

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011224\  
 Data File : VN080704.D  
 Acq On : 12 Jan 2024 20:52  
 Operator : JC\MD  
 Sample : P1111-10  
 Misc : 2.52g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 12 22:20:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 06:34:36 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.218  | 168  | 157232   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 347436   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 346990   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 146366   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.577  | 65    | 111118   | 40.243   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 80.480%  |
| 35) Dibromofluoromethane    | 8.159  | 113   | 91500    | 46.351   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 92.700%  |
| 50) Toluene-d8              | 10.565 | 98    | 373255   | 49.588   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 99.180%  |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 155542   | 53.886   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 107.780% |

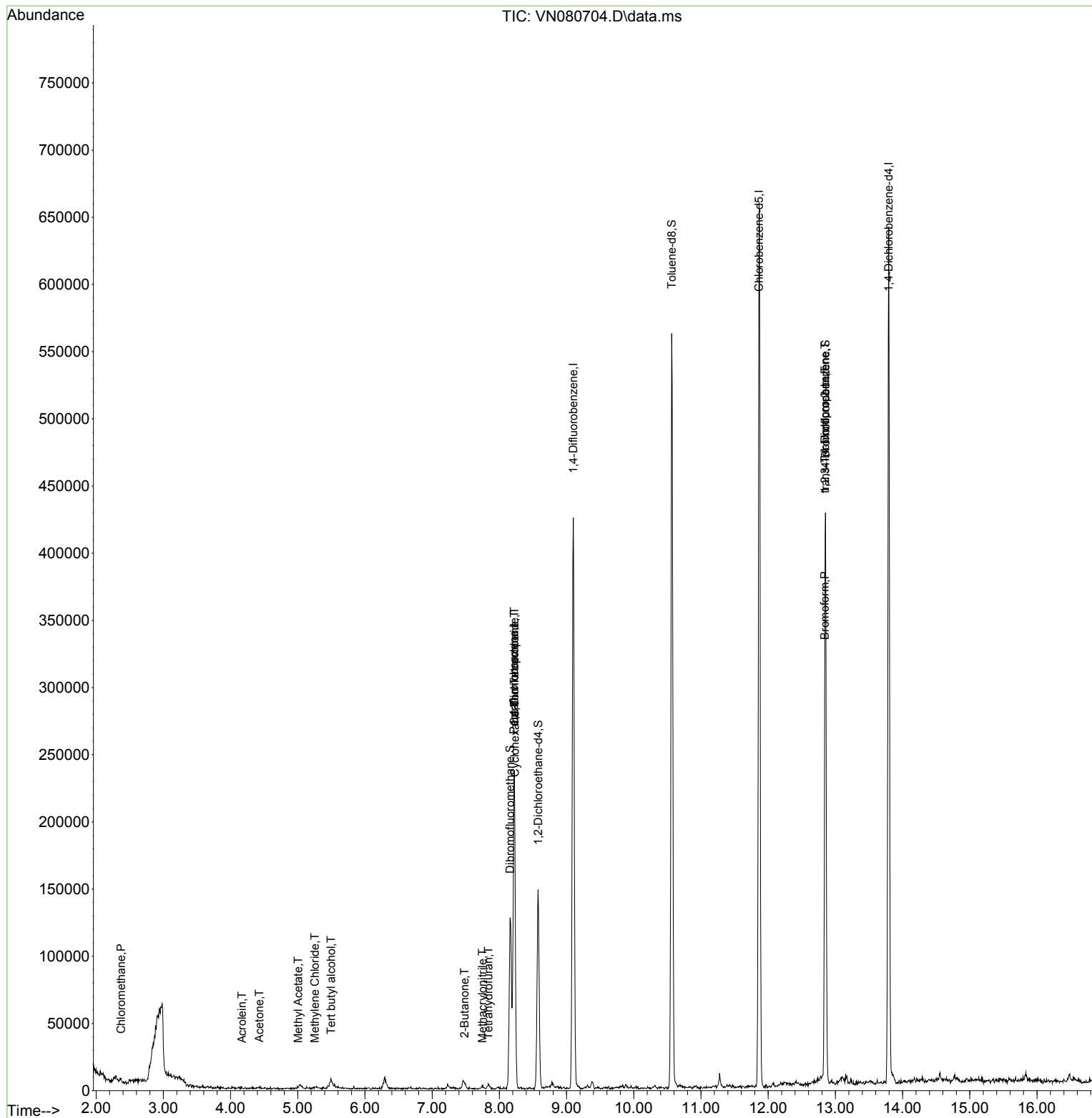
|                               |        |     |        |           |      |      |
|-------------------------------|--------|-----|--------|-----------|------|------|
| Target Compounds              |        |     | Qvalue |           |      |      |
| 3) Chloromethane              | 2.371  | 50  | 3291   | 0.494     | ug/l | 95   |
| 6) Chloroethane               | 3.118  | 64  | 54     | Below Cal | #    | 43   |
| 11) Tert butyl alcohol        | 5.494  | 59  | 2992   | 6.407     | ug/l | # 72 |
| 13) Acrolein                  | 4.171  | 56  | 161    | 0.413     | ug/l | # 1  |
| 16) Acetone                   | 4.430  | 43  | 246    | 0.271     | ug/l | # 40 |
| 18) Methyl Acetate            | 5.006  | 43  | 1302   | 0.482     | ug/l | # 61 |
| 20) Methylene Chloride        | 5.253  | 84  | 842    | 0.318     | ug/l | # 35 |
| 25) 2-Butanone                | 7.483  | 43  | 2215   | 1.352     | ug/l | # 37 |
| 29) Tetrahydrofuran           | 7.835  | 42  | 481    | 0.436     | ug/l | # 29 |
| 31) Cyclohexane               | 8.230  | 56  | 5391   | 1.264     | ug/l | # 28 |
| 36) 1,1-Dichloropropene       | 8.224  | 75  | 16954  | 4.193     | ug/l | # 47 |
| 38) Carbon Tetrachloride      | 8.224  | 117 | 17866  | 4.921     | ug/l | # 16 |
| 41) Methacrylonitrile         | 7.747  | 41  | 1367   | 0.601     | ug/l | # 28 |
| 71) Bromoform                 | 12.841 | 173 | 535    | 0.289     | ug/l | # 1  |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 85255  | 18.890    | ug/l | # 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 85255  | 44.531    | ug/l | # 15 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75  | 61     | Below Cal | #    | 4    |

