

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072723\  
 Data File : VN078664.D  
 Acq On : 27 Jul 2023 16:55  
 Operator : JC\MD  
 Sample : PB154443ZHE#01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 28 01:09:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 8.235  | 168   | 688789   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112  | 114   | 755041   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 735598   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 276869   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 462355   | 50.071    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 100.140%  |          |
| 35) Dibromofluoromethane      | 8.177  | 113   | 431863   | 84.259    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 168.520%# |          |
| 50) Toluene-d8                | 10.576 | 98    | 942014   | 48.652    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 97.300%   |          |
| 62) 4-Bromofluorobenzene      | 12.859 | 95    | 317762   | 53.280    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 106.560%  |          |
| Target Compounds              |        |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 2.371  | 50    | 3011     | 0.328     | ug/l #      | 84       |
| 5) Bromomethane               | 2.983  | 94    | 3810     | Below Cal | #           | 78       |
| 6) Chloroethane               | 3.095  | 64    | 941      | Below Cal | #           | 57       |
| 10) Methyl Iodide             | 4.594  | 142   | 5240     | 0.508     | ug/l        | 99       |
| 11) Tert butyl alcohol        | 5.547  | 59    | 1981     | 1.391     | ug/l #      | 82       |
| 13) Acrolein                  | 4.200  | 56    | 1929     | 1.377     | ug/l #      | 75       |
| 15) Acrylonitrile             | 5.759  | 53    | 2614     | 0.727     | ug/l #      | 42       |
| 16) Acetone                   | 4.453  | 43    | 177485   | 61.704    | ug/l        | 97       |
| 17) Carbon Disulfide          | 4.724  | 76    | 9182     | 0.437     | ug/l        | 97       |
| 18) Methyl Acetate            | 5.042  | 43    | 12260    | 1.007     | ug/l #      | 42       |
| 20) Methylene Chloride        | 5.289  | 84    | 47341    | 4.628     | ug/l        | 90       |
| 25) 2-Butanone                | 7.500  | 43    | 103965   | 22.961    | ug/l        | 90       |
| 29) Tetrahydrofuran           | 7.871  | 42    | 3875     | 1.304     | ug/l #      | 36       |
| 31) Cyclohexane               | 8.241  | 56    | 16064    | 1.287     | ug/l #      | 31       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 54951    | 7.425     | ug/l #      | 49       |
| 37) Ethyl Acetate             | 7.577  | 43    | 27317    | 4.428     | ug/l        | 96       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 74585    | 9.273     | ug/l #      | 15       |
| 41) Methacrylonitrile         | 7.812  | 41    | 705      | 0.224     | ug/l #      | 15       |
| 42) 1,2-Dichloroethane        | 8.700  | 62    | 4628     | 0.621     | ug/l #      | 73       |
| 43) Isopropyl Acetate         | 8.700  | 43    | 525196   | 51.707    | ug/l #      | 83       |
| 48) Methyl methacrylate       | 9.753  | 41    | 298625   | 63.461    | ug/l #      | 28       |
| 49) 1,4-Dioxane               | 9.724  | 88    | 212      | 2.066     | ug/l #      | 30       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43    | 176014   | 29.134    | ug/l        | 90       |
| 54) cis-1,3-Dichloropropene   | 10.365 | 75    | 133050   | 15.551    | ug/l #      | 64       |
| 57) 1,3-Dichloropropane       | 11.212 | 76    | 18004    | 1.978     | ug/l #      | 42       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63    | 1954     | 0.733     | ug/l        | 90       |
| 59) 2-Hexanone                | 11.182 | 43    | 264297   | 61.553    | ug/l #      | 19       |
| 65) Chlorobenzene             | 11.906 | 112   | 3913     | 0.238     | ug/l        | 94       |
| 68) m/p-Xylenes               | 12.070 | 106   | 3029     | 0.295     | ug/l        | 76       |
| 74) N-amyl acetate            | 12.500 | 43    | 5457     | 0.609     | ug/l #      | 55       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83    | 1378     | Below Cal | #           | 57       |
| 76) 1,2,3-Trichloropropane    | 12.859 | 75    | 167242   | 24.990    | ug/l #      | 1        |
| 77) Bromobenzene              | 12.982 | 156   | 1794     | Below Cal | #           | 62       |
| 80) 1,3,5-Trimethylbenzene    | 13.188 | 105   | 4373     | 0.213     | ug/l        | 80       |
| 81) trans-1,4-Dichloro-2-b... | 12.859 | 75    | 167242   | 65.670    | ug/l #      | 15       |
| 82) 4-Chlorotoluene           | 13.223 | 91    | 5145     | 0.303     | ug/l #      | 1        |

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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 28 01:09:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

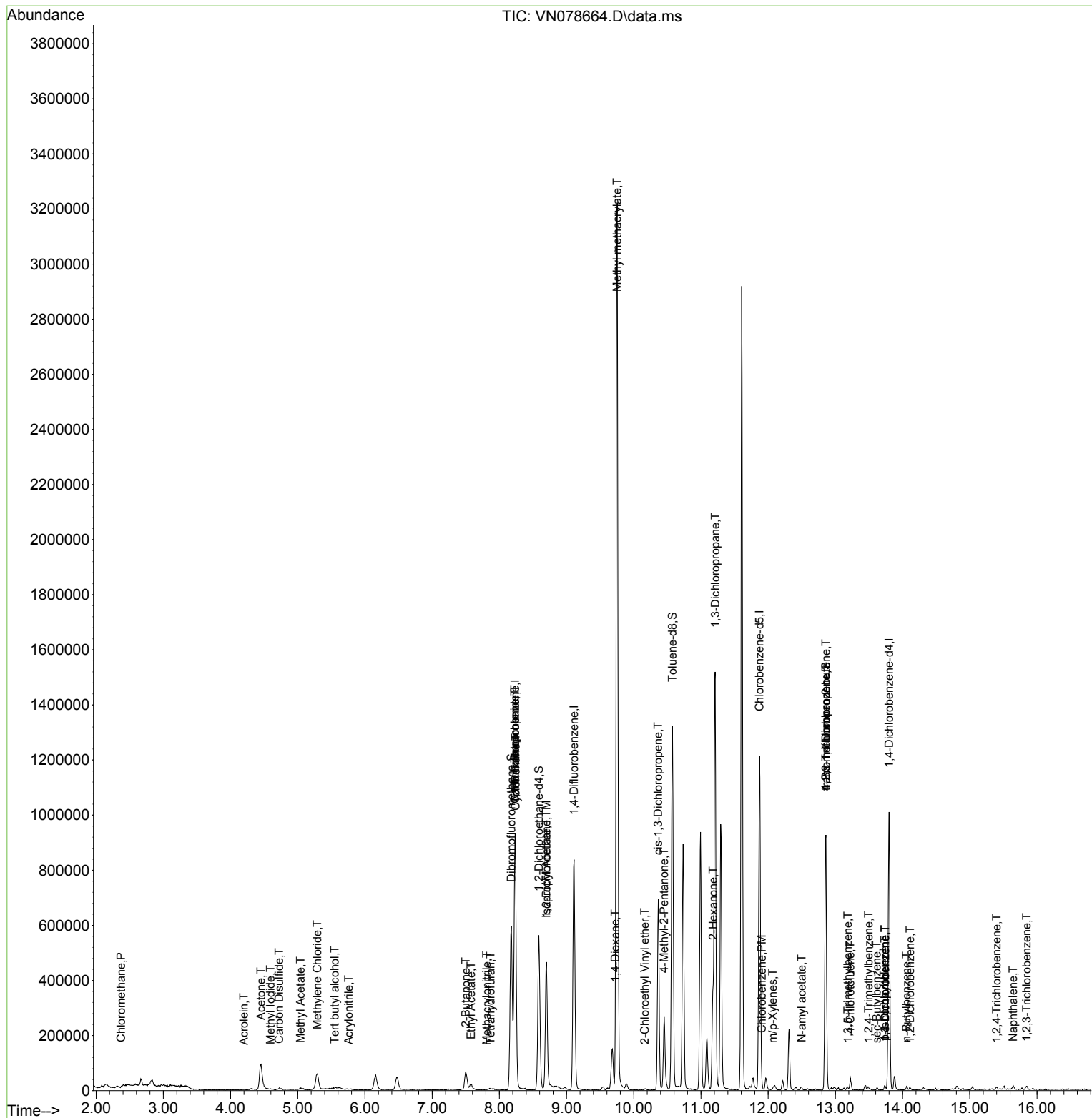
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| -----                         |        |      |          |           |        |          |
| 84) 1,2,4-Trimethylbenzene    | 13.494 | 105  | 5829     | 0.292     | ug/l   | 83       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 5691     | 0.258     | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 4180     | 0.236     | ug/l   | 92       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 3596     | 0.360     | ug/l   | 93       |
| 88) 1,4-Dichlorobenzene       | 13.741 | 146  | 3596     | 0.357     | ug/l   | 91       |
| 89) n-Butylbenzene            | 14.059 | 91   | 6250     | 0.493     | ug/l   | 89       |
| 90) Hexachloroethane          | 14.335 | 117  | 503      | Below Cal |        | 76       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 2841     | 0.286     | ug/l # | 61       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 768      | Below Cal |        | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 2991     | 0.943     | ug/l # | 91       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 2507     | Below Cal |        | 94       |
| 95) Naphthalene               | 15.647 | 128  | 10718    | 0.988     | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 4344     | 1.191     | ug/l   | 91       |
| -----                         |        |      |          |           |        |          |

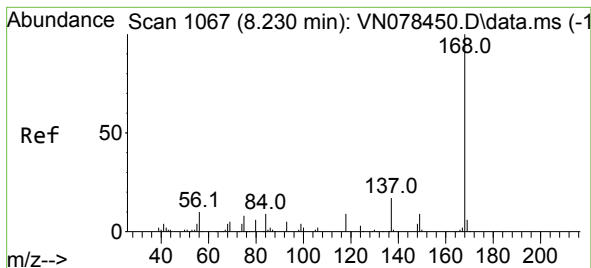
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

Instrument :

MSVOA\_N

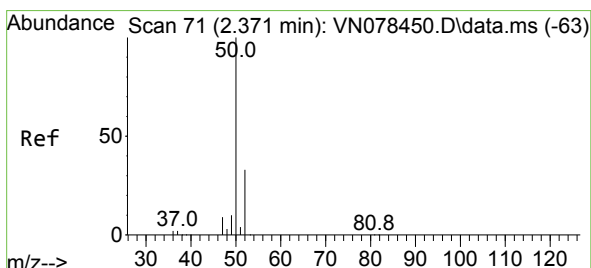
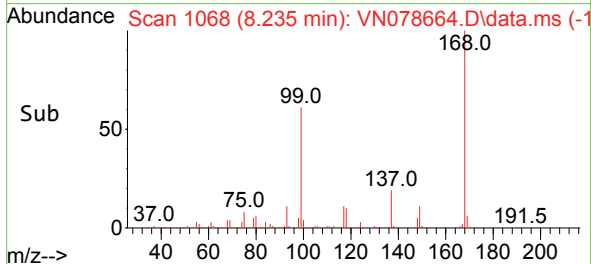
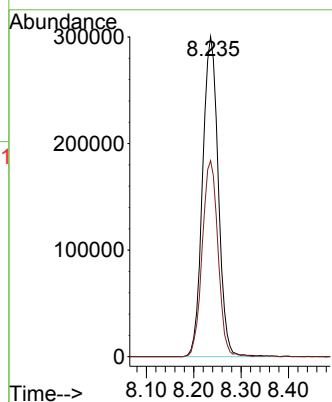
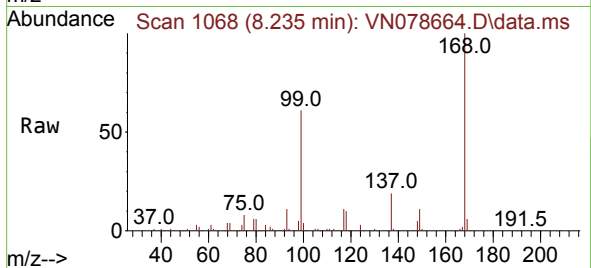
ClientSampleId :

Tgt Ion:168 Resp: 688789

Ion Ratio Lower Upper

168 100

99 61.2 53.0 79.6



#3

Chloromethane

Concen: 0.328 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078664.D

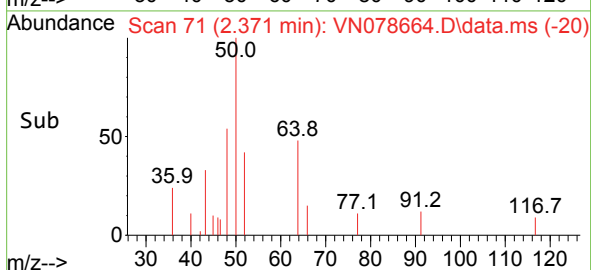
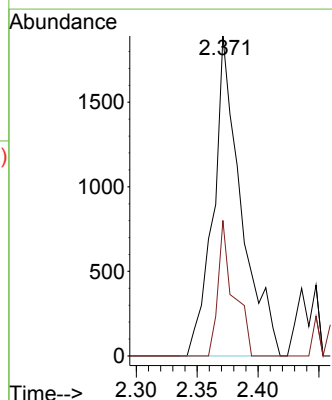
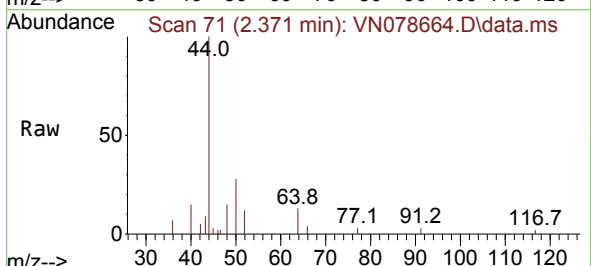
Acq: 27 Jul 2023 16:55

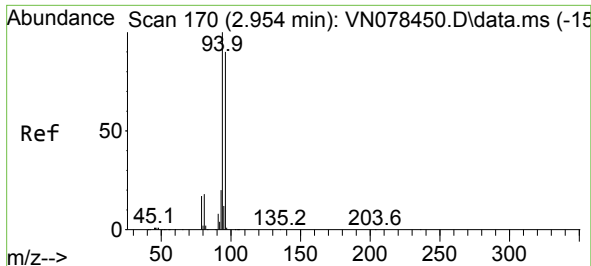
Tgt Ion: 50 Resp: 3011

Ion Ratio Lower Upper

50 100

52 42.3 26.5 39.7#

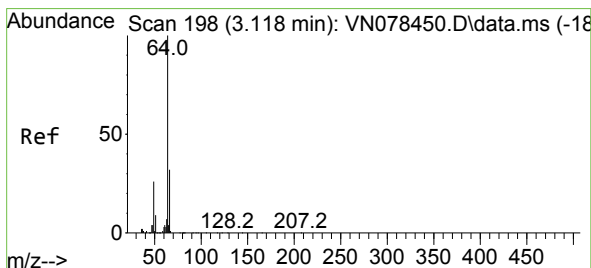
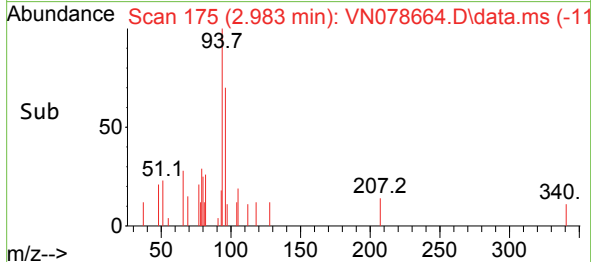
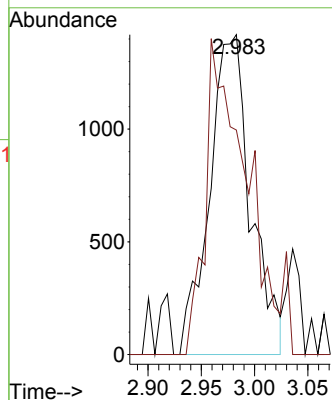
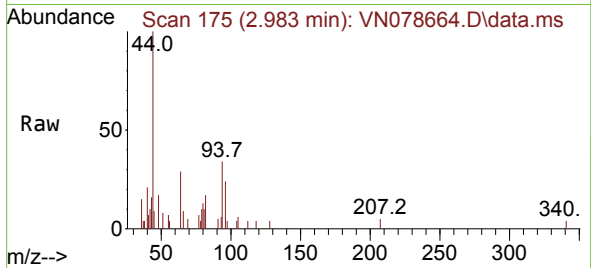




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.983 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

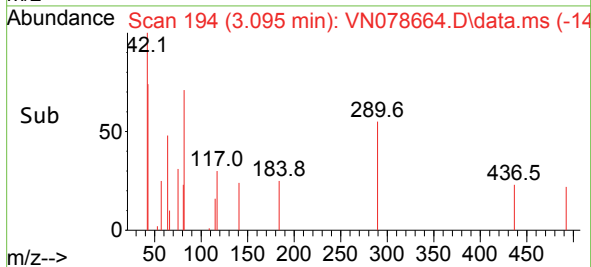
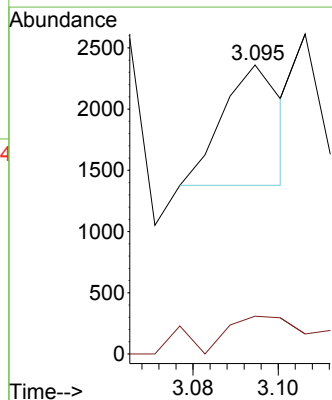
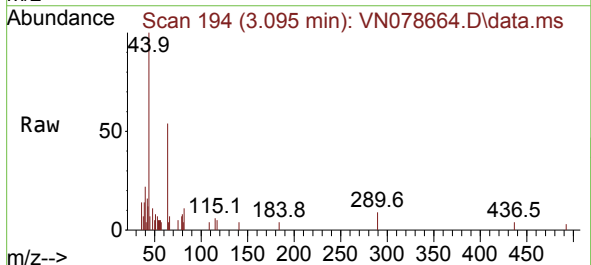
Instrument :  
MSVOA\_N  
ClientSampleId :

