

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022224\  
 Data File : VN081146.D  
 Acq On : 22 Feb 2024 19:35  
 Operator : JC\MD  
 Sample : P1549-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

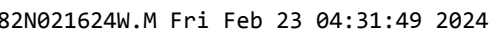
Instrument :  
 MSVOA\_N  
 ClientSampleId :

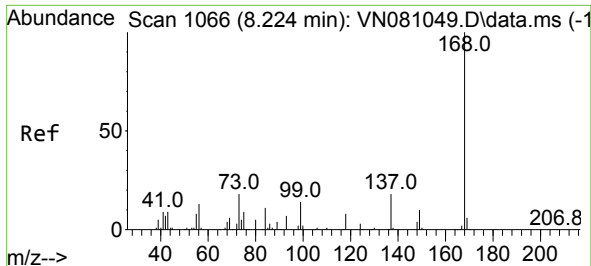
Quant Time: Feb 23 04:31:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 312891   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 594381   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 534759   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 211557   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 195228   | 50.905    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 101.800% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 160416   | 47.728    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 95.460%  |          |
| 50) Toluene-d8                | 10.571 | 98    | 535236   | 44.836    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 89.680%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 201058   | 44.823    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 89.640%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.365  | 50    | 1170     | Below Cal | #          | 43       |
| 5) Bromomethane               | 2.977  | 94    | 794      | 0.249     | ug/l       | 98       |
| 6) Chloroethane               | 3.130  | 64    | 341      | Below Cal | #          | 71       |
| 11) Tert butyl alcohol        | 5.530  | 59    | 12197    | 17.293    | ug/l       | # 94     |
| 13) Acrolein                  | 4.177  | 56    | 1140     | 3.016     | ug/l       | 94       |
| 16) Acetone                   | 4.430  | 43    | 67962    | 45.036    | ug/l       | 95       |
| 17) Carbon Disulfide          | 4.724  | 76    | 2340     | 0.237     | ug/l       | # 78     |
| 18) Methyl Acetate            | 5.012  | 43    | 1923     | 0.522     | ug/l       | # 80     |
| 20) Methylene Chloride        | 5.277  | 84    | 28226    | 6.420     | ug/l       | # 84     |
| 25) 2-Butanone                | 7.489  | 43    | 7250     | 2.974     | ug/l       | # 85     |
| 29) Tetrahydrofuran           | 7.841  | 42    | 581      | 0.357     | ug/l       | # 81     |
| 31) Cyclohexane               | 8.224  | 56    | 7813     | 1.180     | ug/l       | # 1      |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 27273    | 4.736     | ug/l       | # 52     |
| 37) Ethyl Acetate             | 7.565  | 43    | 4595     | 0.884     | ug/l       | # 96     |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 35293    | 6.058     | ug/l       | # 18     |
| 43) Isopropyl Acetate         | 8.694  | 43    | 212887   | 23.423    | ug/l       | # 87     |
| 45) 1,2-Dichloropropane       | 9.741  | 63    | 2207     | 0.529     | ug/l       | # 42     |
| 48) Methyl methacrylate       | 9.665  | 41    | 4905     | 1.160     | ug/l       | # 48     |
| 49) 1,4-Dioxane               | 9.706  | 88    | 63       | Below Cal | #          | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 14558    | 2.784     | ug/l       | # 83     |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 54377    | 7.872     | ug/l       | # 58     |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 6186     | 0.882     | ug/l       | # 43     |
| 59) 2-Hexanone                | 11.177 | 43    | 133720   | 32.260    | ug/l       | # 26     |
| 74) N-amyl acetate            | 12.459 | 43    | 1753     | 0.224     | ug/l       | # 48     |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 106973   | 22.255    | ug/l       | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 106973   | 57.282    | ug/l       | # 14     |
| -----                         |        |       |          |           |            |          |

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

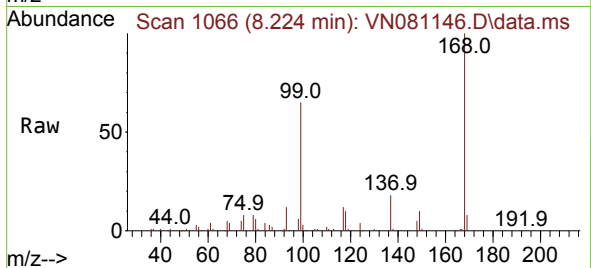
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 16 23:45:20 2024  
Response via : Initial Calibration



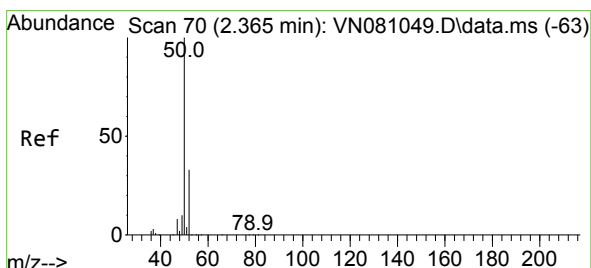
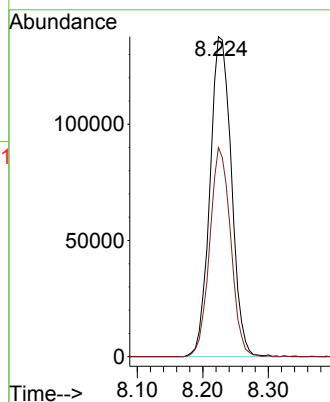
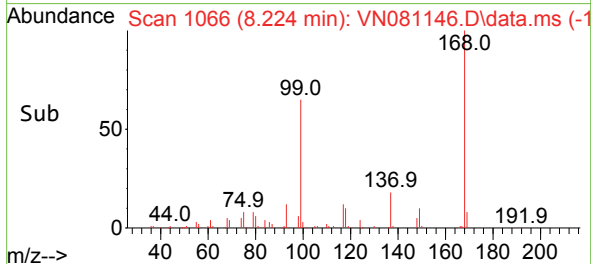


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Instrument :  
MSVOA\_N  
ClientSampleId :

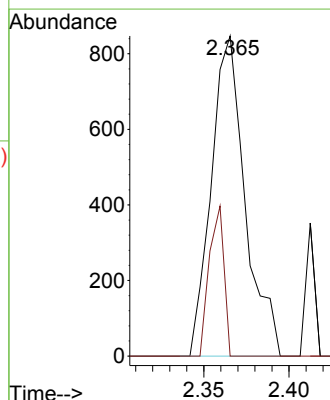
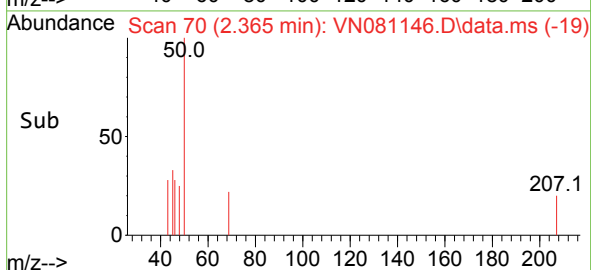
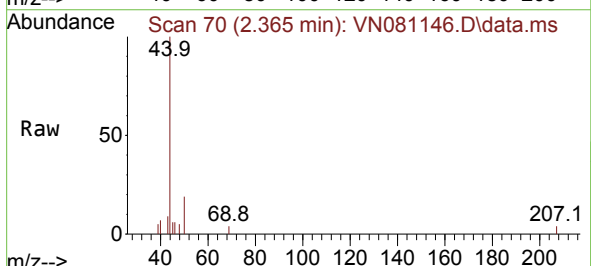


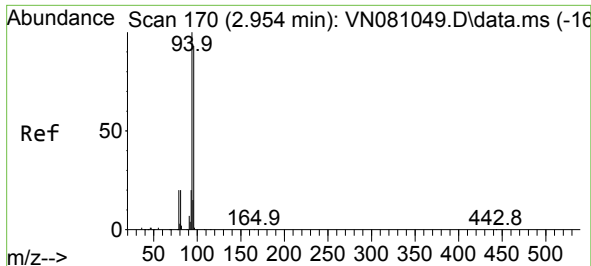
Tgt Ion:168 Resp: 312891  
Ion Ratio Lower Upper  
168 100  
99 65.4 59.9 89.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 50 Resp: 1170  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.0 37.4#

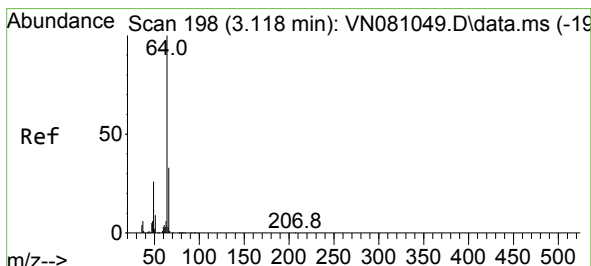
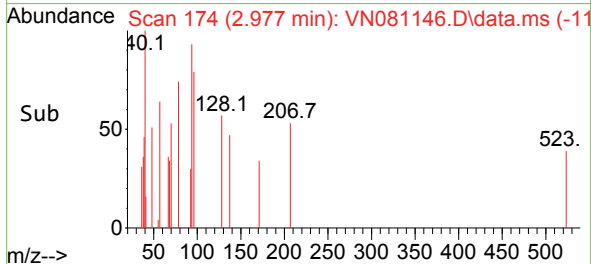
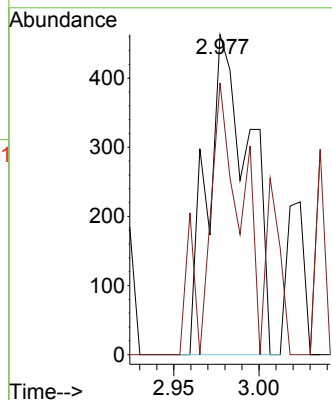
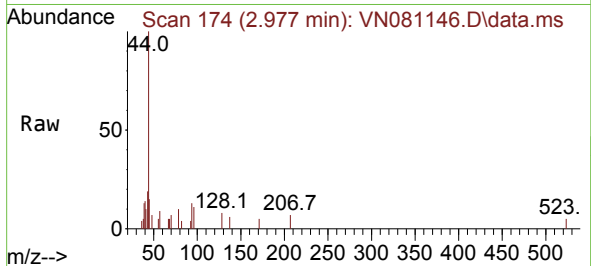