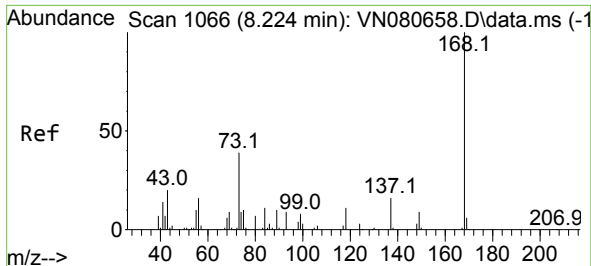
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011224\  
Data File : VN080704.D  
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Operator : JC\MD  
Sample : P1111-10  
Misc : 2.52g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jan 12 22:20:36 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 06:34:36 2024  
Response via : Initial Calibration

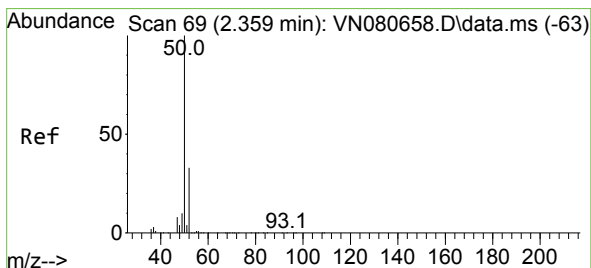
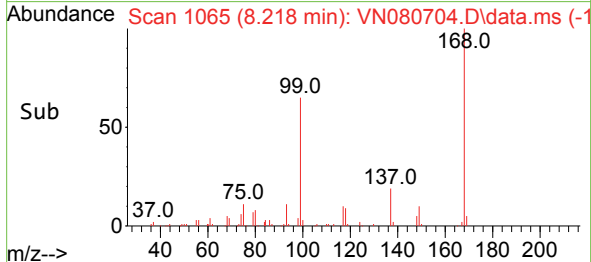
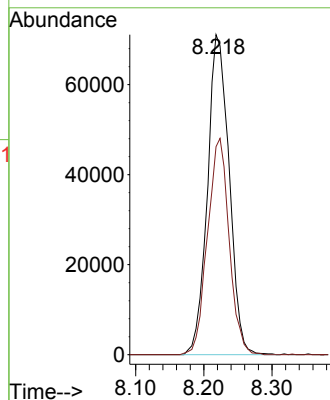
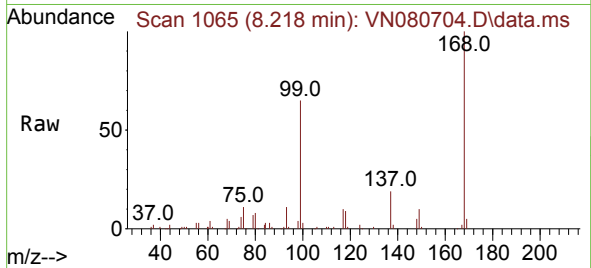




