

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061623\  
 Data File : VN078267.D  
 Acq On : 16 Jun 2023 18:05  
 Operator : JC\MD  
 Sample : 03282-10  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 17 02:27:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

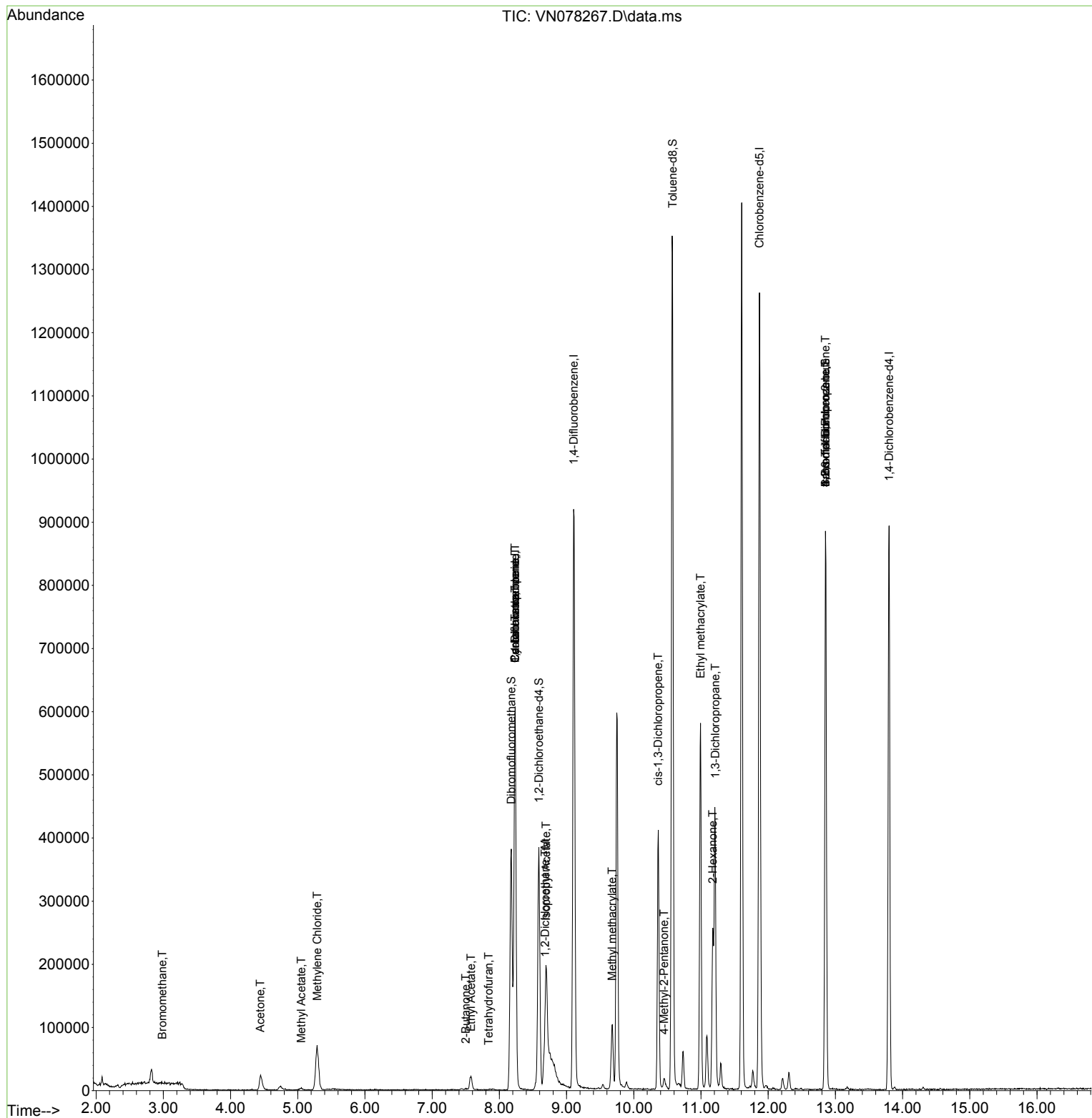
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.235  | 168            | 429466   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114            | 820747   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117            | 742474   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152            | 243489   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65             | 307742   | 53.744     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 107.480% |        |          |
| 35) Dibromofluoromethane      | 8.177  | 113            | 274790   | 52.951     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 105.900% |        |          |
| 50) Toluene-d8                | 10.576 | 98             | 978021   | 48.886     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 97.780%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95             | 308183   | 49.552     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 99.100%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 3) Chloromethane              | 2.371  | 50             | 1117     | Below Cal  | #      | 42       |
| 5) Bromomethane               | 2.983  | 94             | 1590     | 0.331      | ug/l   | 97       |
| 16) Acetone                   | 4.442  | 43             | 41622    | 25.253     | ug/l   | 94       |
| 18) Methyl Acetate            | 5.053  | 43             | 5933     | 0.782      | ug/l # | 50       |
| 20) Methylene Chloride        | 5.289  | 84             | 55294    | 10.152     | ug/l   | 93       |
| 25) 2-Butanone                | 7.500  | 43             | 2780     | 1.097      | ug/l   | 95       |
| 29) Tetrahydrofuran           | 7.841  | 42             | 346      | 0.204      | ug/l # | 20       |
| 31) Cyclohexane               | 8.235  | 56             | 11404    | 1.553      | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 8.235  | 75             | 36670    | 4.926      | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.577  | 43             | 30331    | 5.216      | ug/l # | 91       |
| 38) Carbon Tetrachloride      | 8.235  | 117            | 45464    | 5.784      | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.682  | 62             | 1602     | 0.210      | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.694  | 43             | 290591   | 26.130     | ug/l # | 68       |
| 48) Methyl methacrylate       | 9.676  | 41             | 6455     | 1.383      | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43             | 15667    | 2.675      | ug/l # | 78       |
| 54) cis-1,3-Dichloropropene   | 10.365 | 75             | 74579    | 8.564      | ug/l # | 73       |
| 56) Ethyl methacrylate        | 10.994 | 69             | 2538     | 0.328      | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.212 | 76             | 4779     | 0.533      | ug/l # | 42       |
| 59) 2-Hexanone                | 11.176 | 43             | 250183   | 61.355     | ug/l # | 19       |
| 71) Bromoform                 | 12.853 | 173            | 2269     | 0.601      | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.982 | 83             | 170      | Below Cal  | #      | 26       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75             | 166037   | 28.845     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75             | 166037   | 88.621     | ug/l # | 15       |
| -----                         |        |                |          |            |        |          |

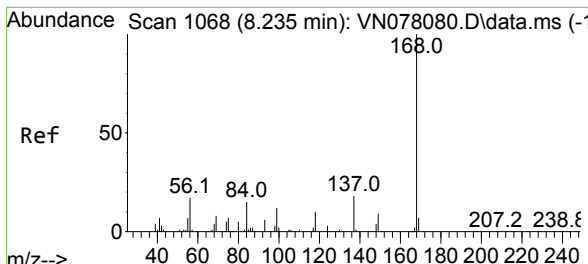
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 07 05:05:00 2023  
Response via : Initial Calibration



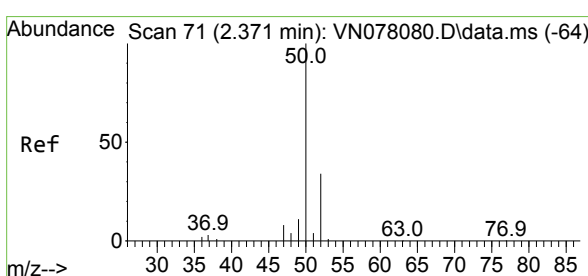
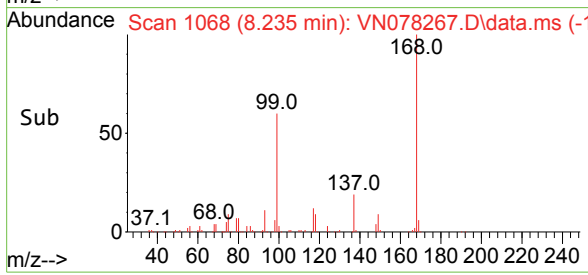
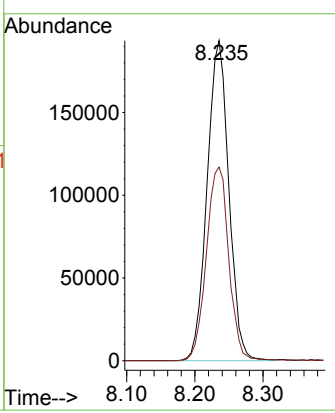
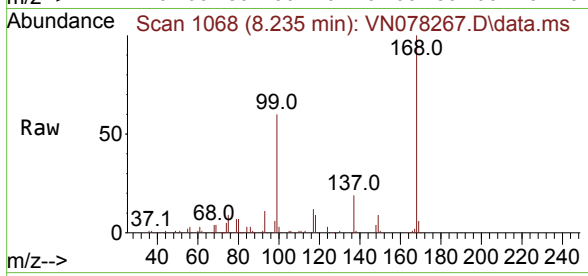


#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.235 min Scan# 1068  
 Delta R.T. 0.000 min  
 Lab File: VN078267.D  
 Acq: 16 Jun 2023 18:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion:168 Resp: 429466