#5  
Bromomethane  
Concen: 0.249 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.023 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

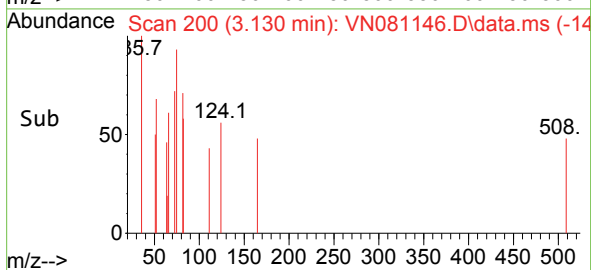
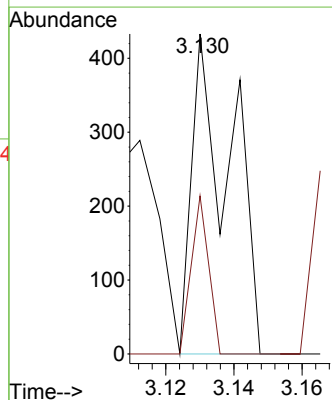
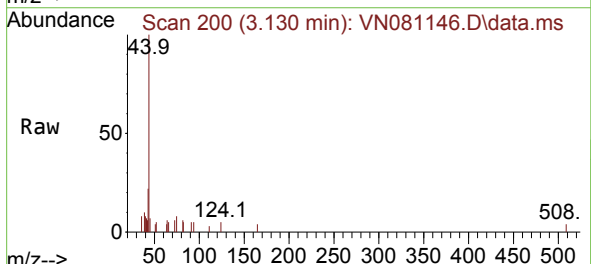
Instrument :  
MSVOA\_N  
ClientSampleId :

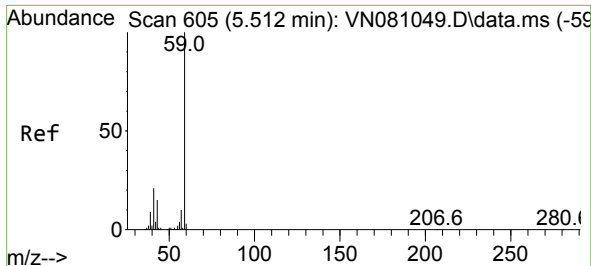
Tgt Ion: 94 Resp: 794  
Ion Ratio Lower Upper  
94 100  
96 84.9 69.2 103.8



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.130 min Scan# 200  
Delta R.T. 0.012 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 64 Resp: 341  
Ion Ratio Lower Upper  
64 100  
66 49.4 26.4 39.6#





#11

Tert butyl alcohol

Concen: 17.293 ug/l

RT: 5.530 min Scan# 605

Delta R.T. 0.018 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Instrument :

MSVOA\_N

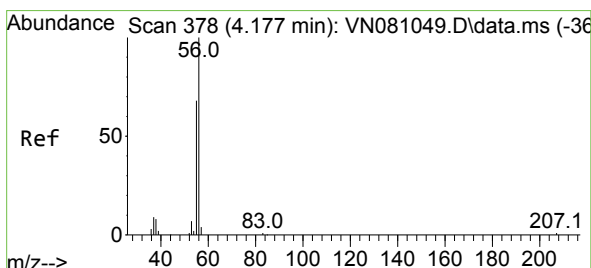
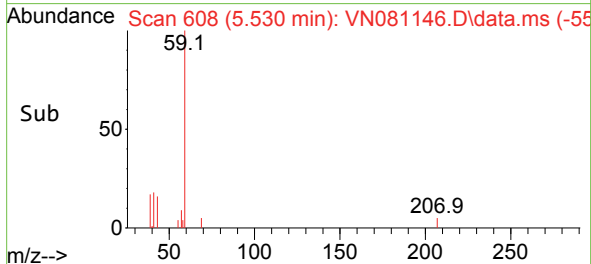
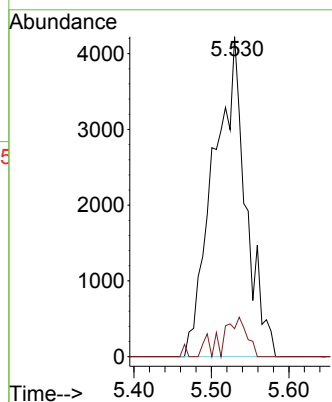
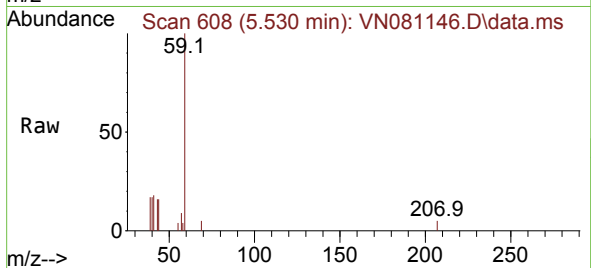
ClientSampleId :

Tgt Ion: 59 Resp: 12197

Ion Ratio Lower Upper

59 100

57 8.3 8.6 12.8#



#13

Acrolein

Concen: 3.016 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN081146.D

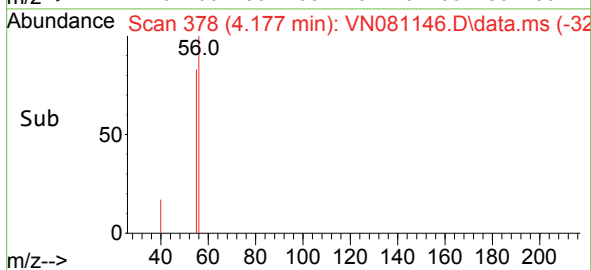
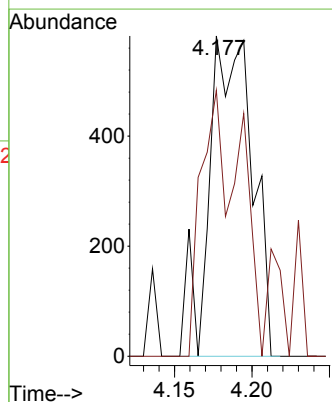
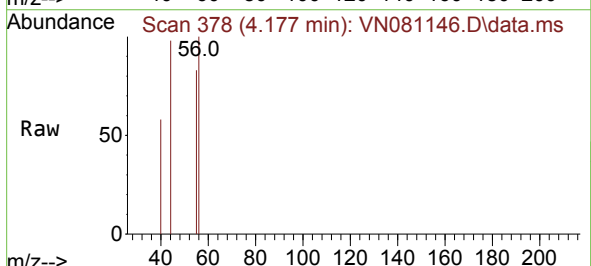
Acq: 22 Feb 2024 19:35

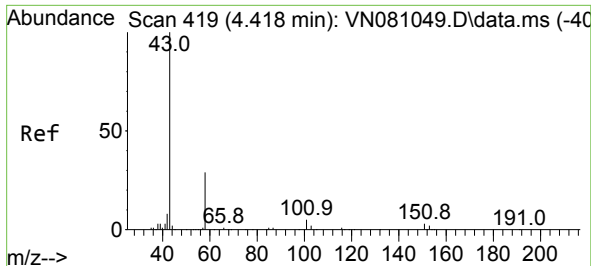
Tgt Ion: 56 Resp: 1140

Ion Ratio Lower Upper

56 100

55 74.4 55.3 82.9

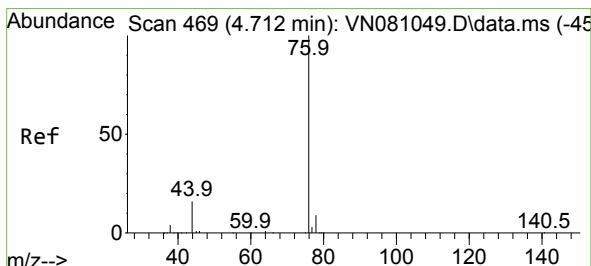
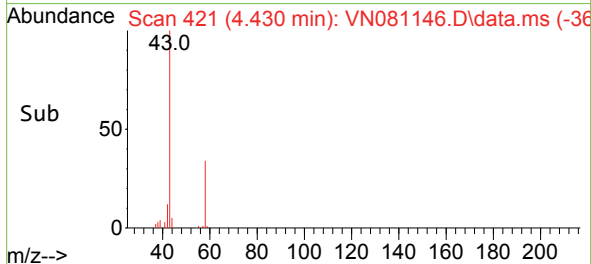
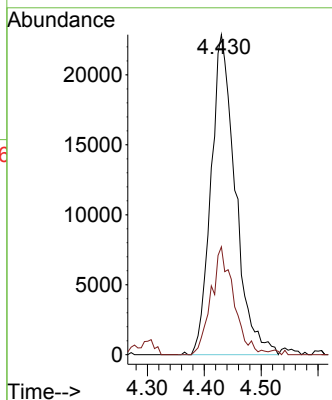
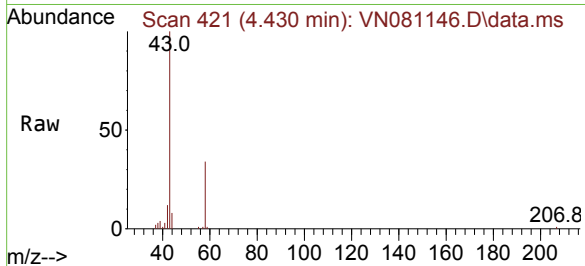




#16  
Acetone  
Concen: 45.036 ug/l  
RT: 4.430 min Scan# 419  
Delta R.T. 0.012 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

