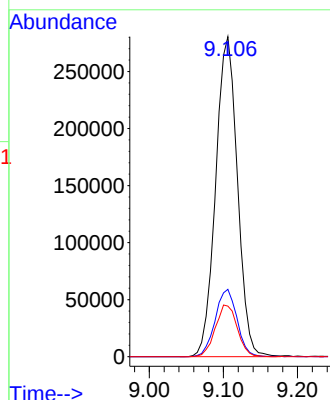
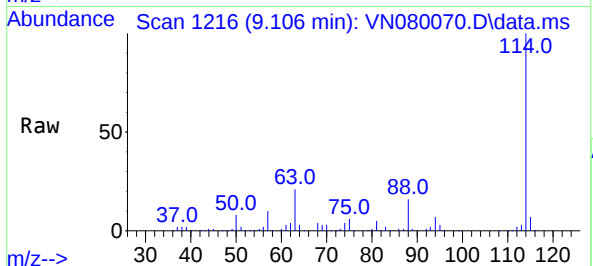




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

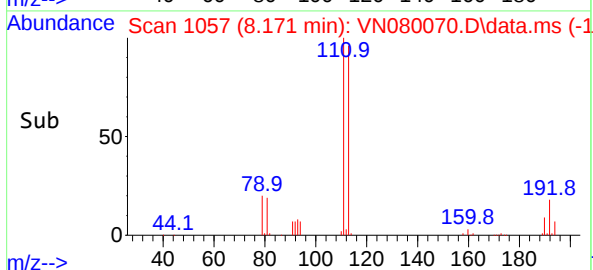
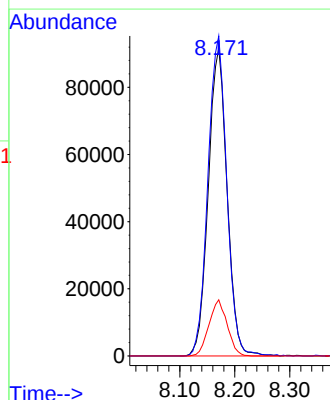
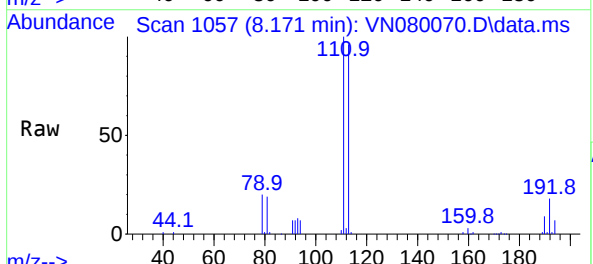
Instrument :  
MSVOA\_N  
ClientSampleId :

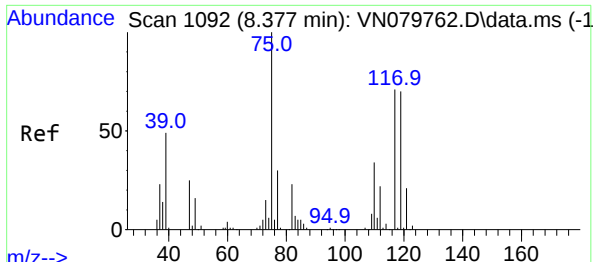
Tgt Ion:114 Resp: 571648  
Ion Ratio Lower Upper  
114 100  
63 21.1 0.0 36.4  
88 15.8 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 53.757 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

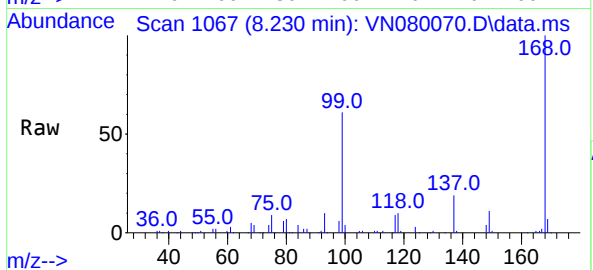
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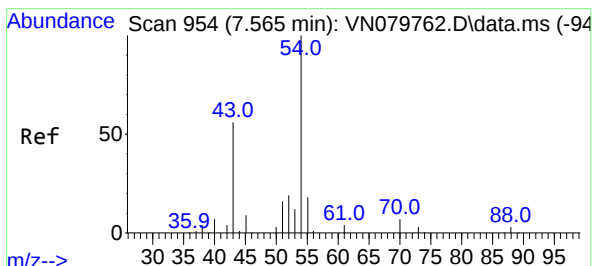
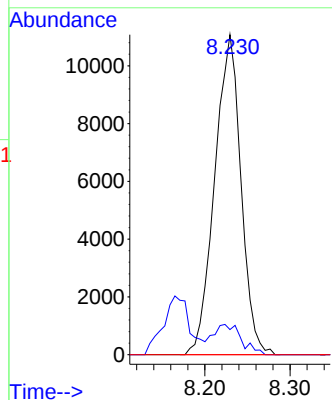
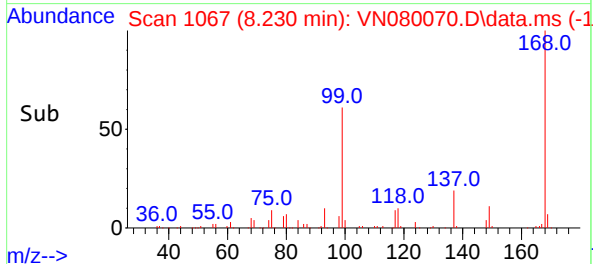


#36  
1,1-Dichloropropene  
Concen: 4.112 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.147 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :