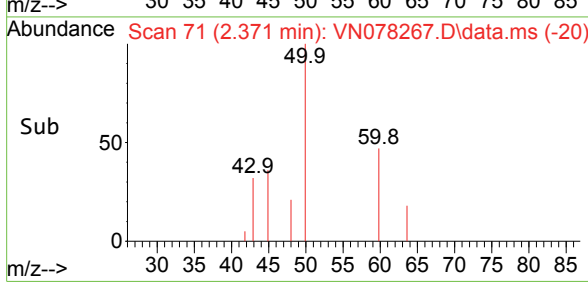
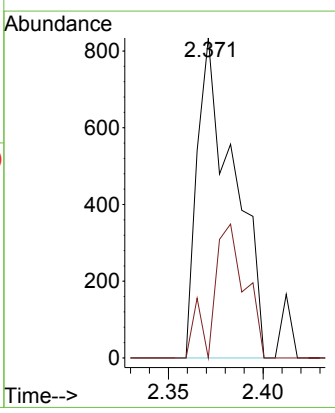
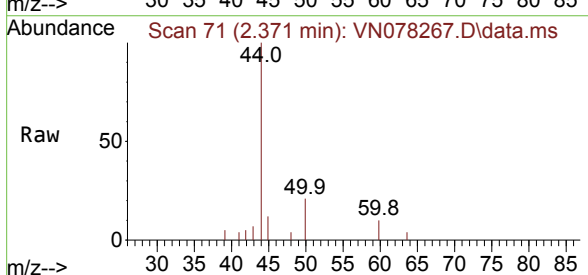
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100   |       |       |
| 99  | 60.5  | 53.0  | 79.6  |

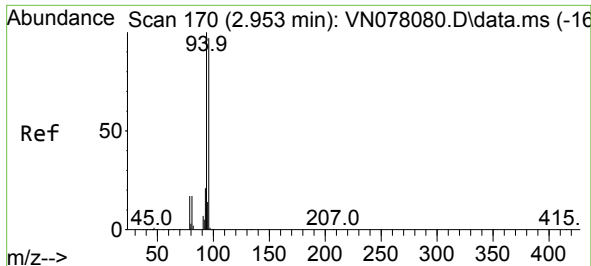


#3  
 Chloromethane  
 Concen: Below Cal  
 RT: 2.371 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: VN078267.D  
 Acq: 16 Jun 2023 18:05

Tgt Ion: 50 Resp: 1117

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 50  | 100   |       |       |
| 52  | 0.0   | 26.5  | 39.7  |

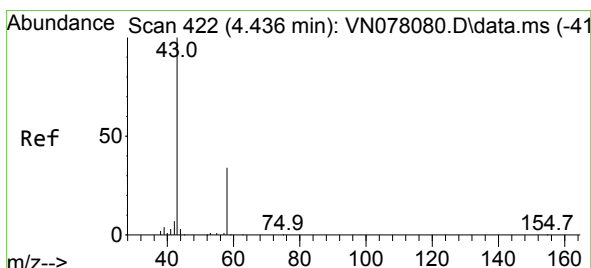
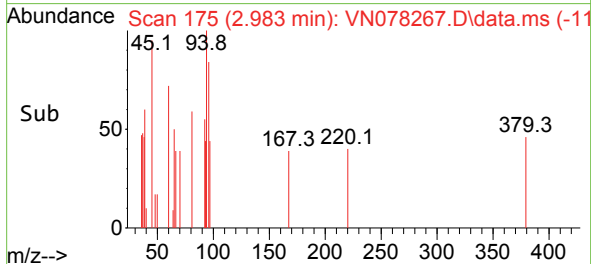
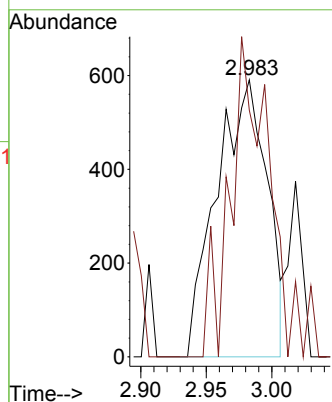
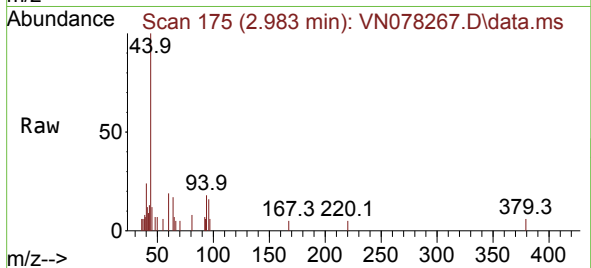




#5  
Bromomethane  
Concen: 0.331 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

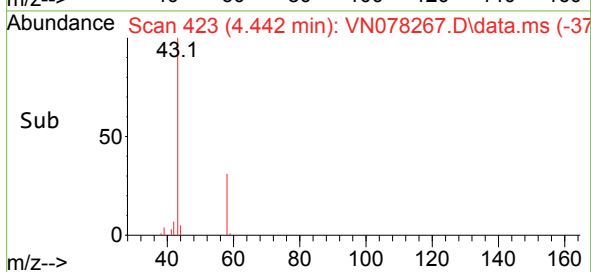
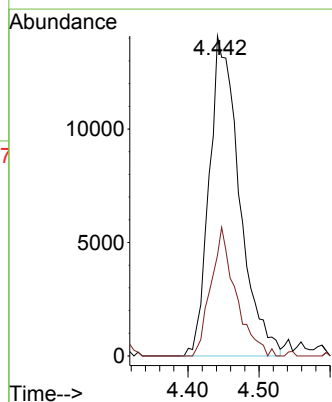
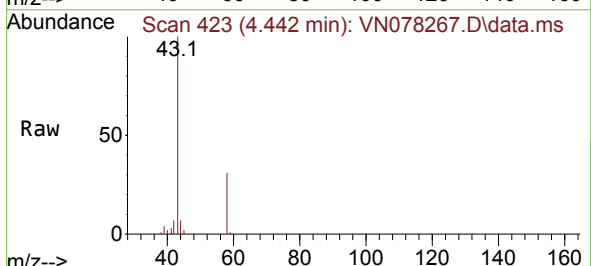
Instrument :  
MSVOA\_N  
ClientSampleId :

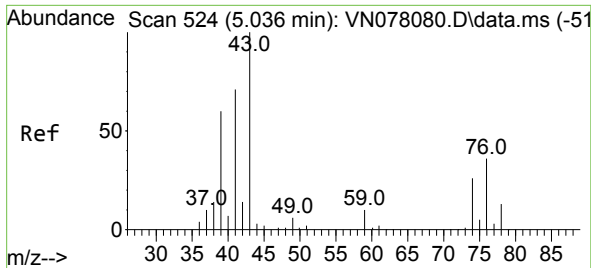
Tgt Ion: 94 Resp: 1590  
Ion Ratio Lower Upper  
94 100  
96 89.0 73.1 109.7



#16  
Acetone  
Concen: 25.253 ug/l  
RT: 4.442 min Scan# 423  
Delta R.T. 0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Tgt Ion: 43 Resp: 41622  
Ion Ratio Lower Upper  
43 100  
58 31.5 28.0 42.0

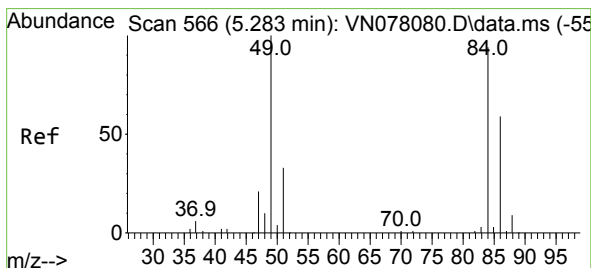
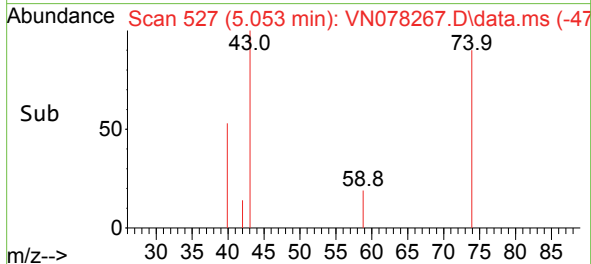
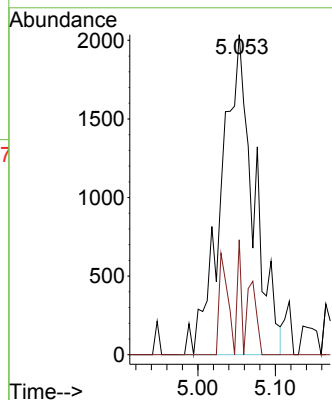
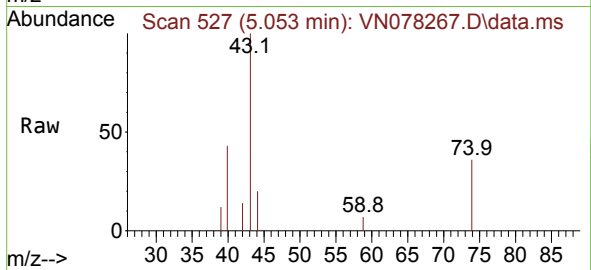




#18  
Methyl Acetate  
Concen: 0.782 ug/l  
RT: 5.053 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

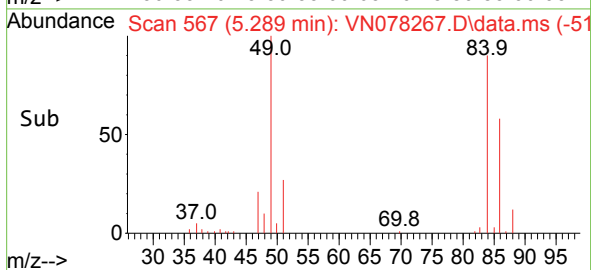
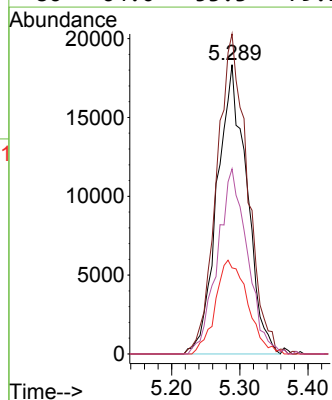
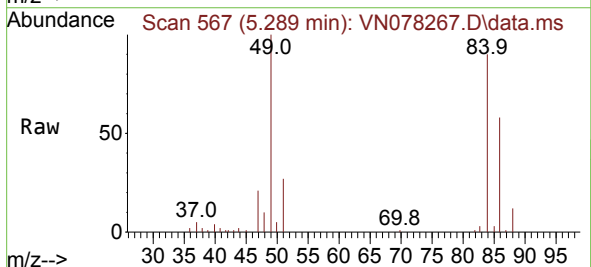
Instrument :  
MSVOA\_N  
ClientSampleId :