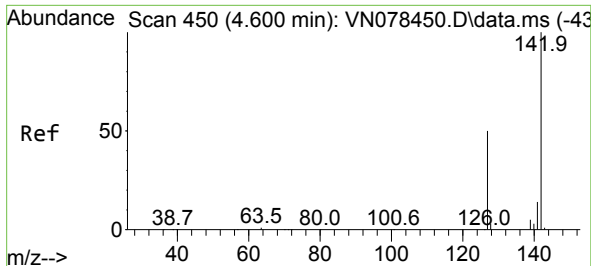
Tgt Ion: 94 Resp: 3810  
Ion Ratio Lower Upper  
94 100  
96 70.2 73.1 109.7#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.095 min Scan# 194  
Delta R.T. -0.023 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

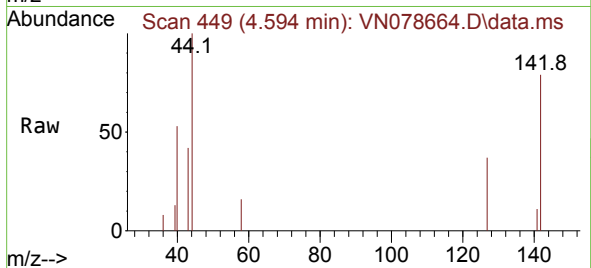
Tgt Ion: 64 Resp: 941  
Ion Ratio Lower Upper  
64 100  
66 8.1 25.4 38.2#



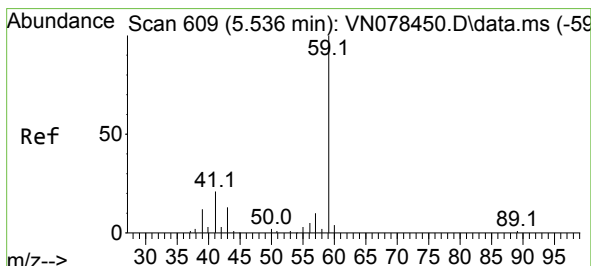
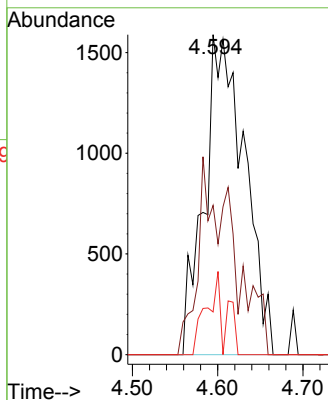
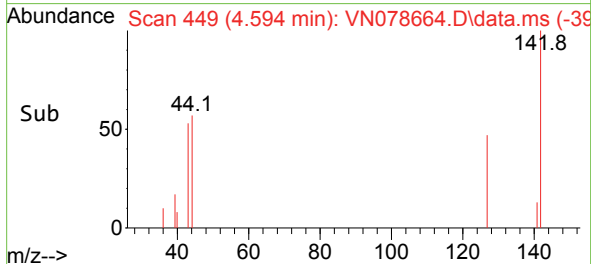


#10  
Methyl Iodide  
Concen: 0.508 ug/l  
RT: 4.594 min Scan# 449  
Delta R.T. -0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

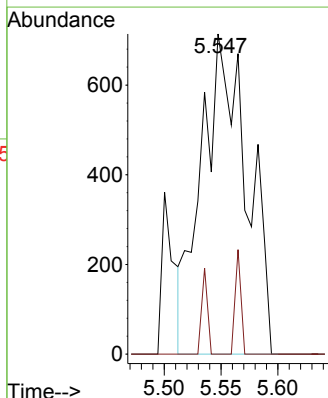
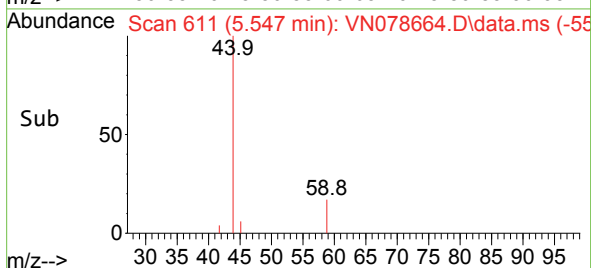
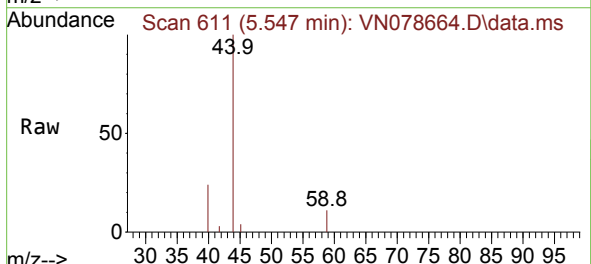


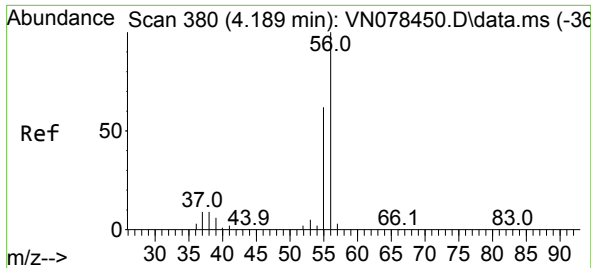
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|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 5240  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 46.6  | 37.6  | 56.4  |
| 141      | 13.3  | 11.4  | 17.0  |



#11  
Tert butyl alcohol  
Concen: 1.391 ug/l  
RT: 5.547 min Scan# 611  
Delta R.T. 0.011 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

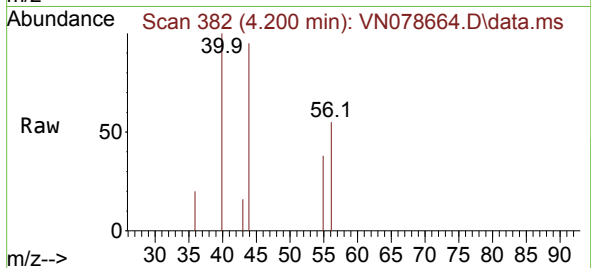
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 1981  |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 3.4   | 8.2   | 12.4# |



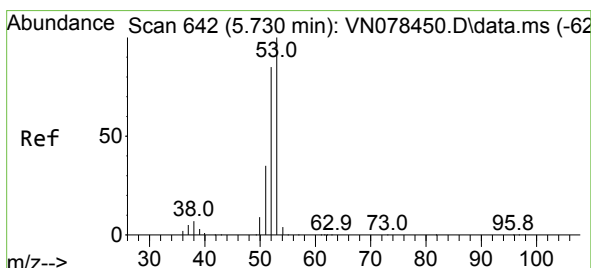
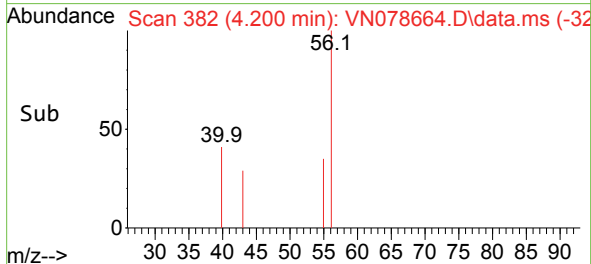
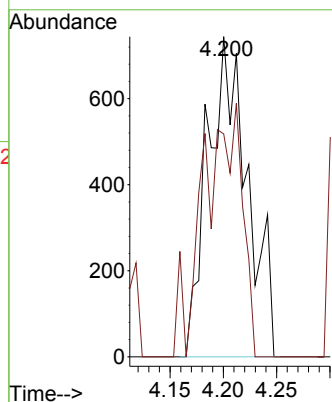


#13  
Acrolein  
Concen: 1.377 ug/l  
RT: 4.200 min Scan# 31  
Delta R.T. 0.011 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

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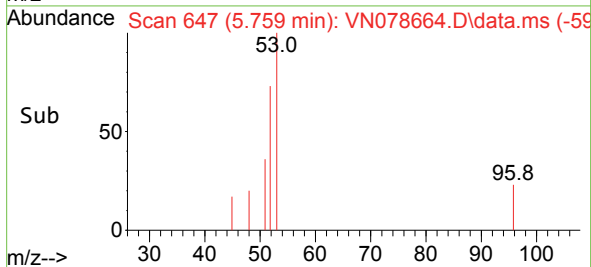
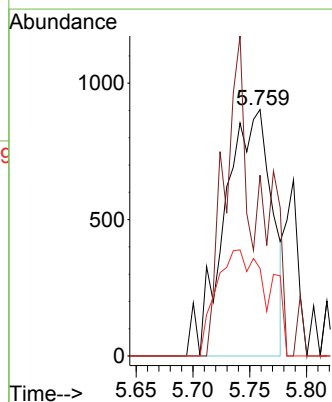
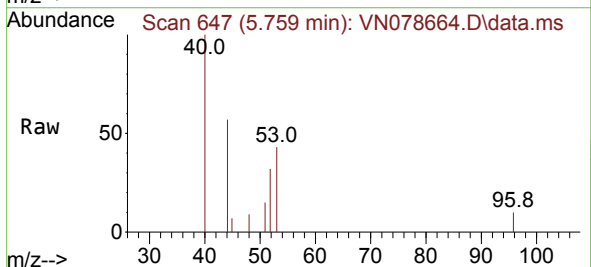


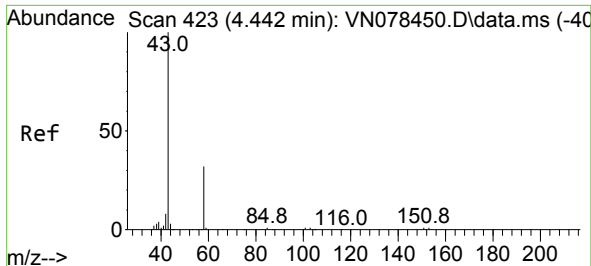
Tgt Ion: 56 Resp: 1929  
Ion Ratio Lower Upper  
56 100  
55 48.3 54.5 81.7#



#15  
Acrylonitrile  
Concen: 0.727 ug/l  
RT: 5.759 min Scan# 647  
Delta R.T. 0.029 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 53 Resp: 2614  
Ion Ratio Lower Upper  
53 100  
52 30.9 65.3 97.9#  
51 0.0 28.9 43.3#

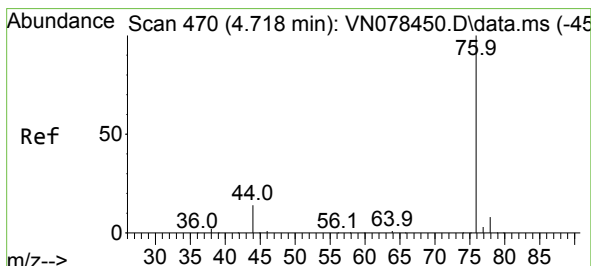
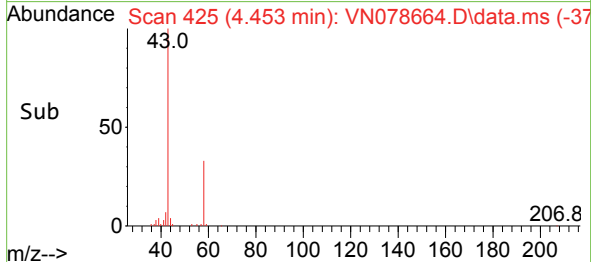
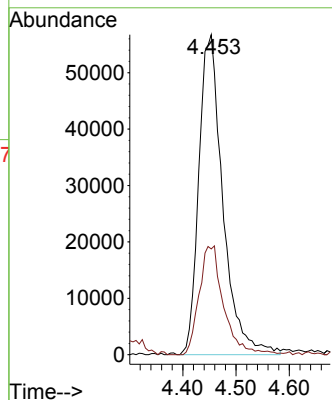
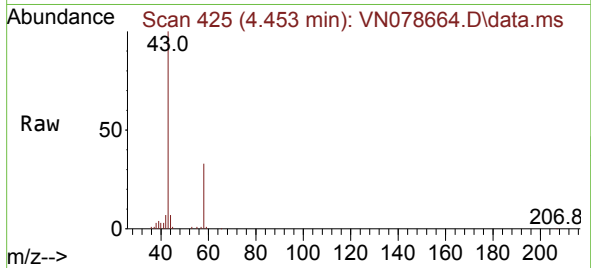




#16  
Acetone  
Concen: 61.704 ug/l  
RT: 4.453 min Scan# 41  
Delta R.T. 0.011 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

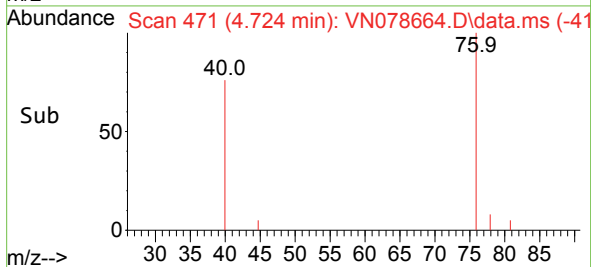
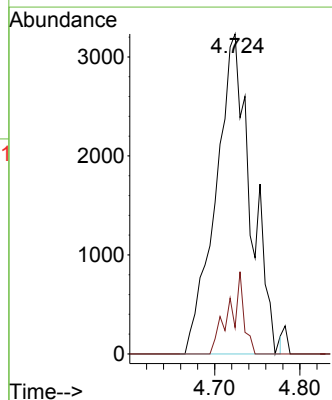
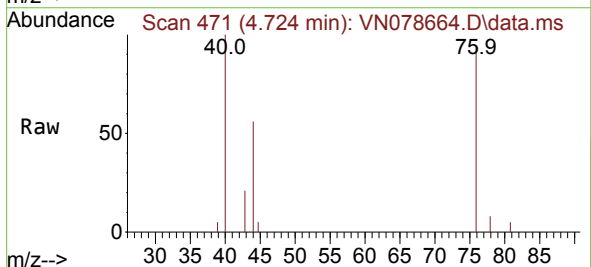
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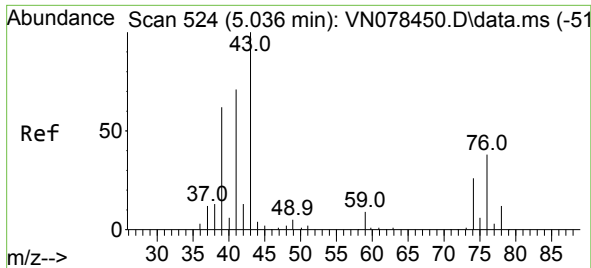
Tgt Ion: 43 Resp: 177485  
Ion Ratio Lower Upper  
43 100  
58 33.1 28.0 42.0



#17  
Carbon Disulfide  
Concen: 0.437 ug/l  
RT: 4.724 min Scan# 471  
Delta R.T. 0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 76 Resp: 9182  
Ion Ratio Lower Upper  
76 100  
78 8.3 7.4 11.0

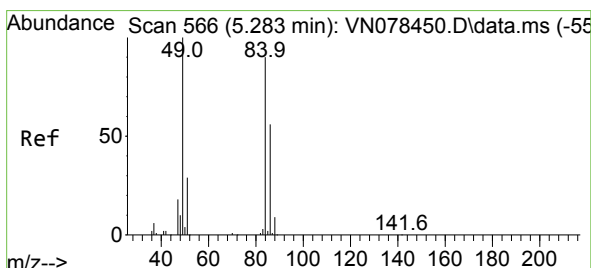
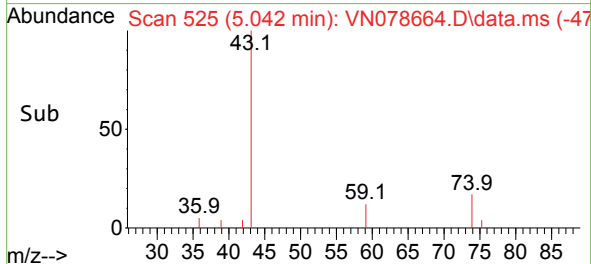
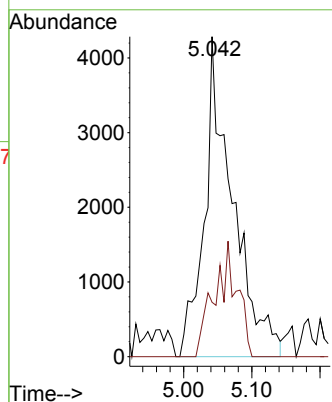
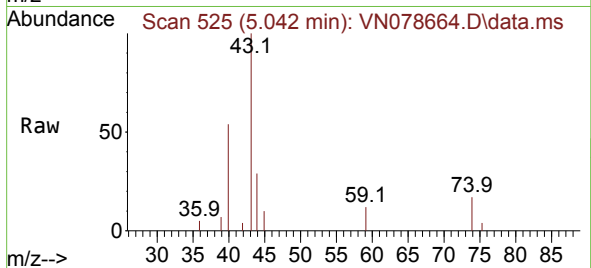