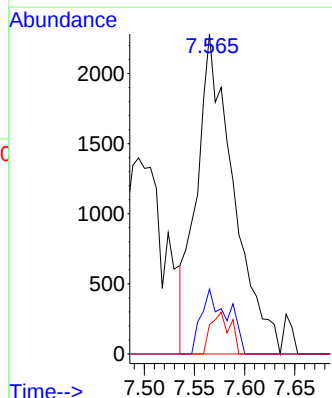
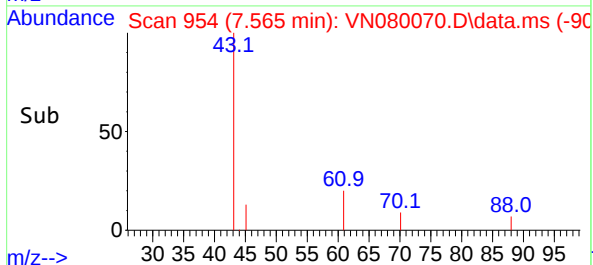
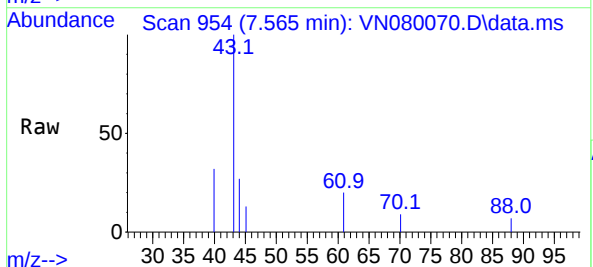


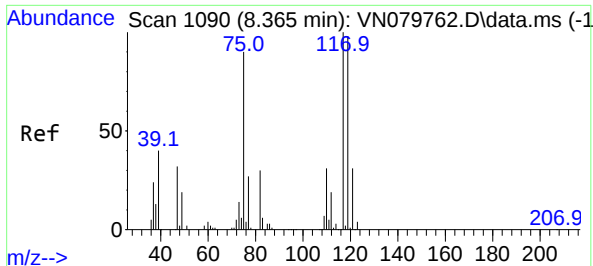
Tgt Ion: 75 Resp: 23753  
Ion Ratio Lower Upper  
75 100  
110 10.2 19.1 57.3#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 1.101 ug/l  
RT: 7.565 min Scan# 954  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

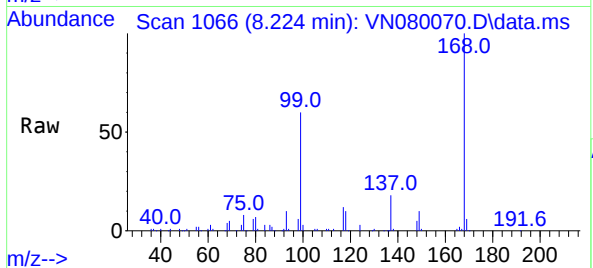
Tgt Ion: 43 Resp: 5833  
Ion Ratio Lower Upper  
43 100  
61 14.5 13.2 19.8  
70 6.9 11.3 16.9#



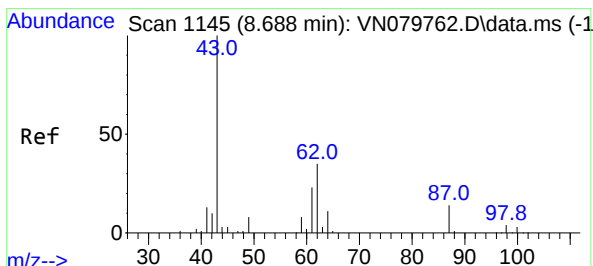
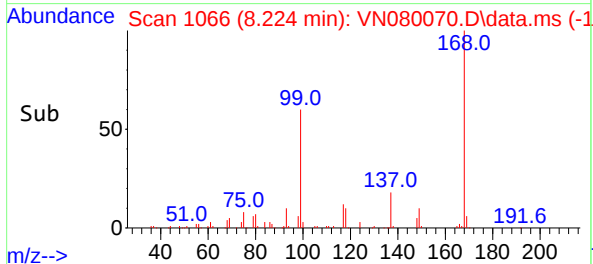
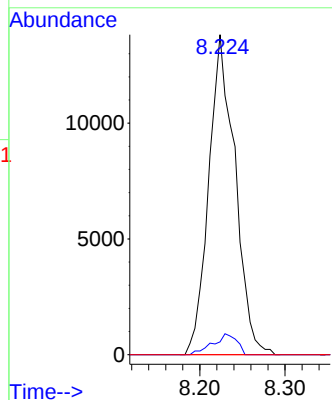


#38  
Carbon Tetrachloride  
Concen: 5.093 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :

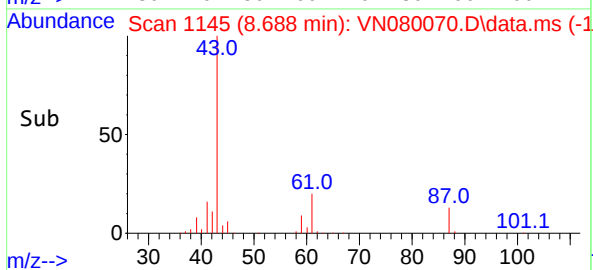
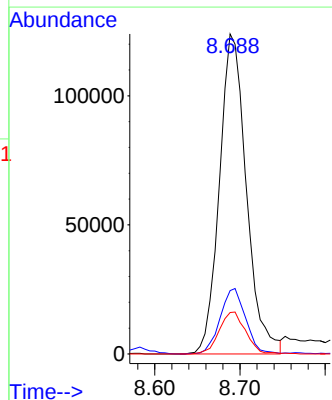
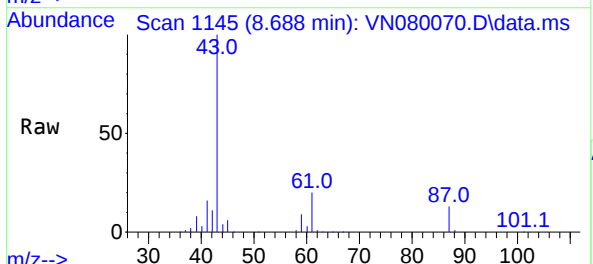


