

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060524\  
 Data File : VN082474.D  
 Acq On : 05 Jun 2024 16:38  
 Operator : JC\MD  
 Sample : P2715-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 06 00:59:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

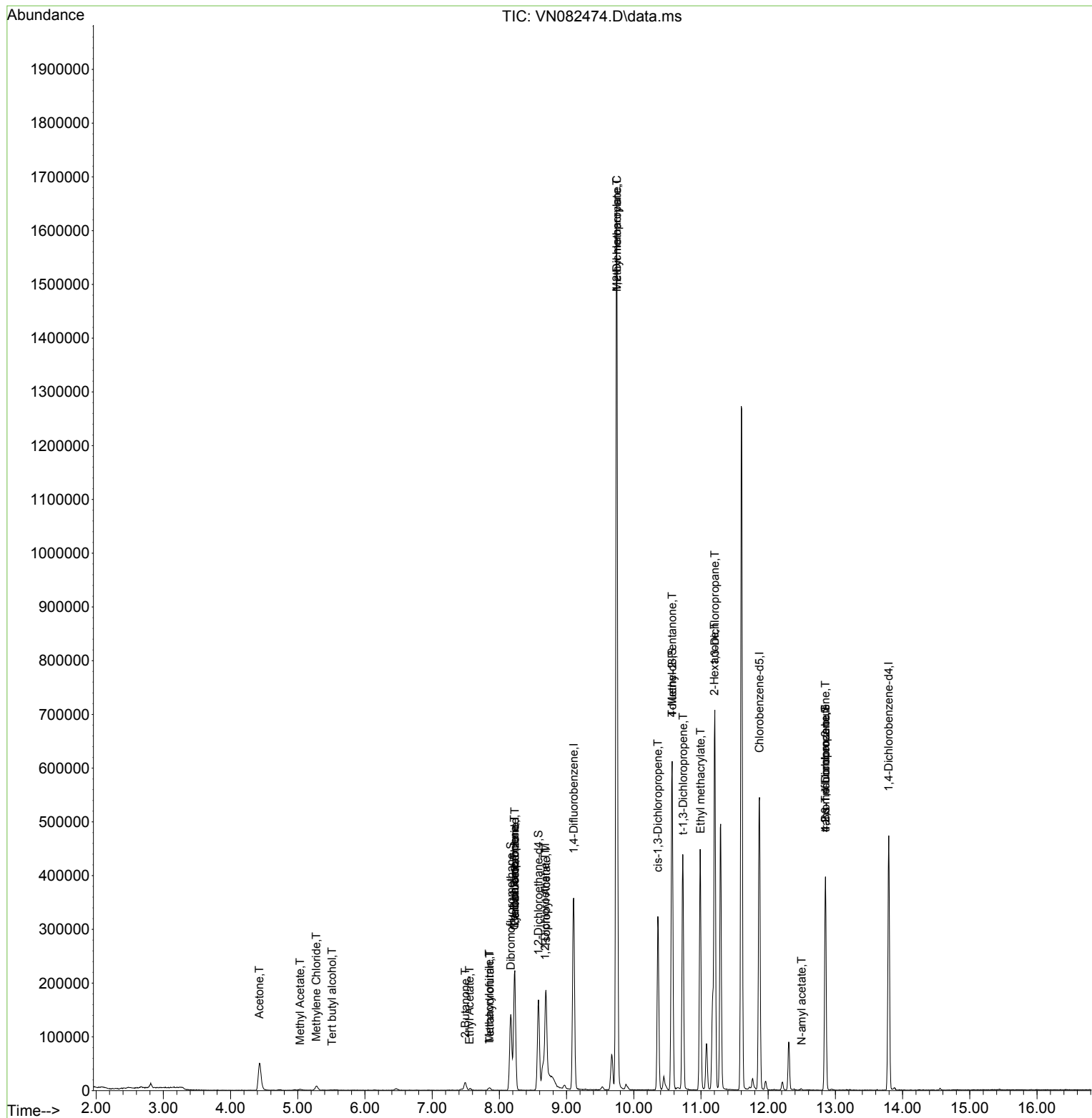
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 152061   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 287878   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 287926   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 119784   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 134551   | 56.038   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 112.080% |
| 35) Dibromofluoromethane      | 8.171  | 113   | 98427    | 55.580   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 111.160% |
| 50) Toluene-d8                | 10.571 | 98    | 380142   | 55.990   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 111.980% |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 125746   | 51.890   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | =      | 103.780% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 5.512  | 59    | 360      | 0.934    | ug/l # | 71       |
| 16) Acetone                   | 4.430  | 43    | 100050   | 101.577  | ug/l # | 88       |
| 18) Methyl Acetate            | 5.036  | 43    | 3658     | 1.491    | ug/l # | 66       |
| 20) Methylene Chloride        | 5.277  | 84    | 5566     | 2.801    | ug/l # | 66       |
| 25) 2-Butanone                | 7.494  | 43    | 24703    | 16.542   | ug/l # | 87       |
| 29) Tetrahydrofuran           | 7.859  | 42    | 3849     | 4.014    | ug/l # | 78       |
| 31) Cyclohexane               | 8.224  | 56    | 4631     | 1.208    | ug/l # | 32       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 14627    | 4.925    | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.559  | 43    | 5072     | 1.526    | ug/l # | 85       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 16033    | 5.325    | ug/l # | 18       |
| 41) Methacrylonitrile         | 7.853  | 41    | 2256     | 1.154    | ug/l # | 41       |
| 42) 1,2-Dichloroethane        | 8.682  | 62    | 1314     | 0.386    | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 281178   | 47.741   | ug/l # | 71       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1440     | 0.630    | ug/l # | 45       |
| 48) Methyl methacrylate       | 9.747  | 41    | 166452   | 59.311   | ug/l # | 37       |
| 51) 4-Methyl-2-Pentanone      | 10.571 | 43    | 9051     | 2.705    | ug/l   | 92       |
| 53) t-1,3-Dichloropropene     | 10.735 | 75    | 849      | 0.259    | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 48692    | 14.043   | ug/l # | 74       |
| 56) Ethyl methacrylate        | 10.994 | 69    | 1980     | 0.604    | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 6495     | 1.798    | ug/l # | 42       |
| 59) 2-Hexanone                | 11.200 | 43    | 111952   | 45.691   | ug/l # | 47       |
| 74) N-amyl acetate            | 12.500 | 43    | 1454     | 0.278    | ug/l # | 39       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 73598    | 29.192   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 73598    | 68.279   | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

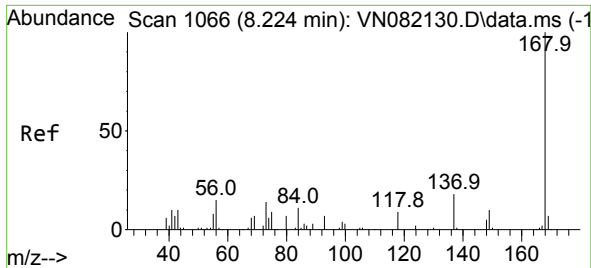
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu May 16 05:21:06 2024  
Response via : Initial Calibration

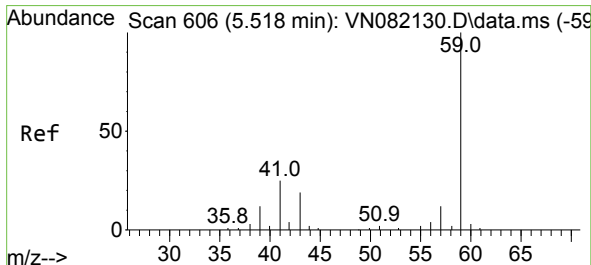
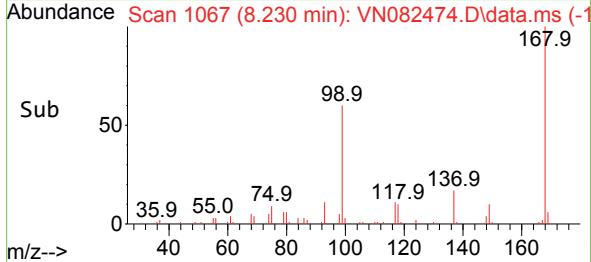
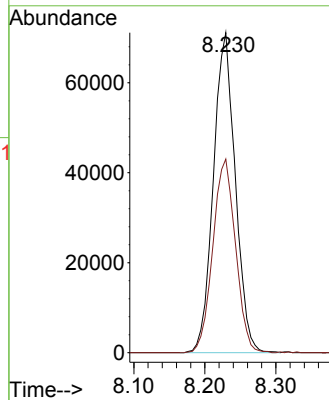
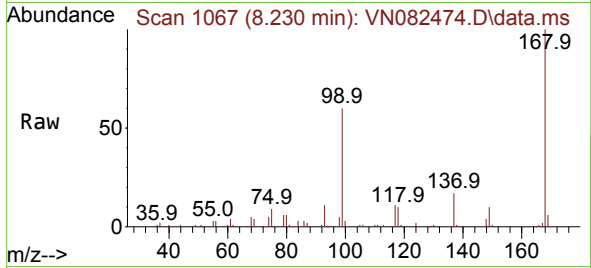




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

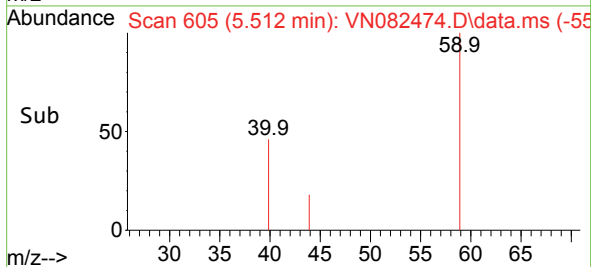
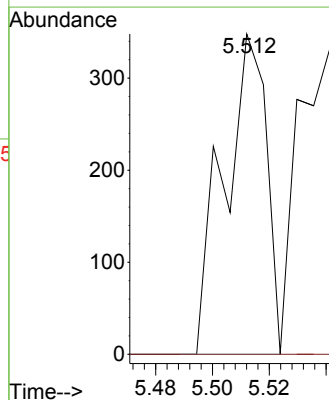
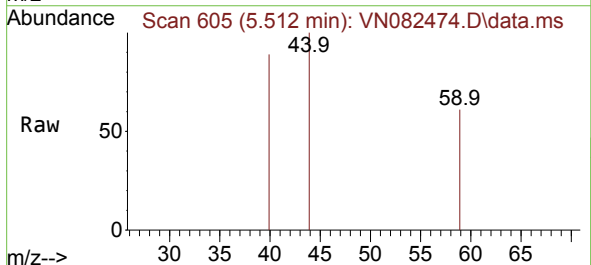
Instrument :  
MSVOA\_N  
ClientSampleId :