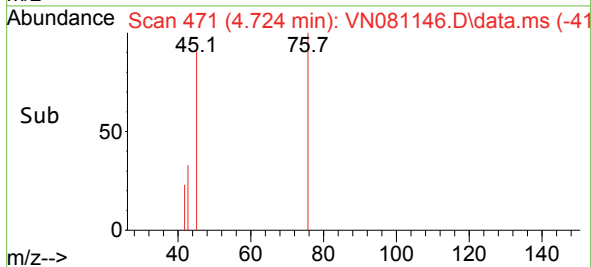
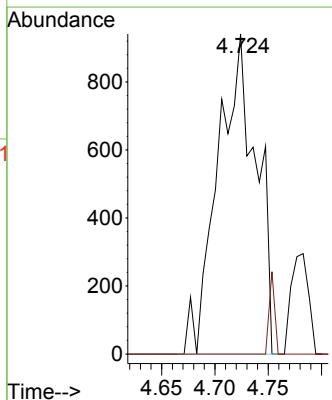
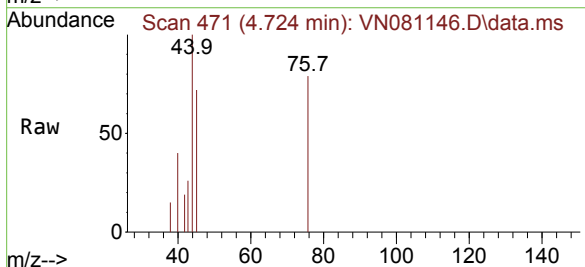
Instrument :  
MSVOA\_N  
ClientSampleId :

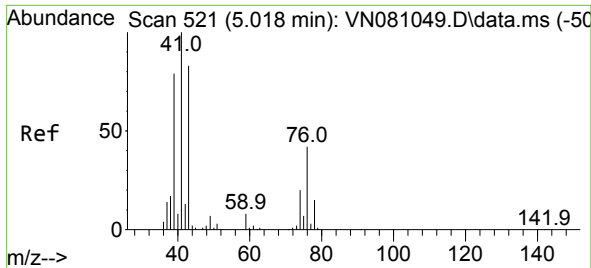
Tgt Ion: 43 Resp: 67962  
Ion Ratio Lower Upper  
43 100  
58 33.7 24.8 37.2



#17  
Carbon Disulfide  
Concen: 0.237 ug/l  
RT: 4.724 min Scan# 471  
Delta R.T. 0.012 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 76 Resp: 2340  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.3 9.5#

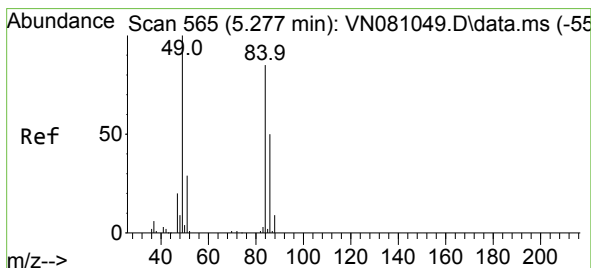
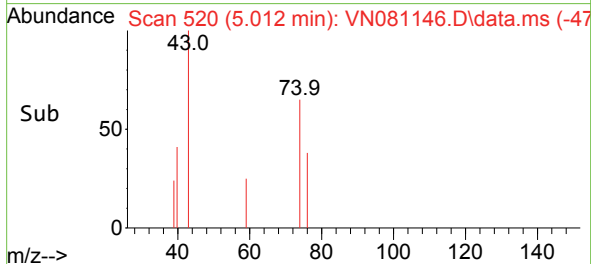
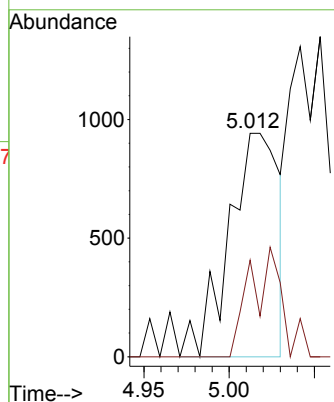
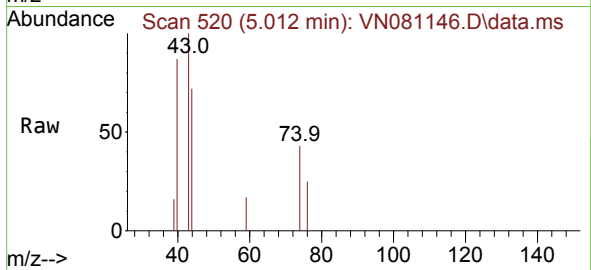




#18  
Methyl Acetate  
Concen: 0.522 ug/l  
RT: 5.012 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

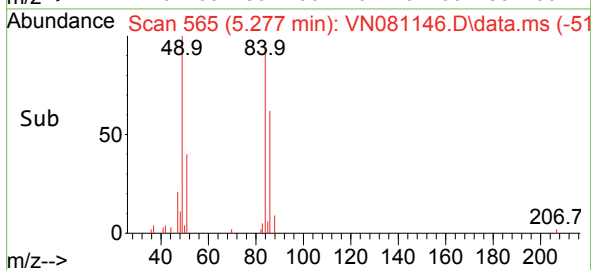
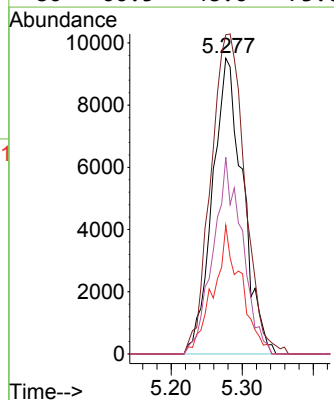
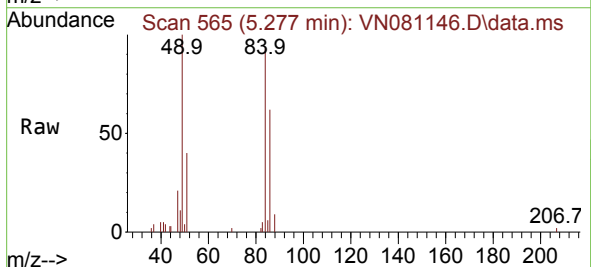
Instrument :  
MSVOA\_N  
ClientSampleId :

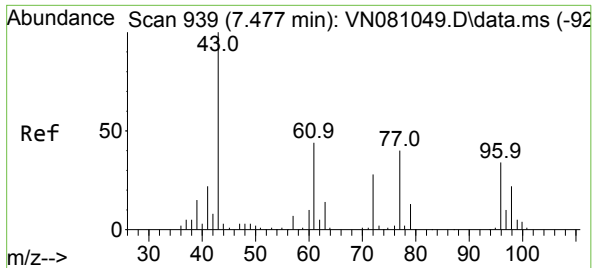
Tgt Ion: 43 Resp: 1923  
Ion Ratio Lower Upper  
43 100  
74 31.3 17.3 25.9#



#20  
Methylene Chloride  
Concen: 6.420 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. -0.000 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 84 Resp: 28226  
Ion Ratio Lower Upper  
84 100  
49 108.0 108.1 162.1#  
51 43.5 32.9 49.3  
86 66.5 48.6 73.0

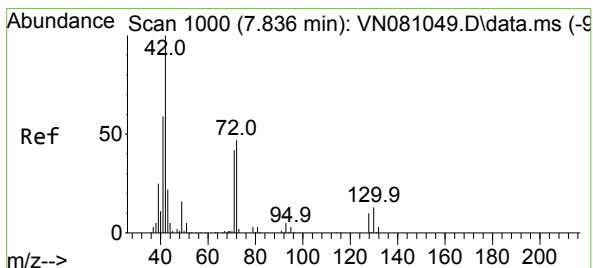
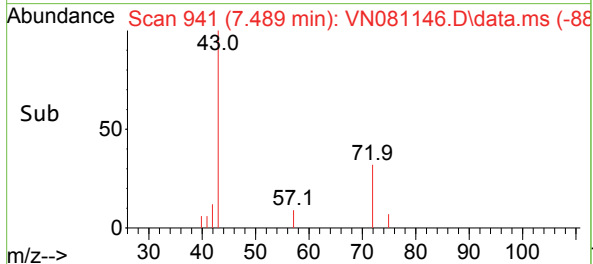
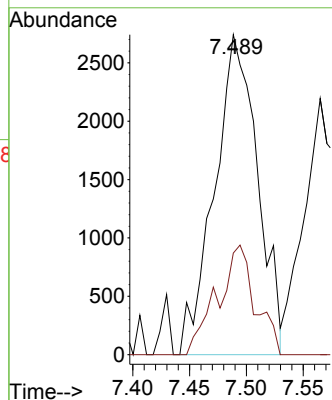
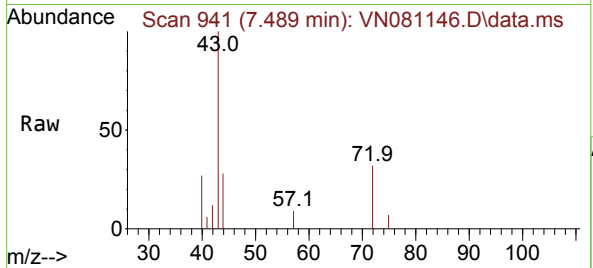




#25  
2-Butanone  
Concen: 2.974 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

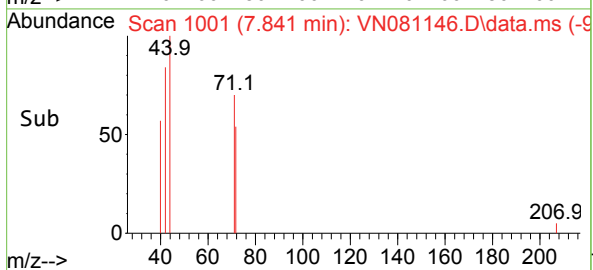
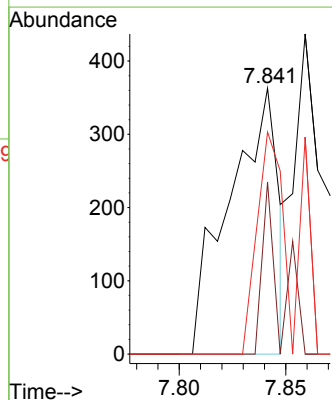
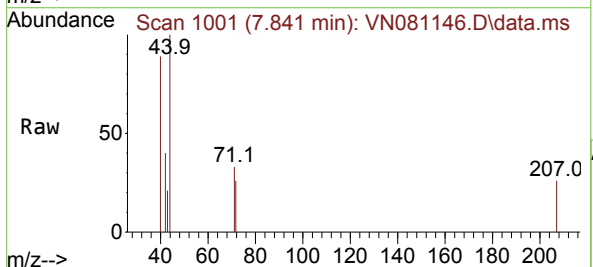
Instrument :  
MSVOA\_N  
ClientSampleId :