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

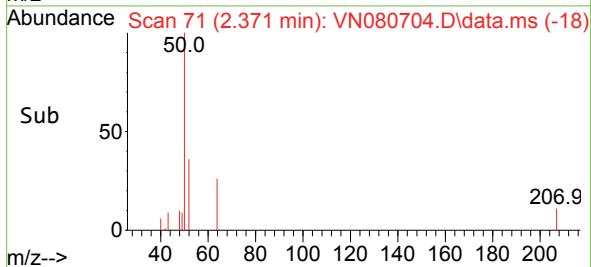
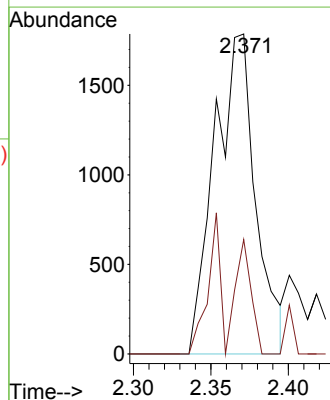
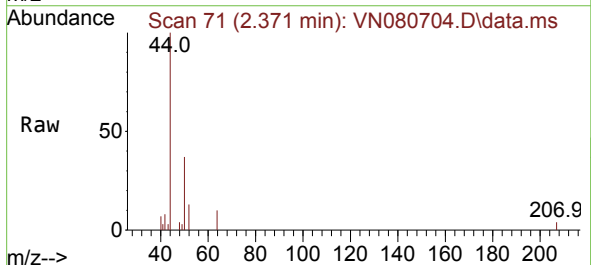
Instrument :  
MSVOA\_N  
ClientSampleId :

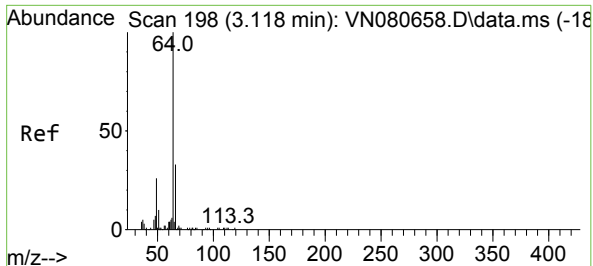
Tgt Ion:168 Resp: 157232  
Ion Ratio Lower Upper  
168 100  
99 65.0 53.0 79.6



#3  
Chloromethane  
Concen: 0.494 ug/l  
RT: 2.371 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Tgt Ion: 50 Resp: 3291  
Ion Ratio Lower Upper  
50 100  
52 35.8 26.5 39.7

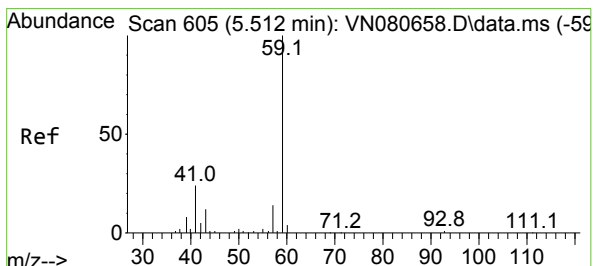
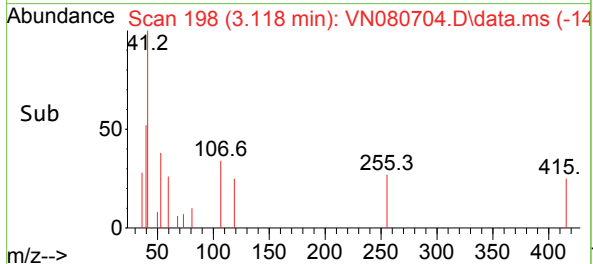
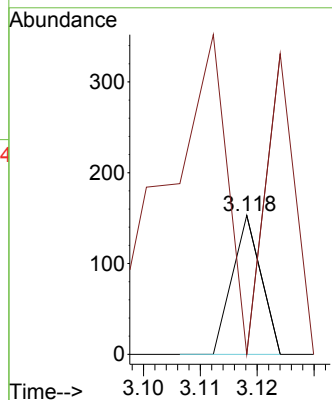
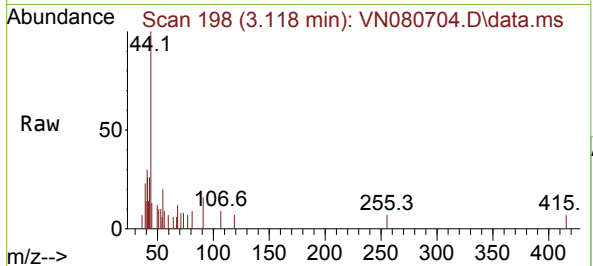




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.118 min Scan# 19  
Delta R.T. 0.000 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