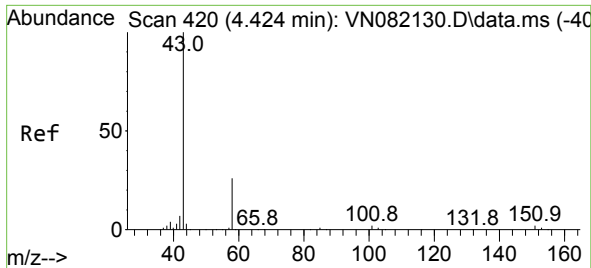
Tgt Ion:168 Resp: 152061  
Ion Ratio Lower Upper  
168 100  
99 60.5 48.2 72.4



#11  
Tert butyl alcohol  
Concen: 0.934 ug/l  
RT: 5.512 min Scan# 605  
Delta R.T. -0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Tgt Ion: 59 Resp: 360  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

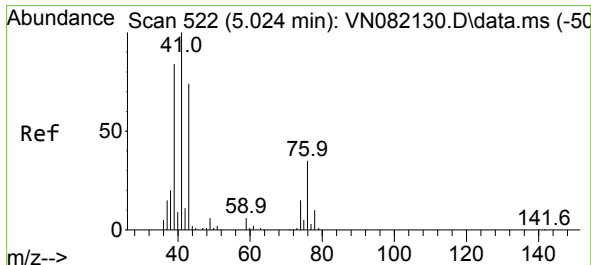
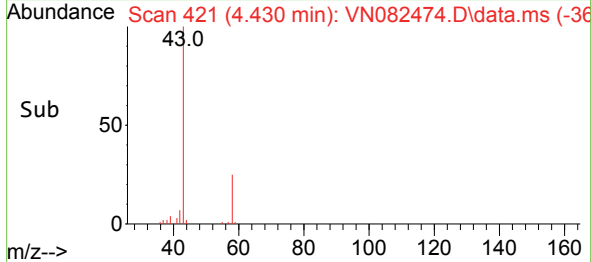
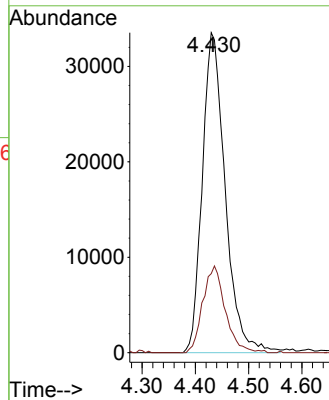
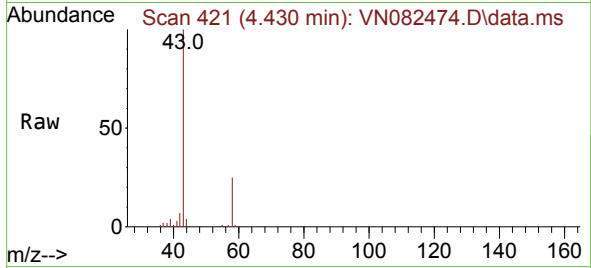




#16  
Acetone  
Concen: 101.577 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

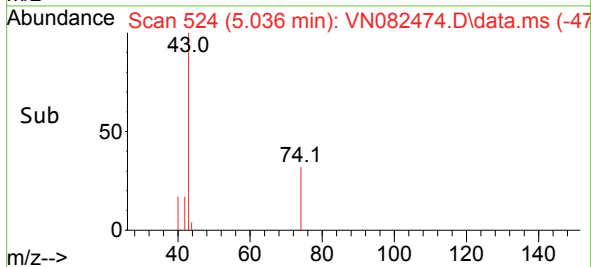
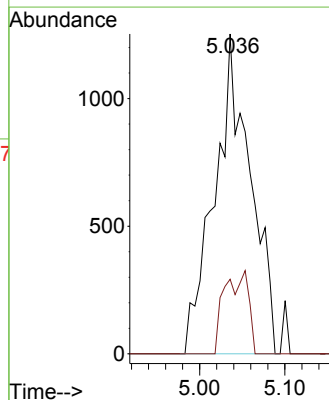
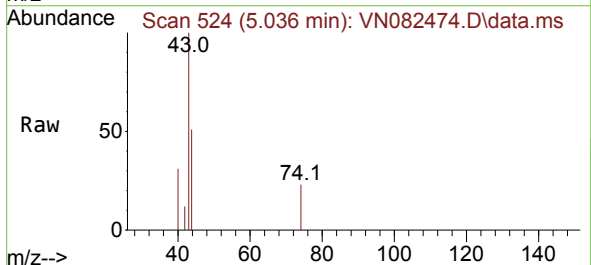
Instrument :  
MSVOA\_N  
ClientSampleId :

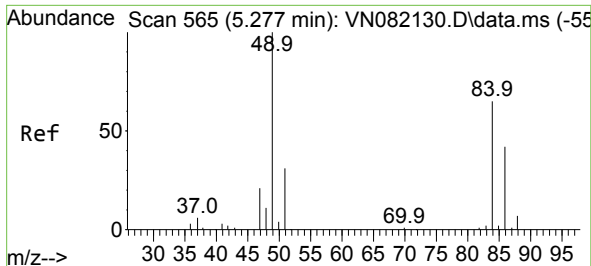
Tgt Ion: 43 Resp: 100050  
Ion Ratio Lower Upper  
43 100  
58 24.7 25.2 37.8#



#18  
Methyl Acetate  
Concen: 1.491 ug/l  
RT: 5.036 min Scan# 524  
Delta R.T. 0.012 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

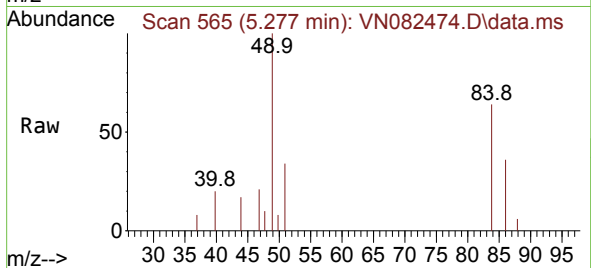
Tgt Ion: 43 Resp: 3658  
Ion Ratio Lower Upper  
43 100  
74 9.7 22.2 33.2#



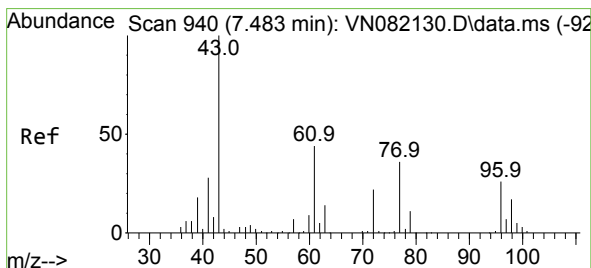
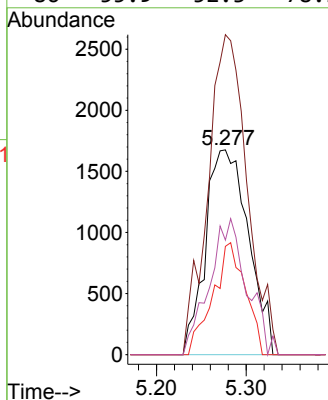
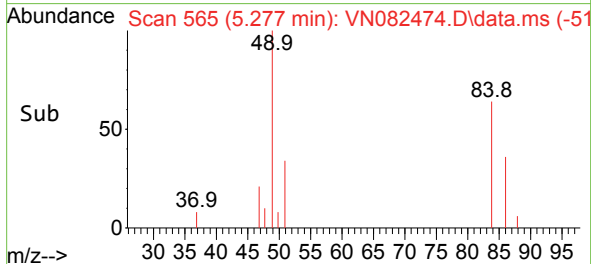


#20  
Methylene Chloride  
Concen: 2.801 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

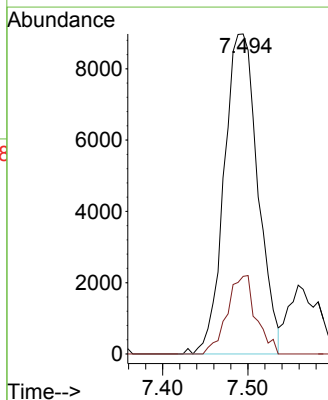
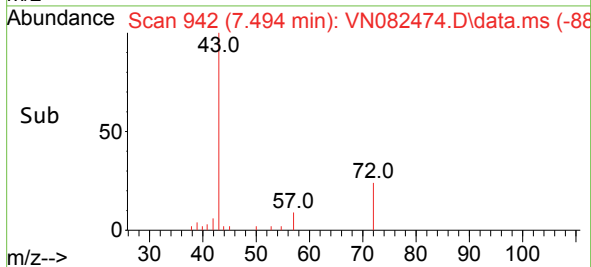
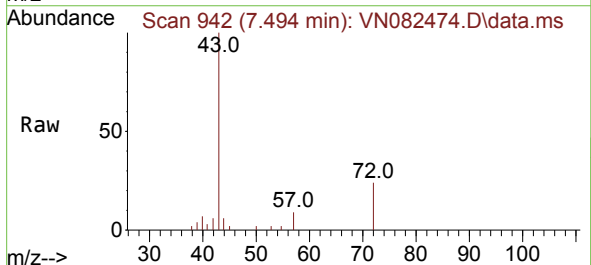