#18  
Methyl Acetate  
Concen: 1.007 ug/l  
RT: 5.042 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

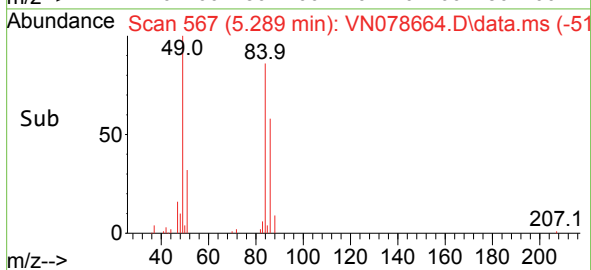
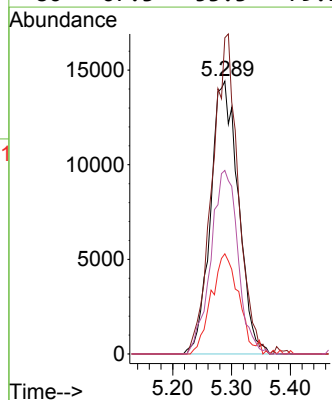
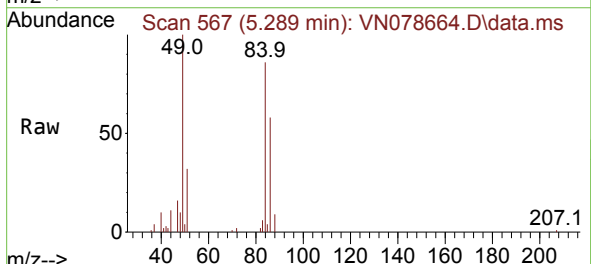
Instrument :  
MSVOA\_N  
ClientSampleId :

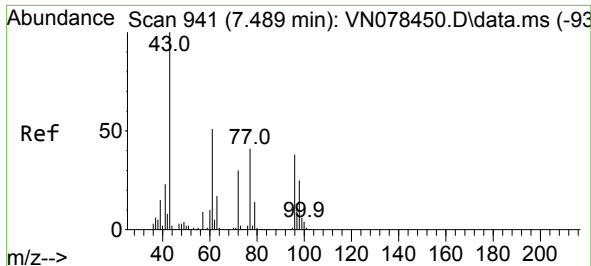
Tgt Ion: 43 Resp: 12260  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.2 39.4#



#20  
Methylene Chloride  
Concen: 4.628 ug/l  
RT: 5.289 min Scan# 567  
Delta R.T. 0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

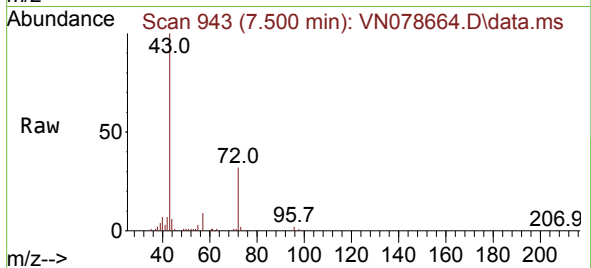
Tgt Ion: 84 Resp: 47341  
Ion Ratio Lower Upper  
84 100  
49 115.9 79.7 119.5  
51 36.7 25.2 37.8  
86 67.3 53.3 79.9



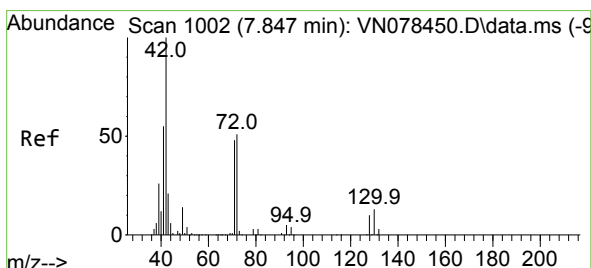
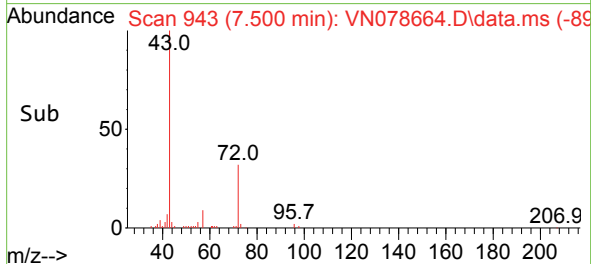
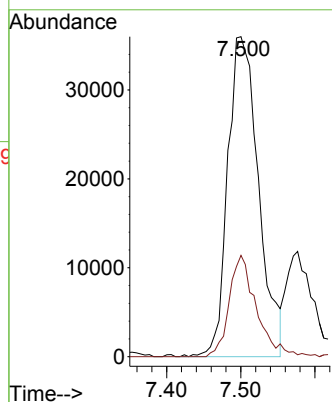


#25  
2-Butanone  
Concen: 22.961 ug/l  
RT: 7.500 min Scan# 941  
Delta R.T. 0.011 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

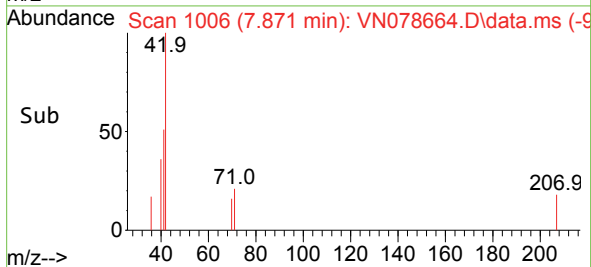
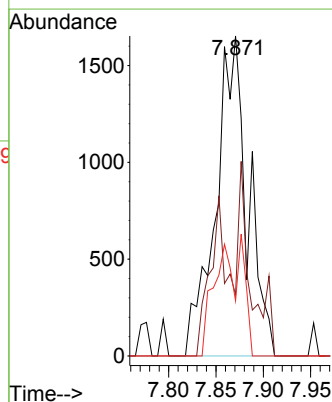
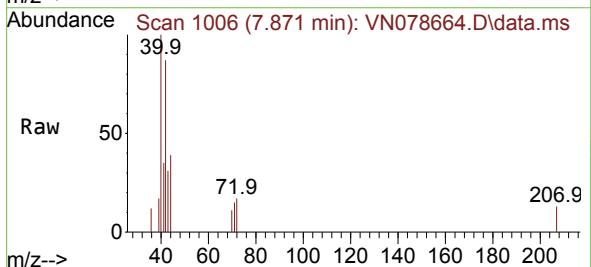


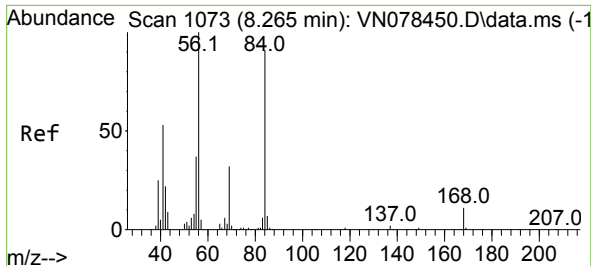
Tgt Ion: 43 Resp: 103965  
Ion Ratio Lower Upper  
43 100  
72 31.7 30.2 45.2



#29  
Tetrahydrofuran  
Concen: 1.304 ug/l  
RT: 7.871 min Scan# 1006  
Delta R.T. 0.024 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

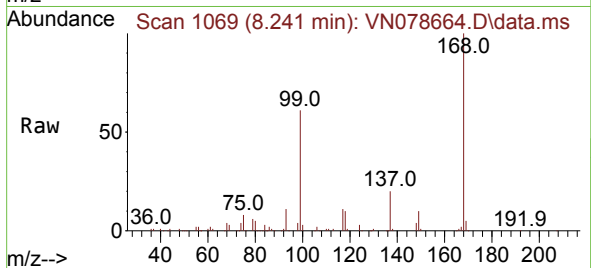
Tgt Ion: 42 Resp: 3875  
Ion Ratio Lower Upper  
42 100  
72 23.2 49.8 74.6#  
71 0.0 47.4 71.2#



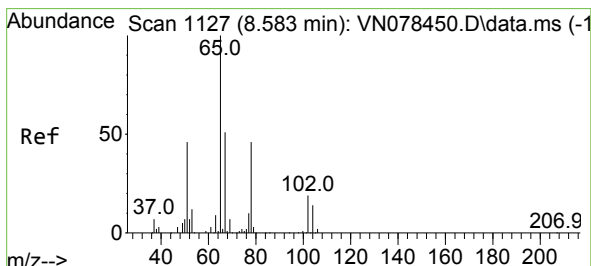
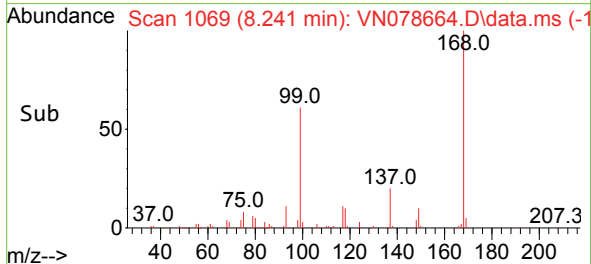
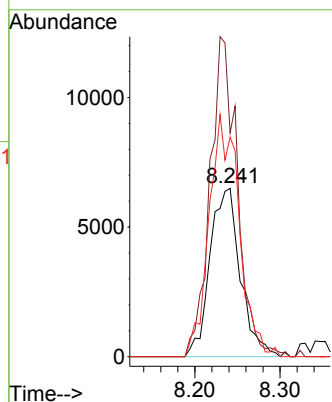


#31  
Cyclohexane  
Concen: 1.287 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. -0.024 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

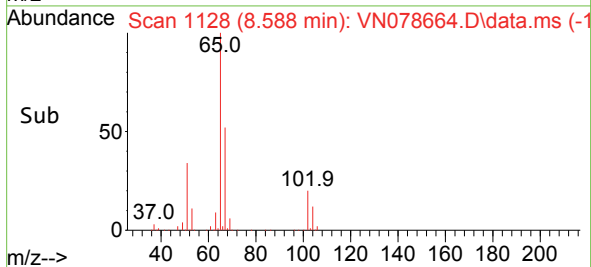
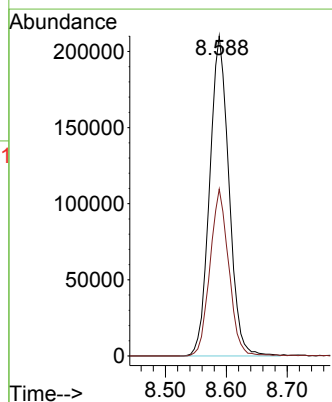
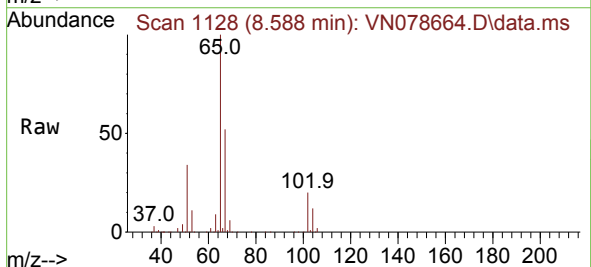


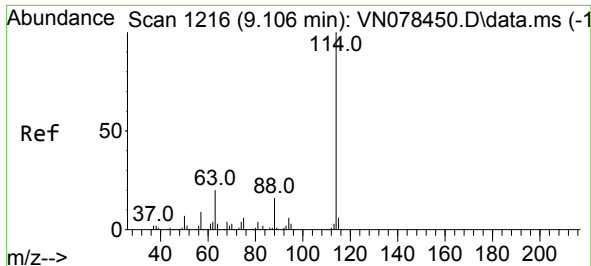
Tgt Ion: 56 Resp: 16064  
Ion Ratio Lower Upper  
56 100  
69 133.0 26.8 40.2#  
84 136.4 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 50.071 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.005 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

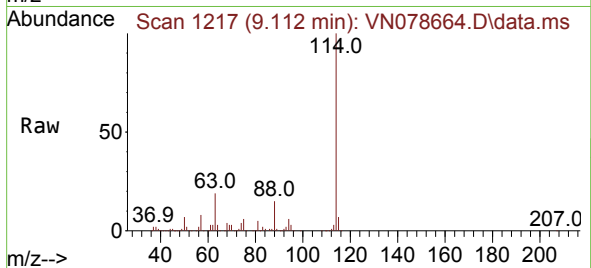
Tgt Ion: 65 Resp: 462355  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 106.6



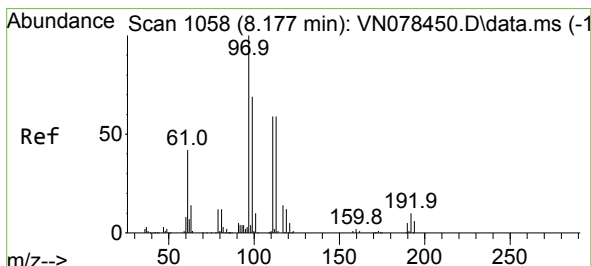
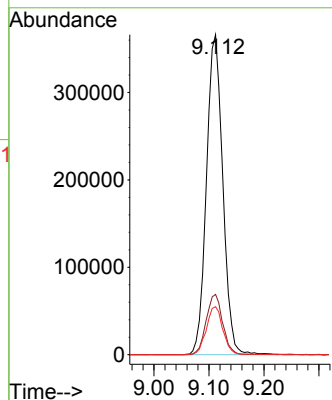
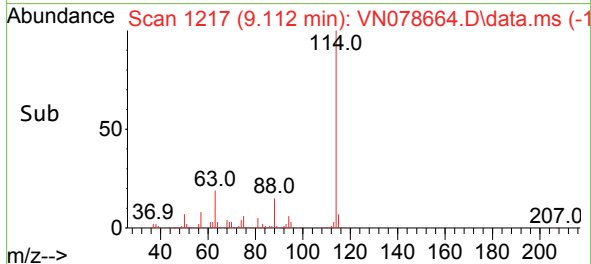


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.112 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

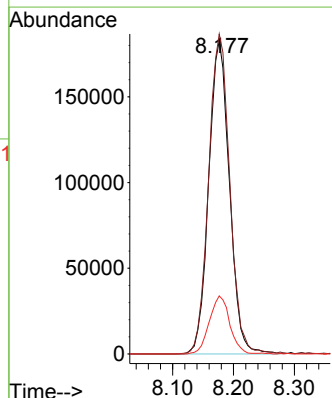
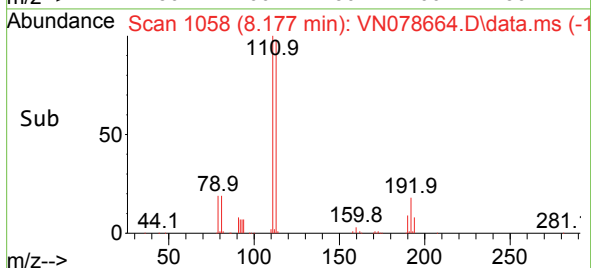
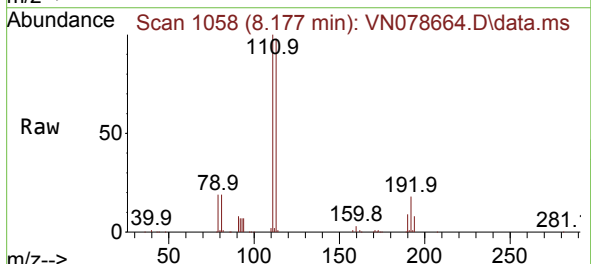


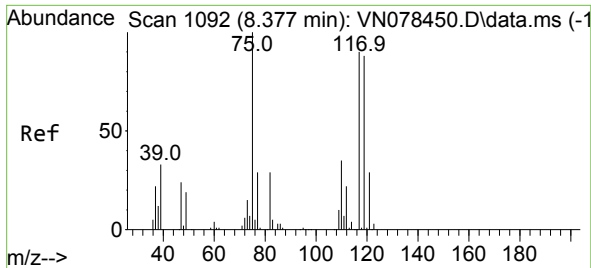
Tgt Ion:114 Resp: 755041  
Ion Ratio Lower Upper  
114 100  
63 18.8 0.0 36.4  
88 15.0 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 84.259 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. -0.000 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

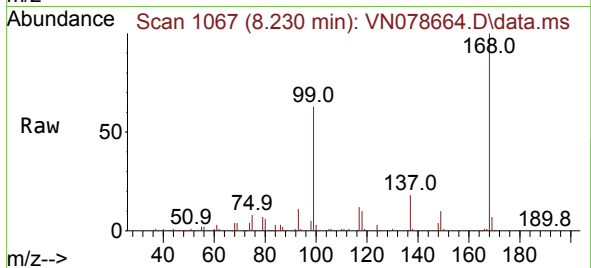
Tgt Ion:113 Resp: 431863  
Ion Ratio Lower Upper  
113 100  
111 104.1 82.6 123.8  
192 18.2 12.7 19.1