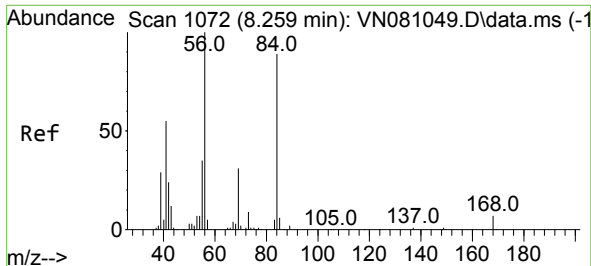
Tgt Ion: 43 Resp: 7250  
Ion Ratio Lower Upper  
43 100  
72 31.8 19.5 29.3#



#29  
Tetrahydrofuran  
Concen: 0.357 ug/l  
RT: 7.841 min Scan# 1001  
Delta R.T. 0.006 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

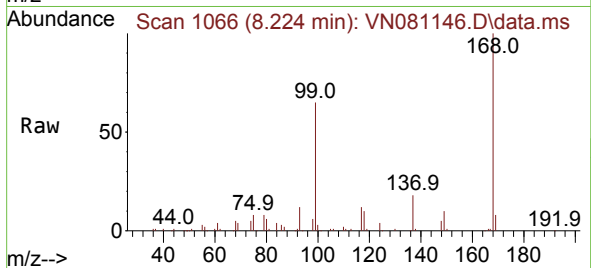
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72 23.6 31.1 46.7#  
71 42.9 28.3 42.5#



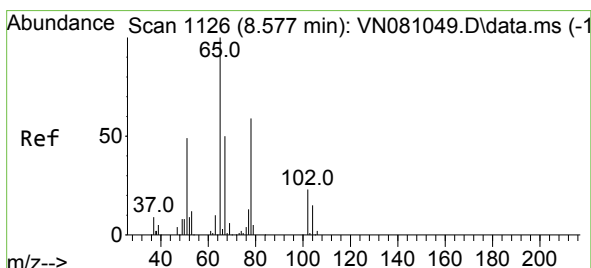
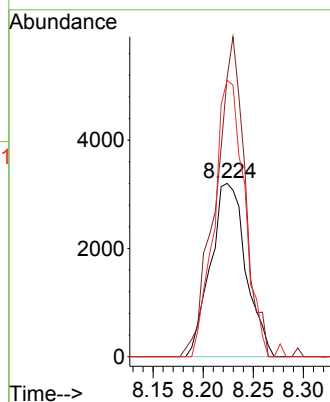
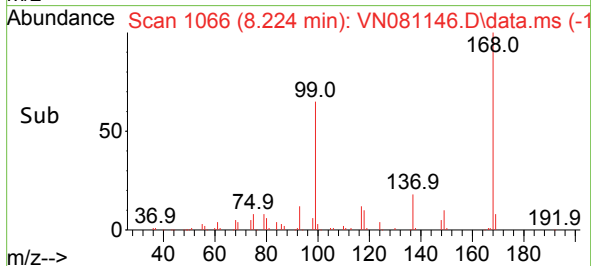


#31  
Cyclohexane  
Concen: 1.180 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Instrument :  
MSVOA\_N  
ClientSampleId :

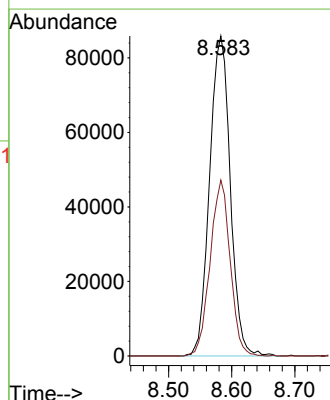
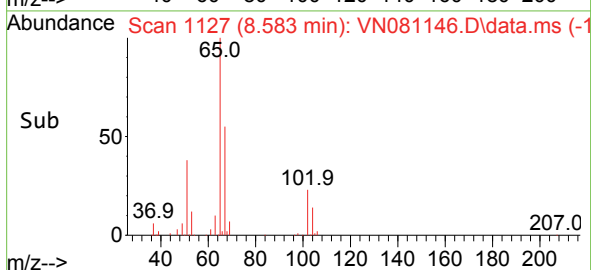
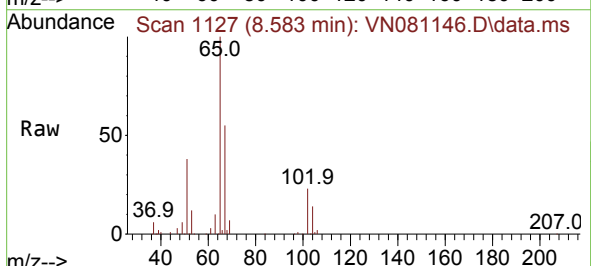


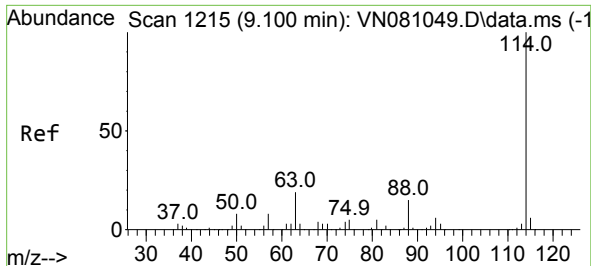
Tgt Ion: 56 Resp: 7813  
Ion Ratio Lower Upper  
56 100  
69 160.8 20.1 30.1#  
84 159.4 56.9 85.3#



#33  
1,2-Dichloroethane-d4  
Concen: 50.905 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 65 Resp: 195228  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Instrument :

MSVOA\_N

ClientSampleId :

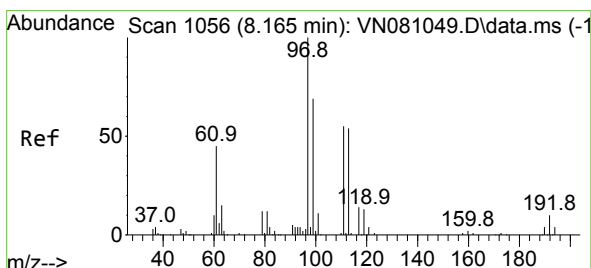
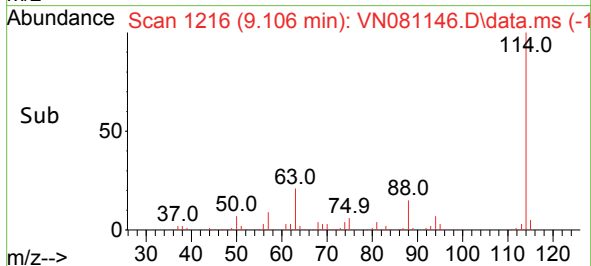
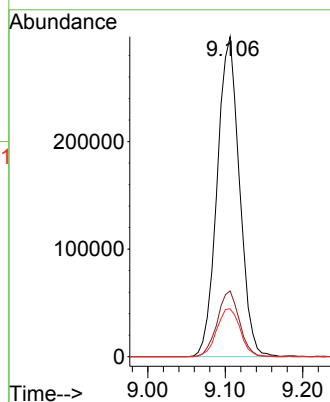
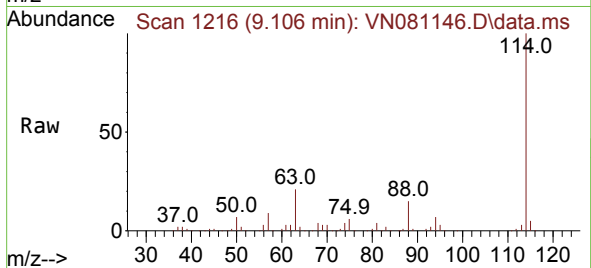
Tgt Ion:114 Resp: 594381

Ion Ratio Lower Upper

114 100

63 20.5 0.0 48.0

88 15.0 0.0 34.8



#35

Dibromofluoromethane

Concen: 47.728 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

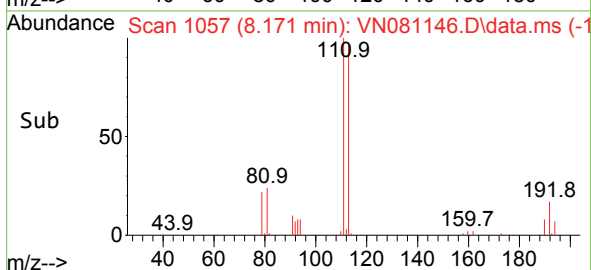
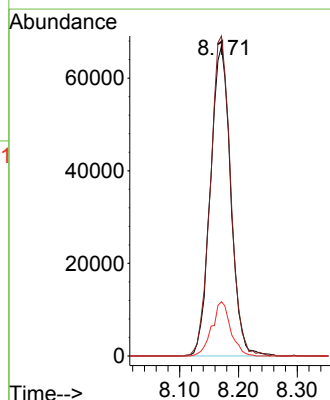
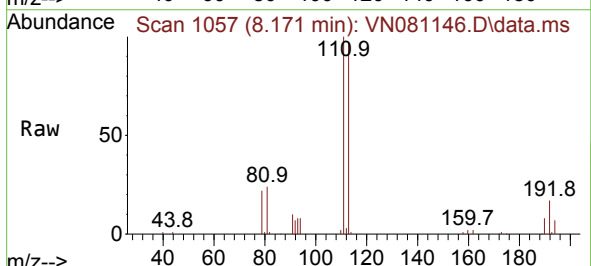
Tgt Ion:113 Resp: 160416