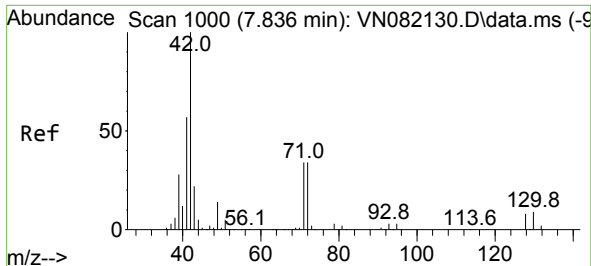
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 5566  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 156.3    | 84.9 127.3# |
| 51 52.9     | 27.0 40.6#  |
| 86 55.9     | 52.3 78.5   |



#25  
2-Butanone  
Concen: 16.542 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.012 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

|             |             |       |  |
|-------------|-------------|-------|--|
| Tgt Ion: 43 | Resp: 24703 |       |  |
| Ion Ratio   | Lower       | Upper |  |
| 43 100      |             |       |  |
| 72 24.2     | 25.3        | 37.9# |  |





#29

Tetrahydrofuran

Concen: 4.014 ug/l

RT: 7.859 min Scan# 1066

Delta R.T. 0.023 min

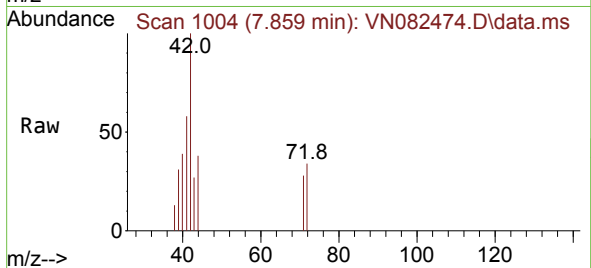
Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

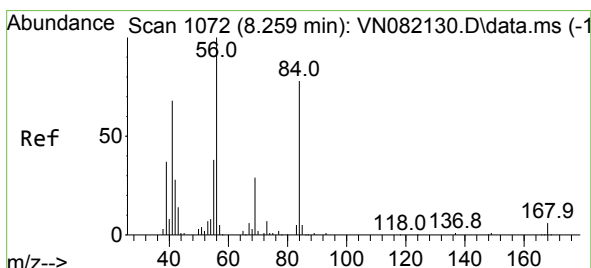
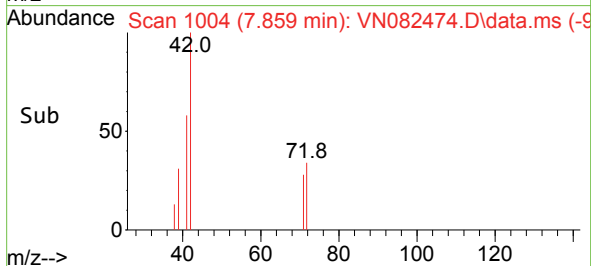
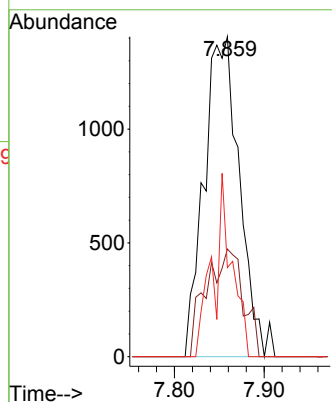
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 3849  |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 35.4  | 39.3  | 58.9# |
| 71        | 30.1  | 37.4  | 56.0# |



#31

Cyclohexane

Concen: 1.208 ug/l

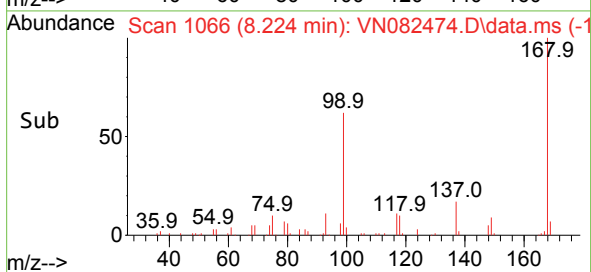
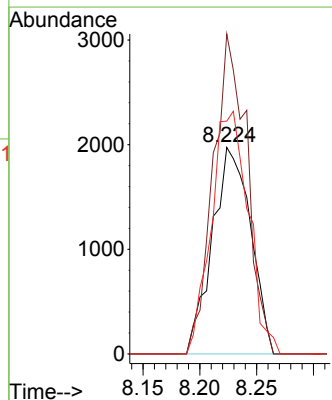
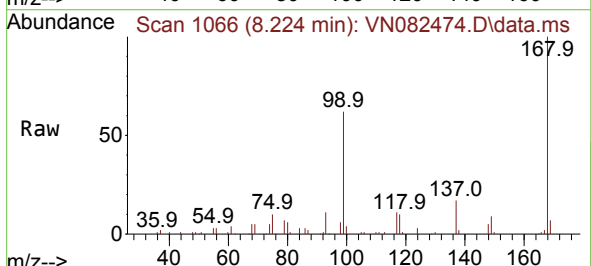
RT: 8.224 min Scan# 1066

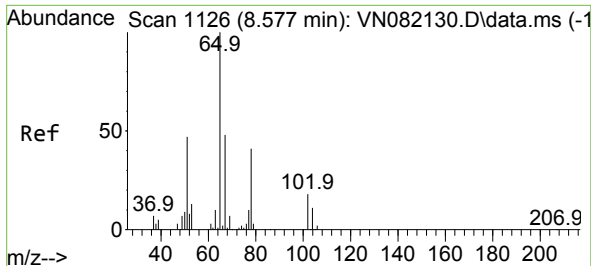
Delta R.T. -0.035 min

Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 4631  |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 154.9 | 24.4  | 36.6# |
| 84        | 112.7 | 77.0  | 115.4 |





#33

1,2-Dichloroethane-d4

Concen: 56.038 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

Instrument :

MSVOA\_N

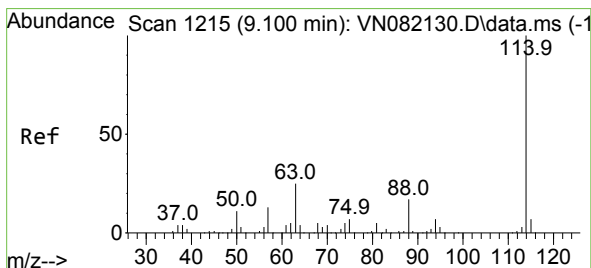
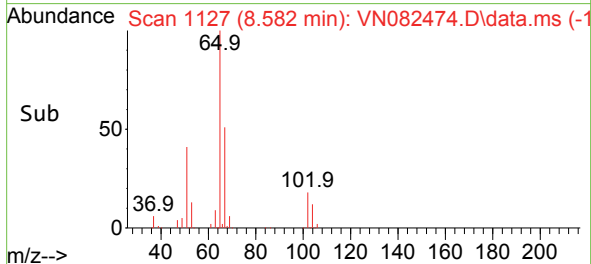
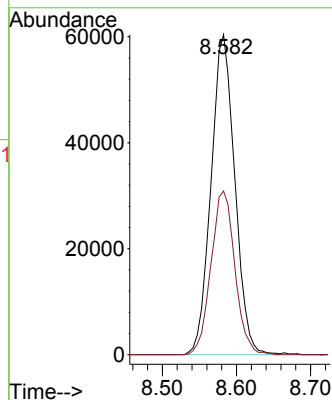
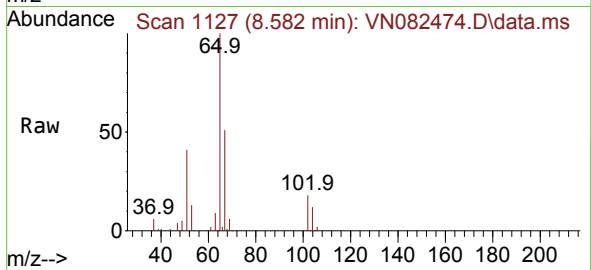
ClientSampleId :

Tgt Ion: 65 Resp: 134551

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

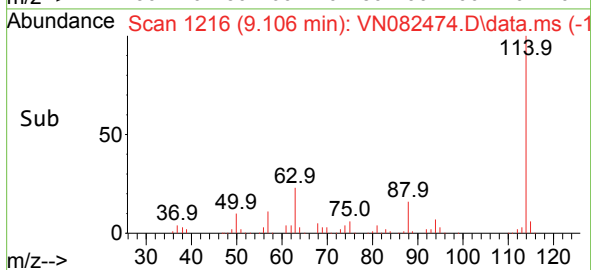
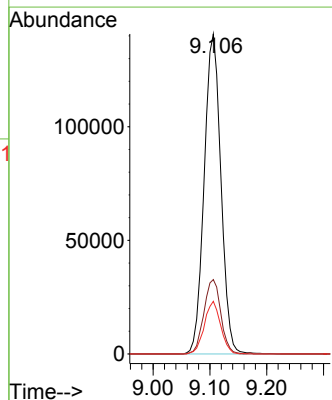
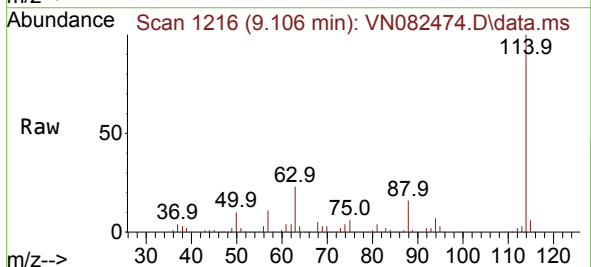
Tgt Ion: 114 Resp: 287878