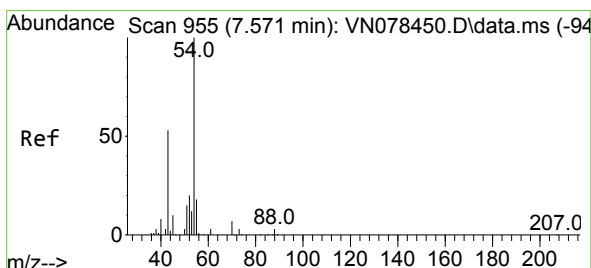
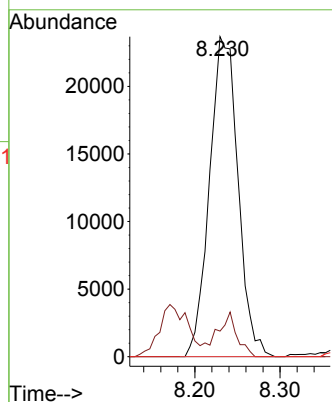
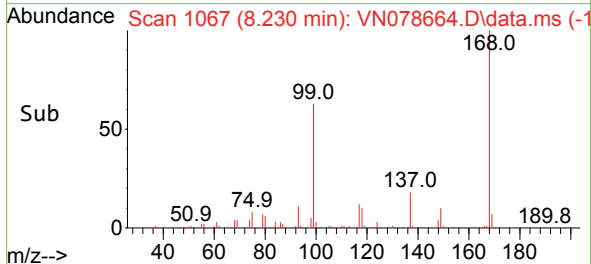


#36  
1,1-Dichloropropene  
Concen: 7.425 ug/l  
RT: 8.230 min Scan# 110  
Delta R.T. -0.147 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

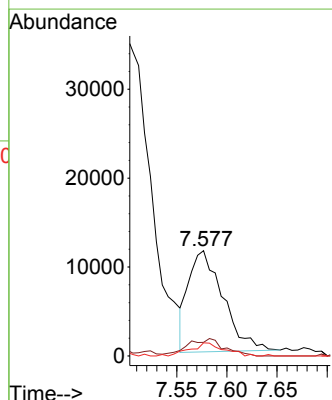
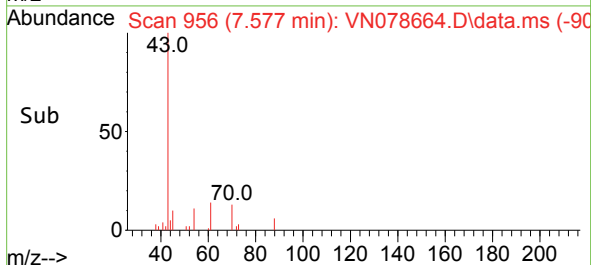
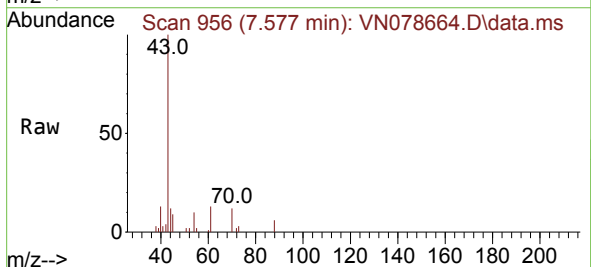


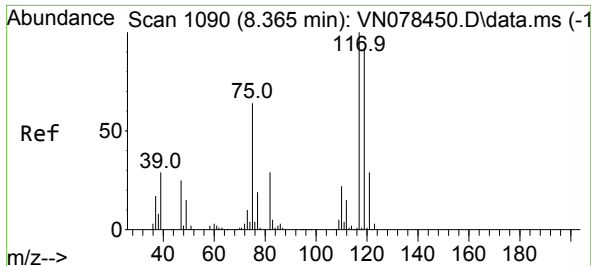
Tgt Ion: 75 Resp: 54951  
Ion Ratio Lower Upper  
75 100  
110 9.9 19.1 57.3#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 4.428 ug/l  
RT: 7.577 min Scan# 956  
Delta R.T. 0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

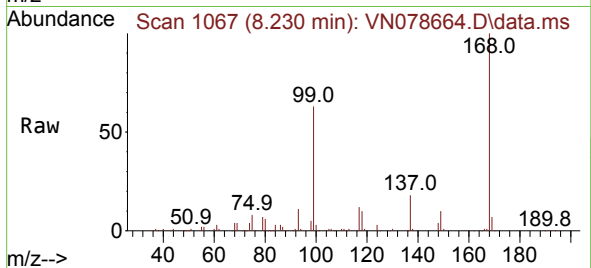
Tgt Ion: 43 Resp: 27317  
Ion Ratio Lower Upper  
43 100  
61 18.2 13.2 19.8  
70 12.5 11.3 16.9



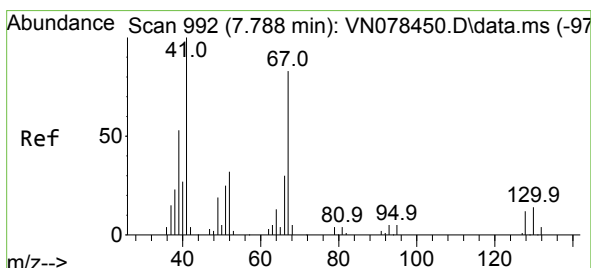
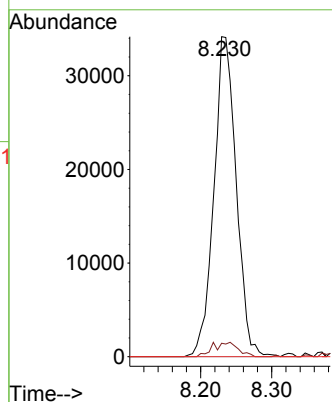
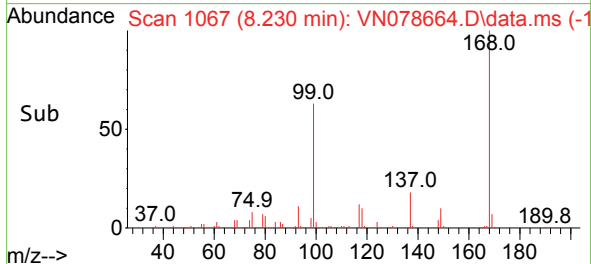


#38  
Carbon Tetrachloride  
Concen: 9.273 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.135 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

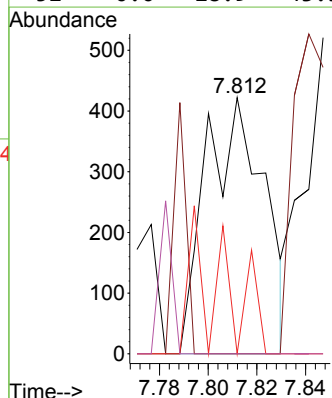
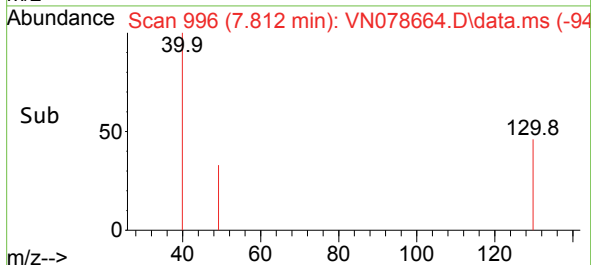
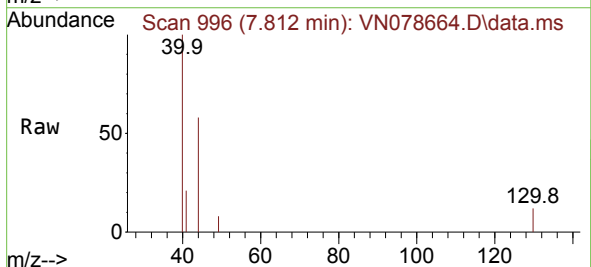


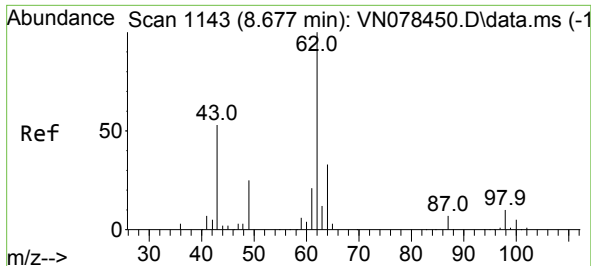
Tgt Ion:117 Resp: 74585  
Ion Ratio Lower Upper  
117 100  
119 4.2 77.3 115.9#  
121 0.0 23.3 34.9#



#41  
Methacrylonitrile  
Concen: 0.224 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. 0.024 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 41 Resp: 705  
Ion Ratio Lower Upper  
41 100  
39 0.0 42.6 64.0#  
67 0.0 77.5 116.3#  
52 0.0 28.9 43.3#





#42

1,2-Dichloroethane

Concen: 0.621 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.023 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

Instrument :

MSVOA\_N

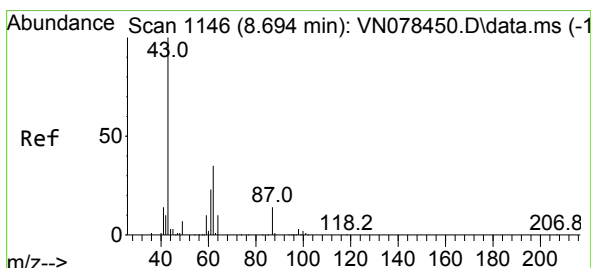
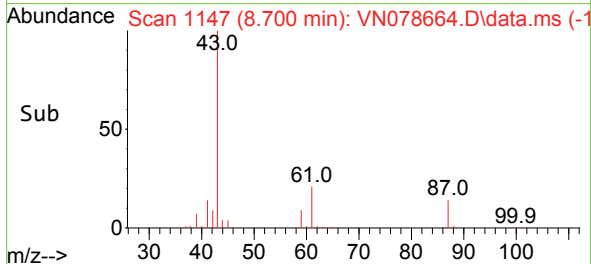
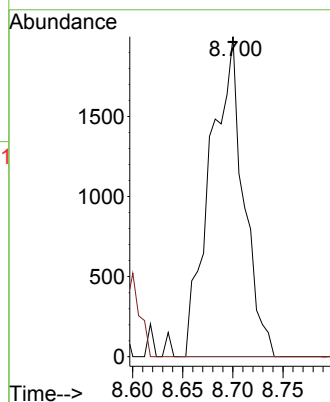
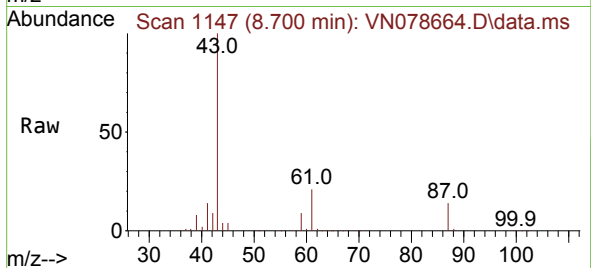
ClientSampleId :

Tgt Ion: 62 Resp: 4628

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 51.707 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

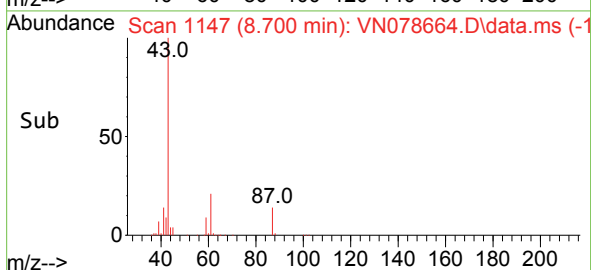
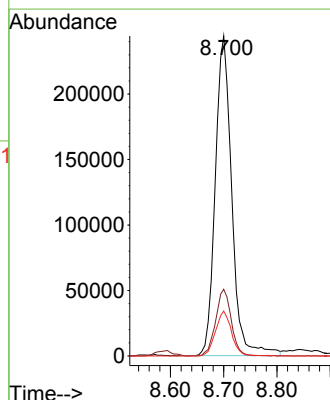
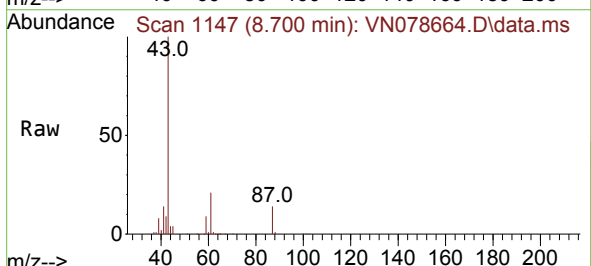
Tgt Ion: 43 Resp: 525196

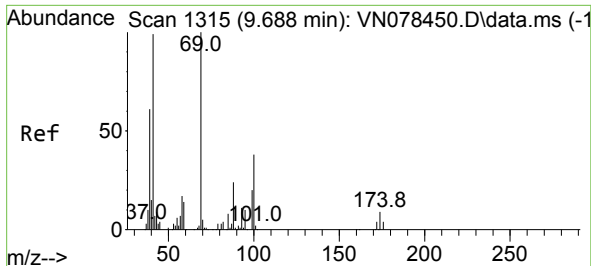
Ion Ratio Lower Upper

43 100

61 19.8 24.7 37.1#

87 13.6 14.6 21.8#

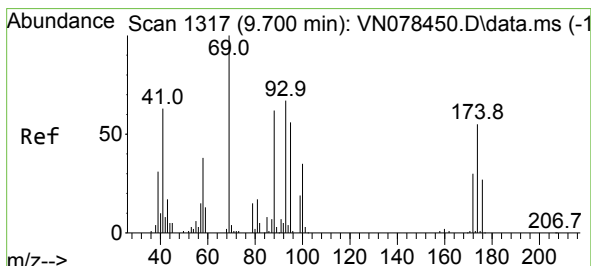
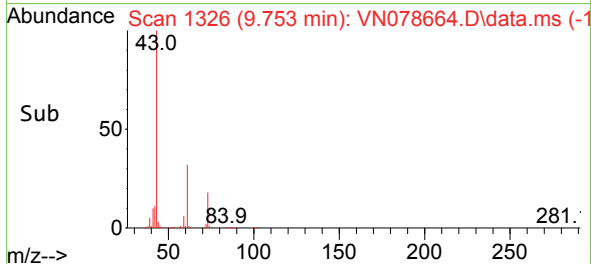
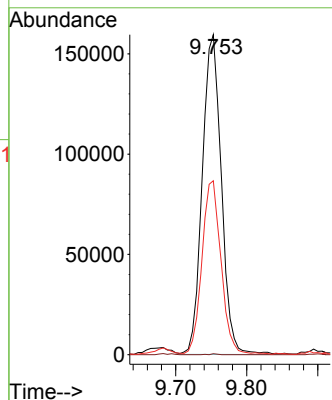
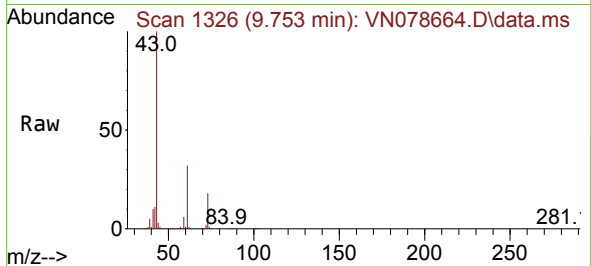




#48  
Methyl methacrylate  
Concen: 63.461 ug/l  
RT: 9.753 min Scan# 11  
Delta R.T. 0.065 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

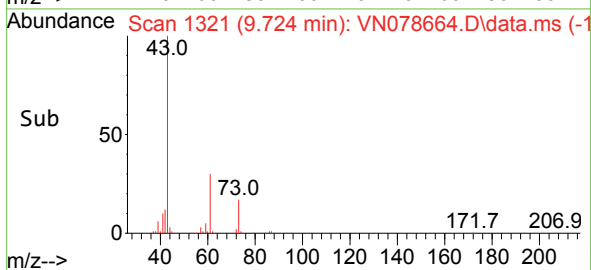
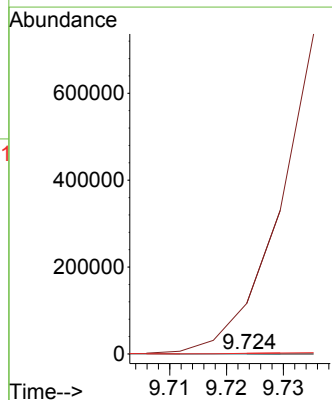
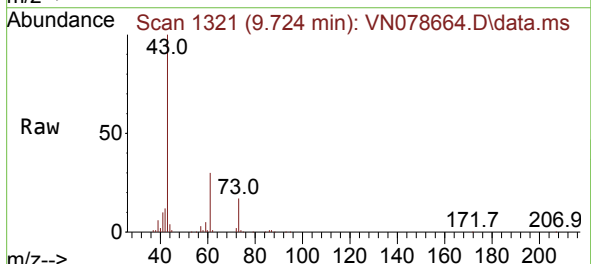
Instrument :  
MSVOA\_N  
ClientSampleId :

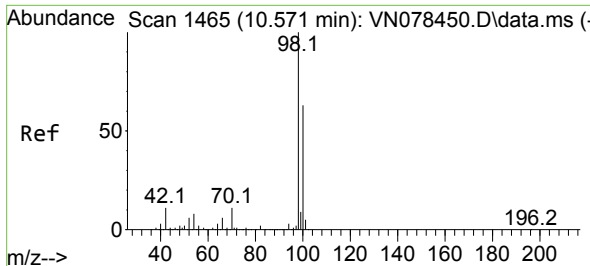
Tgt Ion: 41 Resp: 298625  
Ion Ratio Lower Upper  
41 100  
69 0.1 90.4 135.6#  
39 54.1 54.6 81.8#



#49  
1,4-Dioxane  
Concen: 2.066 ug/l  
RT: 9.724 min Scan# 1321  
Delta R.T. 0.024 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 88 Resp: 212  
Ion Ratio Lower Upper  
88 100  
43 0.0 17.0 25.6#  
58 0.0 47.0 70.4#