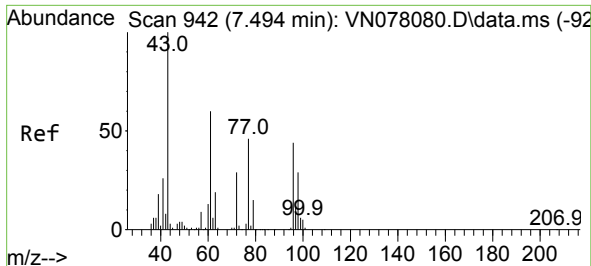
Tgt Ion: 43 Resp: 5933  
Ion Ratio Lower Upper  
43 100  
74 4.3 26.2 39.4#



#20  
Methylene Chloride  
Concen: 10.152 ug/l  
RT: 5.289 min Scan# 567  
Delta R.T. 0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

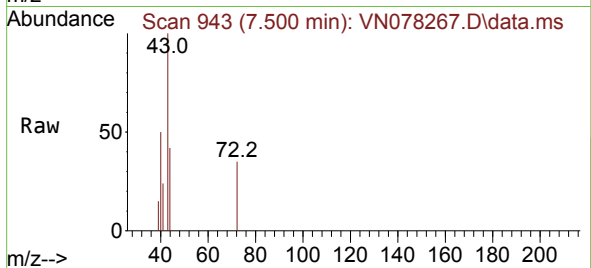
Tgt Ion: 84 Resp: 55294  
Ion Ratio Lower Upper  
84 100  
49 110.6 79.7 119.5  
51 29.8 25.2 37.8  
86 64.0 53.3 79.9



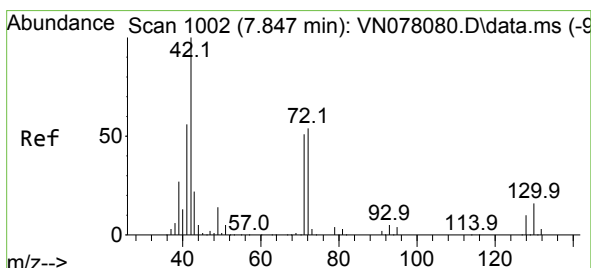
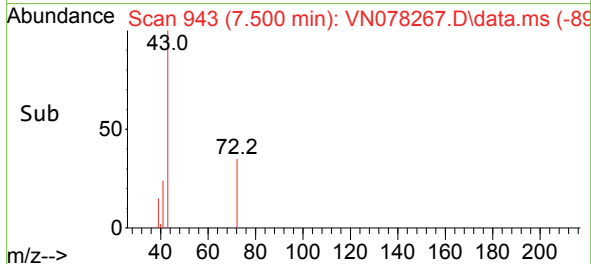
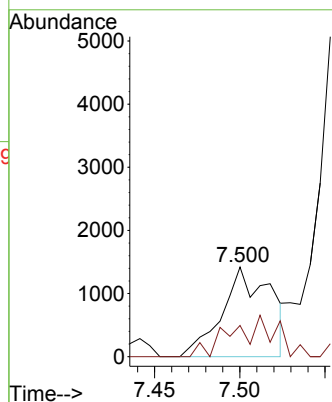


#25  
2-Butanone  
Concen: 1.097 ug/l  
RT: 7.500 min Scan# 94  
Delta R.T. 0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

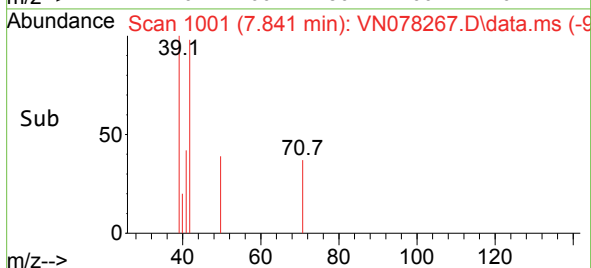
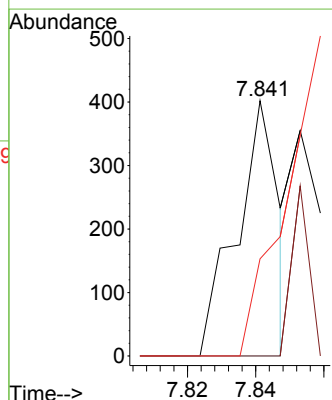
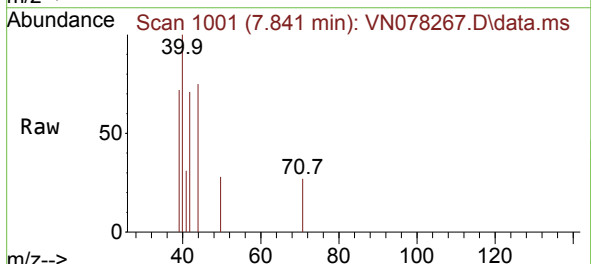


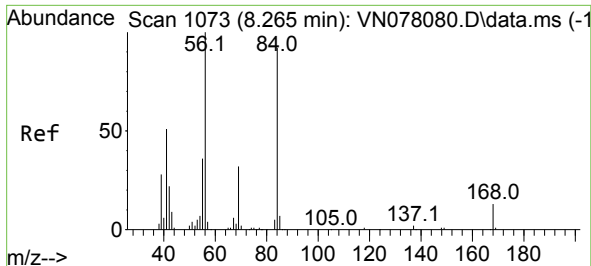
Tgt Ion: 43 Resp: 2780  
Ion Ratio Lower Upper  
43 100  
72 34.9 30.2 45.2



#29  
Tetrahydrofuran  
Concen: 0.204 ug/l  
RT: 7.841 min Scan# 1001  
Delta R.T. -0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

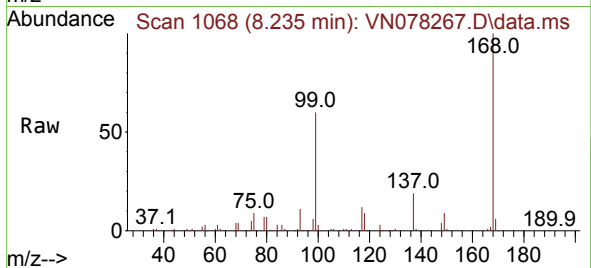
Tgt Ion: 42 Resp: 346  
Ion Ratio Lower Upper  
42 100  
72 0.0 49.8 74.6#  
71 0.0 47.4 71.2#



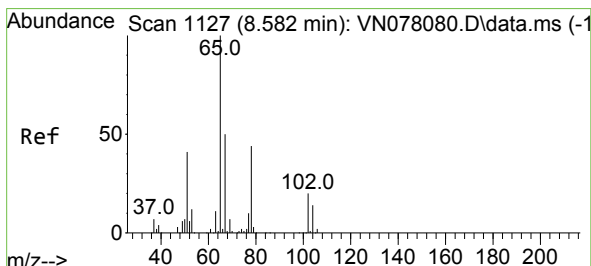
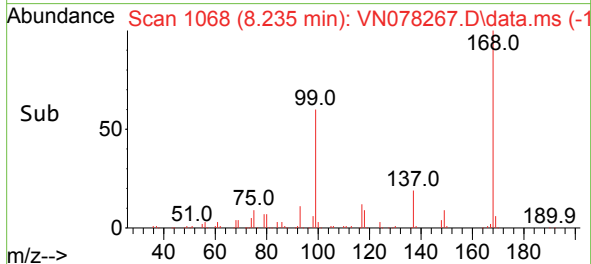
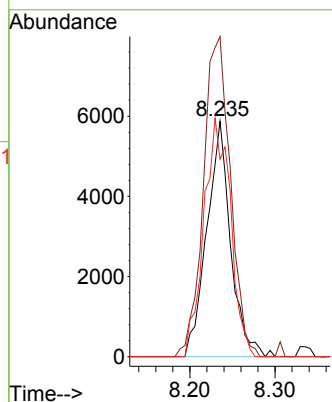


#31  
Cyclohexane  
Concen: 1.553 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.029 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

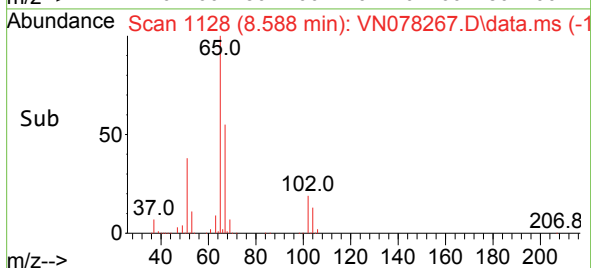
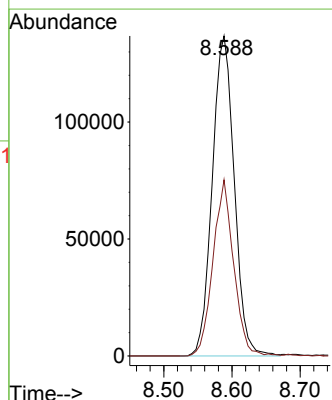
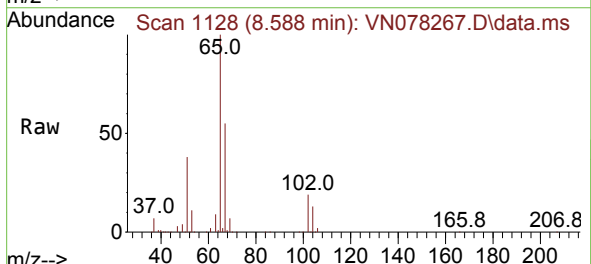