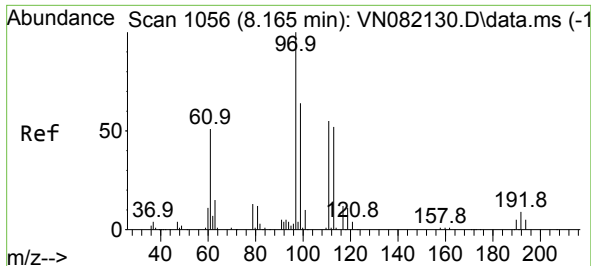
Ion Ratio Lower Upper

114 100

63 23.2 0.0 41.0

88 16.5 0.0 31.4

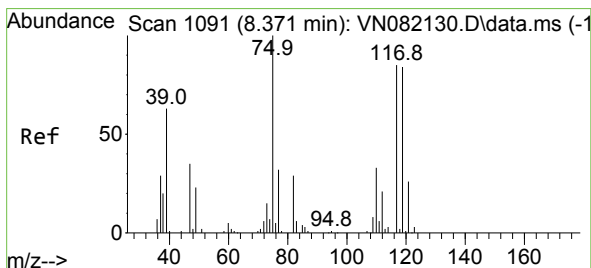
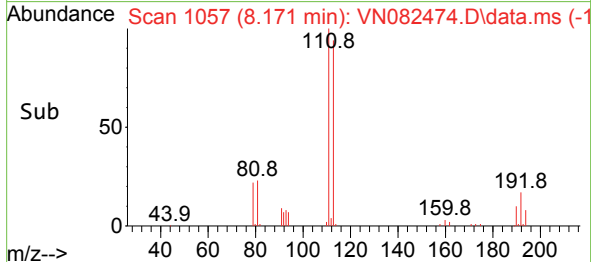
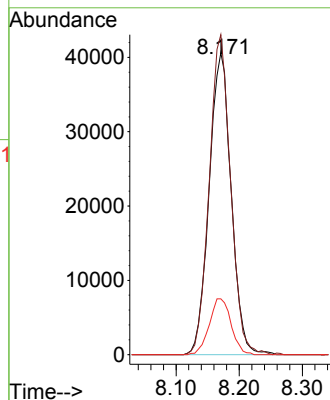
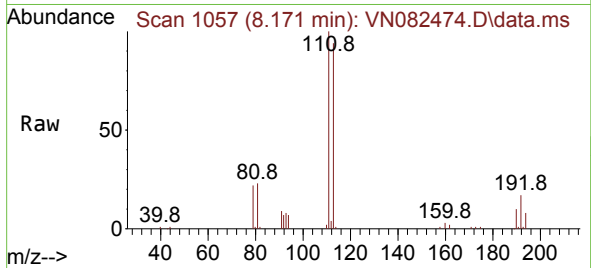




#35  
Dibromofluoromethane  
Concen: 55.580 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

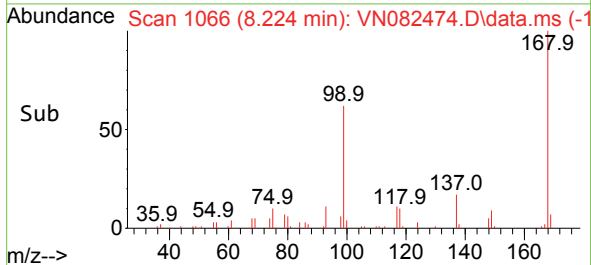
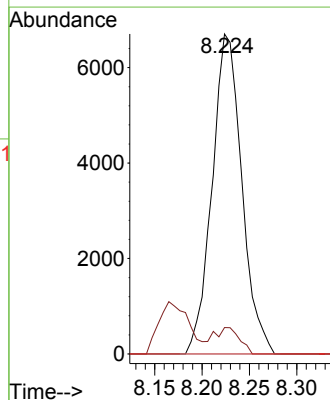
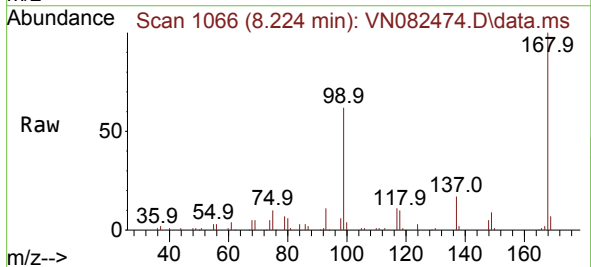
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:113 Resp: 98427  
Ion Ratio Lower Upper  
113 100  
111 102.5 83.4 125.2  
192 18.3 14.0 21.0

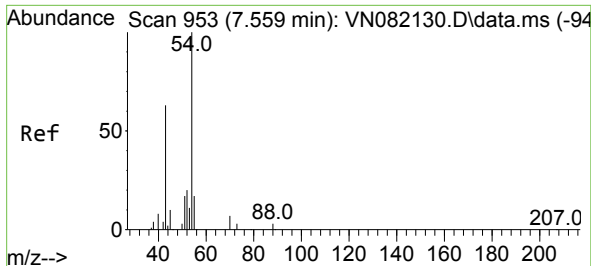


#36  
1,1-Dichloropropene  
Concen: 4.925 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Tgt Ion: 75 Resp: 14627  
Ion Ratio Lower Upper  
75 100  
110 7.4 17.8 53.5#  
77 0.0 25.0 37.4#

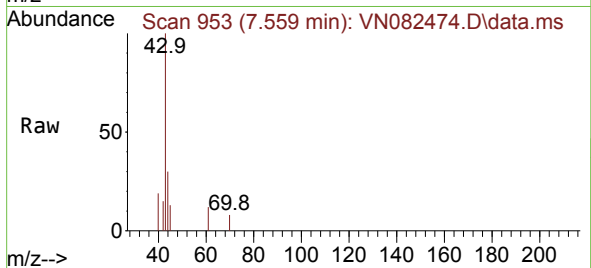




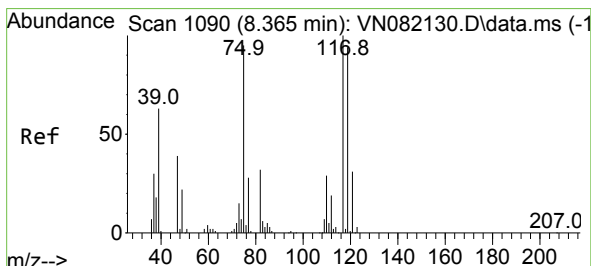
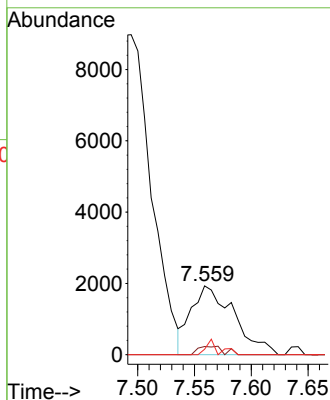
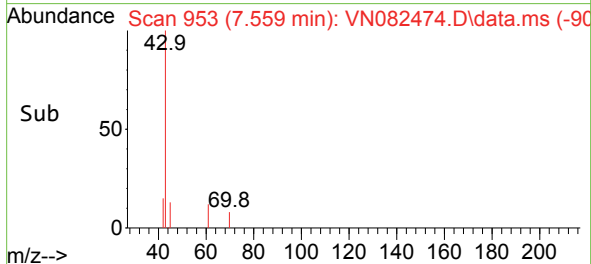


#37  
Ethyl Acetate  
Concen: 1.526 ug/l  
RT: 7.559 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

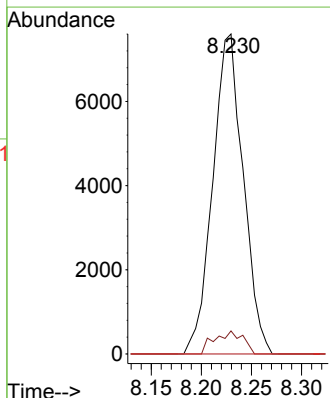
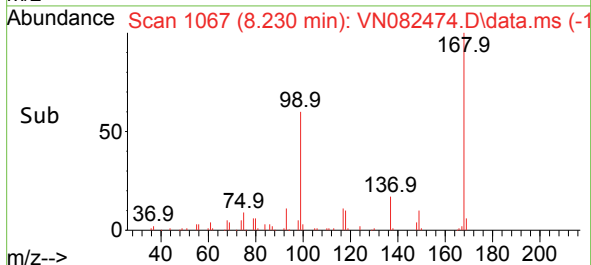
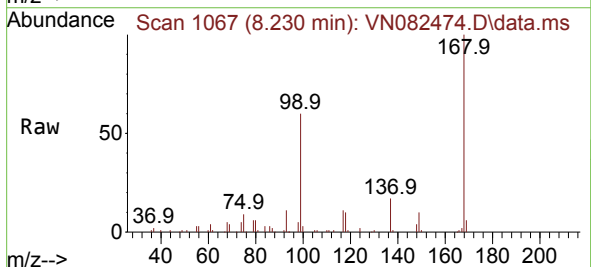


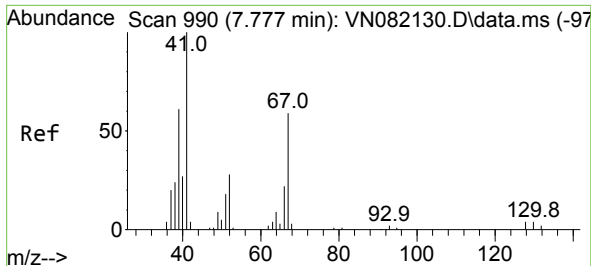
Tgt Ion: 43 Resp: 5072  
Ion Ratio Lower Upper  
43 100  
61 7.2 11.3 16.9#  
70 6.4 8.7 13.1#



#38  
Carbon Tetrachloride  
Concen: 5.325 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.135 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Tgt Ion: 117 Resp: 16033  
Ion Ratio Lower Upper  
117 100  
119 7.2 76.5 114.7#  
121 0.0 23.9 35.9#