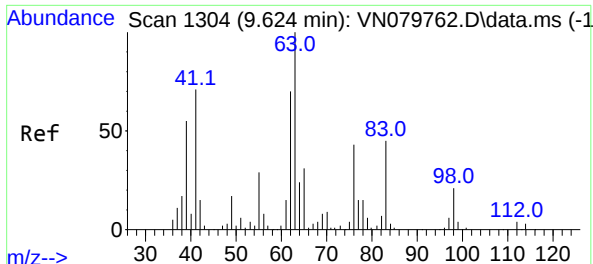
Tgt Ion:117 Resp: 29653  
Ion Ratio Lower Upper  
117 100  
119 4.0 77.3 115.9#  
121 0.0 23.3 34.9#



#43  
Isopropyl Acetate  
Concen: 29.313 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 43 Resp: 272356  
Ion Ratio Lower Upper  
43 100  
61 19.4 24.7 37.1#  
87 12.9 14.6 21.8#

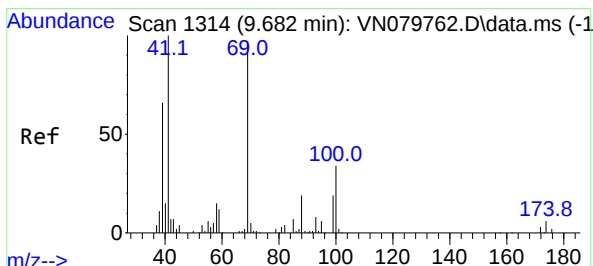
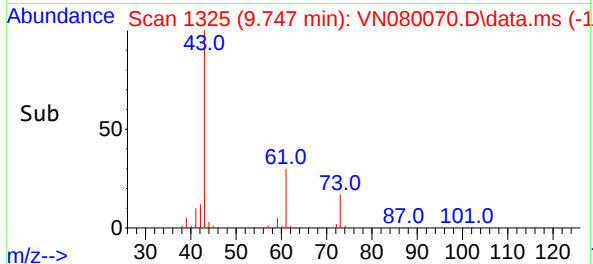
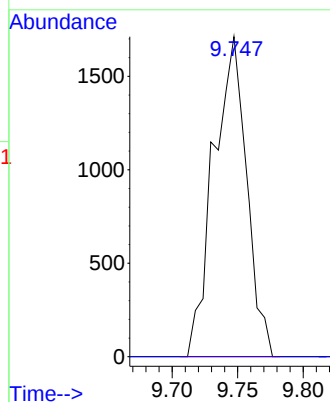
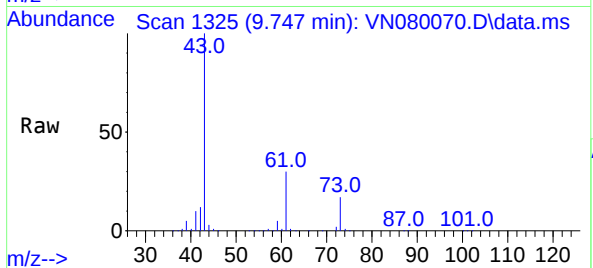




#45  
1,2-Dichloropropane  
Concen: 0.680 ug/l  
RT: 9.747 min Scan# 11  
Delta R.T. 0.124 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

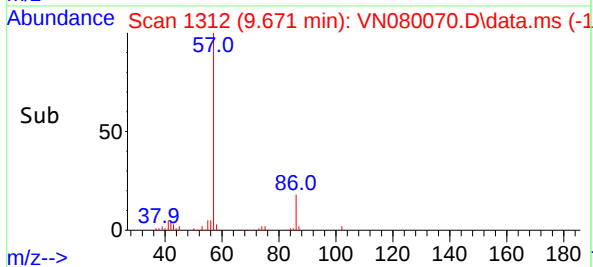
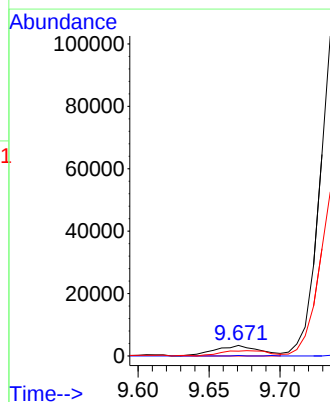
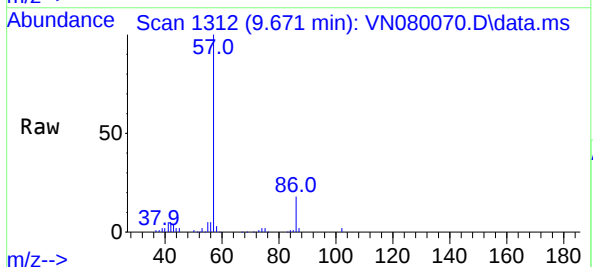
Instrument :  
MSVOA\_N  
ClientSampleId :

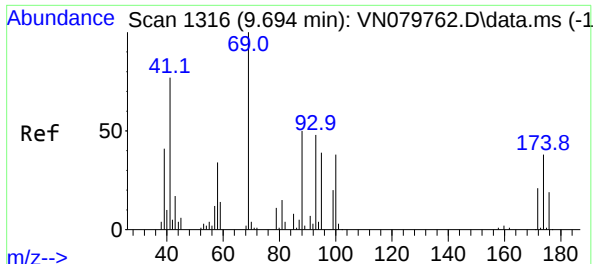
Tgt Ion: 63 Resp: 3007  
Ion Ratio Lower Upper  
63 100  
65 0.0 23.9 35.9#



#48  
Methyl methacrylate  
Concen: 1.806 ug/l  
RT: 9.671 min Scan# 1312  
Delta R.T. -0.012 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 41 Resp: 7349  
Ion Ratio Lower Upper  
41 100  
69 0.8 90.4 135.6#  
39 0.0 54.6 81.8#