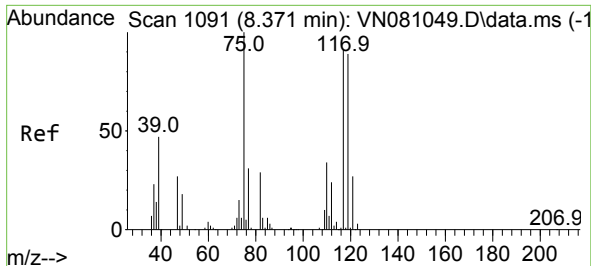
Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

192 16.2 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.736 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

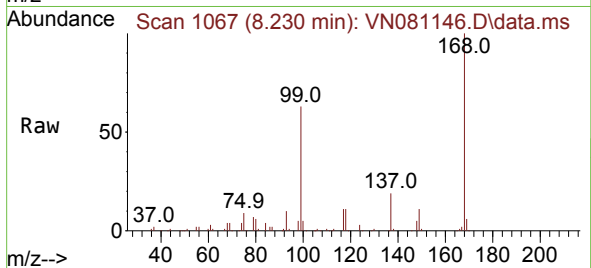
Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Instrument :

MSVOA\_N

ClientSampleId :



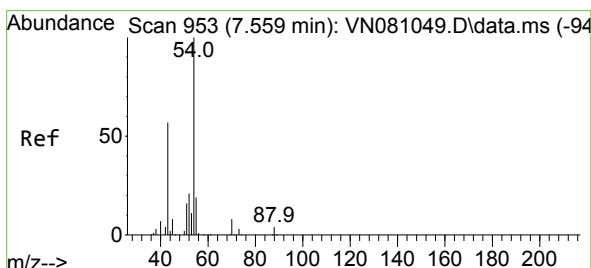
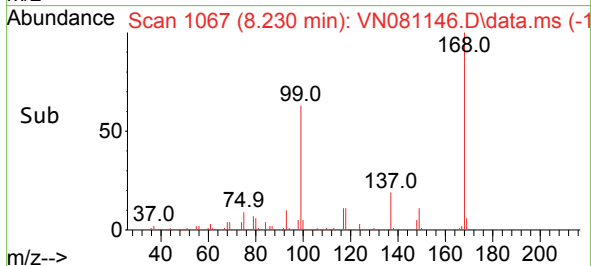
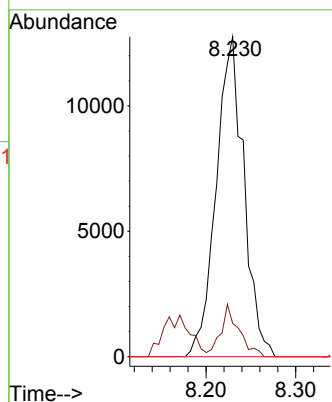
Tgt Ion: 75 Resp: 27273

Ion Ratio Lower Upper

75 100

110 10.7 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 0.884 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

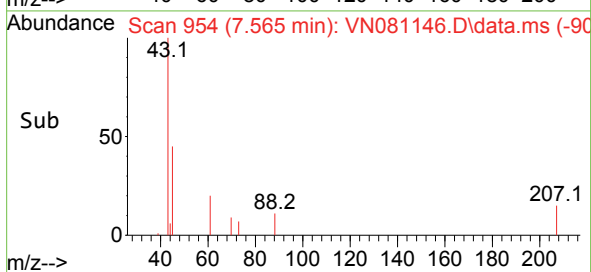
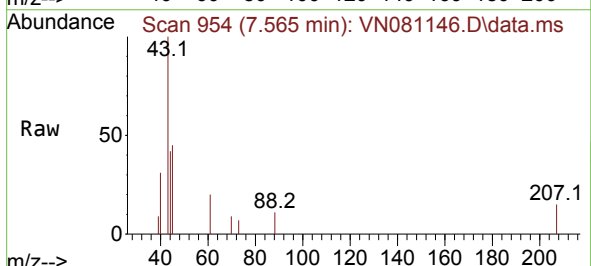
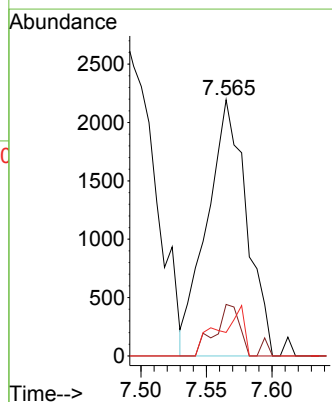
Tgt Ion: 43 Resp: 4595

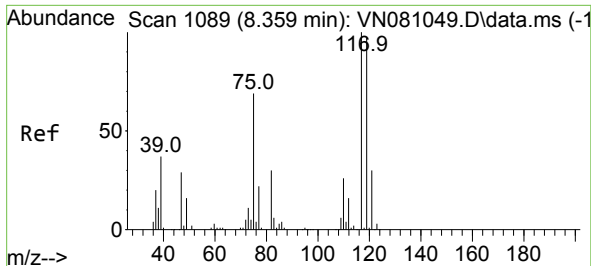
Ion Ratio Lower Upper

43 100

61 12.4 10.6 15.8

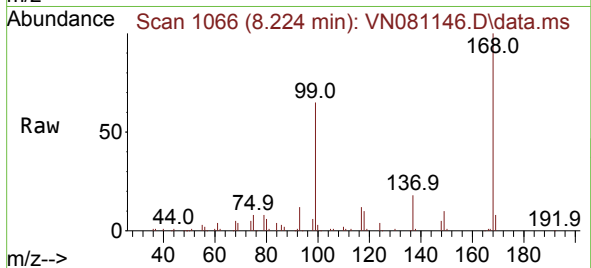
70 12.3 8.0 12.0#



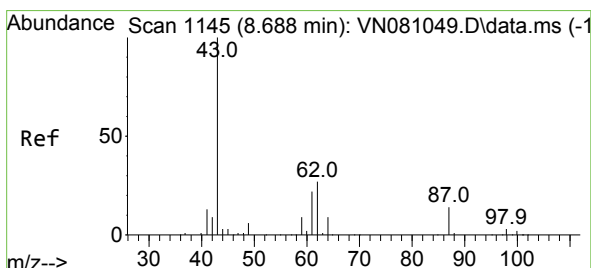
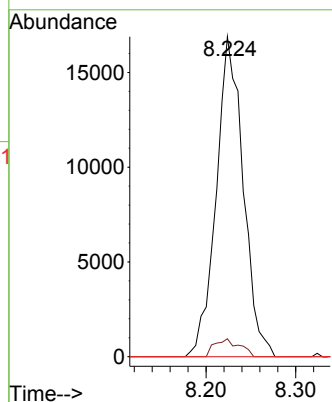
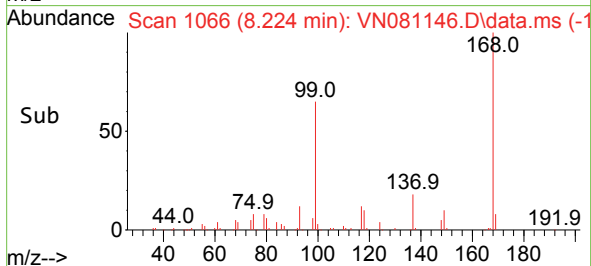


#38  
Carbon Tetrachloride  
Concen: 6.058 ug/l  
RT: 8.224 min Scan# 1089  
Delta R.T. -0.135 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Instrument :  
MSVOA\_N  
ClientSampleId :

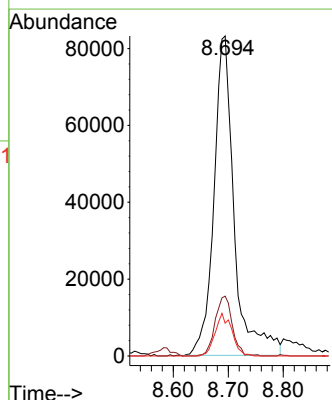
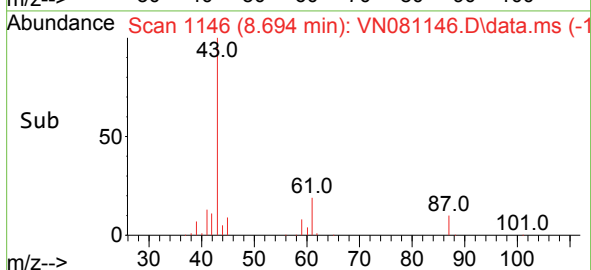
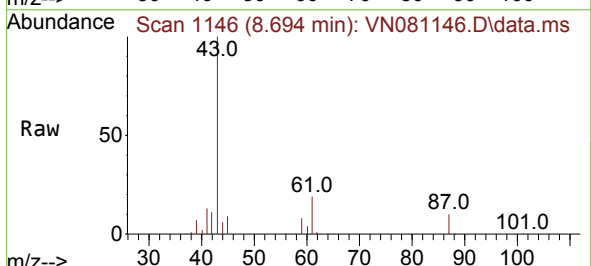


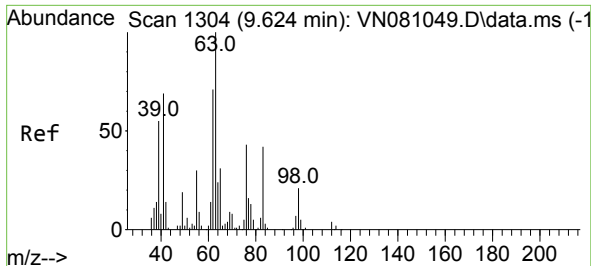
Tgt Ion:117 Resp: 35293  
Ion Ratio Lower Upper  
117 100  
119 5.6 73.4 110.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 23.423 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 43 Resp: 212887  
Ion Ratio Lower Upper  
43 100  
61 15.8 19.9 29.9#  
87 11.0 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.529 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.118 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Instrument :