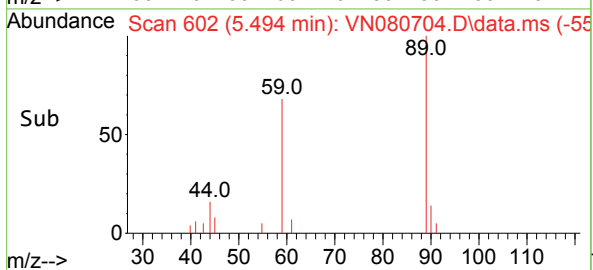
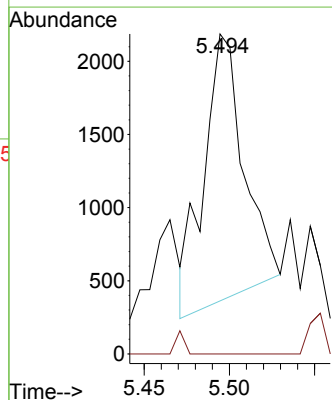
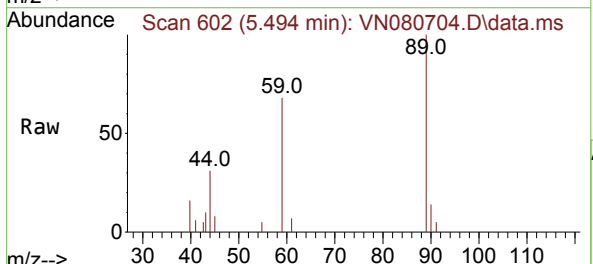
Instrument :  
MSVOA\_N  
ClientSampleId :

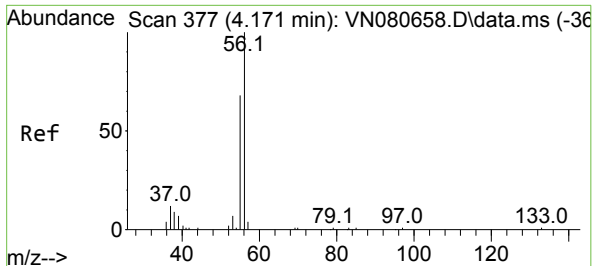
Tgt Ion: 64 Resp: 54  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



#11  
Tert butyl alcohol  
Concen: 6.407 ug/l  
RT: 5.494 min Scan# 602  
Delta R.T. -0.018 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Tgt Ion: 59 Resp: 2992  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

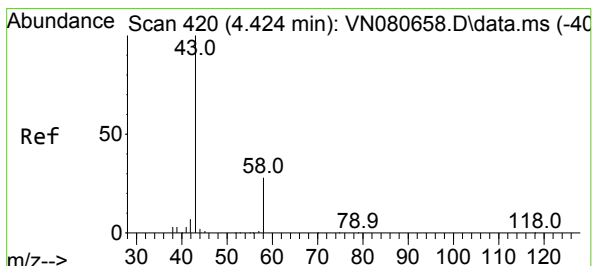
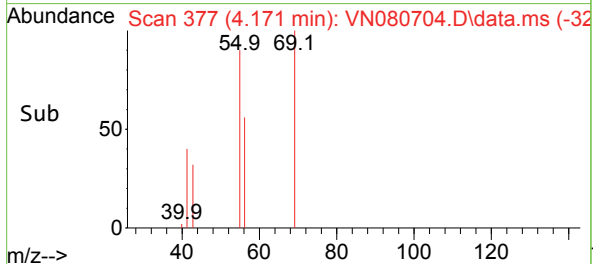
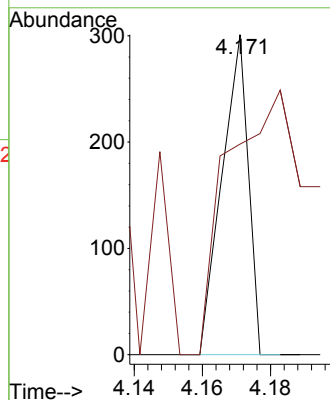
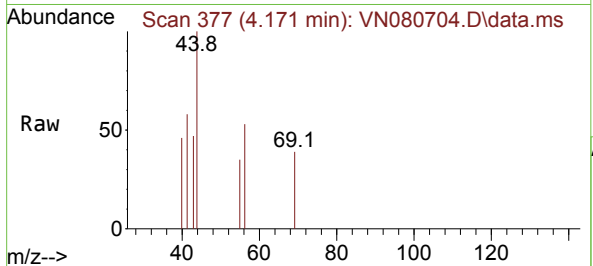




#13  
Acrolein  
Concen: 0.413 ug/l  
RT: 4.171 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