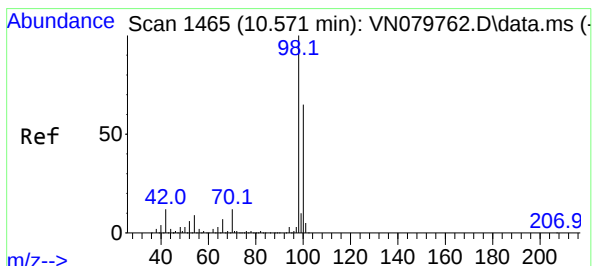
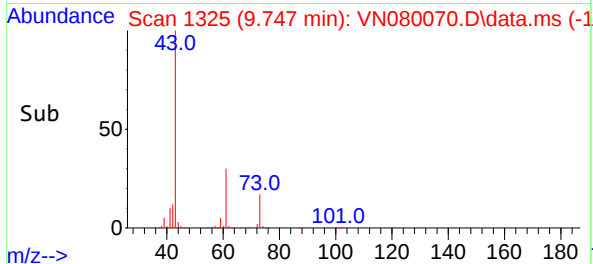
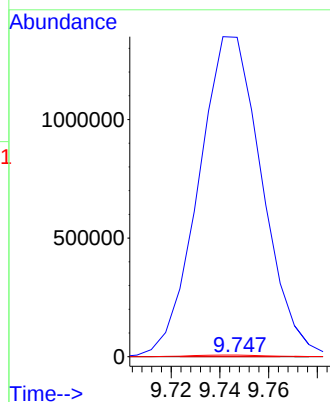
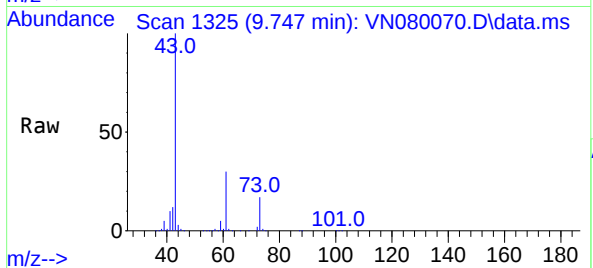




#49  
1,4-Dioxane  
Concen: 5.159 ug/l  
RT: 9.747 min Scan# 11  
Delta R.T. 0.053 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

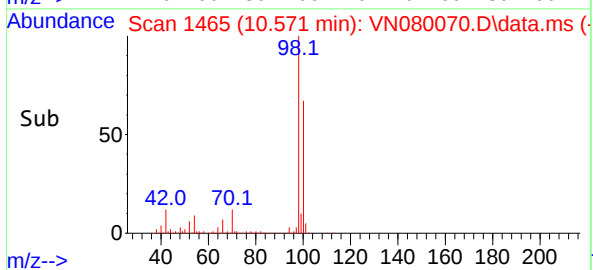
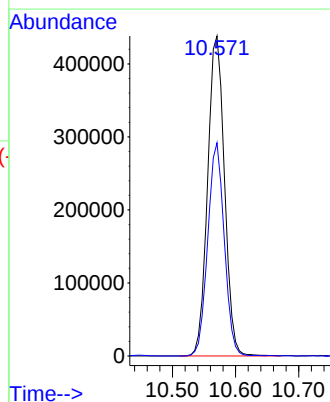
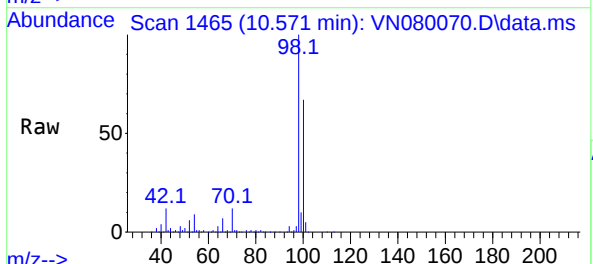
Instrument :  
MSVOA\_N  
ClientSampleId :

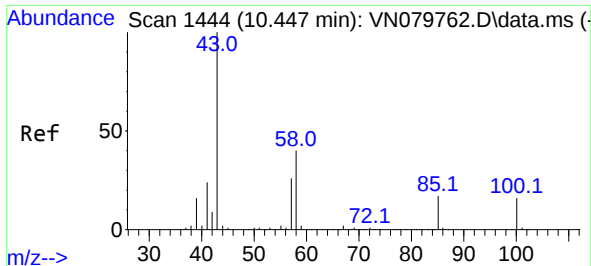
Tgt Ion: 88 Resp: 371  
Ion Ratio Lower Upper  
88 100  
43 665787.6 17.0 25.6#  
58 3914.0 47.0 70.4#



#50  
Toluene-d8  
Concen: 54.494 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 98 Resp: 811653  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.0 78.0

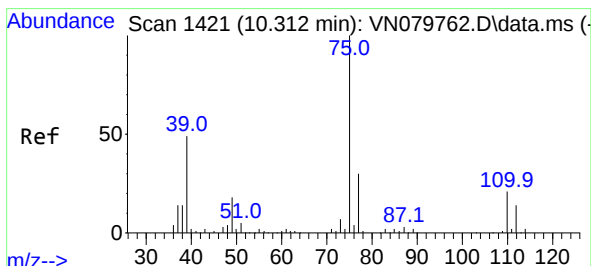
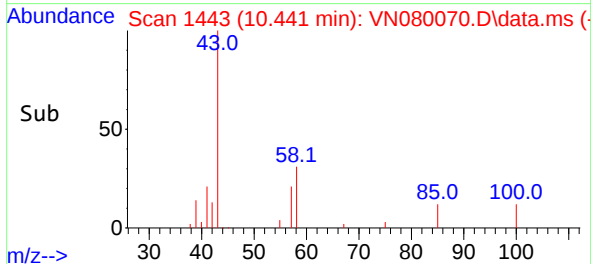
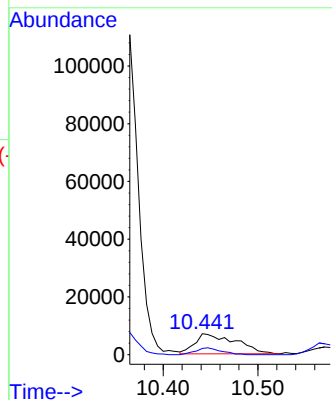
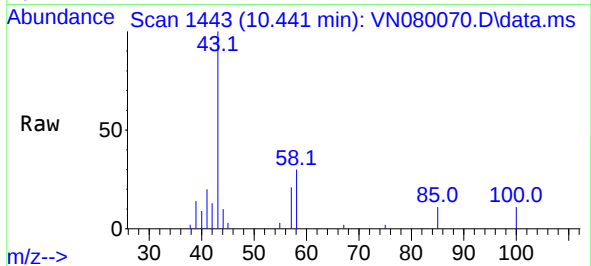