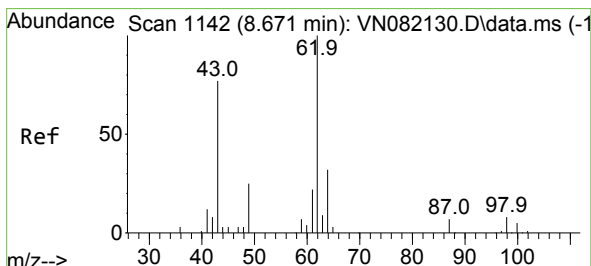
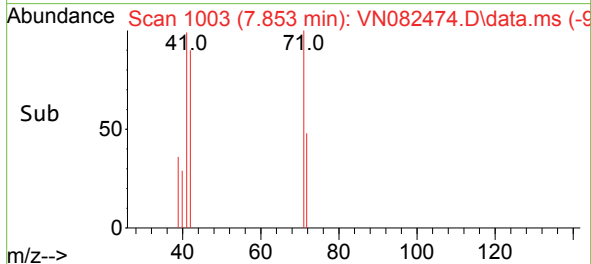
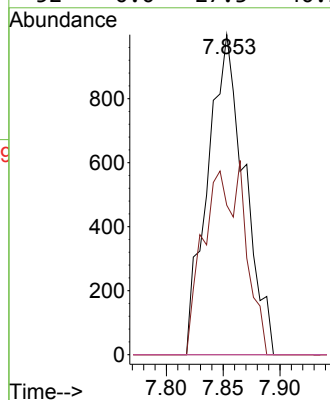
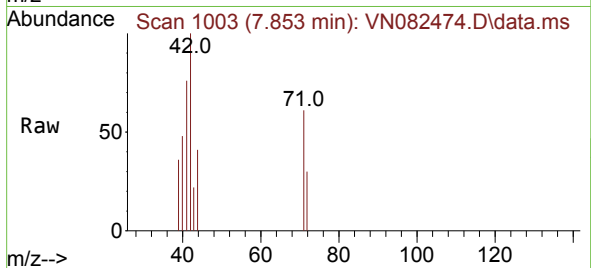




#41  
Methacrylonitrile  
Concen: 1.154 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.076 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

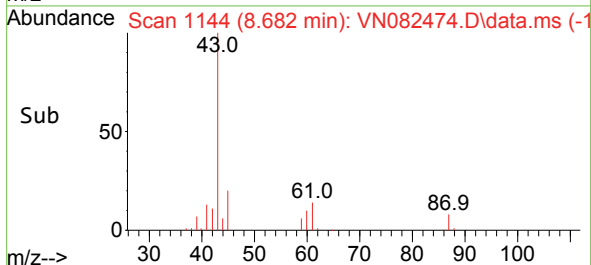
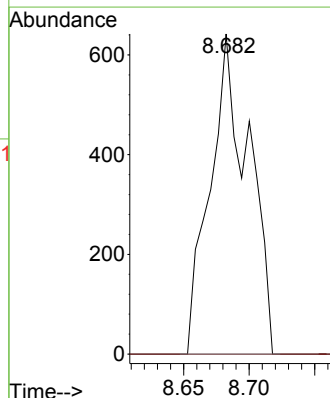
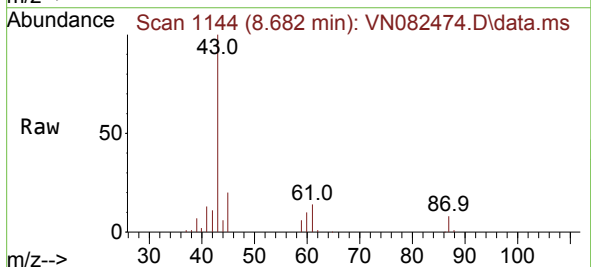
Instrument :  
MSVOA\_N  
ClientSampleId :

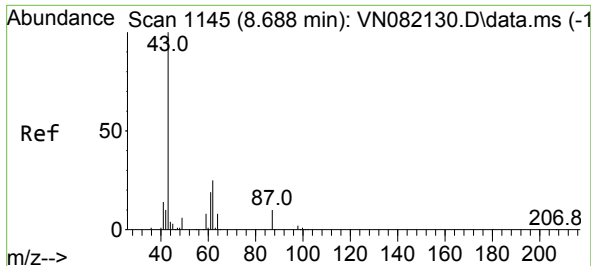
Tgt Ion: 41 Resp: 2256  
Ion Ratio Lower Upper  
41 100  
39 65.2 46.6 69.8  
67 0.0 67.3 100.9#  
52 0.0 27.3 40.9#



#42  
1,2-Dichloroethane  
Concen: 0.386 ug/l  
RT: 8.682 min Scan# 1144  
Delta R.T. 0.012 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

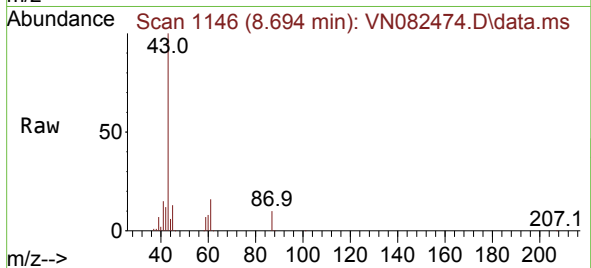
Tgt Ion: 62 Resp: 1314  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 19.6



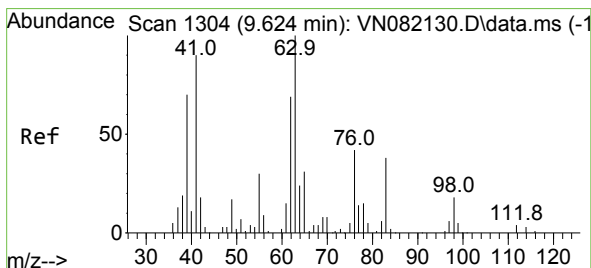
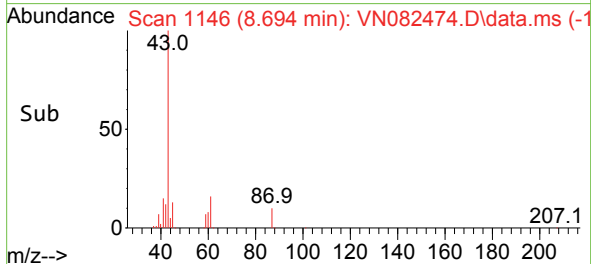
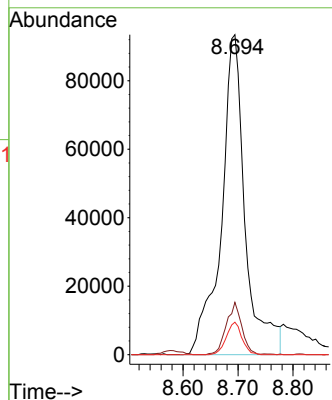


#43  
Isopropyl Acetate  
Concen: 47.741 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

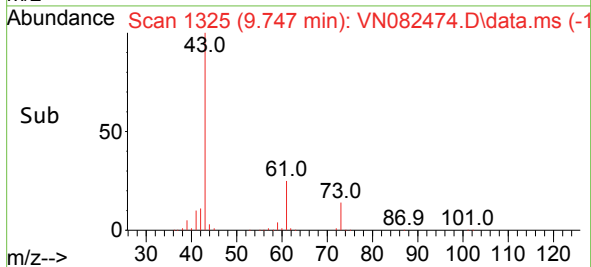
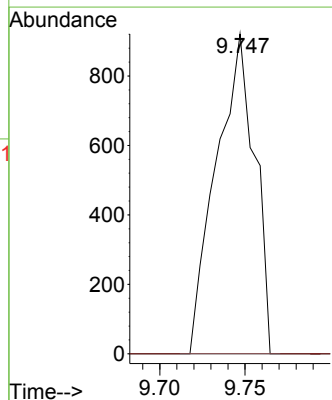
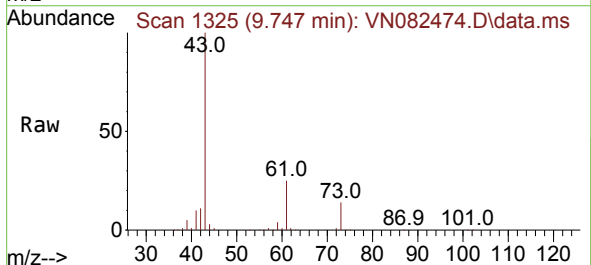


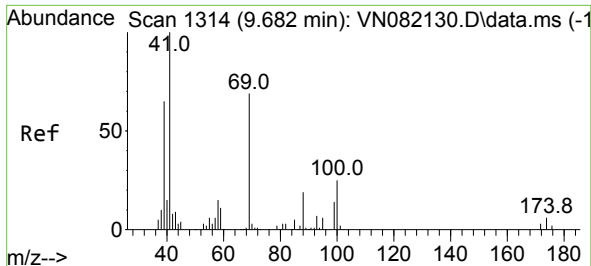
Tgt Ion: 43 Resp: 281178  
Ion Ratio Lower Upper  
43 100  
61 10.7 22.8 34.2#  
87 6.6 12.0 18.0#



#45  
1,2-Dichloropropane  
Concen: 0.630 ug/l  
RT: 9.747 min Scan# 1325  
Delta R.T. 0.123 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

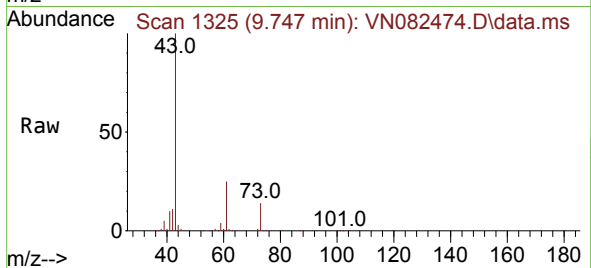
Tgt Ion: 63 Resp: 1440  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.1 36.1#