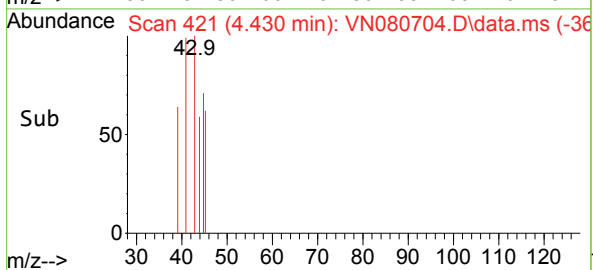
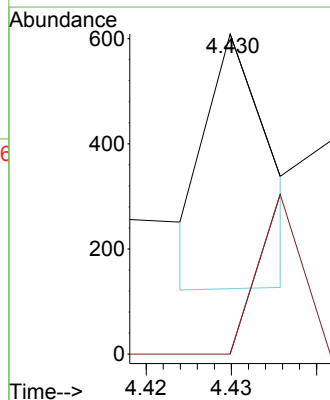
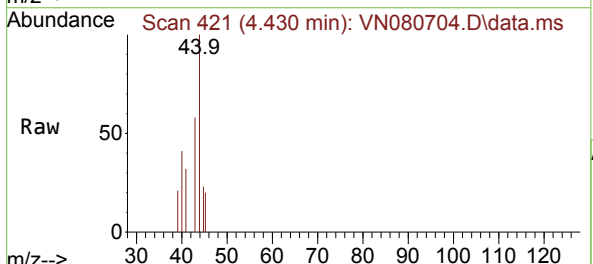
Instrument :  
MSVOA\_N  
ClientSampleId :

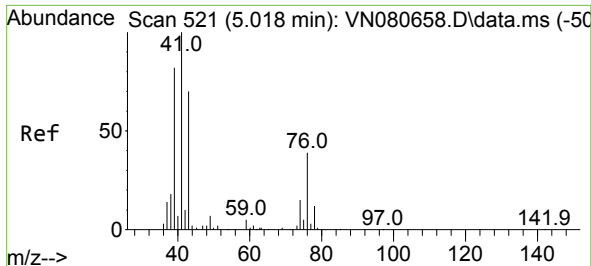
Tgt Ion: 56 Resp: 161  
Ion Ratio Lower Upper  
56 100  
55 254.0 54.5 81.7#



#16  
Acetone  
Concen: 0.271 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Tgt Ion: 43 Resp: 246  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#

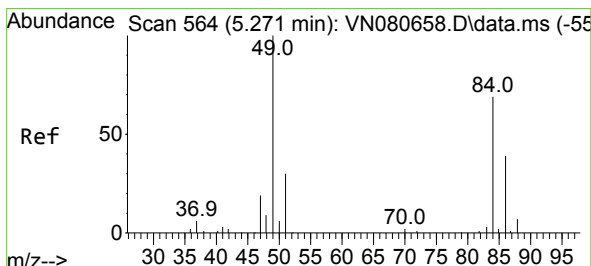
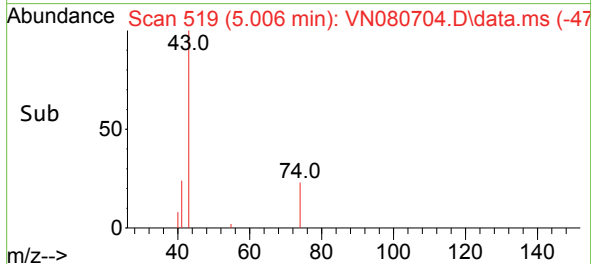
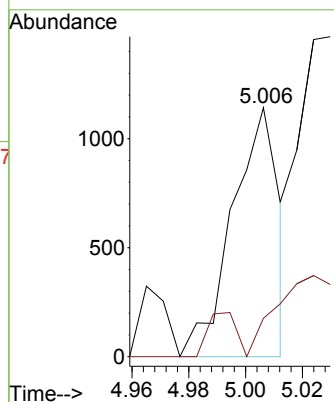
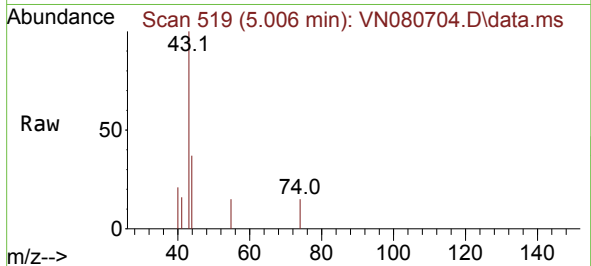




#18  
Methyl Acetate  
Concen: 0.482 ug/l  
RT: 5.006 min Scan# 519  
Delta R.T. -0.012 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