#51  
4-Methyl-2-Pentanone  
Concen: 3.981 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.006 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

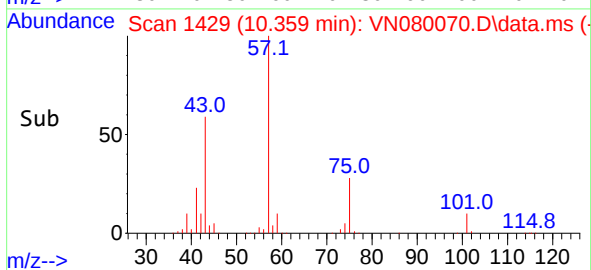
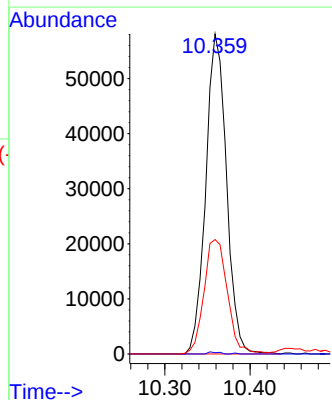
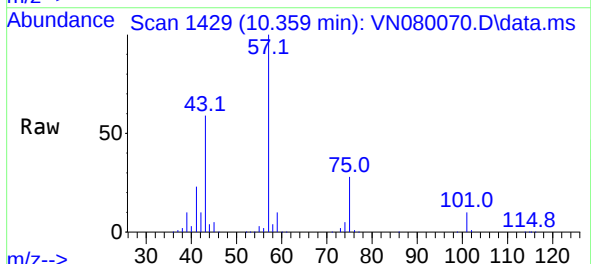
Instrument :  
MSVOA\_N  
ClientSampleId :

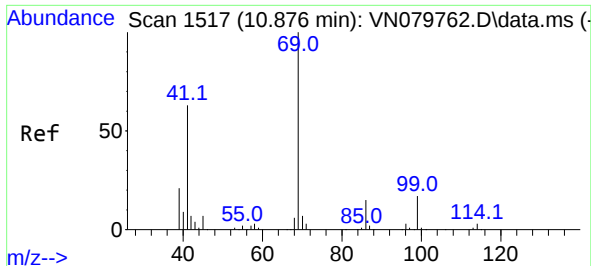
Tgt Ion: 43 Resp: 20822  
Ion Ratio Lower Upper  
43 100  
58 21.4 36.6 54.8#



#54  
cis-1,3-Dichloropropene  
Concen: 14.274 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.041 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 75 Resp: 98209  
Ion Ratio Lower Upper  
75 100  
77 0.4 26.1 39.1#  
39 35.8 31.6 47.4

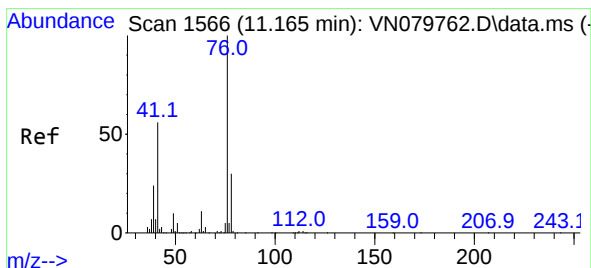
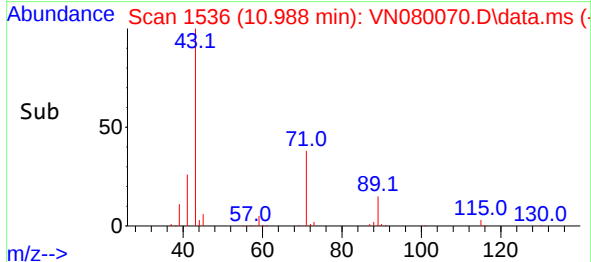
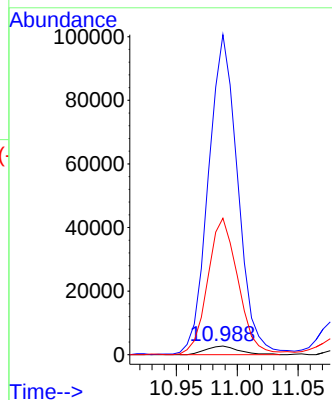
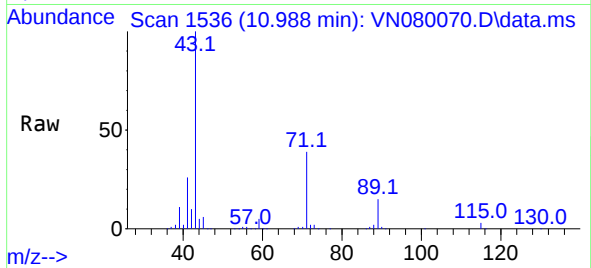




#56  
Ethyl methacrylate  
Concen: 0.863 ug/l  
RT: 10.988 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

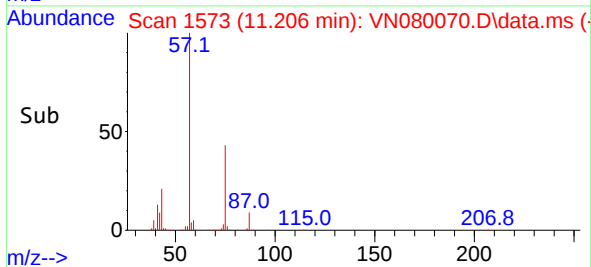
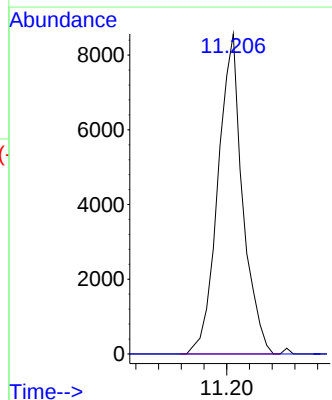
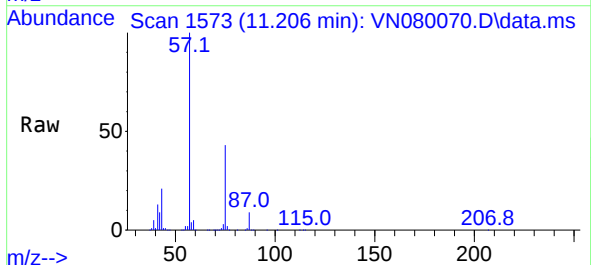
Instrument :  
MSVOA\_N  
ClientSampleId :