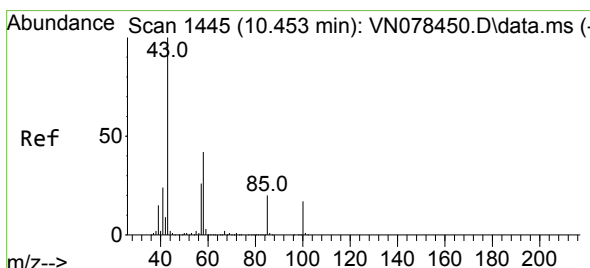
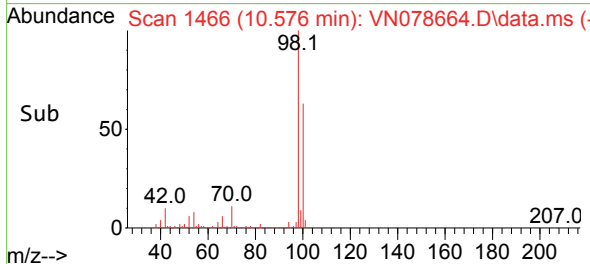
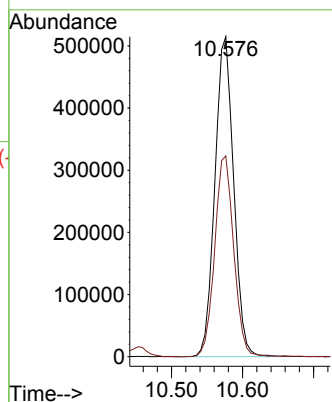
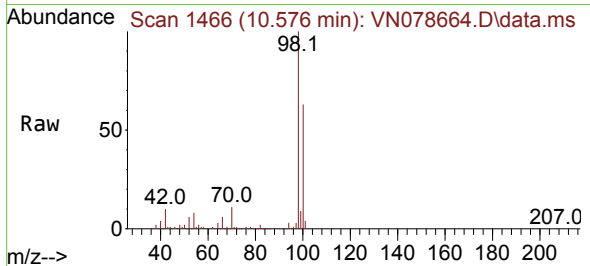




#50  
Toluene-d8  
Concen: 48.652 ug/l  
RT: 10.576 min Scan# 1466  
Delta R.T. 0.005 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

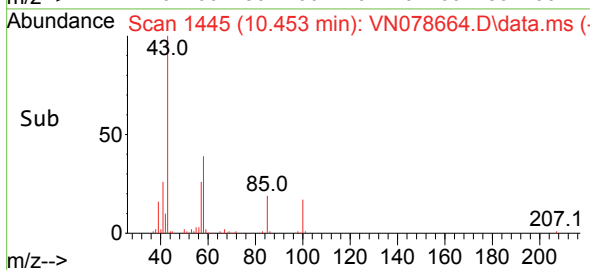
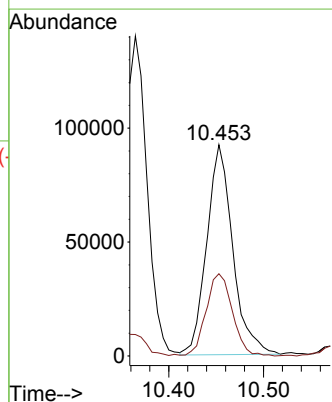
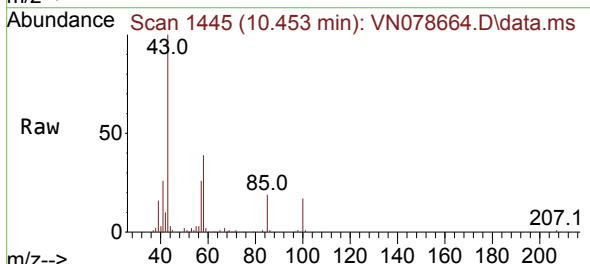
Instrument :  
MSVOA\_N  
ClientSampleId :

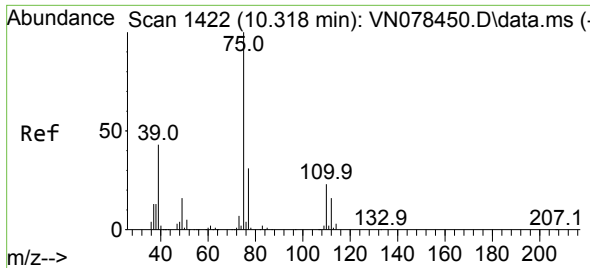
Tgt Ion: 98 Resp: 942014  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 29.134 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 43 Resp: 176014  
Ion Ratio Lower Upper  
43 100  
58 39.4 36.6 54.8

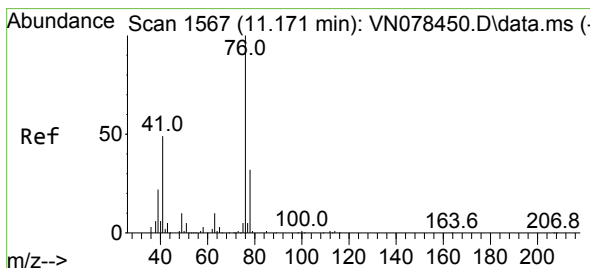
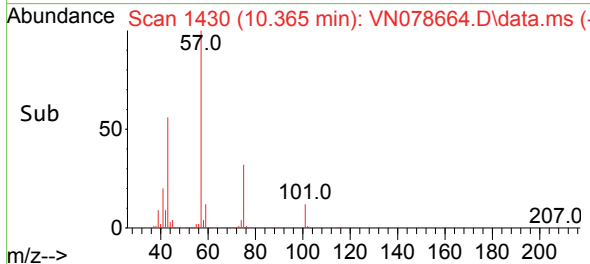
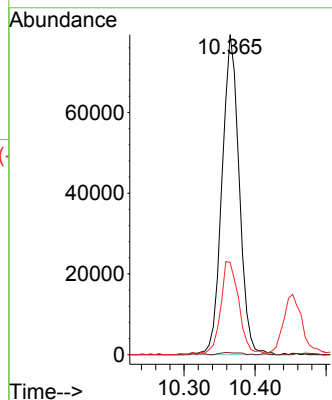
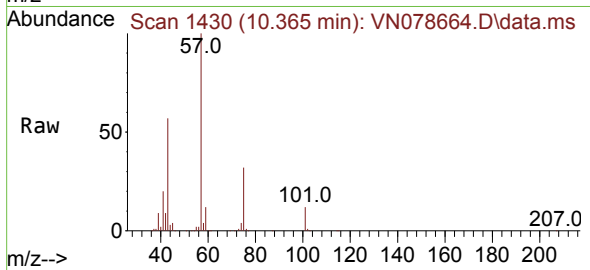




#54  
 cis-1,3-Dichloropropene  
 Concen: 15.551 ug/l  
 RT: 10.365 min Scan# 1422  
 Delta R.T. 0.047 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

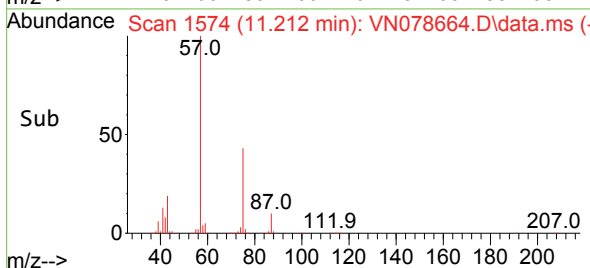
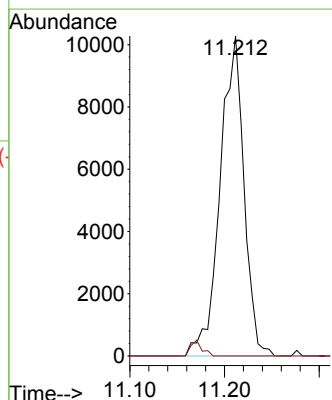
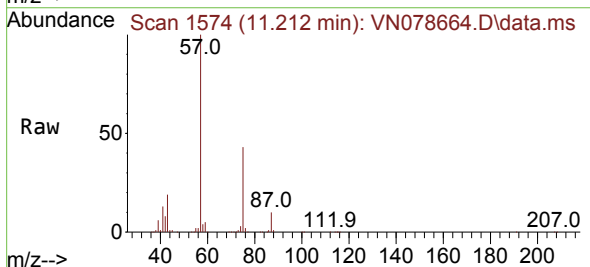
Instrument :  
 MSVOA\_N  
 ClientSampleId :

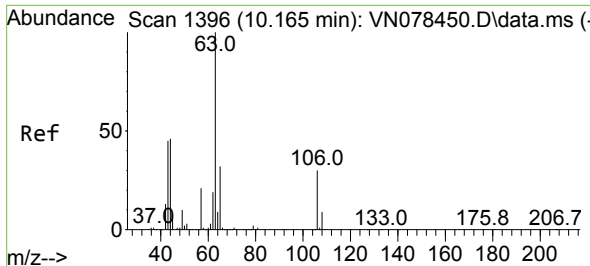
Tgt Ion: 75 Resp: 133050  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 26.1 39.1#  
 39 28.5 31.6 47.4#



#57  
 1,3-Dichloropropane  
 Concen: 1.978 ug/l  
 RT: 11.212 min Scan# 1574  
 Delta R.T. 0.041 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

Tgt Ion: 76 Resp: 18004  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#

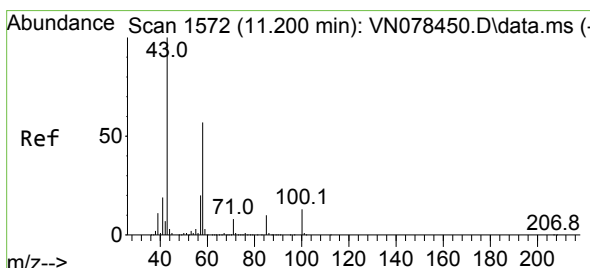
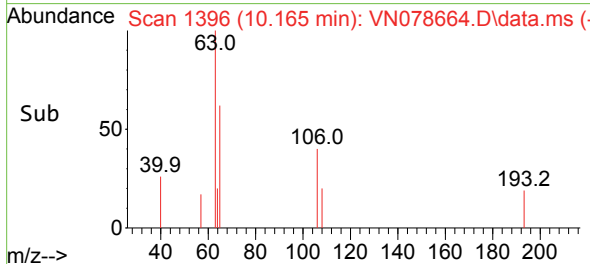
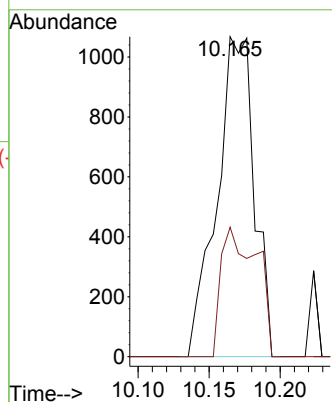
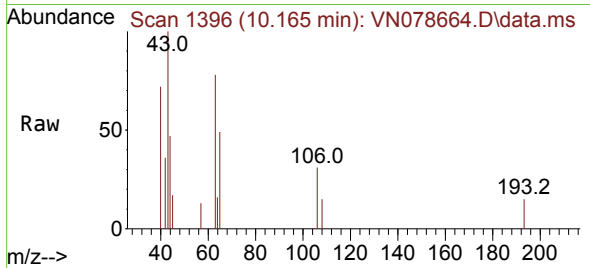




#58  
2-Chloroethyl Vinyl ether  
Concen: 0.733 ug/l  
RT: 10.165 min Scan# 1396  
Delta R.T. -0.000 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

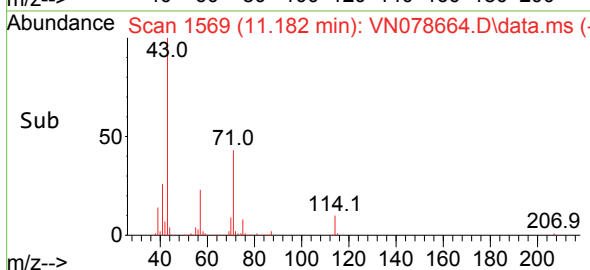
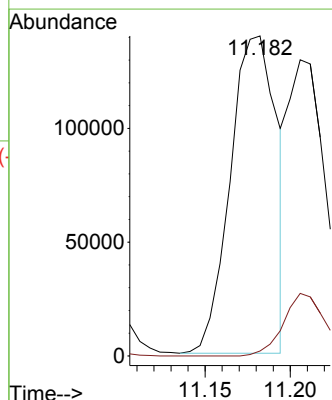
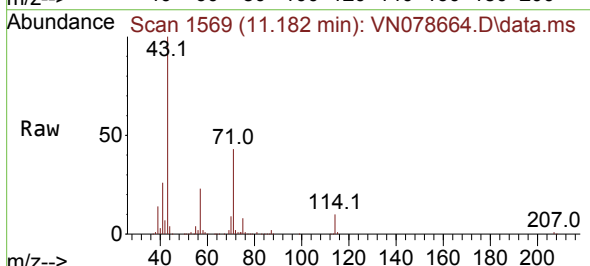
Instrument :  
MSVOA\_N  
ClientSampleId :

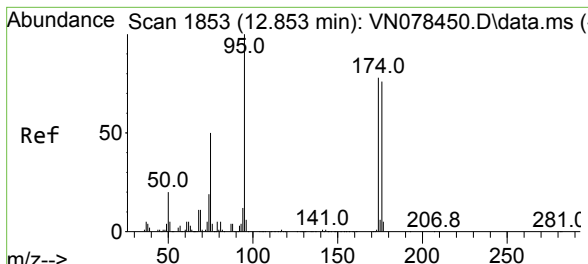
Tgt Ion: 63 Resp: 1954  
Ion Ratio Lower Upper  
63 100  
106 38.6 26.2 39.4



#59  
2-Hexanone  
Concen: 61.553 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. -0.018 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

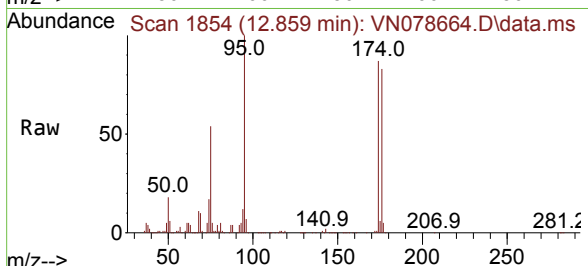
Tgt Ion: 43 Resp: 264297  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 95.1#





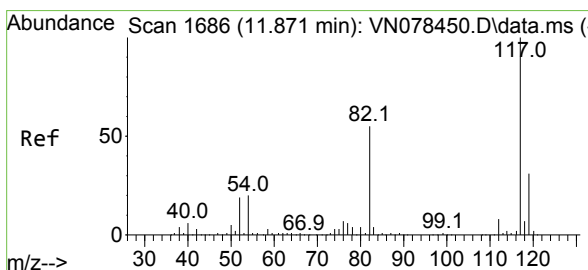
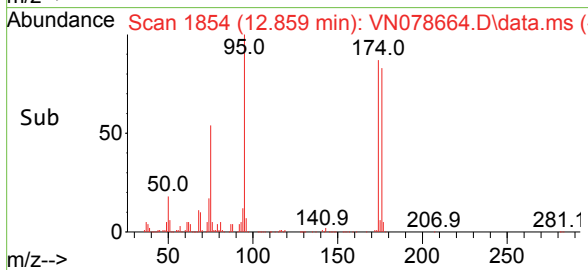
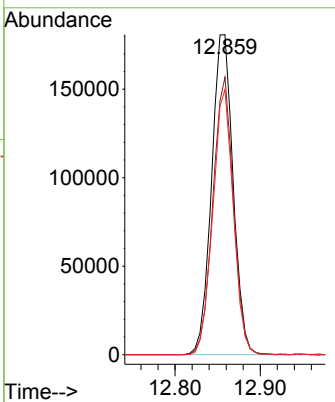
#62  
 4-Bromofluorobenzene  
 Concen: 53.280 ug/l  
 RT: 12.859 min Scan# 1854  
 Delta R.T. 0.006 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 95 Resp: 317762

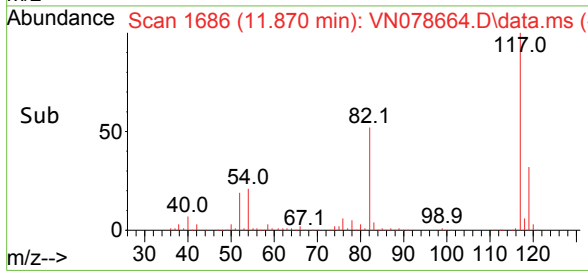
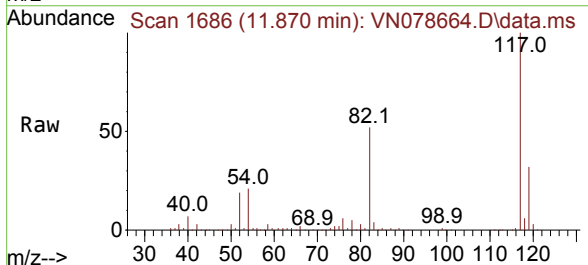
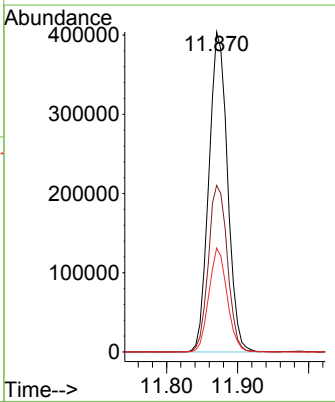
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 83.0  | 0.0   | 143.8 |
| 176 | 79.0  | 0.0   | 135.8 |