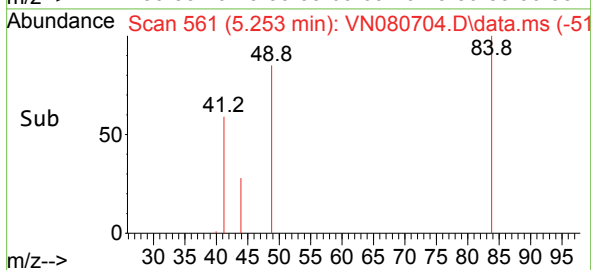
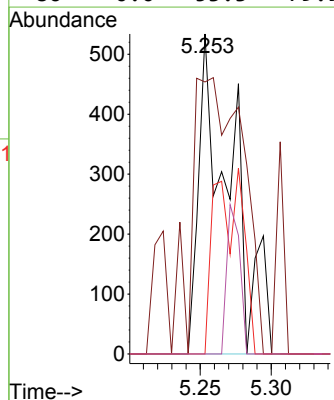
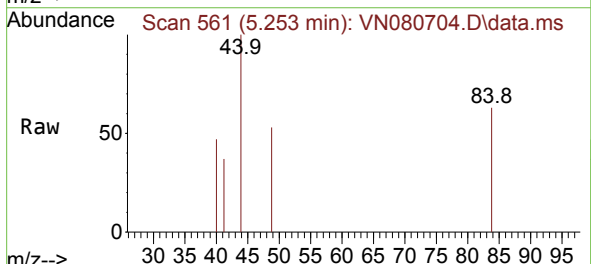
Instrument :  
MSVOA\_N  
ClientSampleId :

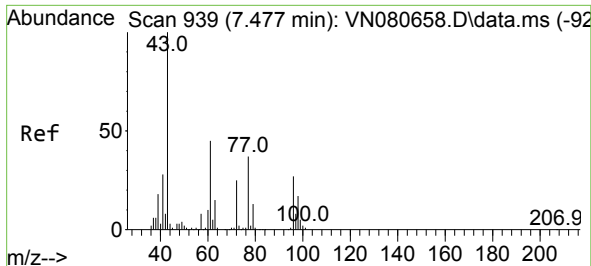
Tgt Ion: 43 Resp: 1302  
Ion Ratio Lower Upper  
43 100  
74 10.8 26.2 39.4#



#20  
Methylene Chloride  
Concen: 0.318 ug/l  
RT: 5.253 min Scan# 561  
Delta R.T. -0.018 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

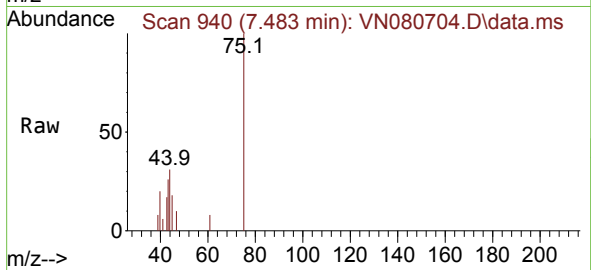
Tgt Ion: 84 Resp: 842  
Ion Ratio Lower Upper  
84 100  
49 43.8 79.7 119.5#  
51 0.0 25.2 37.8#  
86 0.0 53.3 79.9#



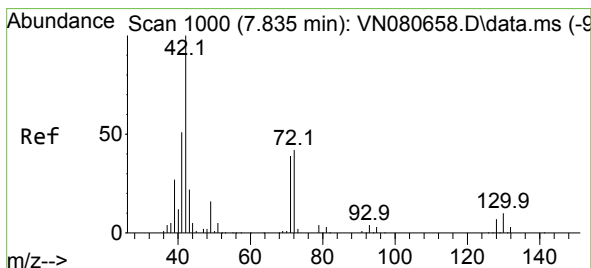
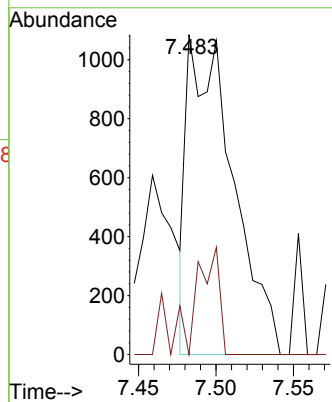
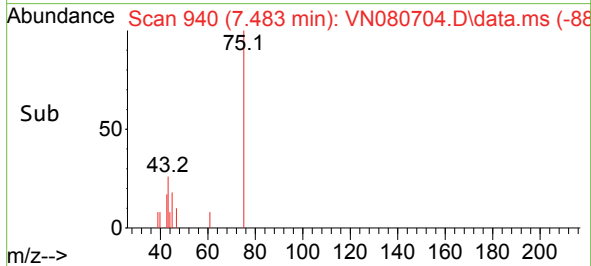


#25  
2-Butanone  
Concen: 1.352 ug/l  
RT: 7.483 min Scan# 94  
Delta R.T. 0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