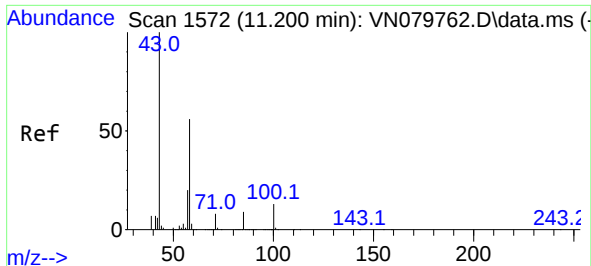
Tgt Ion: 69 Resp: 5080  
Ion Ratio Lower Upper  
69 100  
41 3339.6 39.6 59.4#  
39 1462.3 28.6 43.0#



#57  
1,3-Dichloropropane  
Concen: 1.776 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.041 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 76 Resp: 12917  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

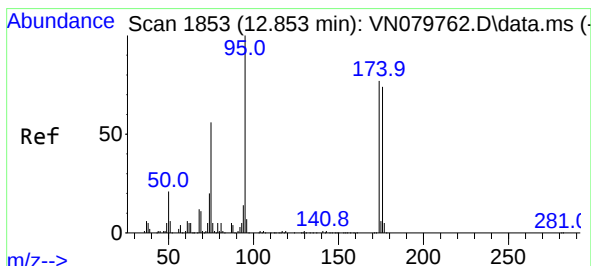
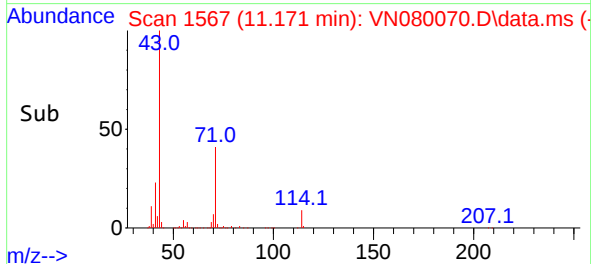
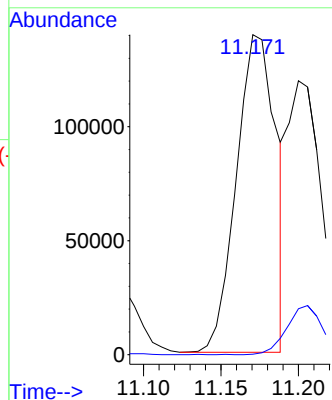
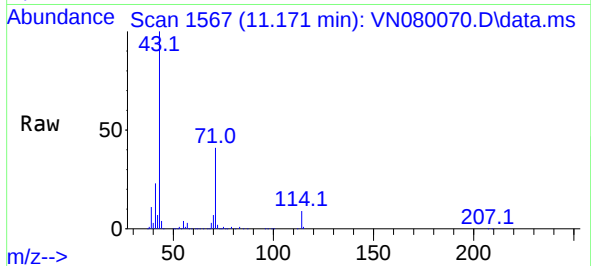




#59  
2-Hexanone  
Concen: 61.949 ug/l  
RT: 11.171 min Scan# 111  
Delta R.T. -0.029 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

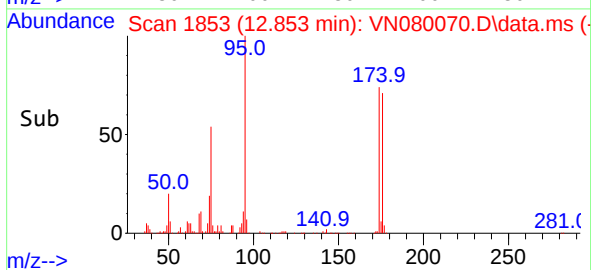
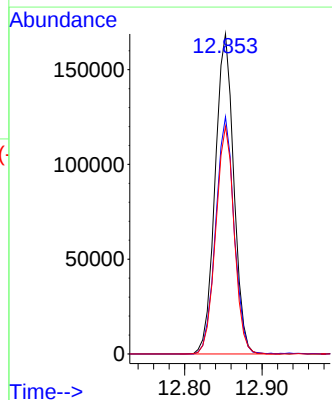
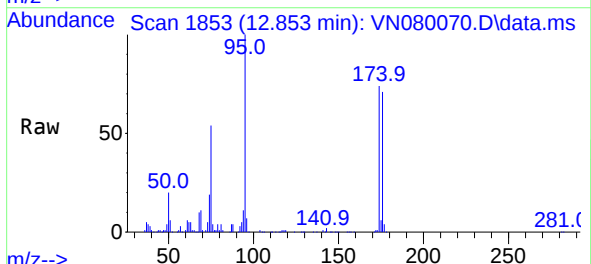
Instrument :  
MSVOA\_N  
ClientSampleId :

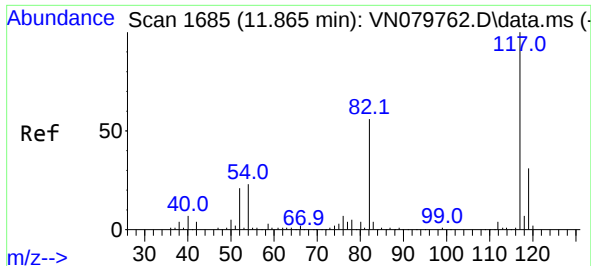
Tgt Ion: 43 Resp: 247897  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 95.1#



#62  
4-Bromofluorobenzene  
Concen: 56.956 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