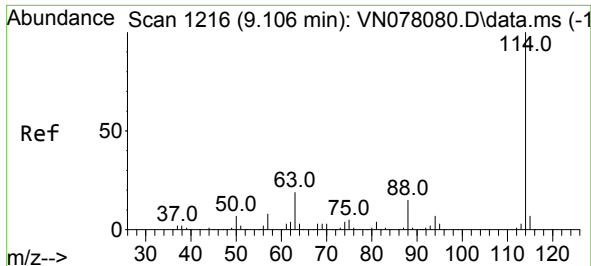
Tgt Ion: 56 Resp: 11404  
Ion Ratio Lower Upper  
56 100  
69 132.7 26.8 40.2#  
84 83.8 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 53.744 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Tgt Ion: 65 Resp: 307742  
Ion Ratio Lower Upper  
65 100  
67 51.7 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: VN078267.D

Acq: 16 Jun 2023 18:05

Instrument :

MSVOA\_N

ClientSampleId :

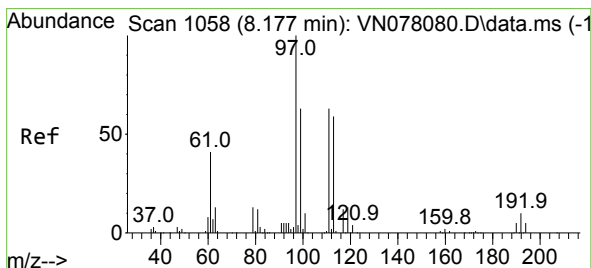
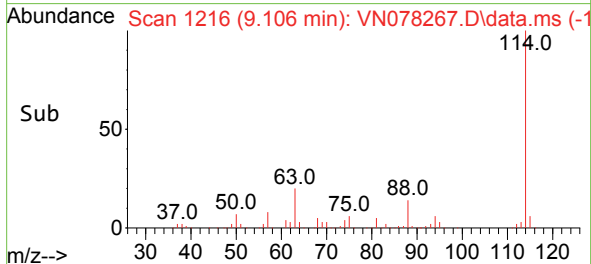
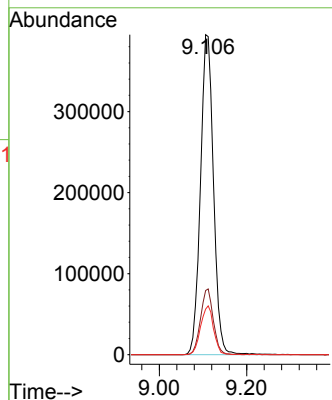
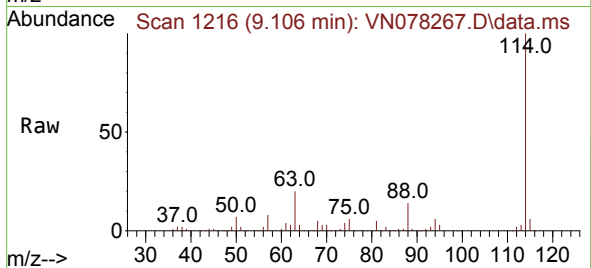
Tgt Ion:114 Resp: 820747

Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.4

88 14.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.951 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078267.D

Acq: 16 Jun 2023 18:05

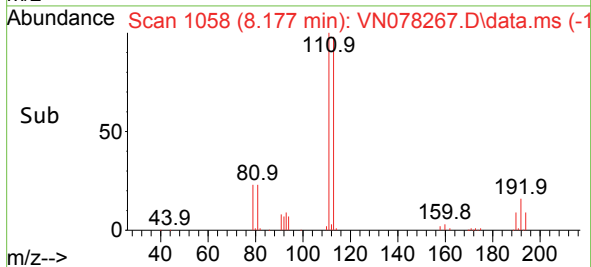
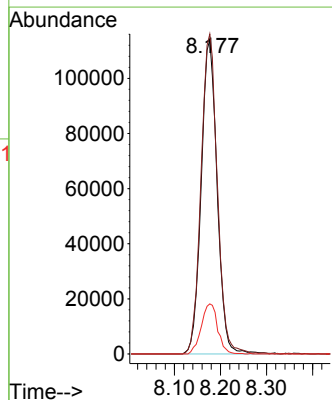
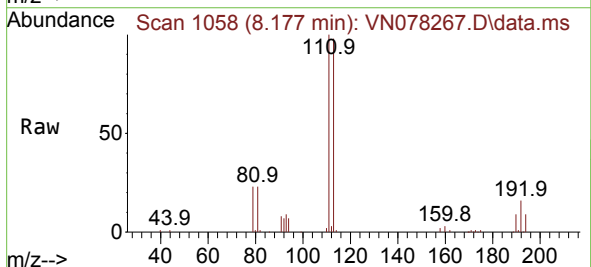
Tgt Ion:113 Resp: 274790

Ion Ratio Lower Upper

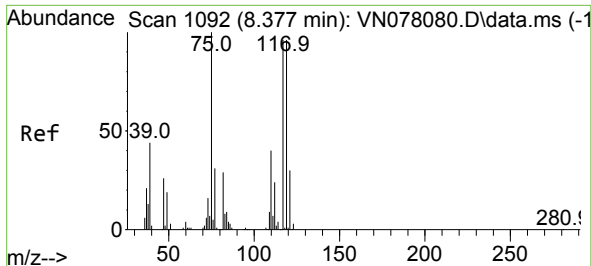
113 100

111 104.0 82.6 123.8

192 16.4 12.7 19.1

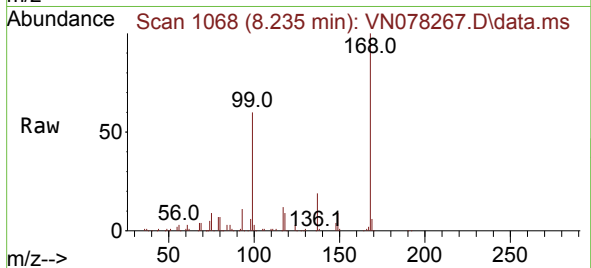




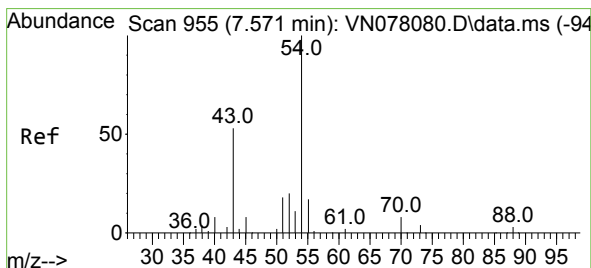
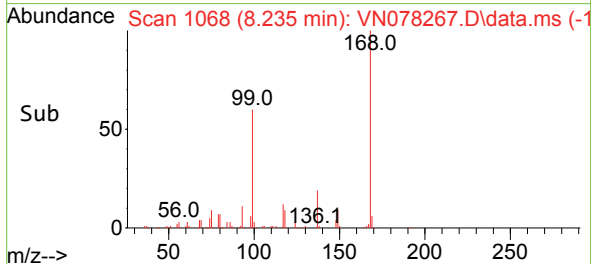
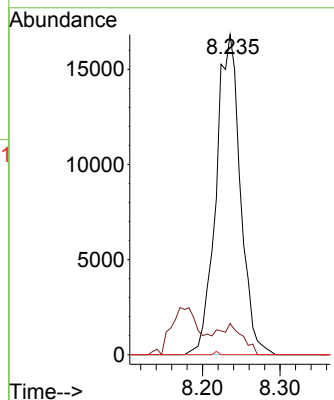


#36  
1,1-Dichloropropene  
Concen: 4.926 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.141 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

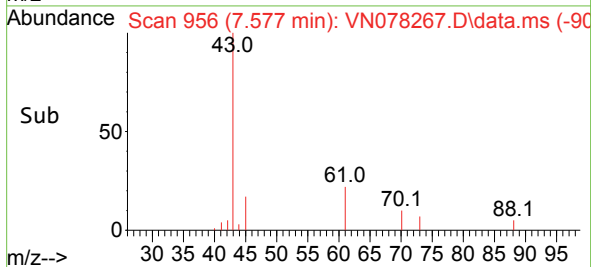
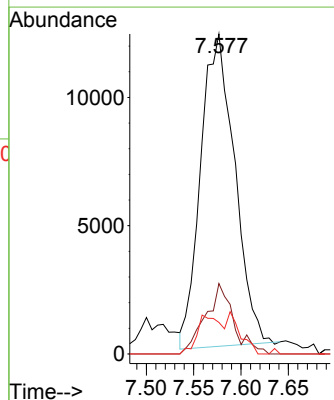
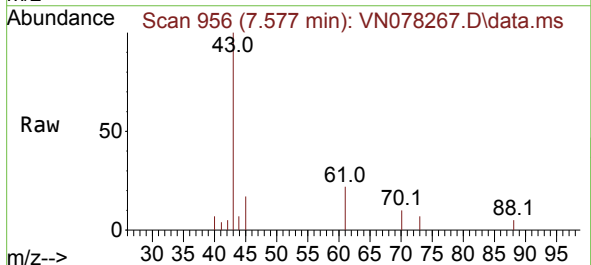