MSVOA\_N

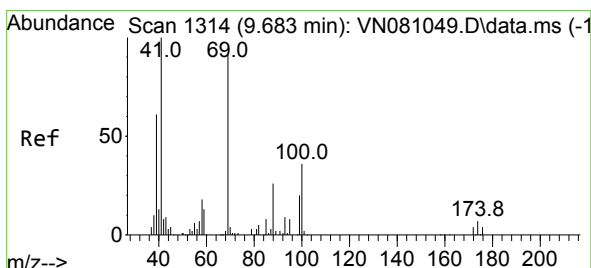
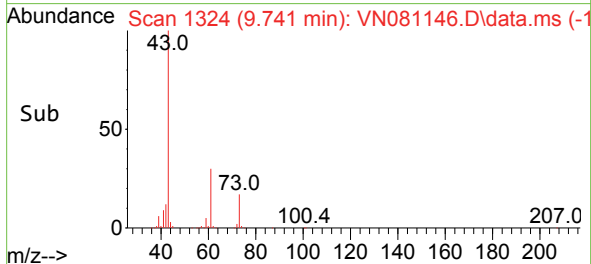
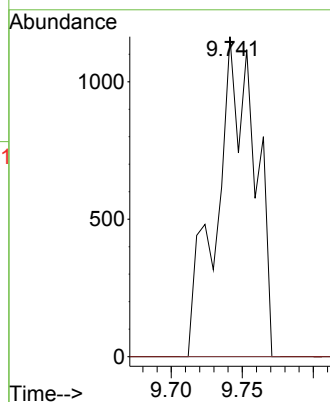
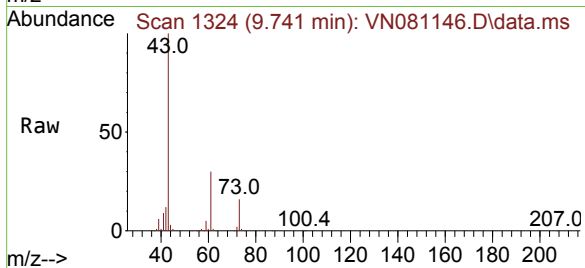
ClientSampleId :

Tgt Ion: 63 Resp: 2207

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.160 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.018 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

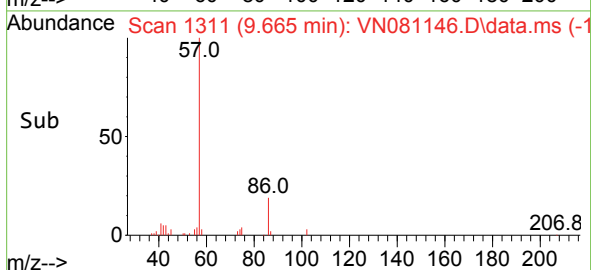
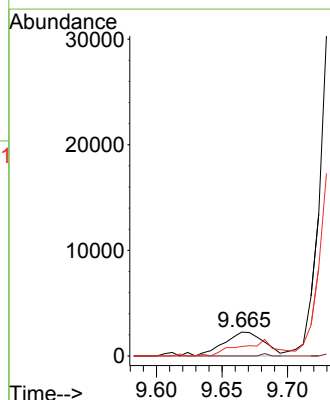
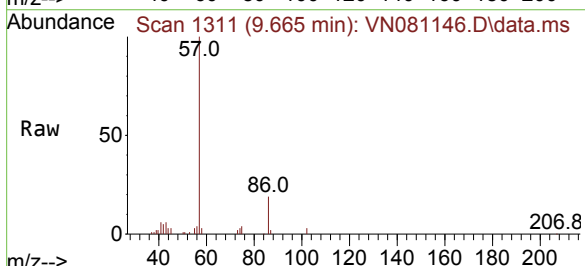
Tgt Ion: 41 Resp: 4905

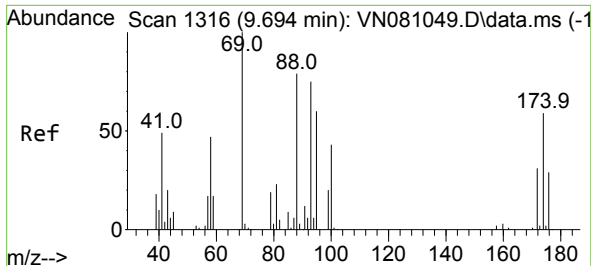
Ion Ratio Lower Upper

41 100

69 1.7 62.2 93.2#

39 63.0 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.706 min Scan# 11

Delta R.T. 0.012 min

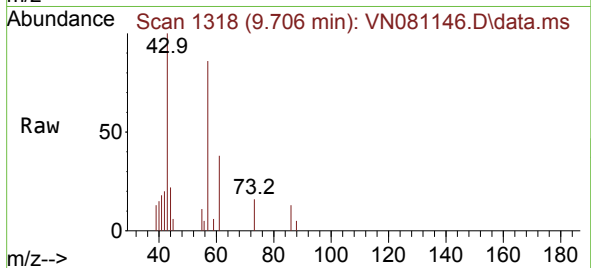
Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Instrument :

MSVOA\_N

ClientSampleId :



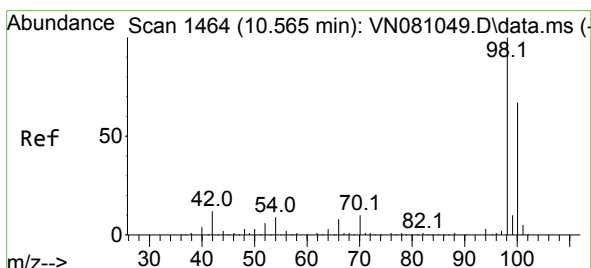
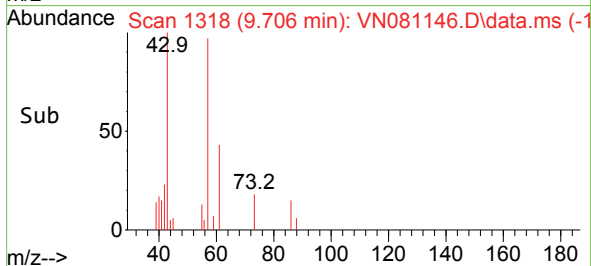
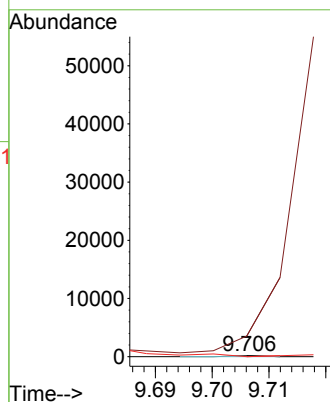
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 44.836 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081146.D

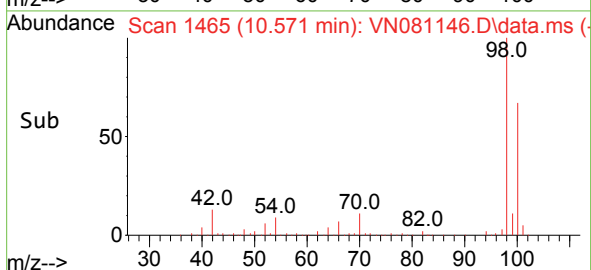
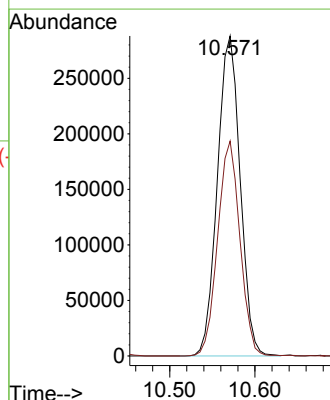
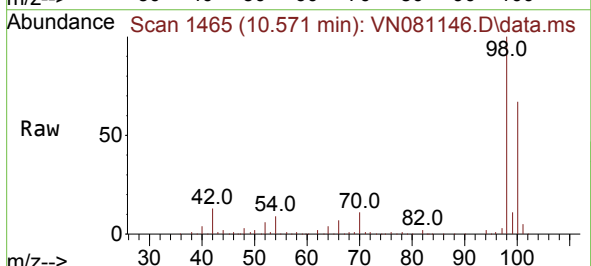
Acq: 22 Feb 2024 19:35

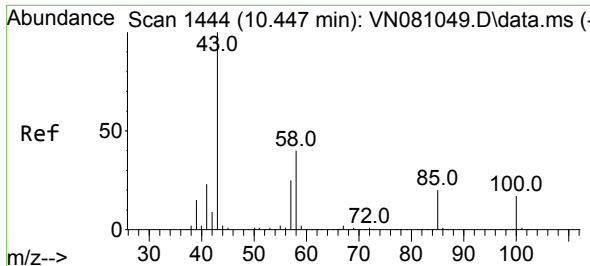
Tgt Ion: 98 Resp: 535236

Ion Ratio Lower Upper

98 100

100 65.7 51.4 77.0

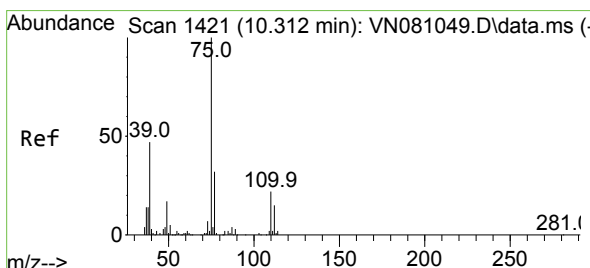
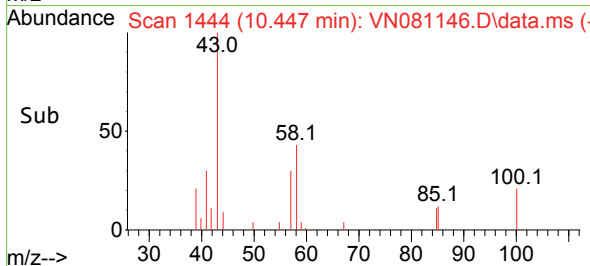
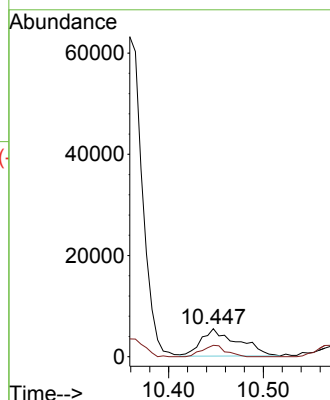
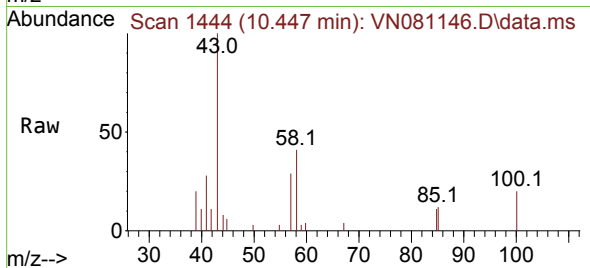