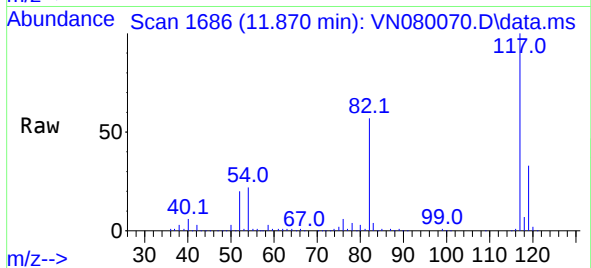
Tgt Ion: 95 Resp: 281349  
Ion Ratio Lower Upper  
95 100  
174 73.6 0.0 143.8  
176 70.1 0.0 135.8



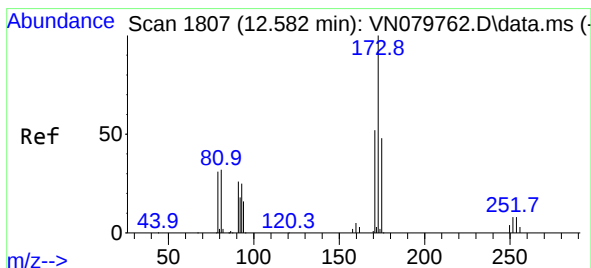
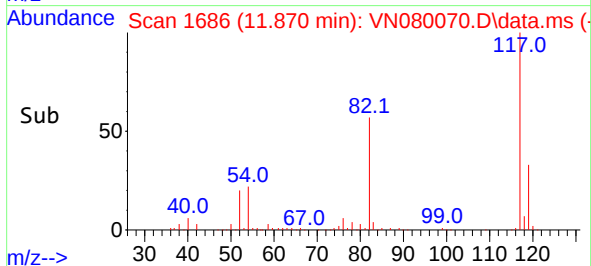
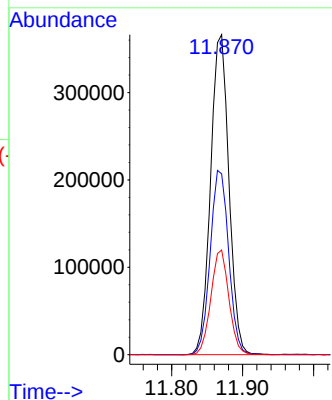


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :

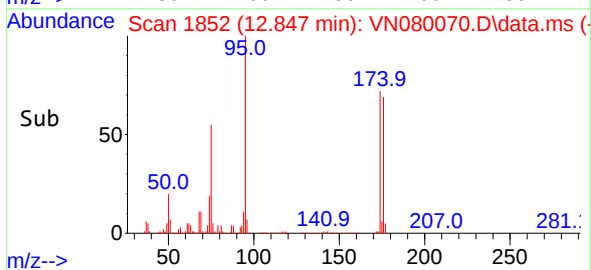
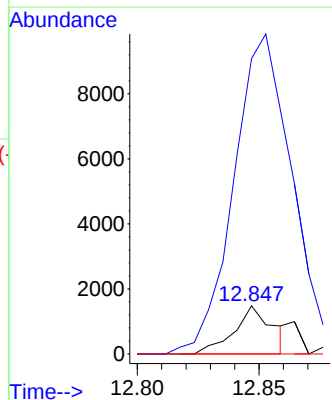
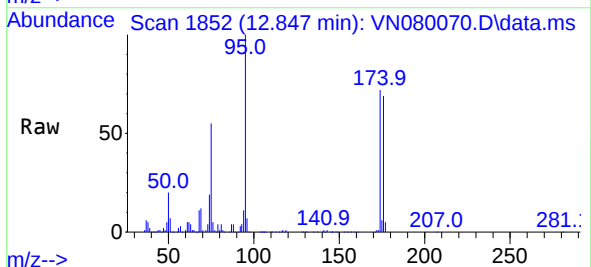


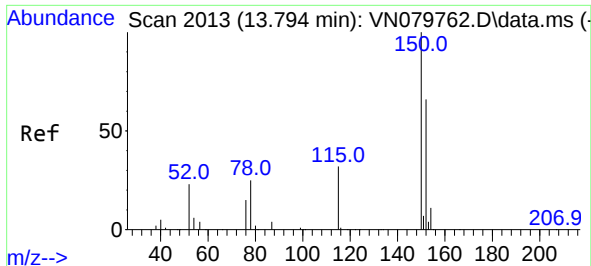
Tgt Ion:117 Resp: 656317  
Ion Ratio Lower Upper  
117 100  
82 56.5 44.0 66.0  
119 32.7 25.6 38.4



#71  
Bromoform  
Concen: 0.448 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

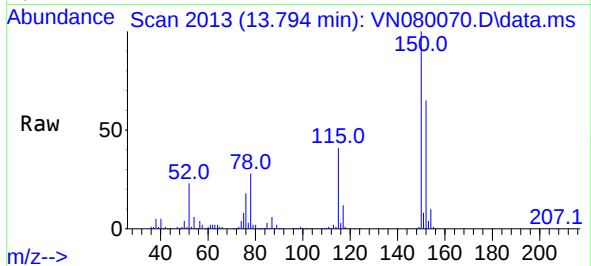
Tgt Ion:173 Resp: 1630  
Ion Ratio Lower Upper  
173 100  
175 808.5 24.3 73.0#  
254 0.0 0.0 0.0