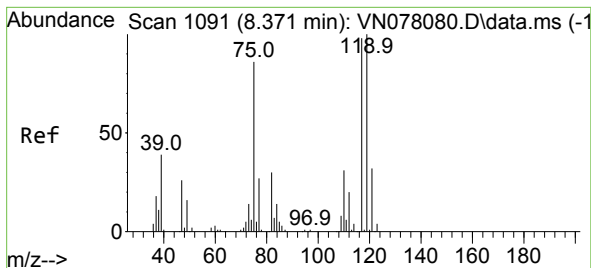
Tgt Ion: 75 Resp: 36670  
Ion Ratio Lower Upper  
75 100  
110 9.4 19.1 57.3#  
77 0.2 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 5.216 ug/l  
RT: 7.577 min Scan# 956  
Delta R.T. 0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Tgt Ion: 43 Resp: 30331  
Ion Ratio Lower Upper  
43 100  
61 18.6 13.2 19.8  
70 8.9 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.784 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

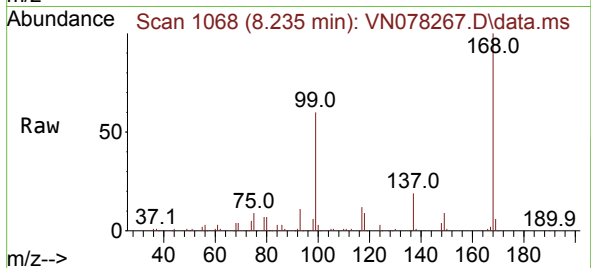
Lab File: VN078267.D

Acq: 16 Jun 2023 18:05

Instrument :

MSVOA\_N

ClientSampleId :



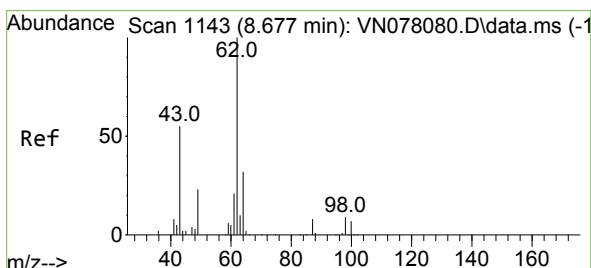
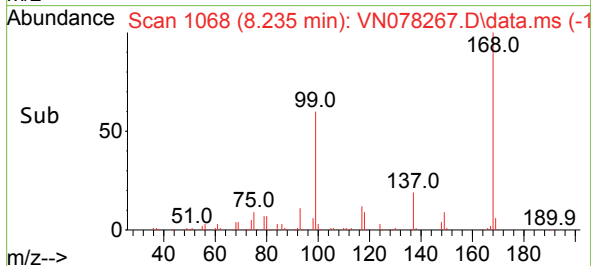
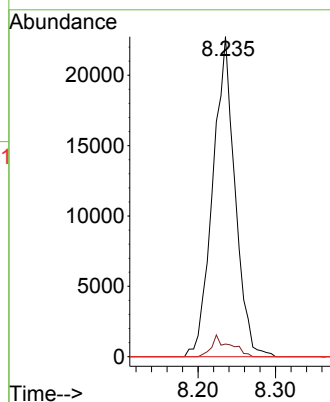
Tgt Ion:117 Resp: 45464

Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.210 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078267.D

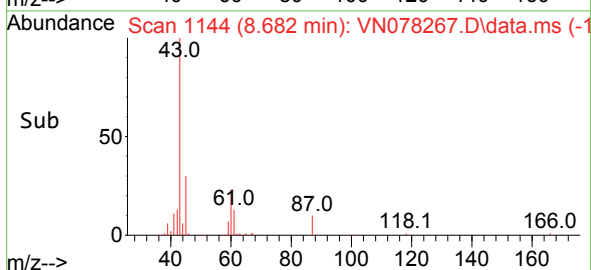
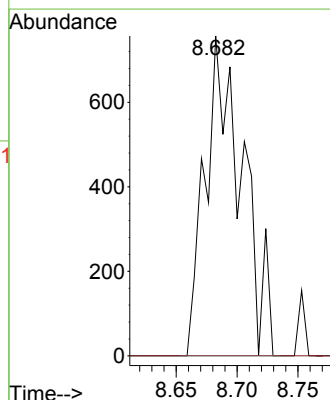
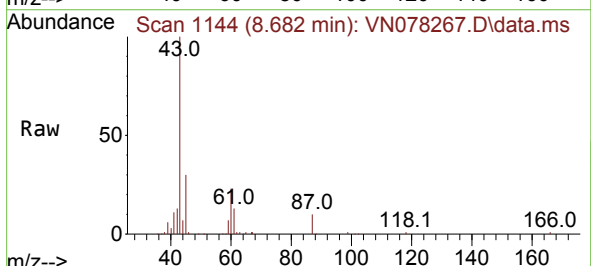
Acq: 16 Jun 2023 18:05

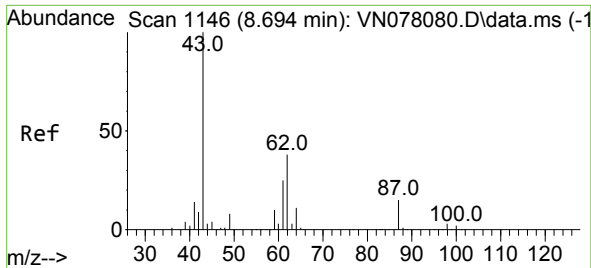
Tgt Ion: 62 Resp: 1602

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

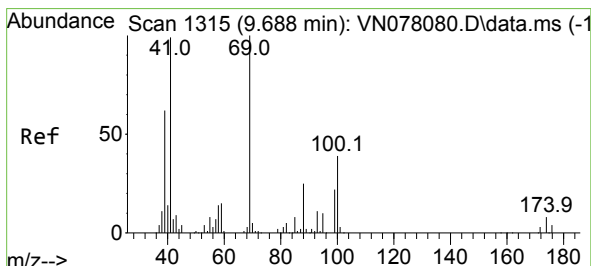
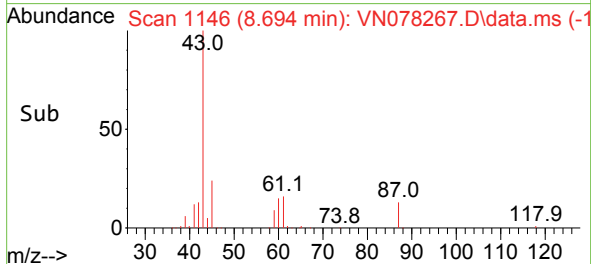
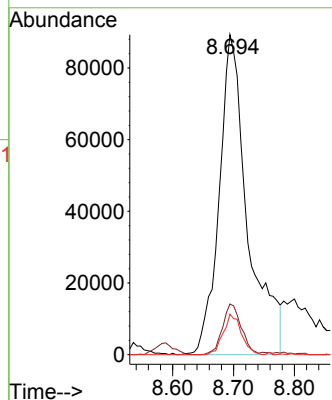
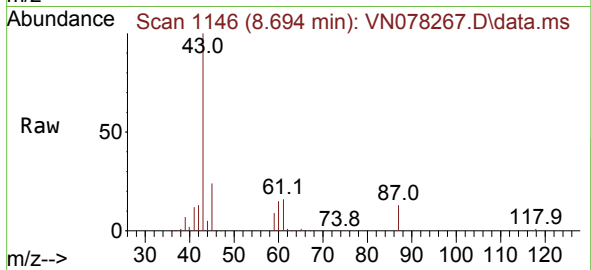




#43  
Isopropyl Acetate  
Concen: 26.130 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. -0.000 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

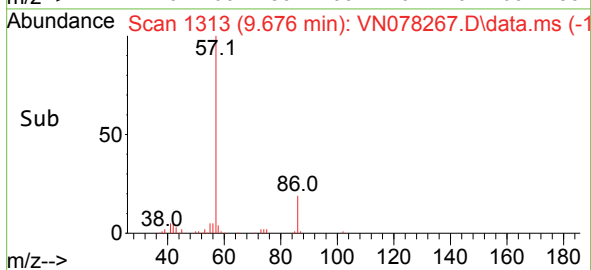
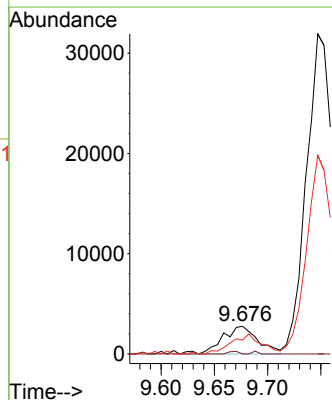
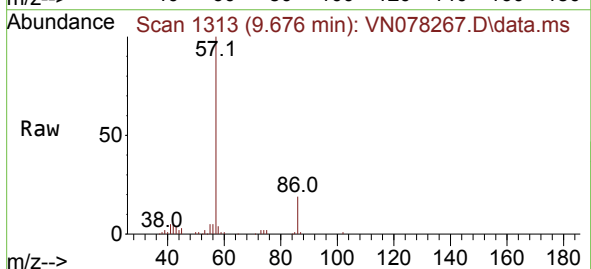
Instrument :  
MSVOA\_N  
ClientSampleId :

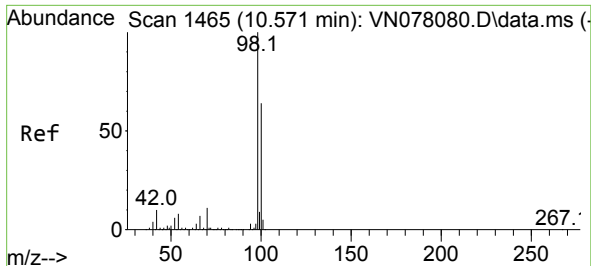
Tgt Ion: 43 Resp: 290591  
Ion Ratio Lower Upper  
43 100  
61 10.5 24.7 37.1#  
87 8.0 14.6 21.8#