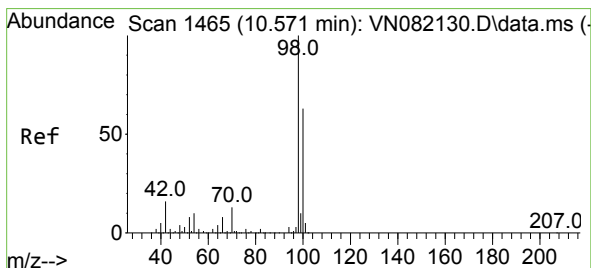
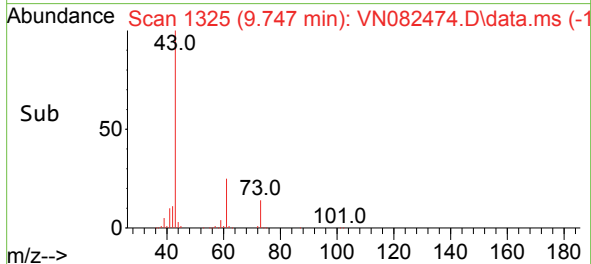
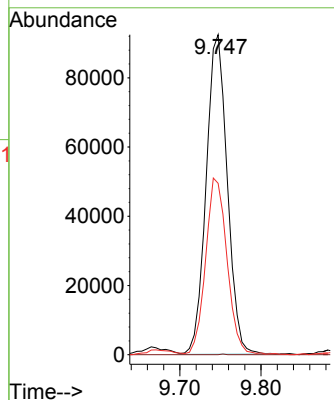


#48  
Methyl methacrylate  
Concen: 59.311 ug/l  
RT: 9.747 min Scan# 11  
Delta R.T. 0.065 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

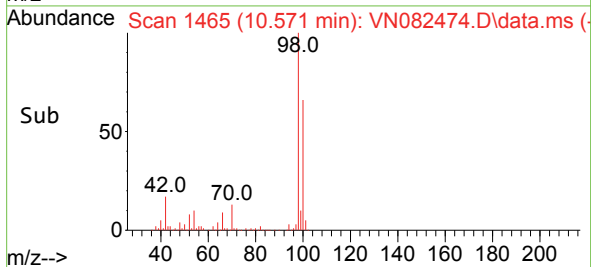
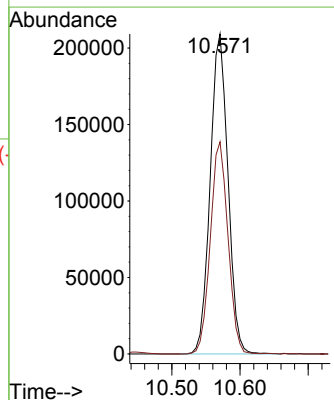
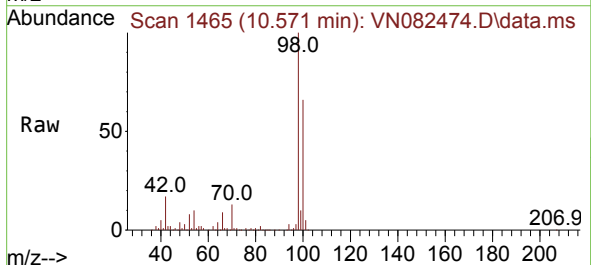


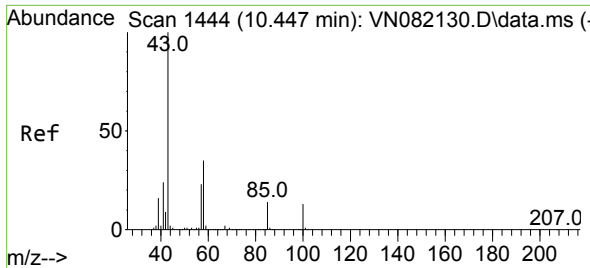
Tgt Ion: 41 Resp: 166452  
Ion Ratio Lower Upper  
41 100  
69 0.0 77.9 116.9#  
39 56.3 50.9 76.3



#50  
Toluene-d8  
Concen: 55.990 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

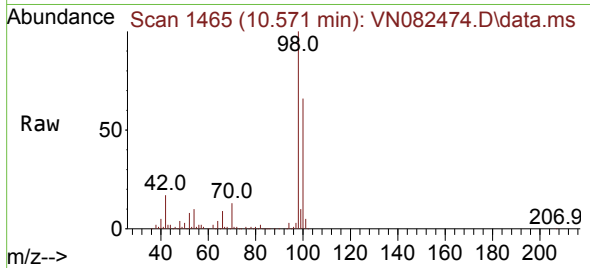
Tgt Ion: 98 Resp: 380142  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.8 77.6



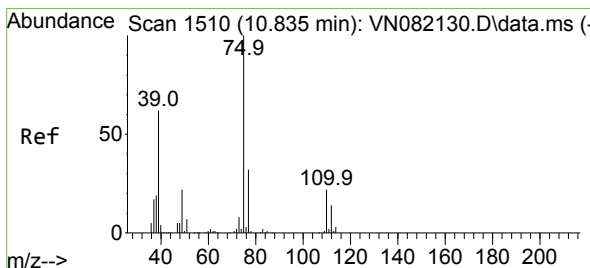
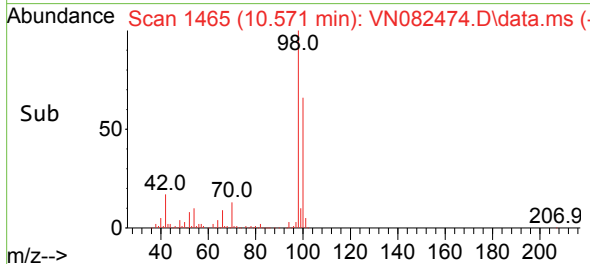
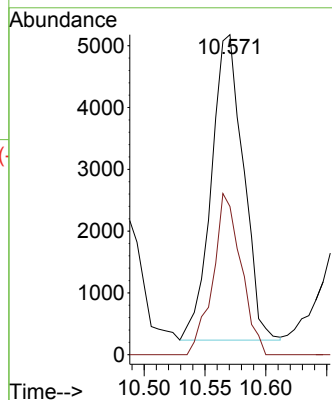


#51  
4-Methyl-2-Pentanone  
Concen: 2.705 ug/l  
RT: 10.571 min Scan# 1444  
Delta R.T. 0.123 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

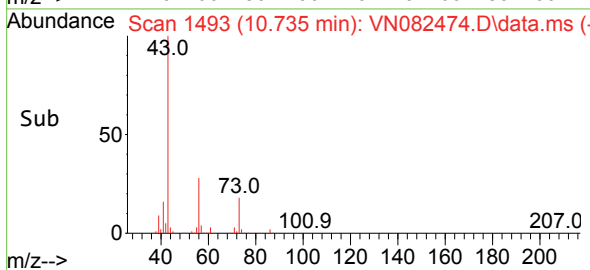
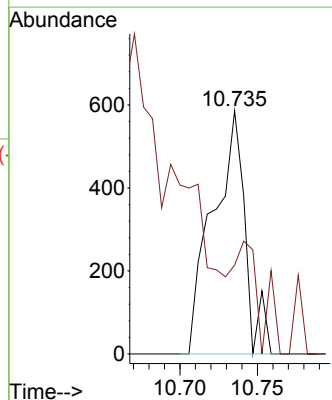
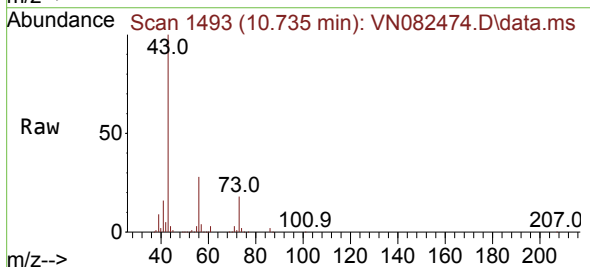


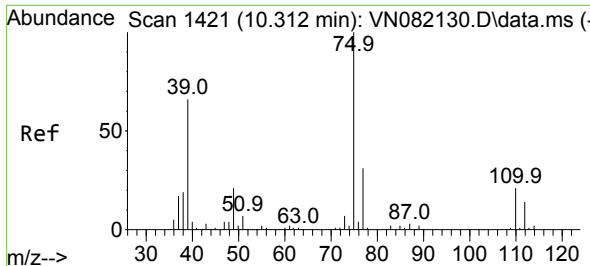
Tgt Ion: 43 Resp: 9051  
Ion Ratio Lower Upper  
43 100  
58 46.2 33.2 49.8



#53  
t-1,3-Dichloropropene  
Concen: 0.259 ug/l  
RT: 10.735 min Scan# 1493  
Delta R.T. -0.100 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

Tgt Ion: 75 Resp: 849  
Ion Ratio Lower Upper  
75 100  
77 36.5 25.4 38.0

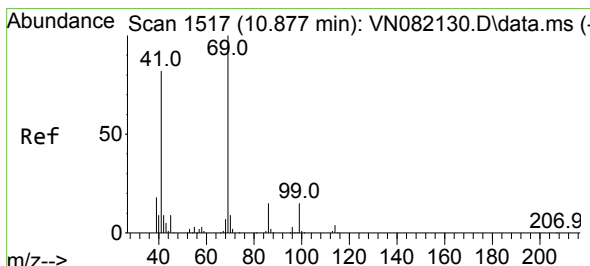
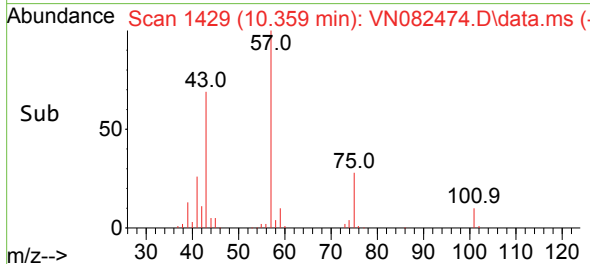
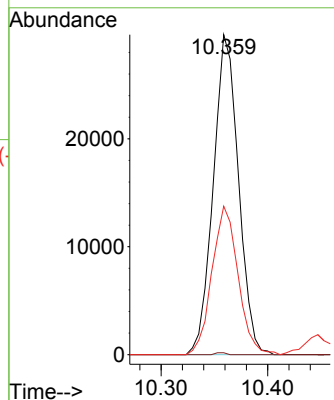
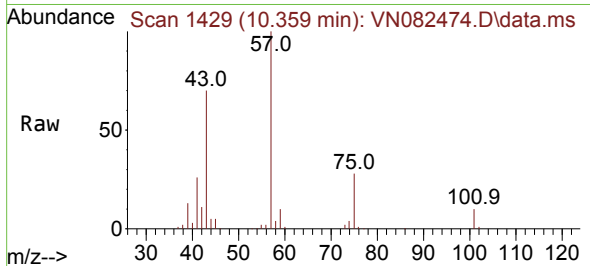