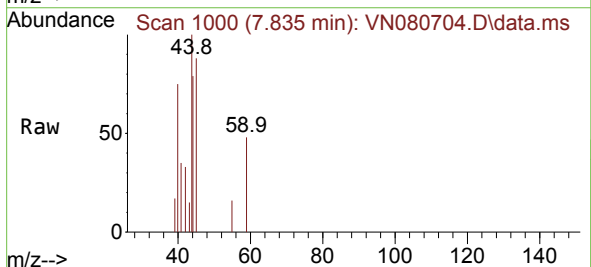
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MSVOA\_N  
ClientSampleId :



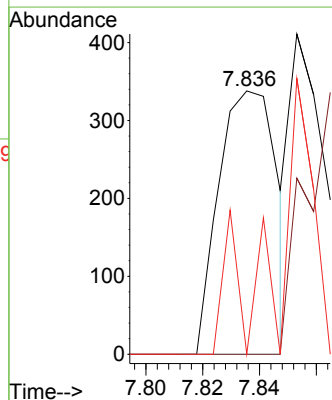
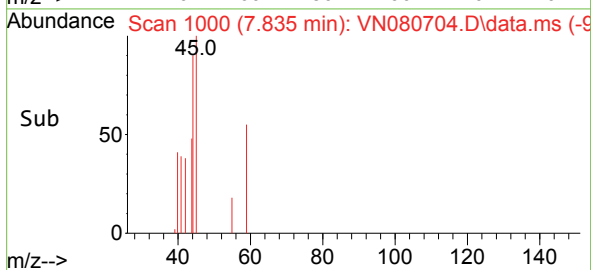
Tgt Ion: 43 Resp: 2215  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#

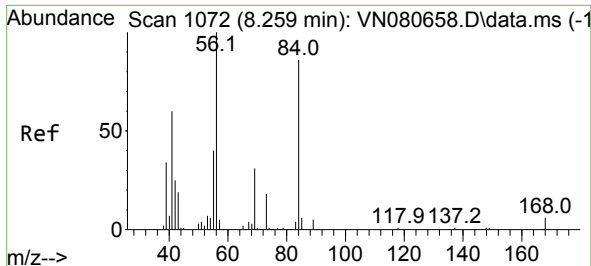


#29  
Tetrahydrofuran  
Concen: 0.436 ug/l  
RT: 7.835 min Scan# 1000  
Delta R.T. 0.000 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52



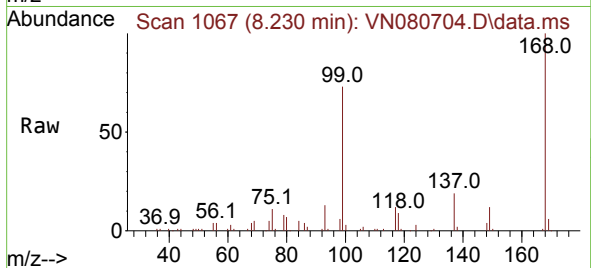
Tgt Ion: 42 Resp: 481  
Ion Ratio Lower Upper  
42 100  
72 0.0 49.8 74.6#  
71 13.5 47.4 71.2#



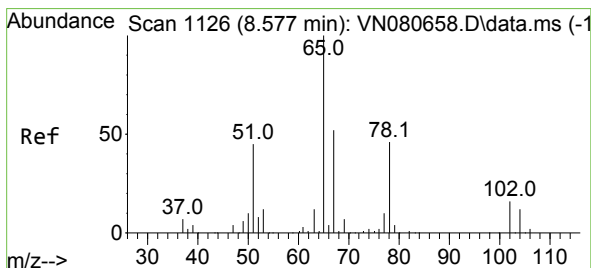
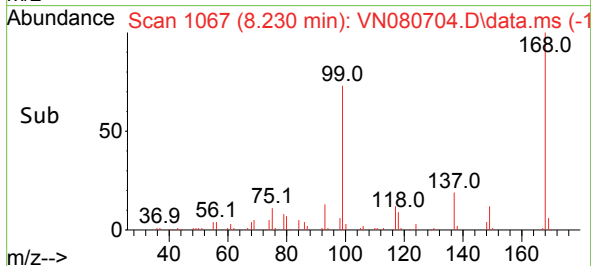
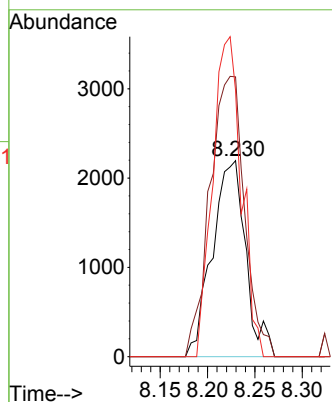