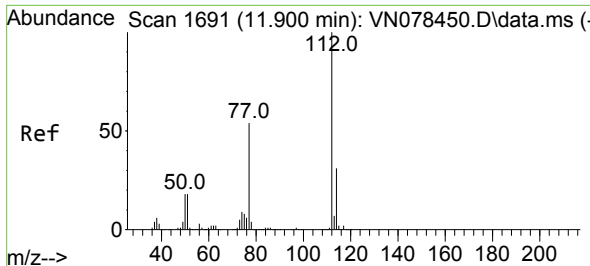


#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.870 min Scan# 1686  
 Delta R.T. -0.001 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

Tgt Ion: 117 Resp: 735598

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 52.0  | 44.0  | 66.0  |
| 119 | 32.4  | 25.6  | 38.4  |

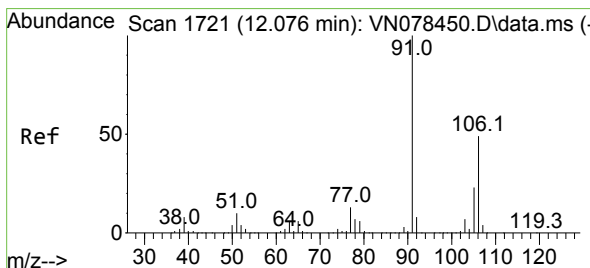
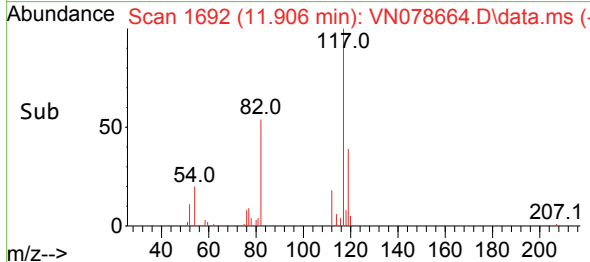
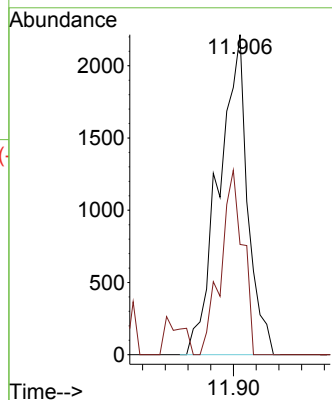
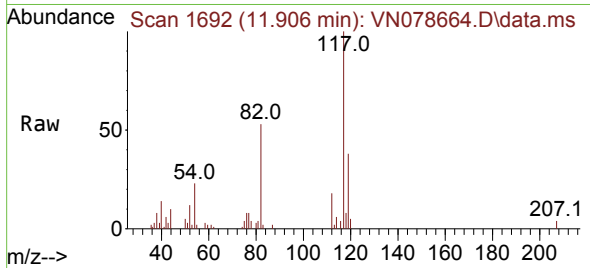




#65  
Chlorobenzene  
Concen: 0.238 ug/l  
RT: 11.906 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

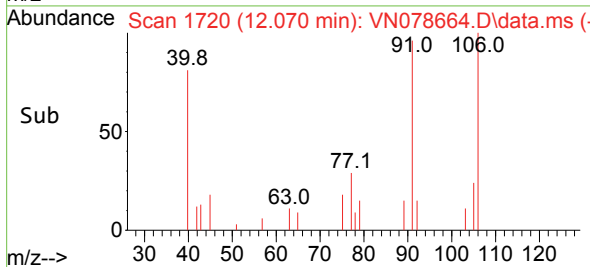
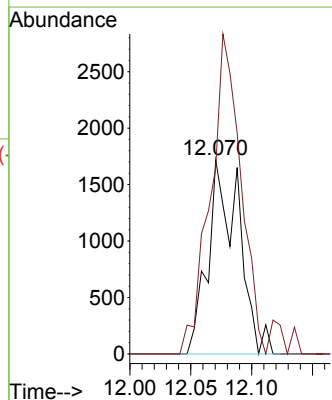
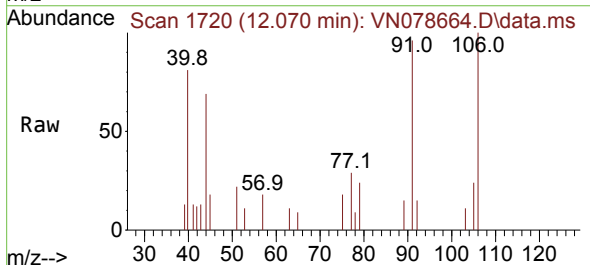
Instrument :  
MSVOA\_N  
ClientSampleId :

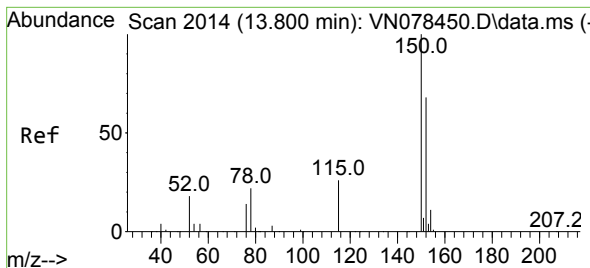
Tgt Ion:112 Resp: 3913  
Ion Ratio Lower Upper  
112 100  
114 34.4 25.0 37.4



#68  
m/p-Xylenes  
Concen: 0.295 ug/l  
RT: 12.070 min Scan# 1720  
Delta R.T. -0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion:106 Resp: 3029  
Ion Ratio Lower Upper  
106 100  
91 163.2 159.6 239.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

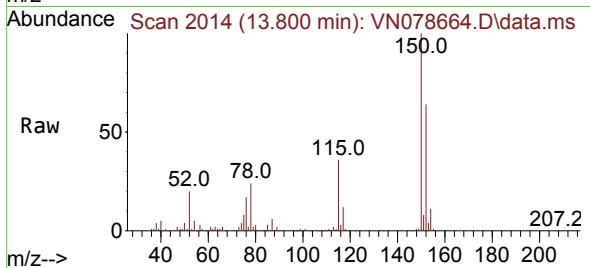
Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

Instrument :

MSVOA\_N

ClientSampleId :



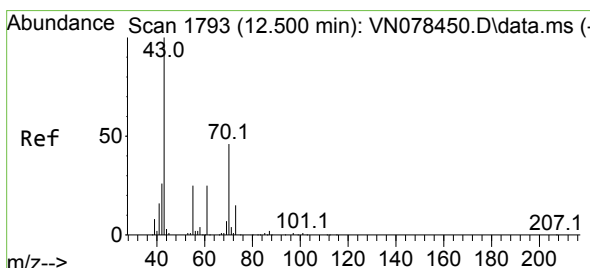
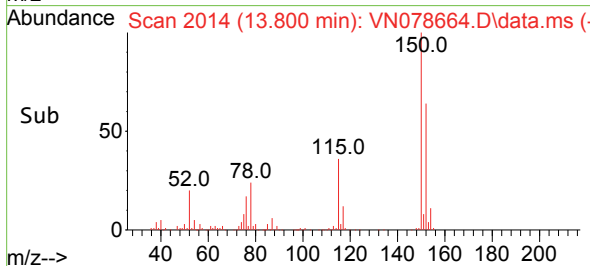
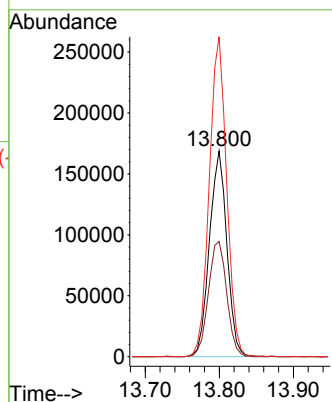
Tgt Ion:152 Resp: 276869

Ion Ratio Lower Upper

152 100

115 58.8 32.3 96.8

150 154.4 0.0 355.8



#74

N-ethyl acetate

Concen: 0.609 ug/l

RT: 12.500 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

Tgt Ion: 43 Resp: 5457

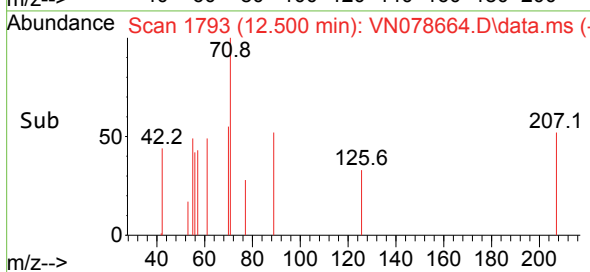
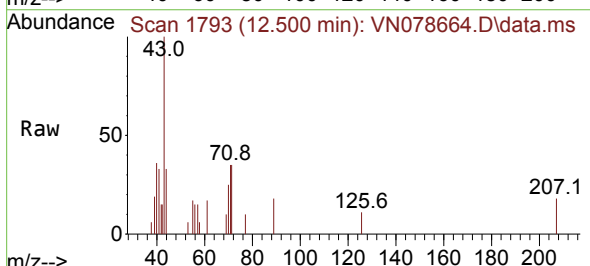
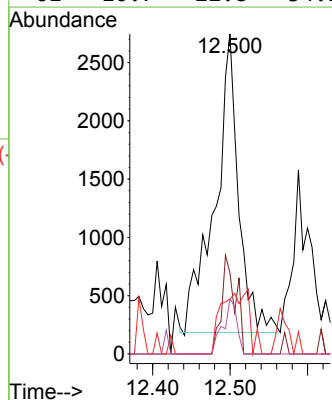
Ion Ratio Lower Upper

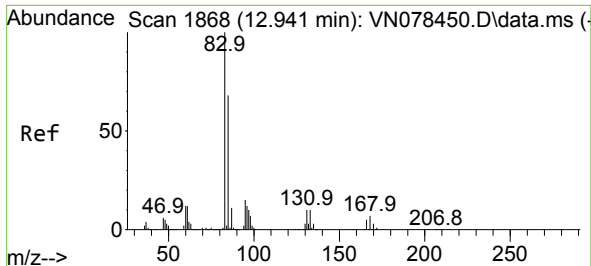
43 100

70 19.8 43.4 65.2#

55 0.0 21.4 32.0#

61 10.7 22.8 34.2#

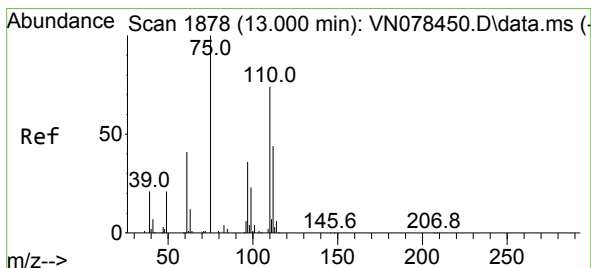
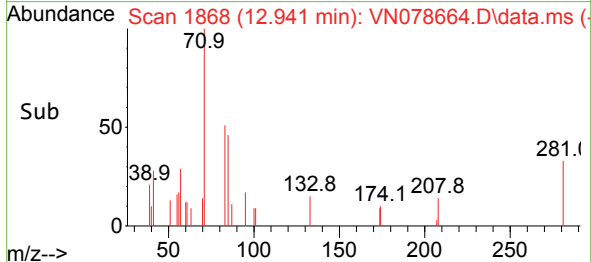
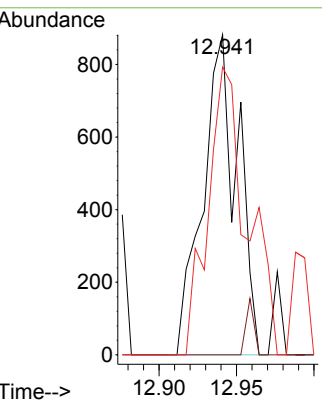
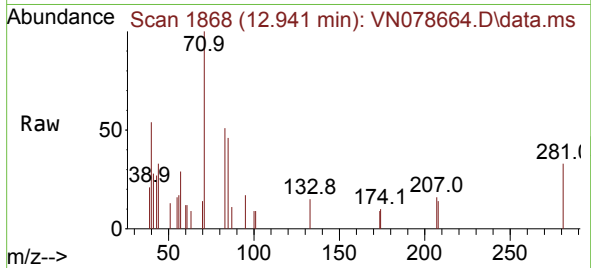




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.941 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

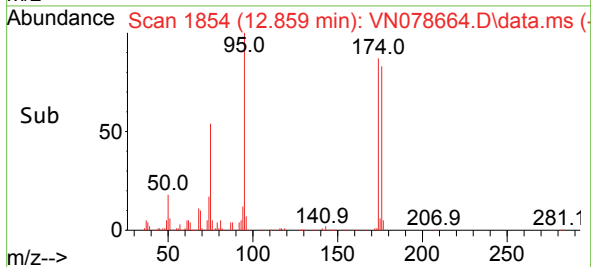
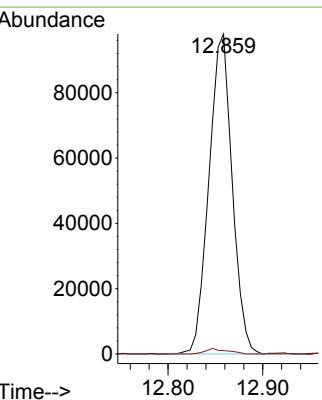
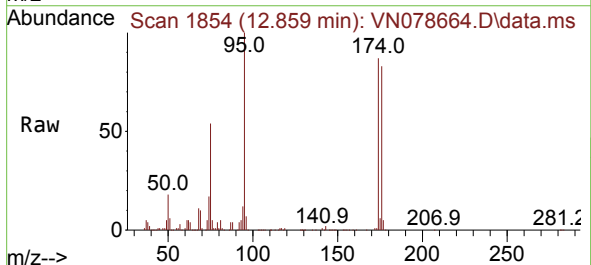
Instrument :  
MSVOA\_N  
ClientSampleId :

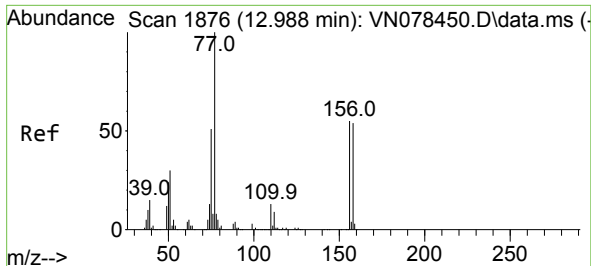
Tgt Ion: 83 Resp: 1378  
Ion Ratio Lower Upper  
83 100  
131 4.0 5.0 15.0#  
85 100.6 31.9 95.7#



#76  
1,2,3-Trichloropropane  
Concen: 24.990 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. -0.141 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 75 Resp: 167242  
Ion Ratio Lower Upper  
75 100  
77 1.6 84.5 253.5#

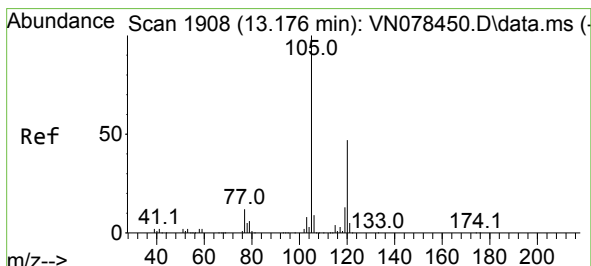
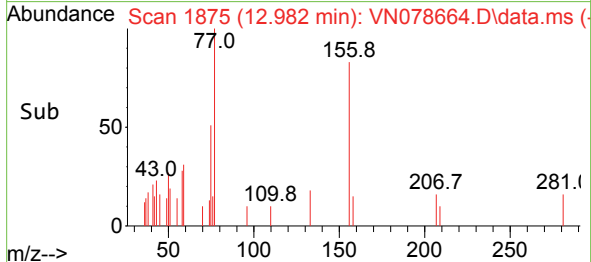
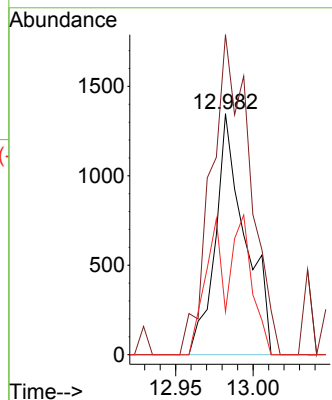
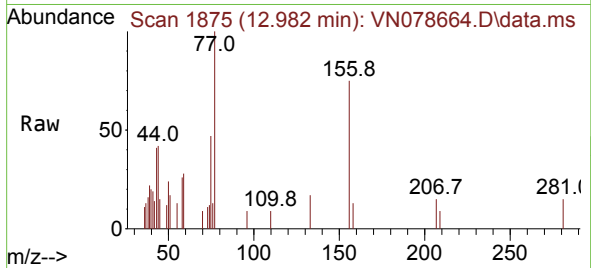




#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.982 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

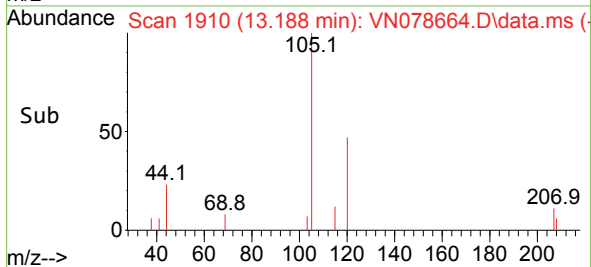
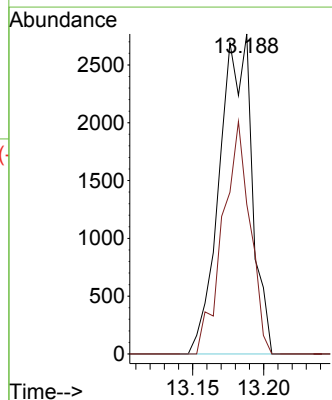
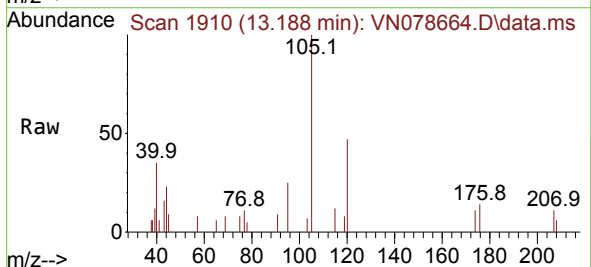
Instrument :  
MSVOA\_N  
ClientSampleId :