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.043 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.047 min  
 Lab File: VN082474.D  
 Acq: 05 Jun 2024 16:38

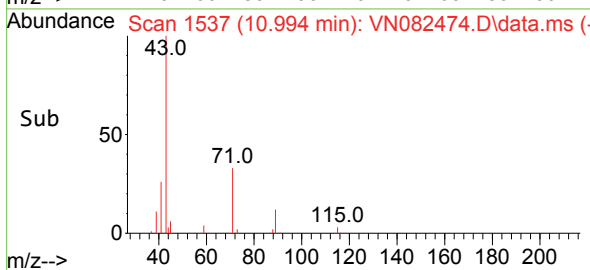
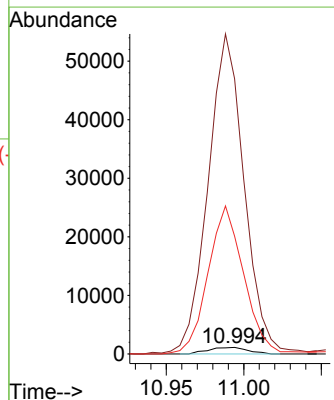
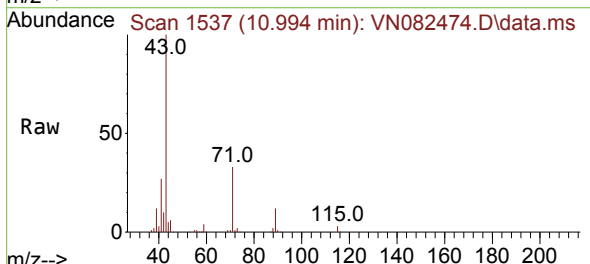
Instrument :  
 MSVOA\_N  
 ClientSampleId :

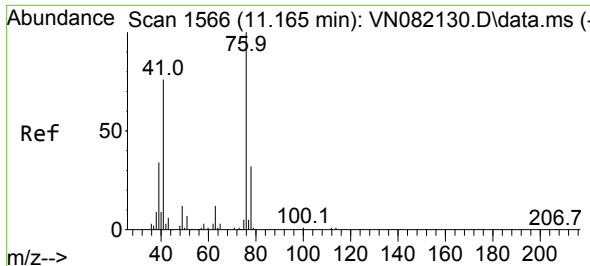
Tgt Ion: 75 Resp: 48692  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.0 37.4#  
 39 46.4 34.8 52.2



#56  
 Ethyl methacrylate  
 Concen: 0.604 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. 0.118 min  
 Lab File: VN082474.D  
 Acq: 05 Jun 2024 16:38

Tgt Ion: 69 Resp: 1980  
 Ion Ratio Lower Upper  
 69 100  
 41 4484.4 46.6 70.0#  
 39 2048.5 26.5 39.7#





#57

1,3-Dichloropropane

Concen: 1.798 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

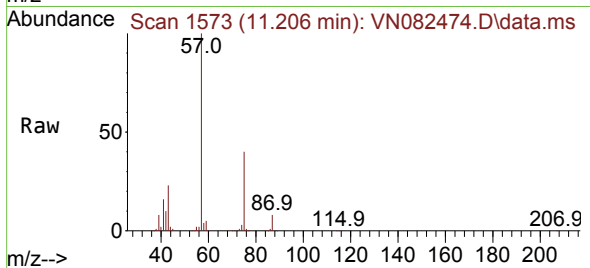
Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

Instrument :

MSVOA\_N

ClientSampleId :

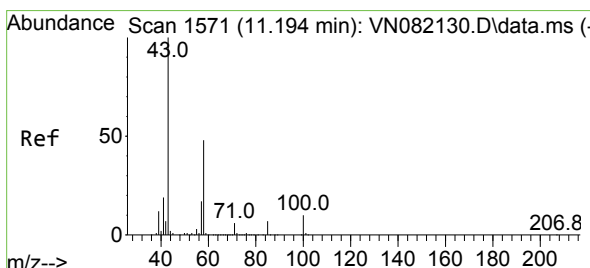
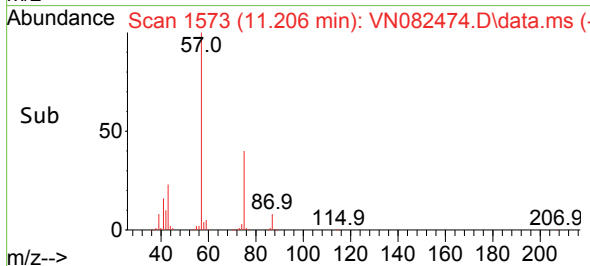
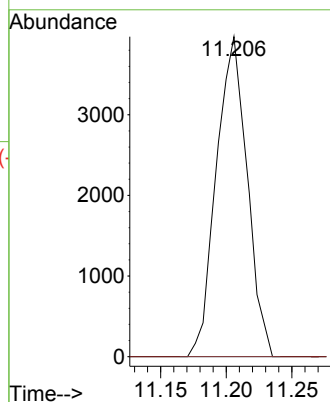


Tgt Ion: 76 Resp: 6495

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 45.691 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN082474.D

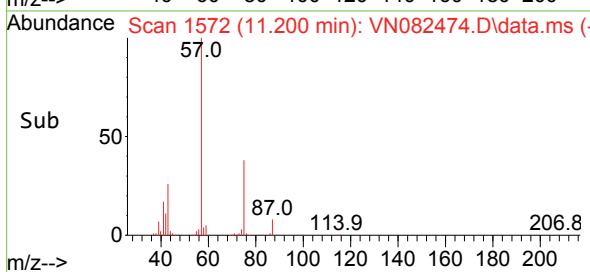
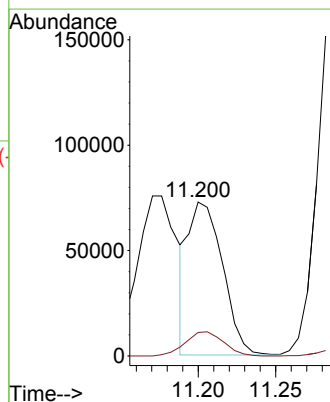
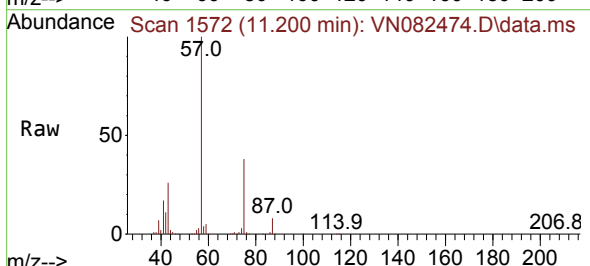
Acq: 05 Jun 2024 16:38

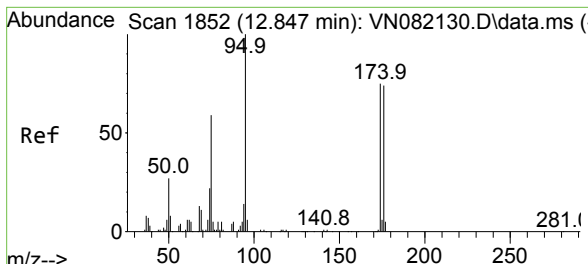
Tgt Ion: 43 Resp: 111952

Ion Ratio Lower Upper

43 100

58 17.6 28.3 84.9#

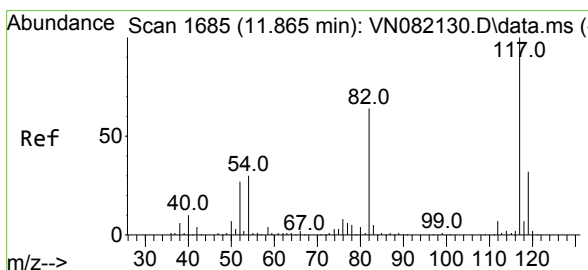
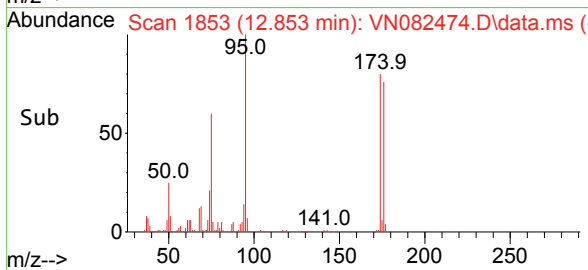
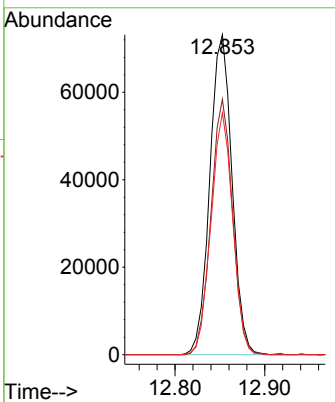
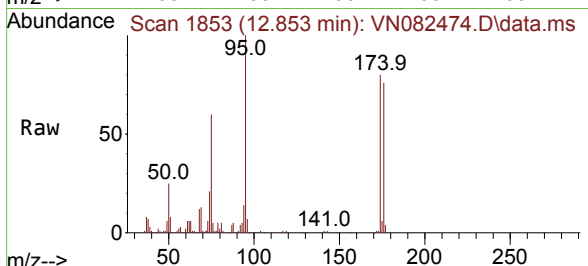




#62  
4-Bromofluorobenzene  
Concen: 51.890 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