#51  
4-Methyl-2-Pentanone  
Concen: 2.784 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

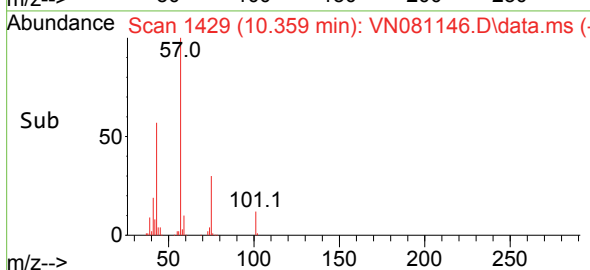
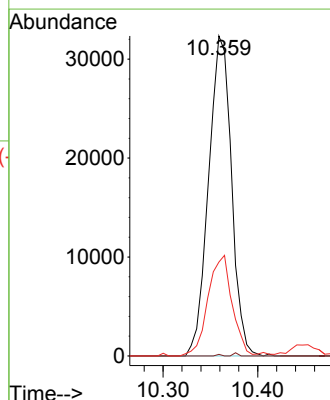
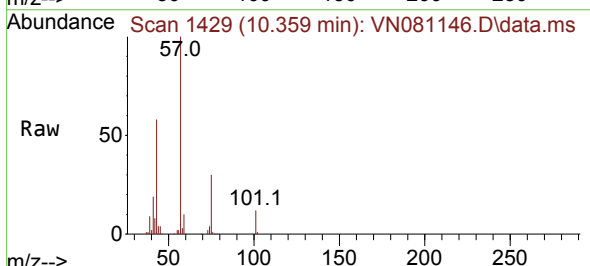
Instrument :  
MSVOA\_N  
ClientSampleId :

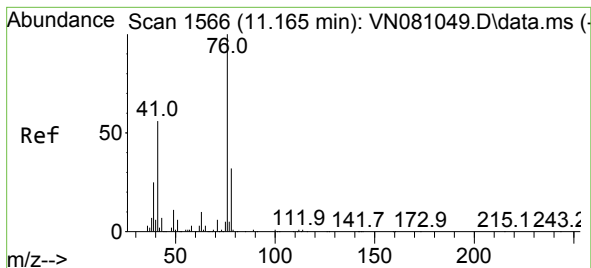
Tgt Ion: 43 Resp: 14558  
Ion Ratio Lower Upper  
43 100  
58 26.9 29.4 44.0#



#54  
cis-1,3-Dichloropropene  
Concen: 7.872 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.047 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 75 Resp: 54377  
Ion Ratio Lower Upper  
75 100  
77 0.5 23.3 34.9#  
39 29.4 44.6 66.8#

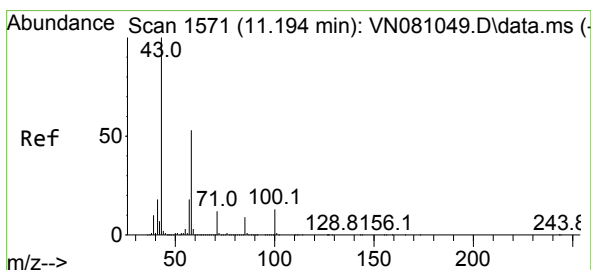
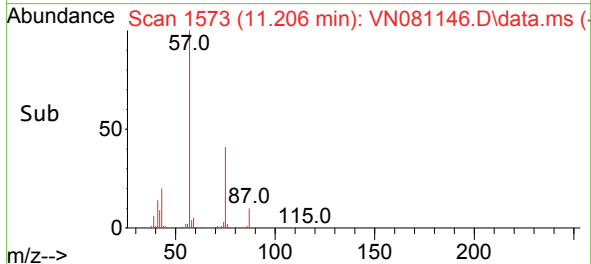
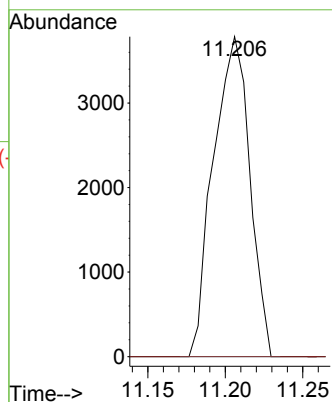
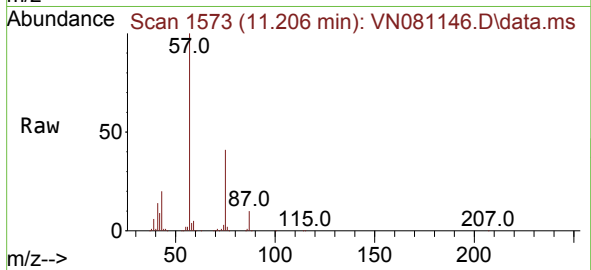




#57  
1,3-Dichloropropane  
Concen: 0.882 ug/l  
RT: 11.206 min Scan# 11  
Delta R.T. 0.041 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

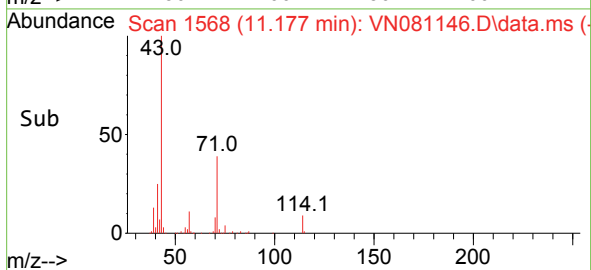
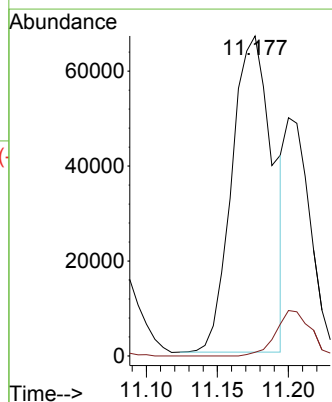
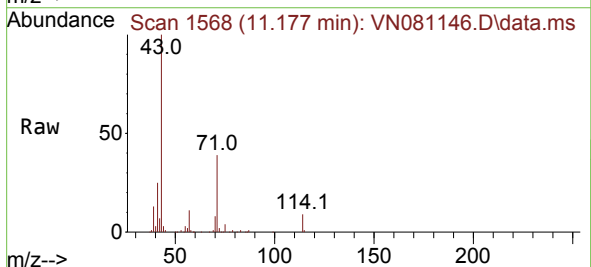
Instrument :  
MSVOA\_N  
ClientSampleId :

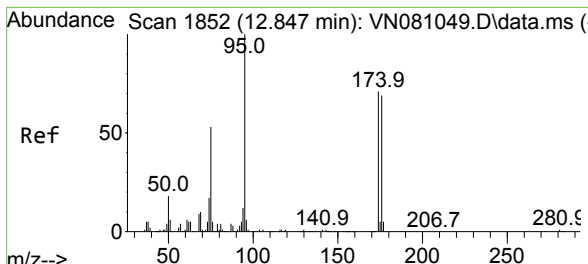
Tgt Ion: 76 Resp: 6186  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.5 38.3#



#59  
2-Hexanone  
Concen: 32.260 ug/l  
RT: 11.177 min Scan# 1568  
Delta R.T. -0.018 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

Tgt Ion: 43 Resp: 133720  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.9 77.8#

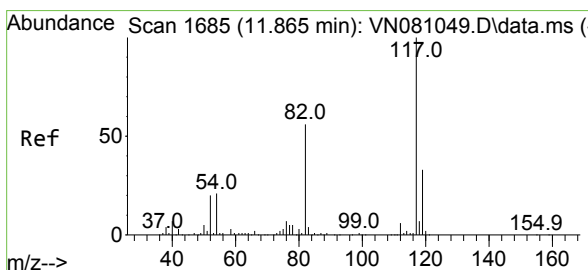
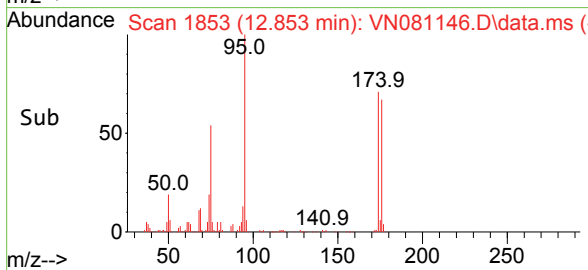
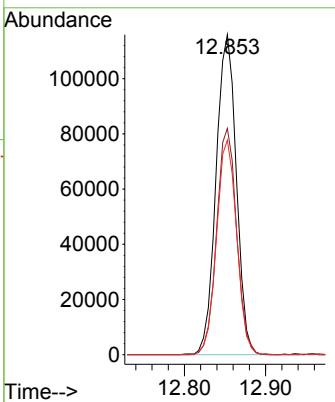
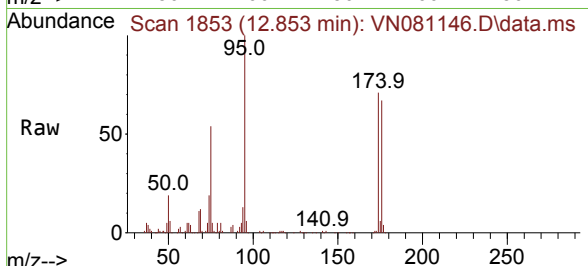