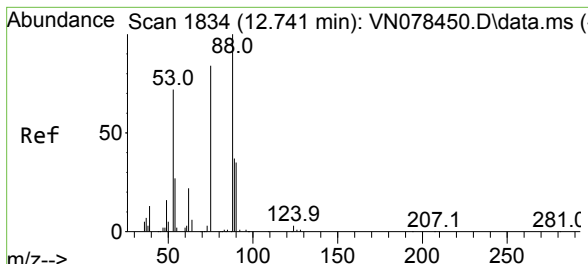
Tgt Ion:156 Resp: 1794  
Ion Ratio Lower Upper  
156 100  
77 173.6 107.7 323.3  
158 33.9 48.4 145.3#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.213 ug/l  
RT: 13.188 min Scan# 1910  
Delta R.T. 0.012 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

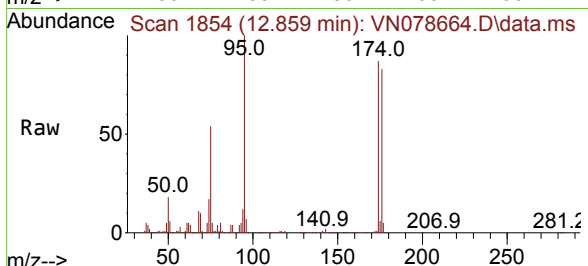
Tgt Ion:105 Resp: 4373  
Ion Ratio Lower Upper  
105 100  
120 61.5 24.1 72.3



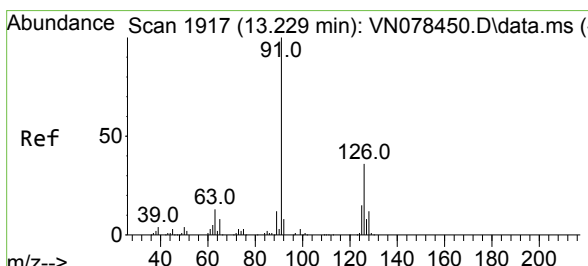
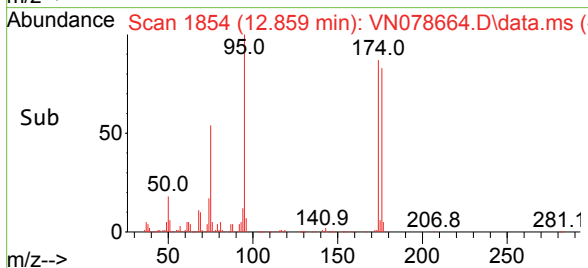
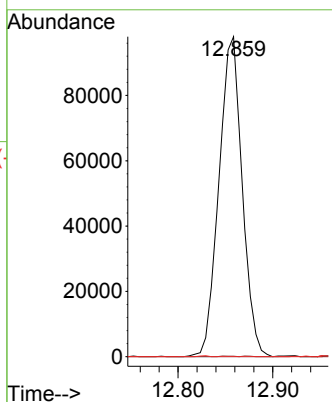


#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.670 ug/l  
 RT: 12.859 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

Instrument :  
 MSVOA\_N  
 ClientSampleId :

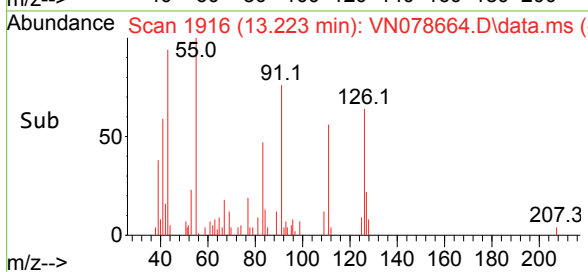
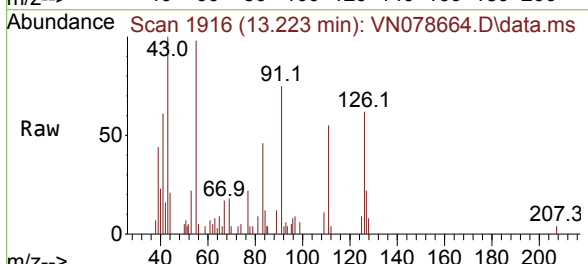
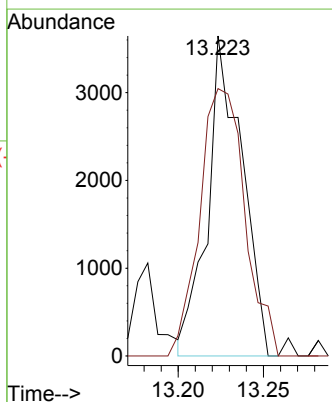


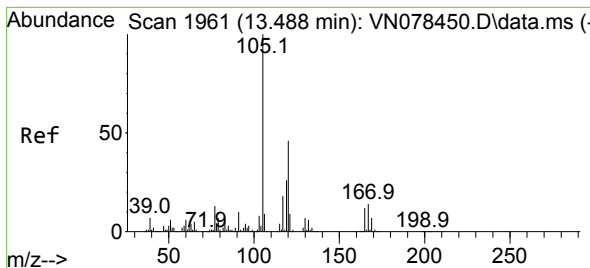
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 167242 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 53        | 0.1   | 67.4  | 101.2# |
| 89        | 0.0   | 38.8  | 58.2#  |



#82  
 4-Chlorotoluene  
 Concen: 0.303 ug/l  
 RT: 13.223 min Scan# 1916  
 Delta R.T. -0.006 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 5145  |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 126       | 109.4 | 16.7  | 50.0# |





#84

1,2,4-Trimethylbenzene

Concen: 0.292 ug/l

RT: 13.494 min Scan# 1962

Delta R.T. 0.006 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

Instrument :

MSVOA\_N

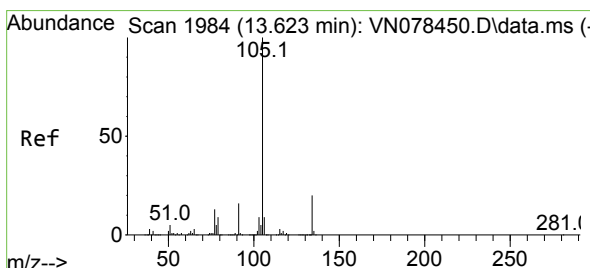
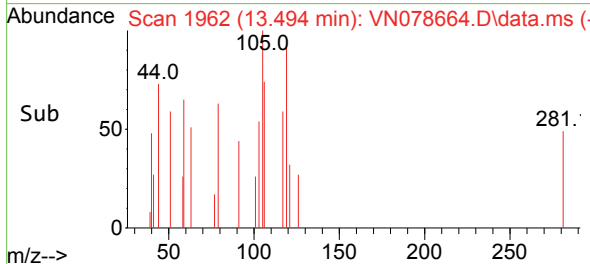
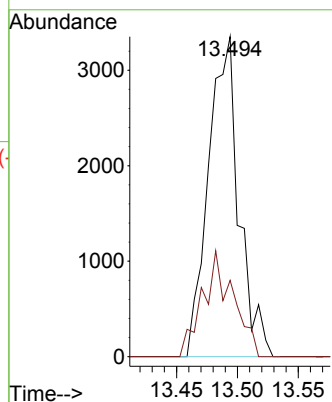
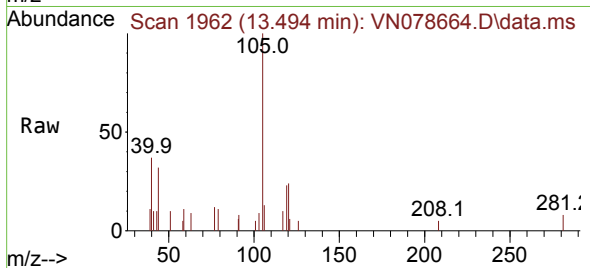
ClientSampleId :

Tgt Ion:105 Resp: 5829

Ion Ratio Lower Upper

105 100

120 33.0 22.0 66.0



#85

sec-Butylbenzene

Concen: 0.258 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.006 min

Lab File: VN078664.D

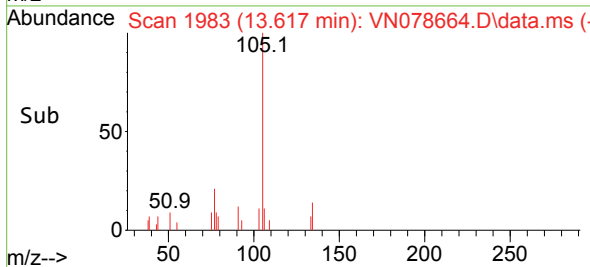
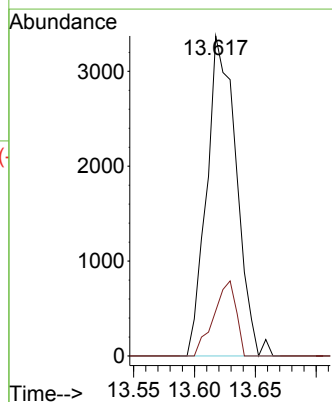
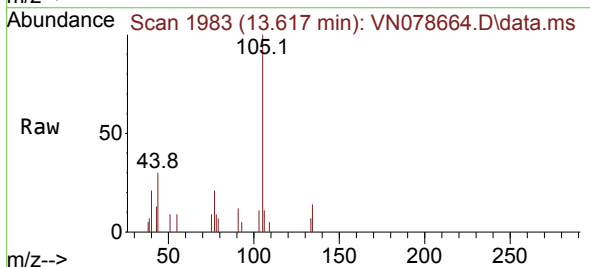
Acq: 27 Jul 2023 16:55

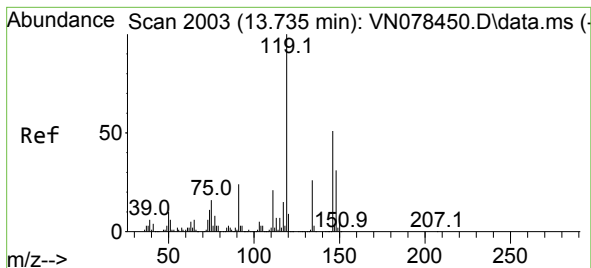
Tgt Ion:105 Resp: 5691

Ion Ratio Lower Upper

105 100

134 17.8 9.8 29.3





#86

p-Isopropyltoluene

Concen: 0.236 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN078664.D

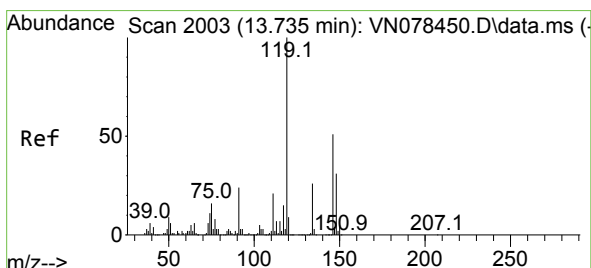
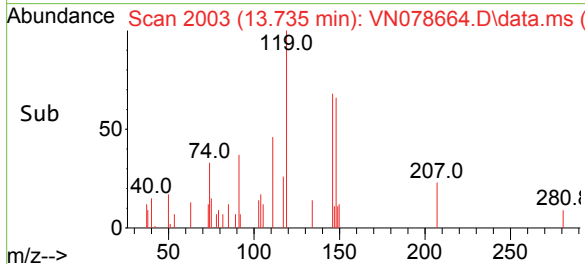
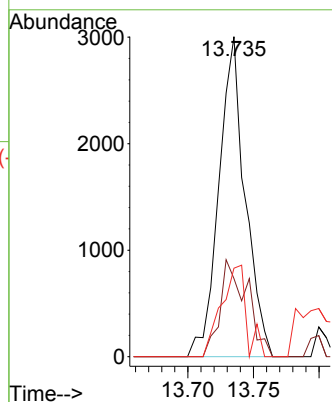
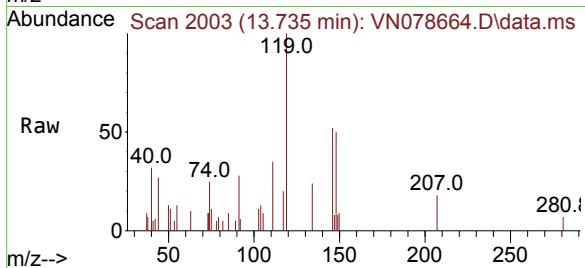
Acq: 27 Jul 2023 16:55

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 4180  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 31.2  | 12.6  | 37.8  |
| 91       | 27.1  | 12.4  | 37.2  |



#87

1,3-Dichlorobenzene

Concen: 0.360 ug/l

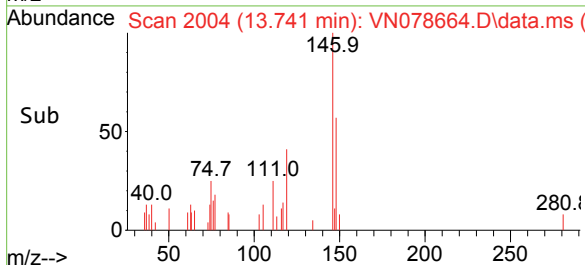
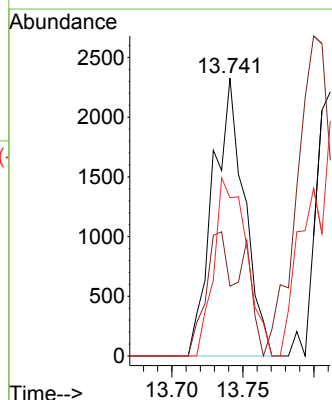
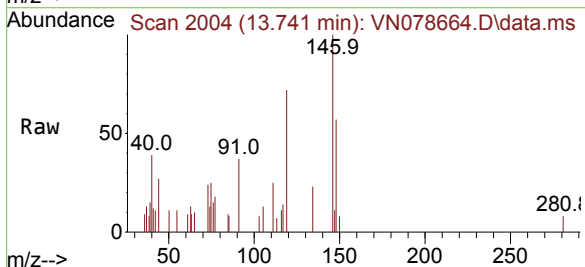
RT: 13.741 min Scan# 2004

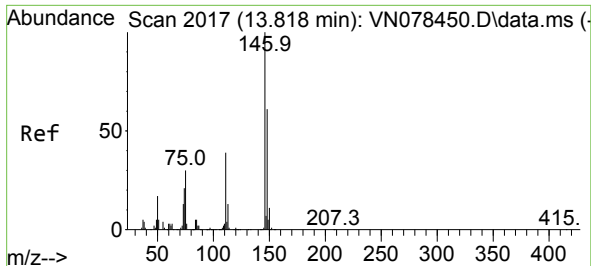
Delta R.T. 0.006 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

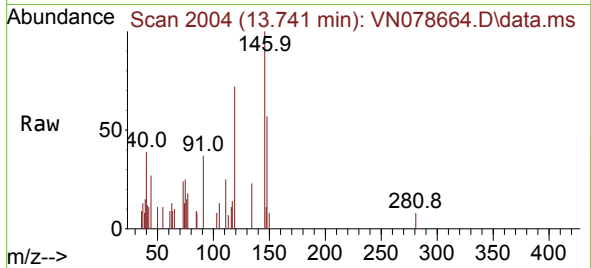
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 3596  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 51.8  | 22.1  | 66.3  |
| 148      | 66.3  | 32.0  | 96.0  |



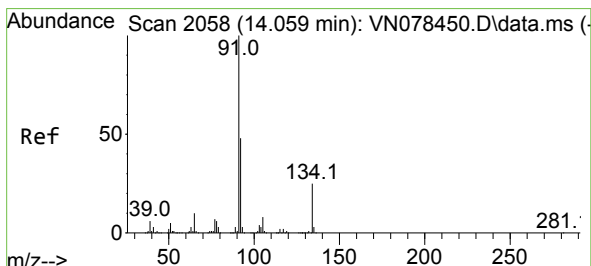
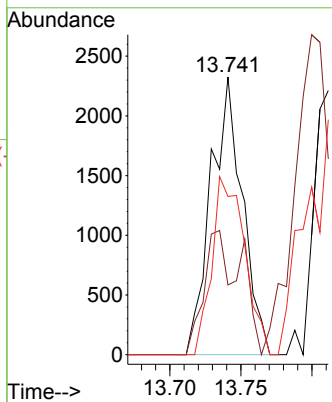
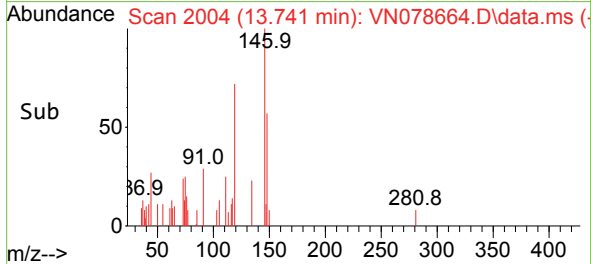