#48  
Methyl methacrylate  
Concen: 1.383 ug/l  
RT: 9.676 min Scan# 1313  
Delta R.T. -0.012 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Tgt Ion: 41 Resp: 6455  
Ion Ratio Lower Upper  
41 100  
69 1.6 90.4 135.6#  
39 61.0 54.6 81.8

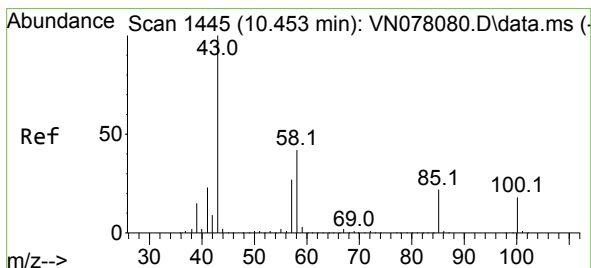
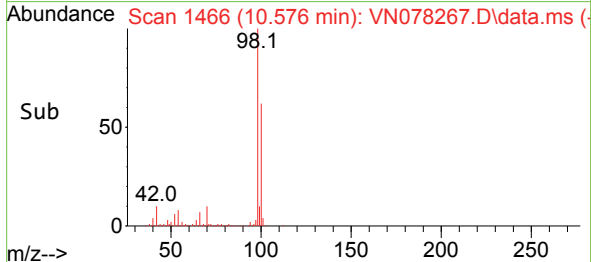
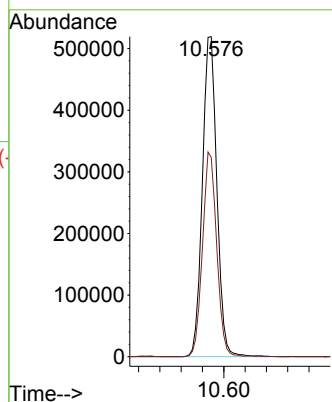
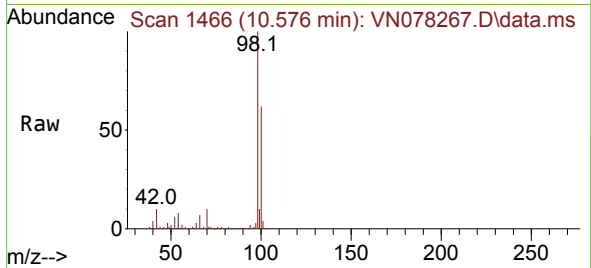




#50  
Toluene-d8  
Concen: 48.886 ug/l  
RT: 10.576 min Scan# 1466  
Delta R.T. 0.006 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

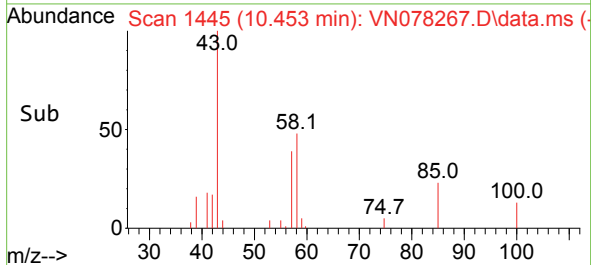
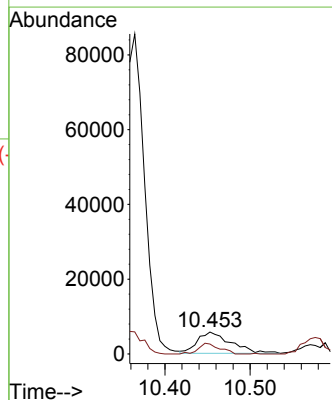
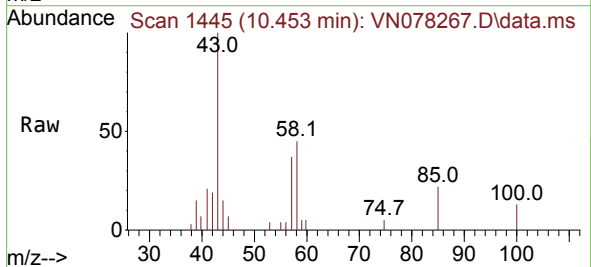
Instrument :  
MSVOA\_N  
ClientSampleId :

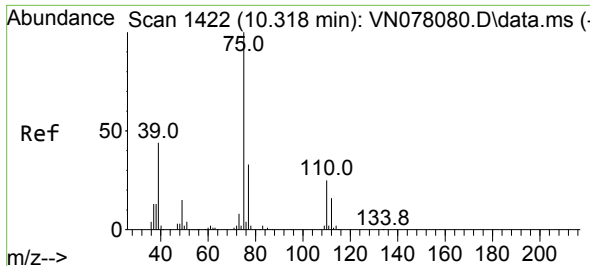
Tgt Ion: 98 Resp: 978021  
Ion Ratio Lower Upper  
98 100  
100 62.9 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 2.675 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Tgt Ion: 43 Resp: 15667  
Ion Ratio Lower Upper  
43 100  
58 31.1 36.6 54.8#

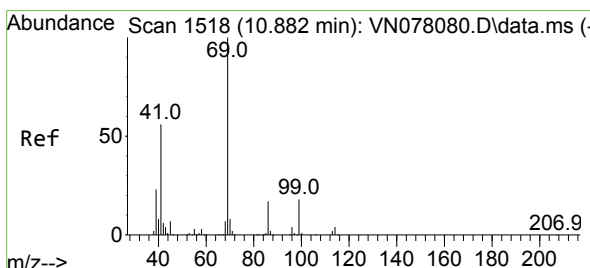
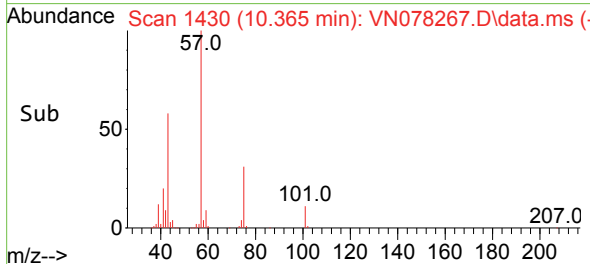
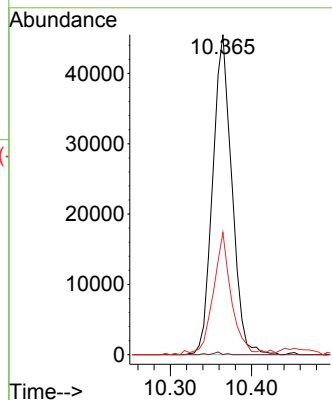
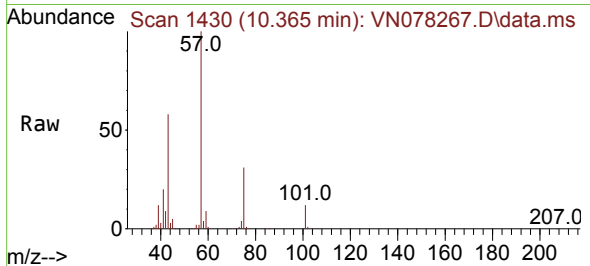




#54  
 cis-1,3-Dichloropropene  
 Concen: 8.564 ug/l  
 RT: 10.365 min Scan# 14  
 Delta R.T. 0.047 min  
 Lab File: VN078267.D  
 Acq: 16 Jun 2023 18:05

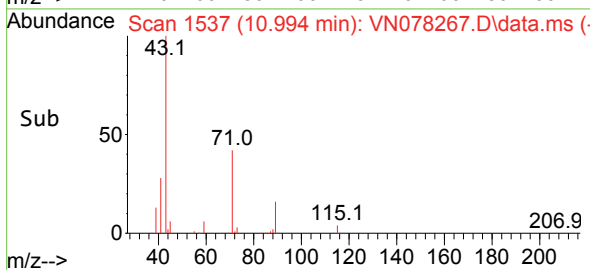
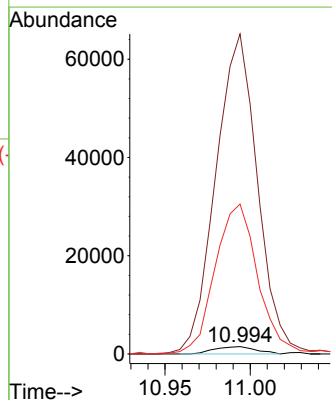
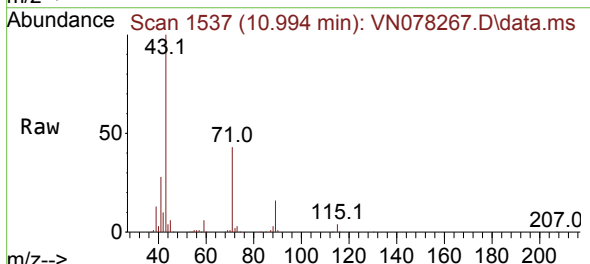
Instrument :  
 MSVOA\_N  
 ClientSampleId :

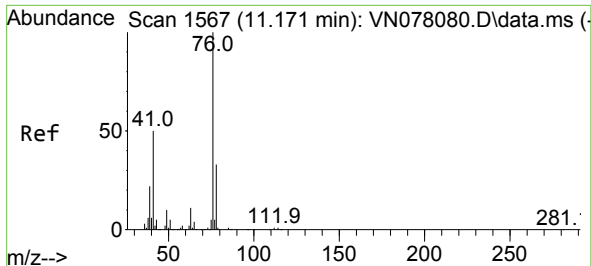
Tgt Ion: 75 Resp: 74579  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.1 39.1#  
 39 38.2 31.6 47.4