#62  
4-Bromofluorobenzene  
Concen: 44.823 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

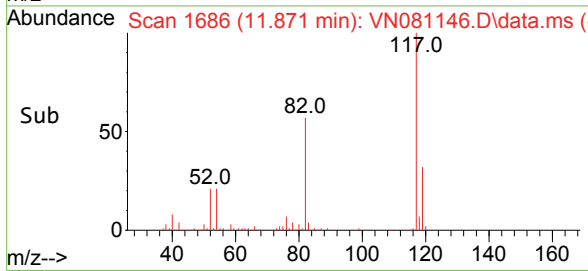
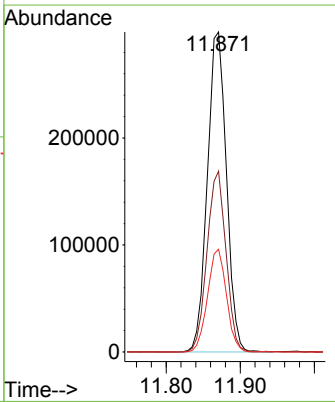
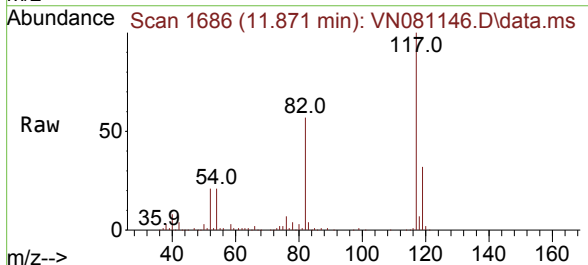
Instrument :  
MSVOA\_N  
ClientSampleId :

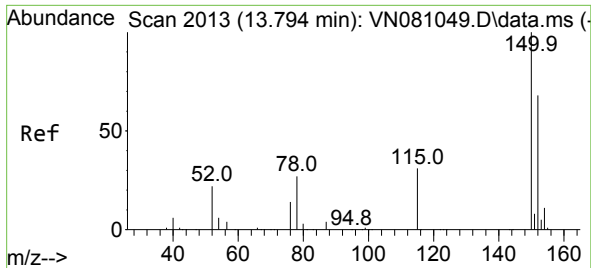
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 201058 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 69.8  | 0.0   | 120.4  |
| 176      | 66.5  | 0.0   | 121.0  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN081146.D  
Acq: 22 Feb 2024 19:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 534759 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 56.5  | 52.7  | 79.1   |
| 119      | 32.1  | 25.3  | 37.9   |

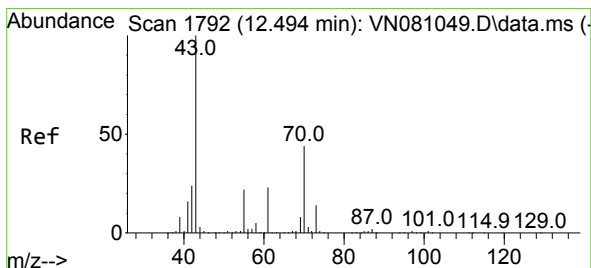
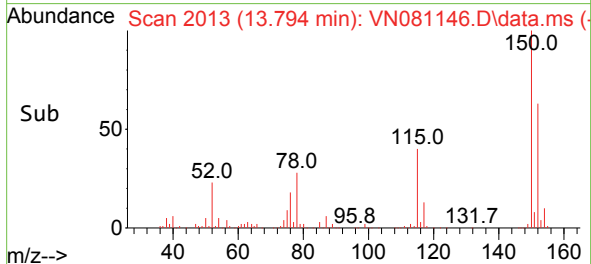
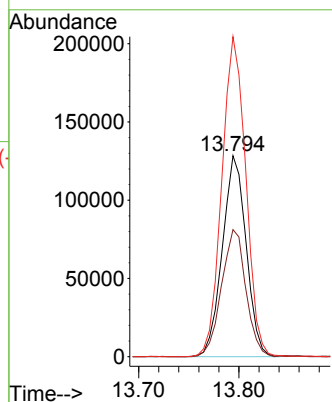
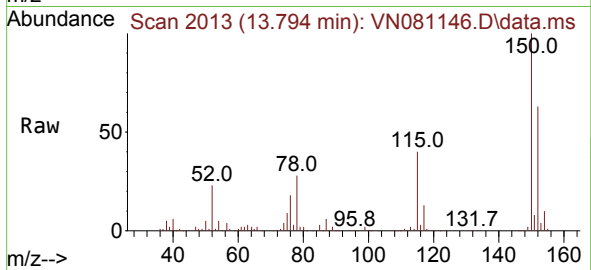




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2013  
 Delta R.T. 0.000 min  
 Lab File: VN081146.D  
 Acq: 22 Feb 2024 19:35

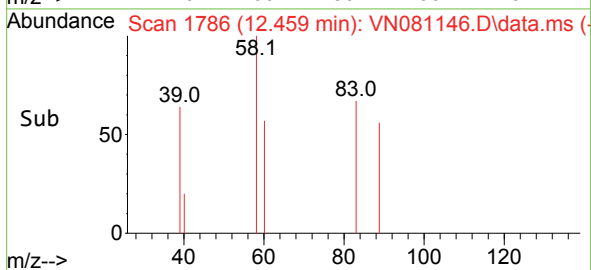
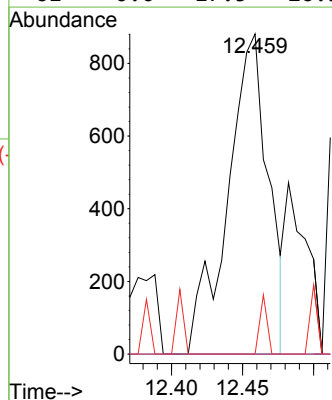
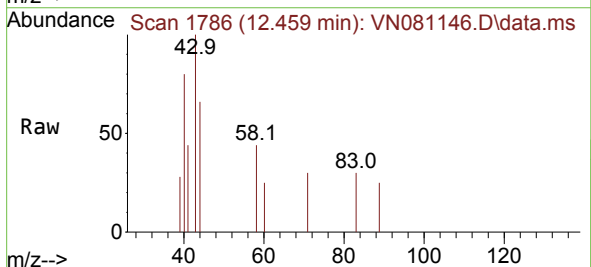
Instrument :  
 MSVOA\_N  
 ClientSampleId :

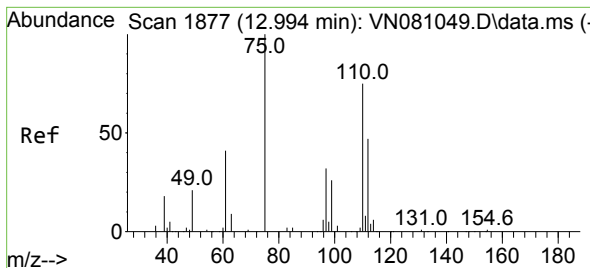
Tgt Ion:152 Resp: 211557  
 Ion Ratio Lower Upper  
 152 100  
 115 64.7 32.3 96.8  
 150 160.3 0.0 339.8



#74  
 N-ethyl acetate  
 Concen: 0.224 ug/l  
 RT: 12.459 min Scan# 1786  
 Delta R.T. -0.035 min  
 Lab File: VN081146.D  
 Acq: 22 Feb 2024 19:35

Tgt Ion: 43 Resp: 1753  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 30.1 45.1#  
 55 3.3 17.0 25.4#  
 61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 22.255 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Instrument :

MSVOA\_N

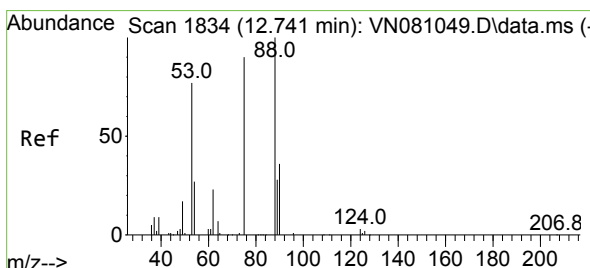
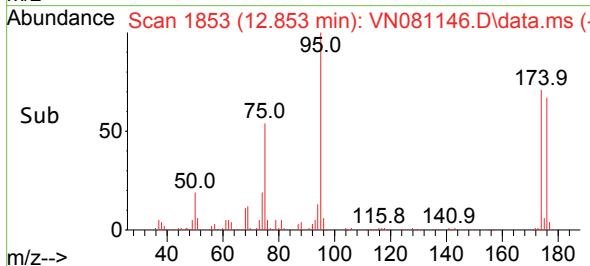
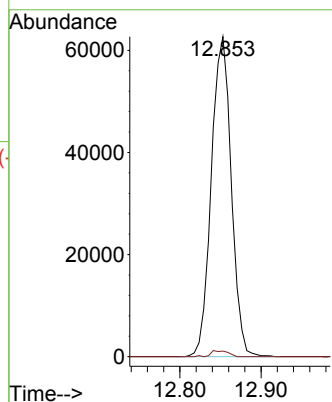
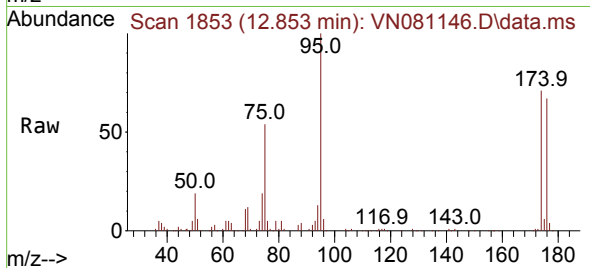
ClientSampleId :

Tgt Ion: 75 Resp: 106973

Ion Ratio Lower Upper

75 100

77 1.6 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.282 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081146.D

Acq: 22 Feb 2024 19:35

Tgt Ion: 75 Resp: 106973

Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#