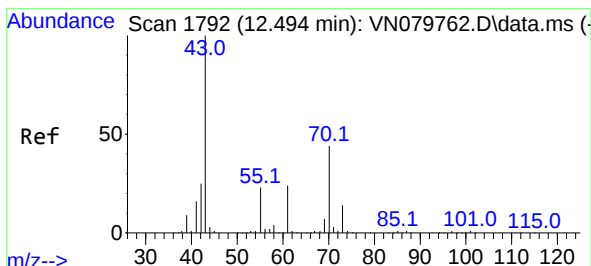
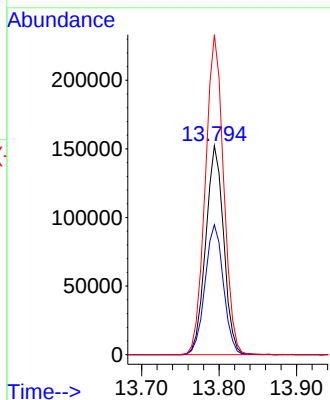
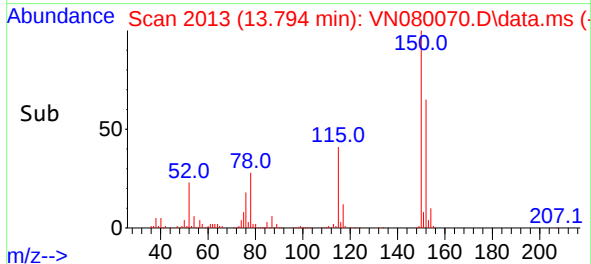


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

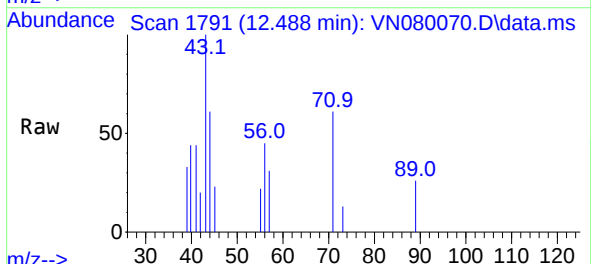
Instrument :  
MSVOA\_N  
ClientSampleId :



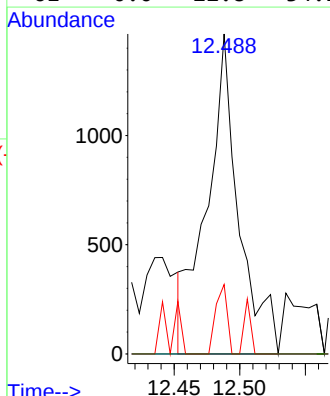
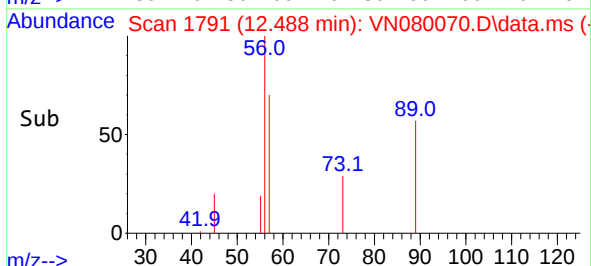
Tgt Ion:152 Resp: 245639  
Ion Ratio Lower Upper  
152 100  
115 63.7 32.3 96.8  
150 155.7 0.0 355.8

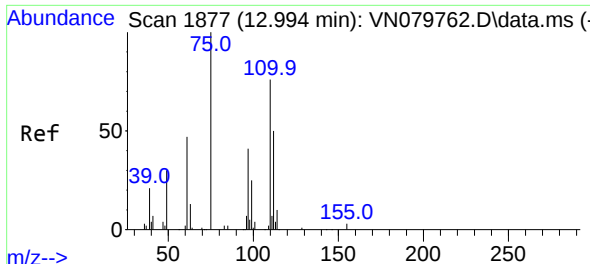


#74  
N-ethyl acetate  
Concen: 0.304 ug/l  
RT: 12.488 min Scan# 1791  
Delta R.T. -0.006 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41



Tgt Ion: 43 Resp: 2475  
Ion Ratio Lower Upper  
43 100  
70 0.0 43.4 65.2#  
55 7.8 21.4 32.0#  
61 0.0 22.8 34.2#

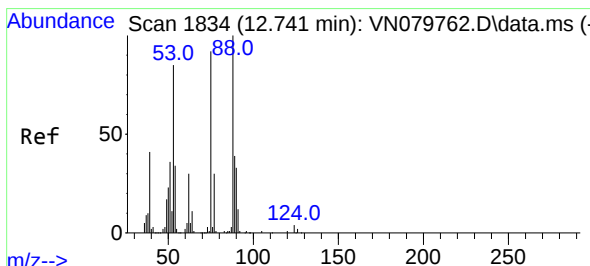
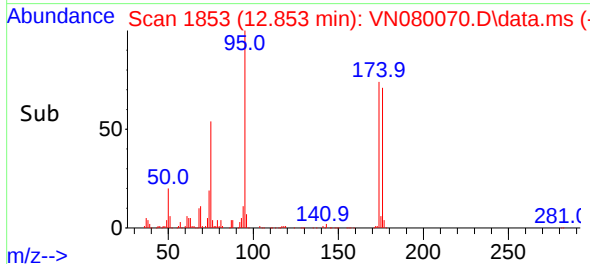
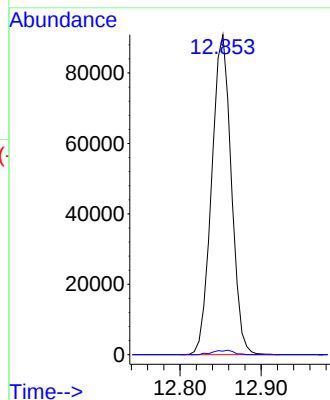
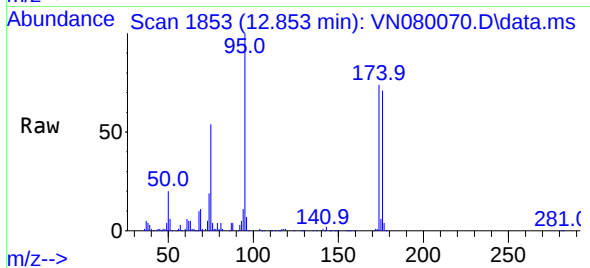




#76  
1,2,3-Trichloropropane  
Concen: 26.427 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 152402  
Ion Ratio Lower Upper  
75 100  
77 1.4 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.902 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.118 min  
Lab File: VN080070.D  
Acq: 13 Nov 2023 16:41

Tgt Ion: 75 Resp: 152402  
Ion Ratio Lower Upper  
75 100  
53 0.2 67.4 101.2#  
89 0.1 38.8 58.2#