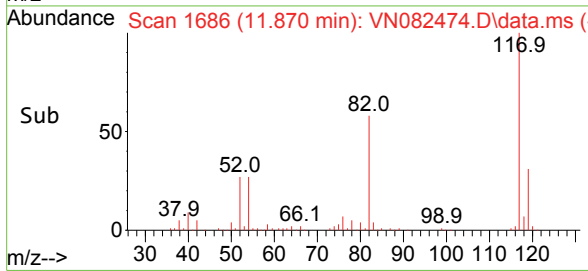
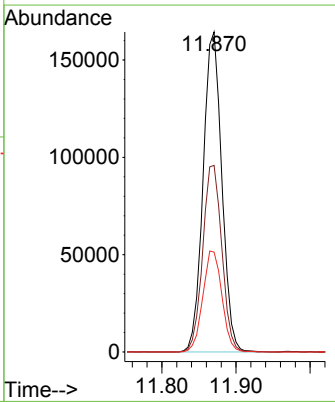
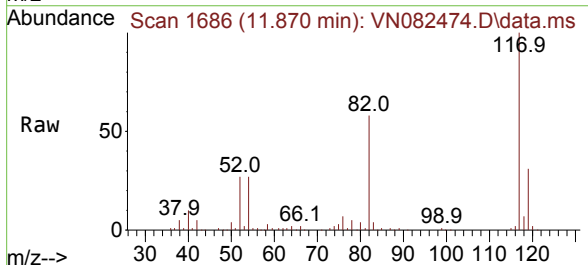
Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 125746 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 77.6  | 0.0   | 160.6  |
| 176      | 73.7  | 0.0   | 152.8  |

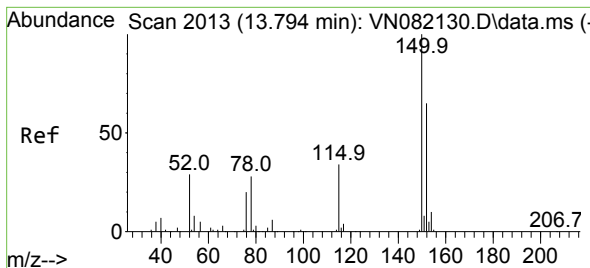


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 287926 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 58.3  | 44.6  | 66.8   |
| 119      | 31.2  | 25.9  | 38.9   |







#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

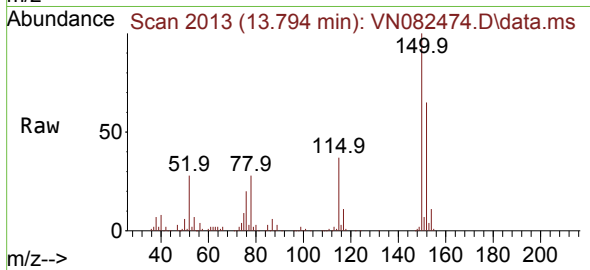
Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

Instrument :

MSVOA\_N

ClientSampleId :



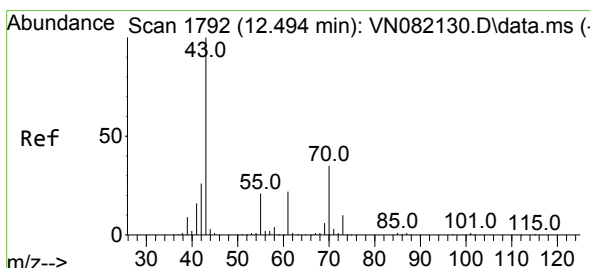
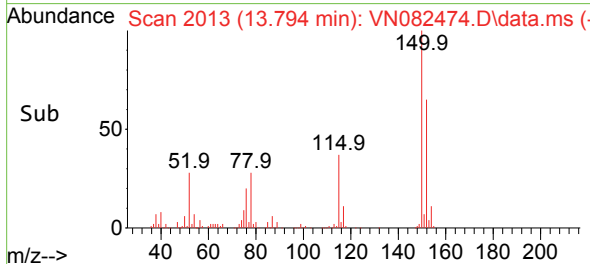
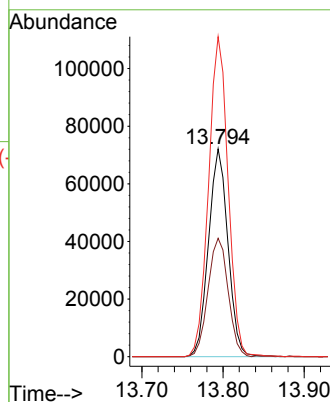
Tgt Ion:152 Resp: 119784

Ion Ratio Lower Upper

152 100

115 59.0 30.4 91.3

150 155.1 0.0 353.2



#74

N-ethyl acetate

Concen: 0.278 ug/l

RT: 12.500 min Scan# 1793

Delta R.T. 0.006 min

Lab File: VN082474.D

Acq: 05 Jun 2024 16:38

Tgt Ion: 43 Resp: 1454

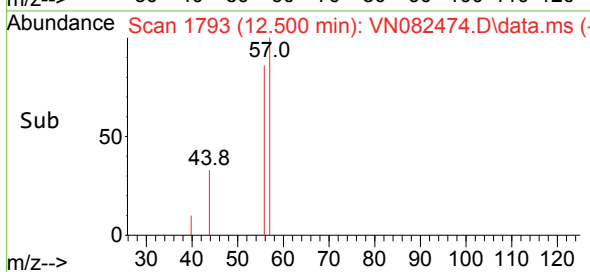
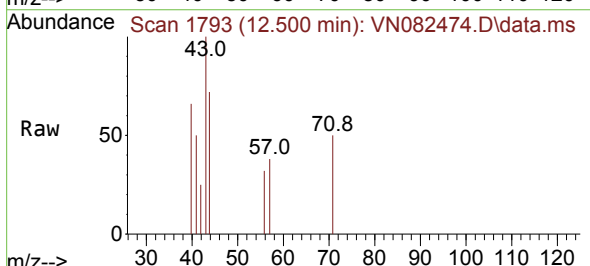
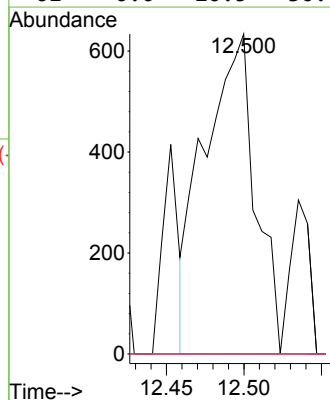
Ion Ratio Lower Upper

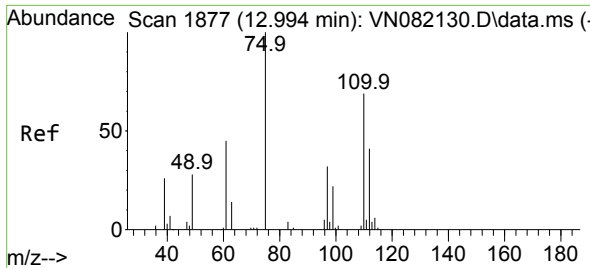
43 100

70 0.0 39.0 58.4#

55 0.0 21.3 31.9#

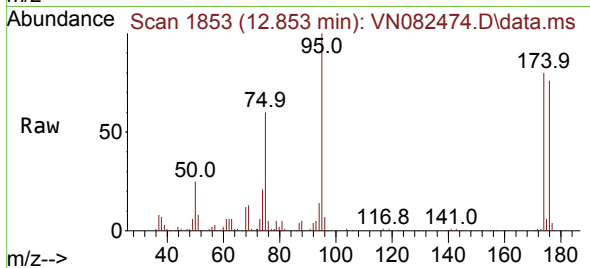
61 0.0 20.5 30.7#



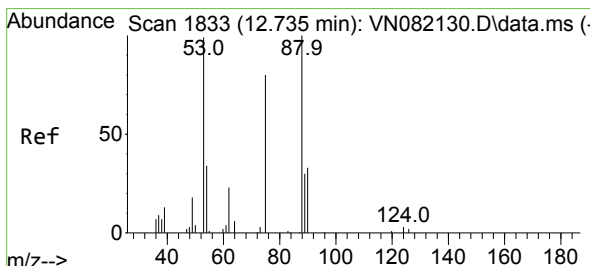
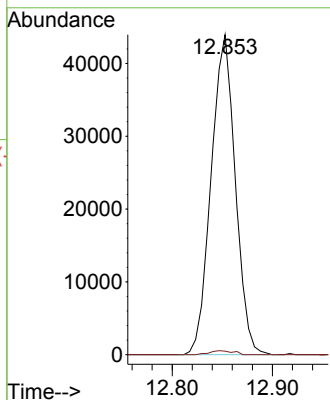
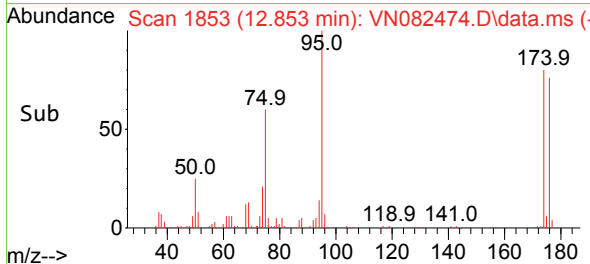


#76  
1,2,3-Trichloropropane  
Concen: 29.192 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38

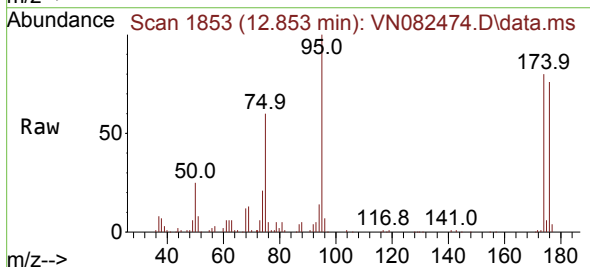
Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 73598  
Ion Ratio Lower Upper  
75 100  
77 1.2 90.5 271.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.279 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.118 min  
Lab File: VN082474.D  
Acq: 05 Jun 2024 16:38



Tgt Ion: 75 Resp: 73598  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.9 109.3#  
89 0.0 39.1 58.7#