#56  
 Ethyl methacrylate  
 Concen: 0.328 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. 0.112 min  
 Lab File: VN078267.D  
 Acq: 16 Jun 2023 18:05

Tgt Ion: 69 Resp: 2538  
 Ion Ratio Lower Upper  
 69 100  
 41 4390.9 39.6 59.4#  
 39 2114.0 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.533 ug/l

RT: 11.212 min Scan# 1

Delta R.T. 0.041 min

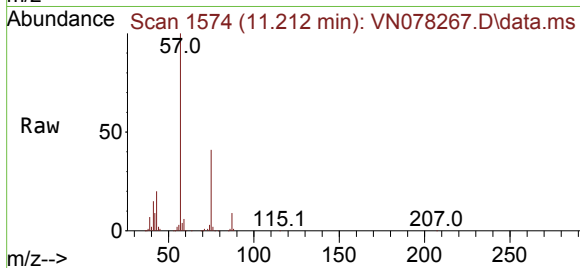
Lab File: VN078267.D

Acq: 16 Jun 2023 18:05

Instrument :

MSVOA\_N

ClientSampleId :

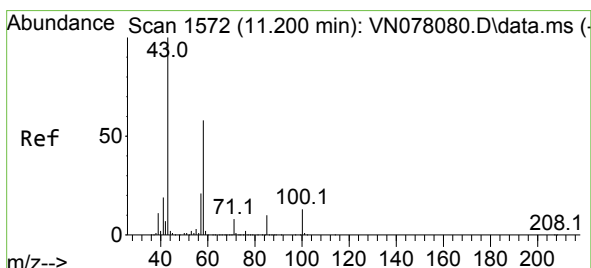
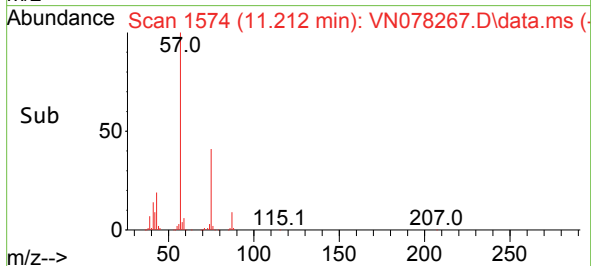
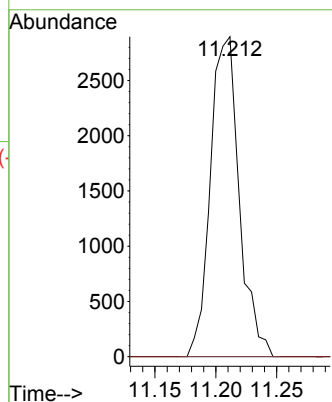


Tgt Ion: 76 Resp: 4779

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 61.355 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078267.D

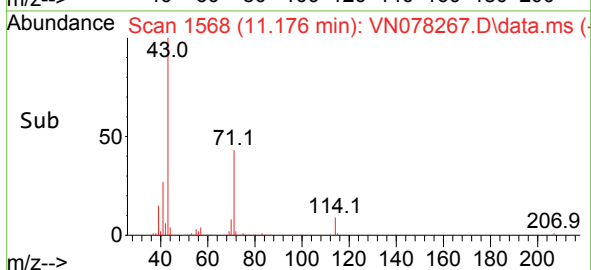
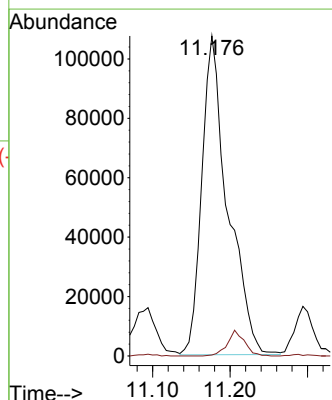
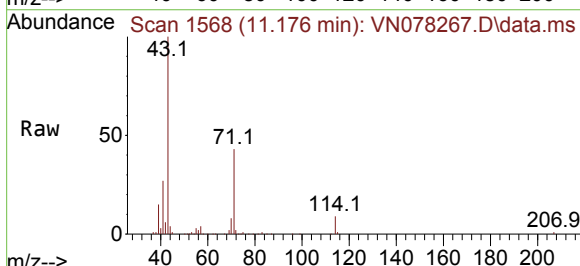
Acq: 16 Jun 2023 18:05

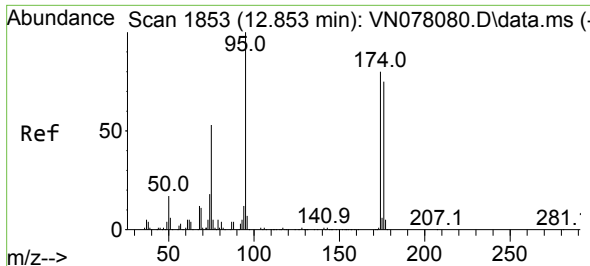
Tgt Ion: 43 Resp: 250183

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

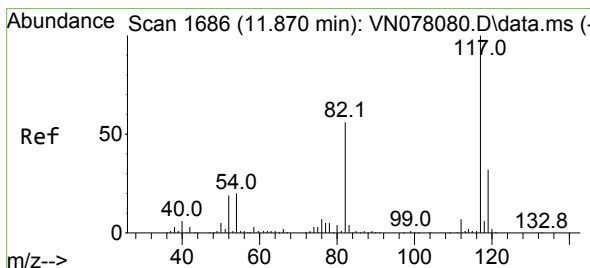
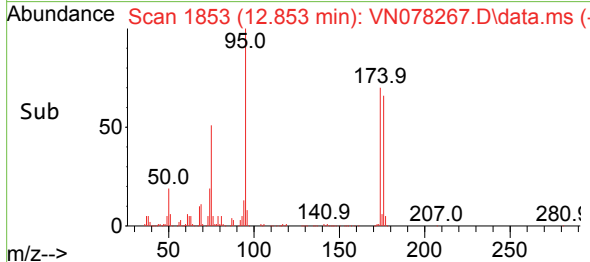
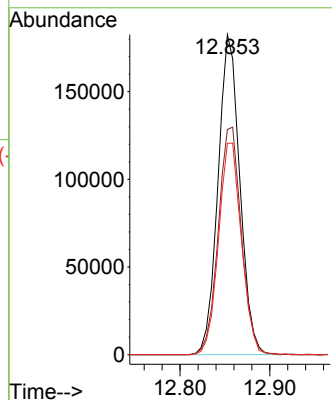
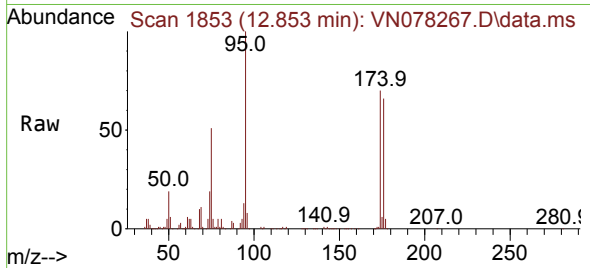




#62  
4-Bromofluorobenzene  
Concen: 49.552 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

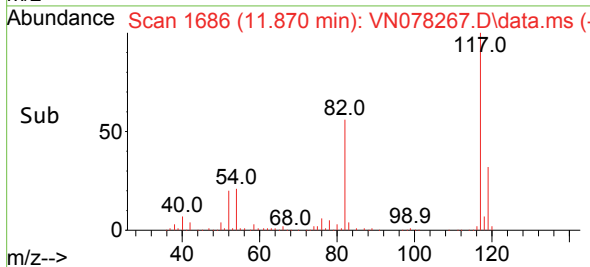
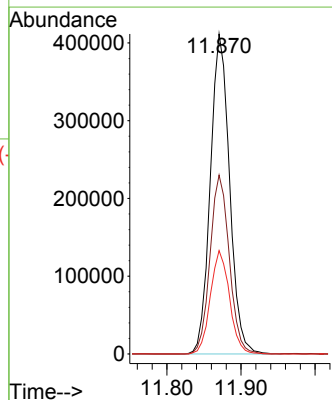
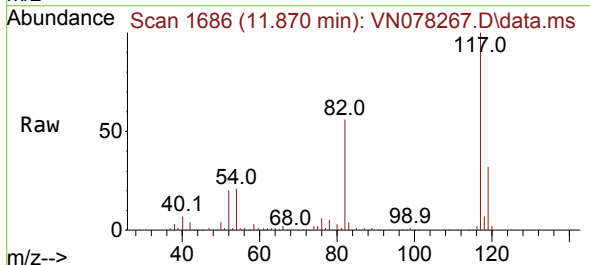
Instrument :  
MSVOA\_N  
ClientSampleId :

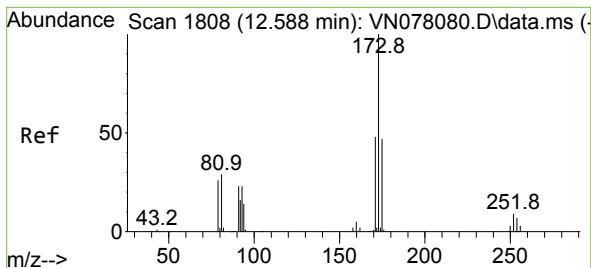
Tgt Ion: 95 Resp: 308183  
Ion Ratio Lower Upper  
95 100  
174 75.3 0.0 143.8  
176 69.4 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Tgt Ion: 117 Resp: 742474  
Ion Ratio Lower Upper  
117 100  
82 55.9 44.0 66.0  
119 32.3 25.6 38.4





#71

Bromoform

Concen: 0.601 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078267.D

Acq: 16 Jun 2023 18:05

Instrument :

MSVOA\_N

ClientSampleId :