#88  
1,4-Dichlorobenzene  
Concen: 0.357 ug/l  
RT: 13.741 min Scan# 2004  
Delta R.T. -0.077 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Instrument :  
MSVOA\_N  
ClientSampleId :

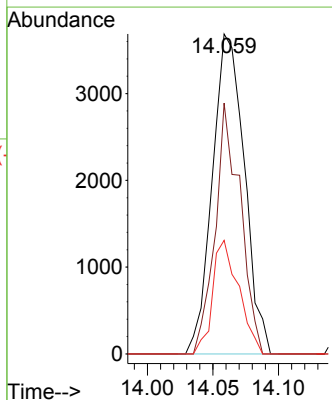
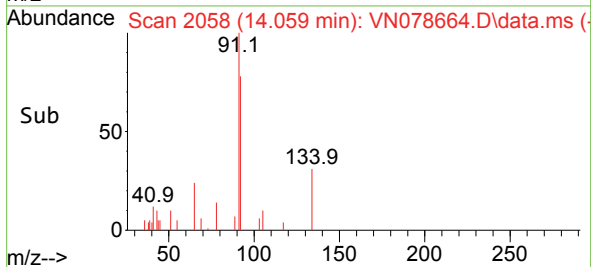
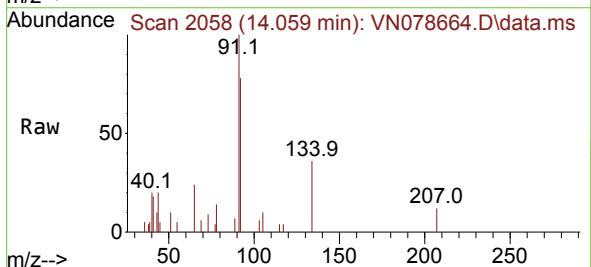


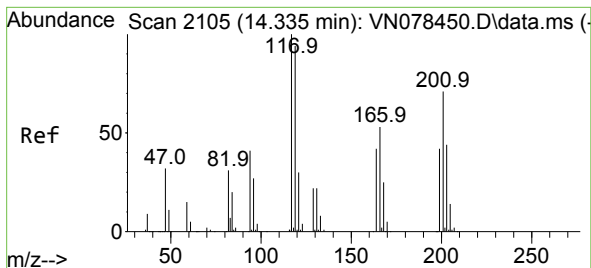
Tgt Ion:146 Resp: 3596  
Ion Ratio Lower Upper  
146 100  
111 51.8 20.6 61.8  
148 66.3 31.6 94.8



#89  
n-Butylbenzene  
Concen: 0.493 ug/l  
RT: 14.059 min Scan# 2058  
Delta R.T. -0.000 min  
Lab File: VN078664.D  
Acq: 27 Jul 2023 16:55

Tgt Ion: 91 Resp: 6250  
Ion Ratio Lower Upper  
91 100  
92 61.7 26.4 79.0  
134 29.0 12.6 37.6





#90

Hexachloroethane

Concen: Below Cal

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

Instrument :

MSVOA\_N

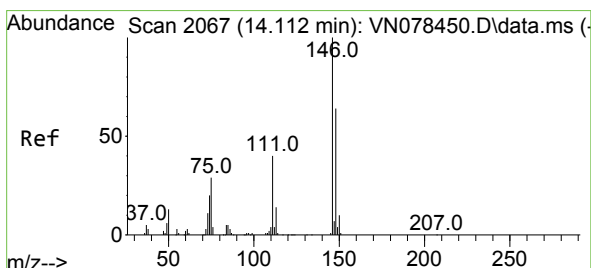
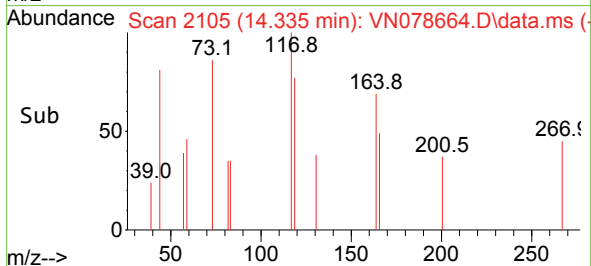
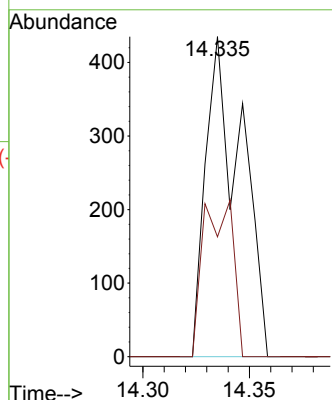
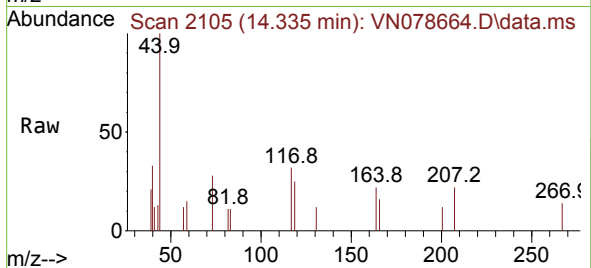
ClientSampleId :

Tgt Ion:117 Resp: 503

Ion Ratio Lower Upper

117 100

201 41.0 29.3 88.0



#91

1,2-Dichlorobenzene

Concen: 0.286 ug/l

RT: 14.111 min Scan# 2067

Delta R.T. -0.001 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

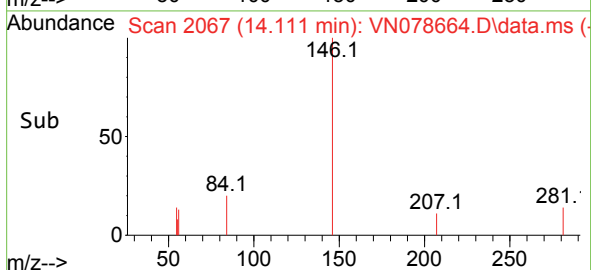
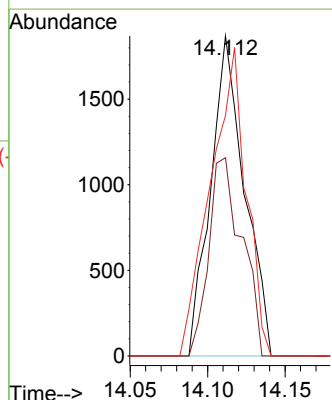
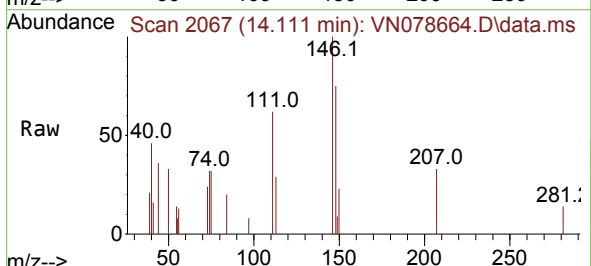
Tgt Ion:146 Resp: 2841

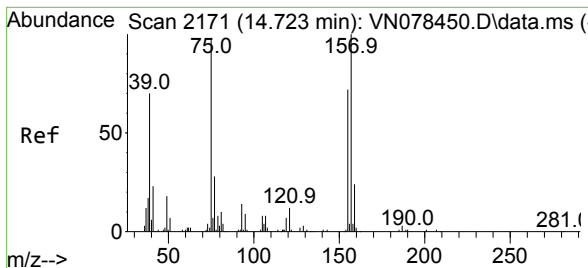
Ion Ratio Lower Upper

146 100

111 60.4 22.0 66.0

148 101.4 31.8 95.3#

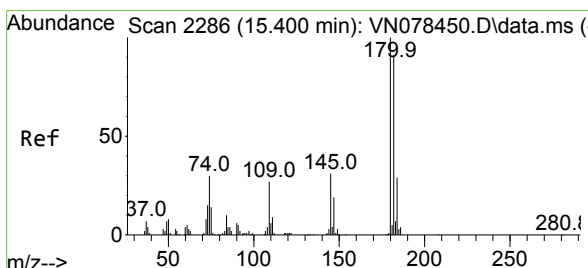
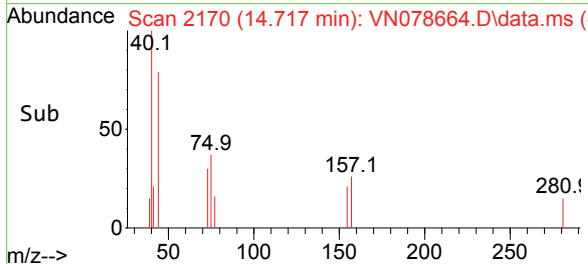
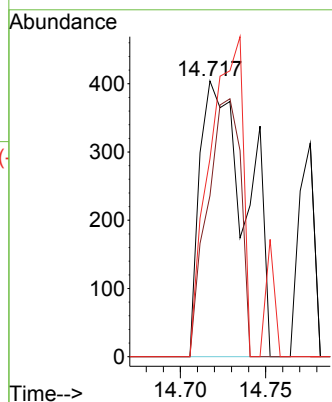
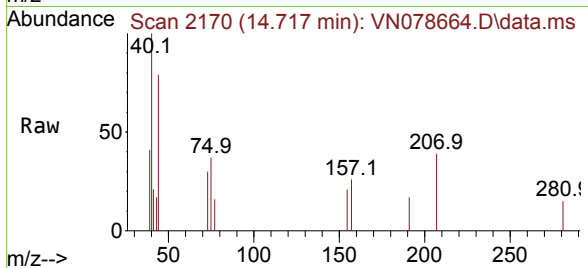




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: Below Cal  
 RT: 14.717 min Scan# 2171  
 Delta R.T. -0.006 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

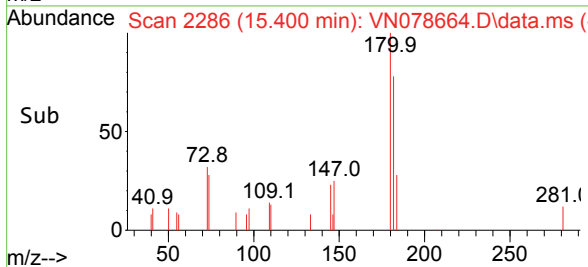
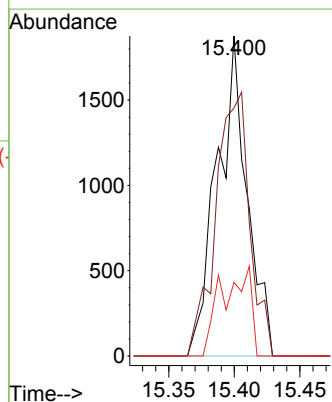
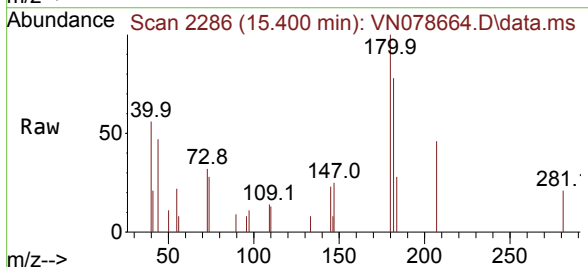
Instrument :  
 MSVOA\_N  
 ClientSampleId :

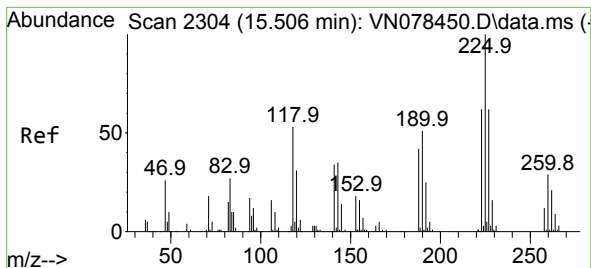
Tgt Ion: 75 Resp: 768  
 Ion Ratio Lower Upper  
 75 100  
 155 66.7 39.1 117.2  
 157 82.3 50.3 150.9



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.943 ug/l  
 RT: 15.400 min Scan# 2286  
 Delta R.T. -0.000 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

Tgt Ion: 180 Resp: 2991  
 Ion Ratio Lower Upper  
 180 100  
 182 93.1 46.1 138.2  
 145 15.7 16.6 49.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 21

Delta R.T. -0.000 min

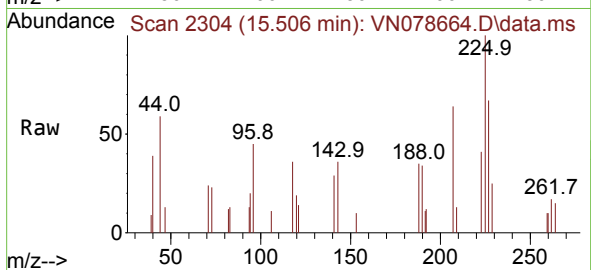
Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

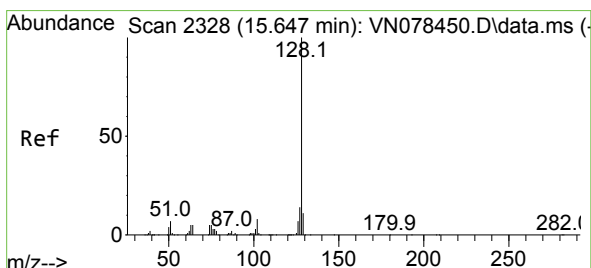
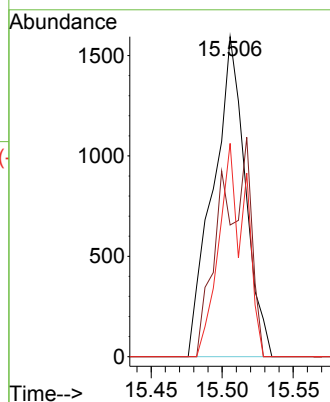
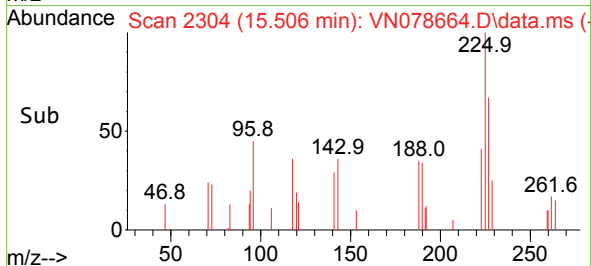
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 2507 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 63.1  | 31.3  | 93.8 |
| 227       | 54.9  | 31.9  | 95.9 |



#95

Naphthalene

Concen: 0.988 ug/l

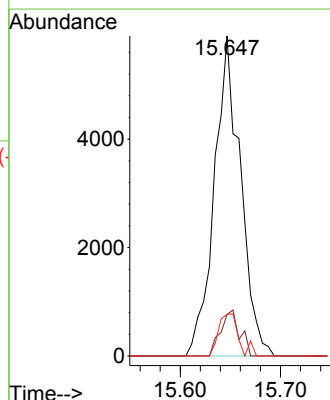
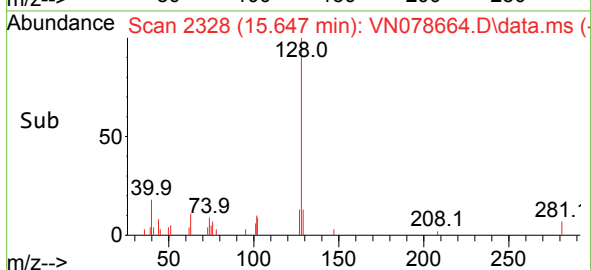
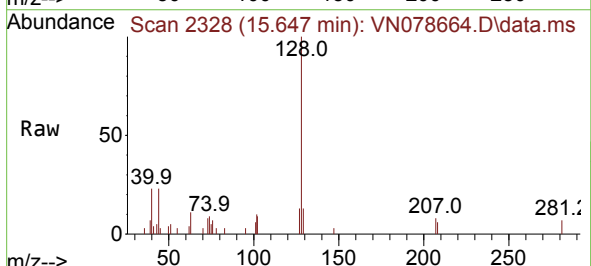
RT: 15.647 min Scan# 2328

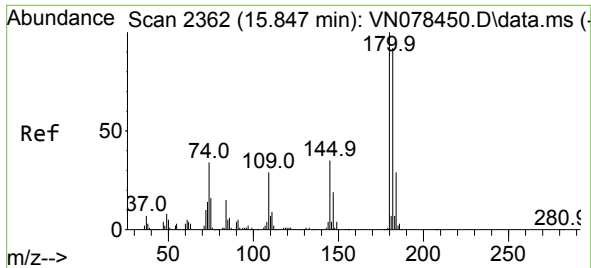
Delta R.T. -0.000 min

Lab File: VN078664.D

Acq: 27 Jul 2023 16:55

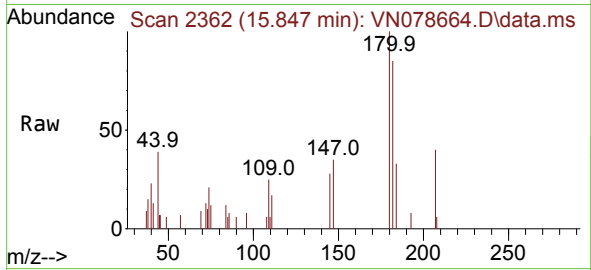
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 10718 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 10.4  | 10.0  | 15.0  |
| 129       | 10.0  | 8.7   | 13.1  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.191 ug/l  
 RT: 15.847 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN078664.D  
 Acq: 27 Jul 2023 16:55

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 4344  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.6  | 46.2  | 138.6 |
| 145       | 26.6  | 17.5  | 52.6  |