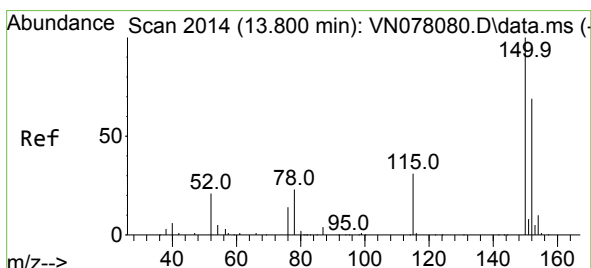
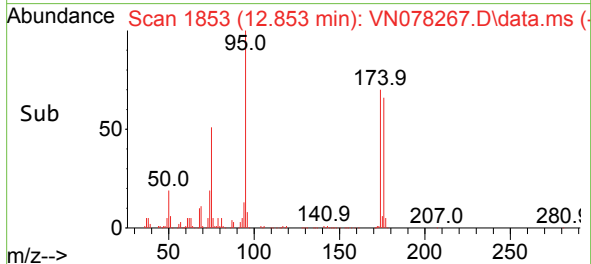
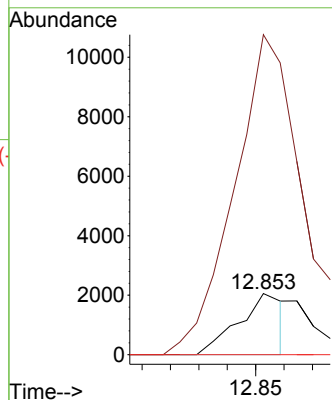
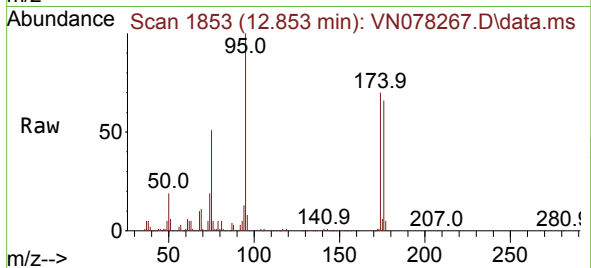
Tgt Ion:173 Resp: 2269

Ion Ratio Lower Upper

173 100

175 679.1 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078267.D

Acq: 16 Jun 2023 18:05

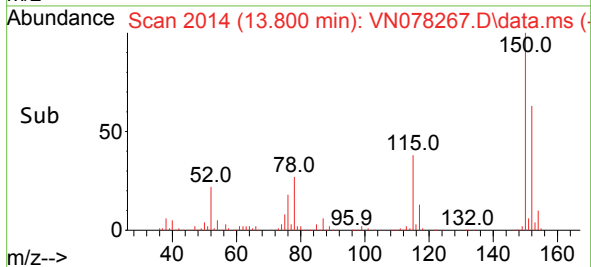
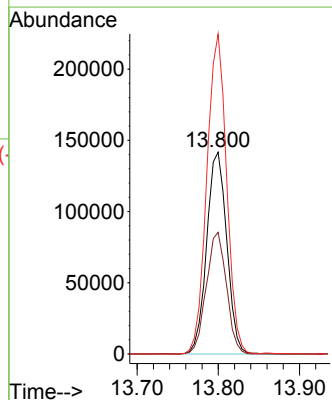
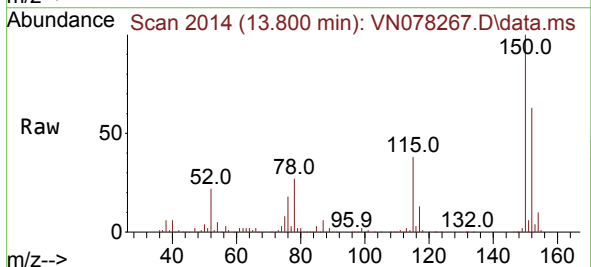
Tgt Ion:152 Resp: 243489

Ion Ratio Lower Upper

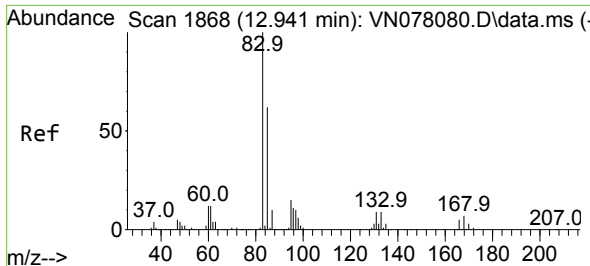
152 100

115 60.4 32.3 96.8

150 155.8 0.0 355.8

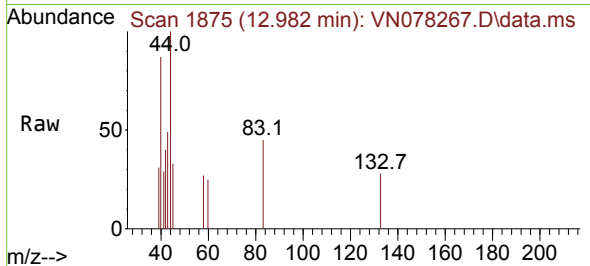




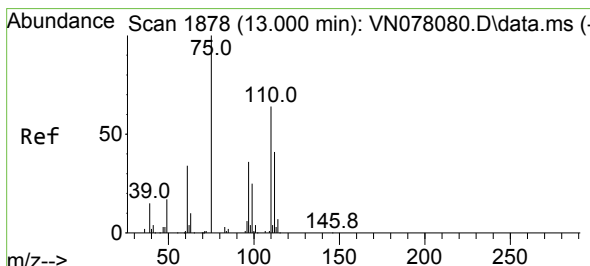
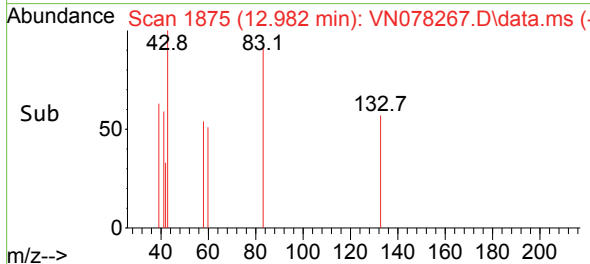
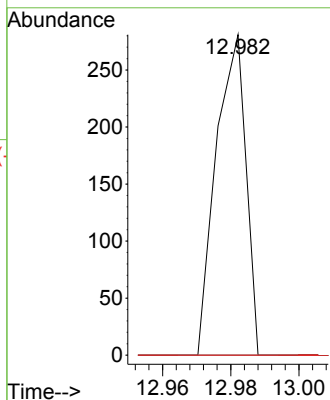


#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.982 min Scan# 1875  
Delta R.T. 0.041 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

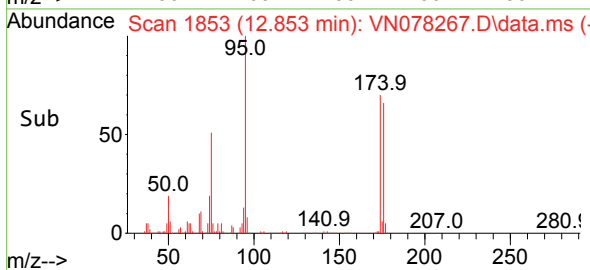
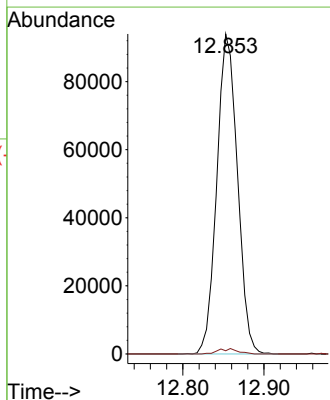
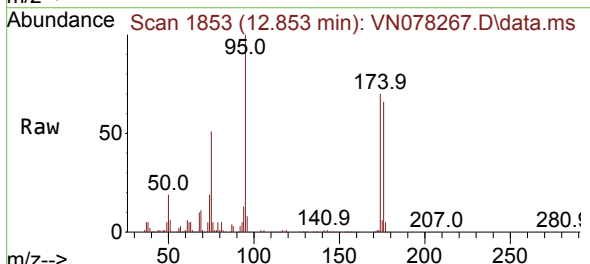


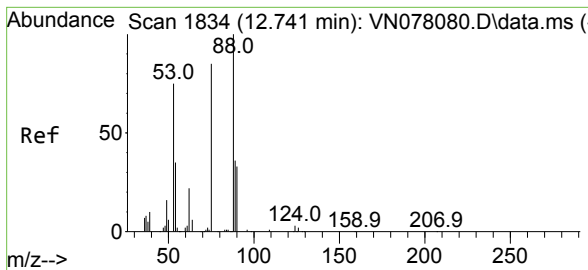
Tgt Ion: 83 Resp: 170  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.0 15.0#  
85 0.0 31.9 95.7#



#76  
1,2,3-Trichloropropane  
Concen: 28.845 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078267.D  
Acq: 16 Jun 2023 18:05

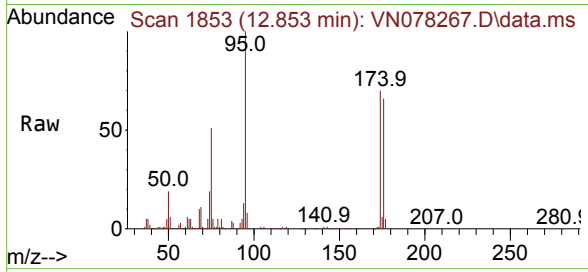
Tgt Ion: 75 Resp: 166037  
Ion Ratio Lower Upper  
75 100  
77 1.6 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 88.621 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN078267.D  
 Acq: 16 Jun 2023 18:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 166037  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 67.4 101.2#  
 89 0.0 38.8 58.2#