#31  
Cyclohexane  
Concen: 1.264 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Instrument :  
MSVOA\_N  
ClientSampleId :

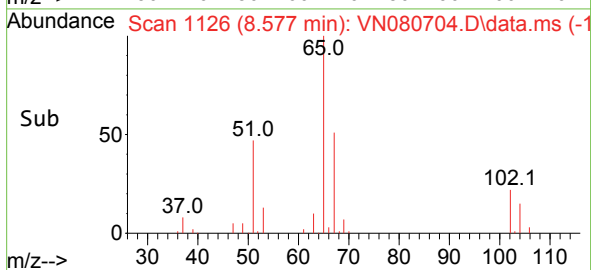
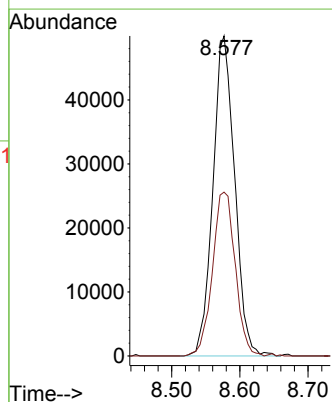
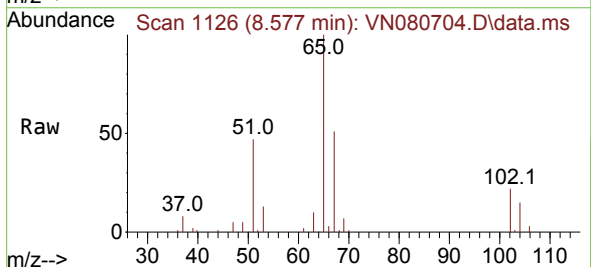


Tgt Ion: 56 Resp: 5391  
Ion Ratio Lower Upper  
56 100  
69 142.8 26.8 40.2#  
84 135.8 81.8 122.6#

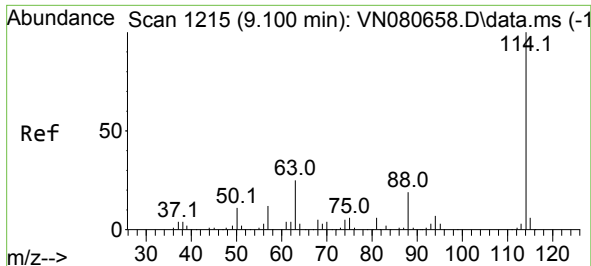


#33  
1,2-Dichloroethane-d4  
Concen: 40.243 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Tgt Ion: 65 Resp: 111118  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 106.6



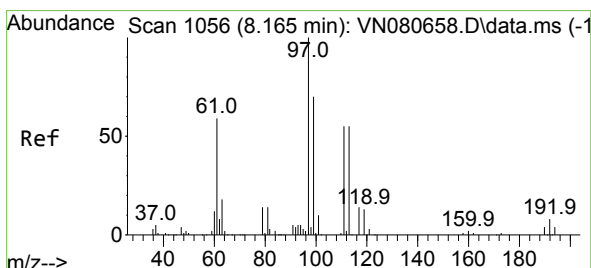
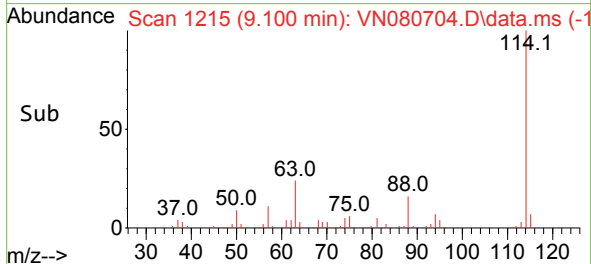
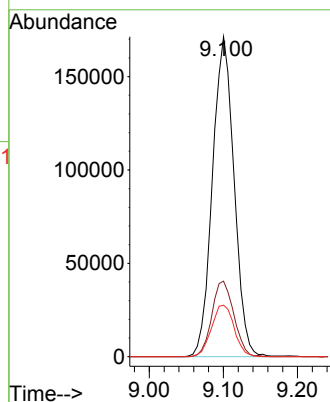
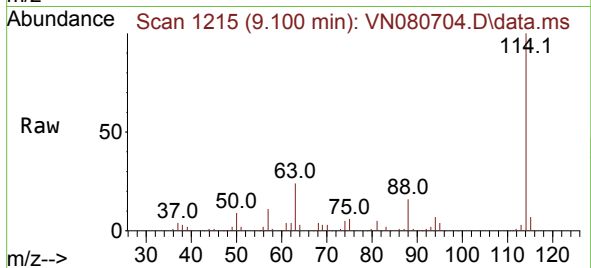




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

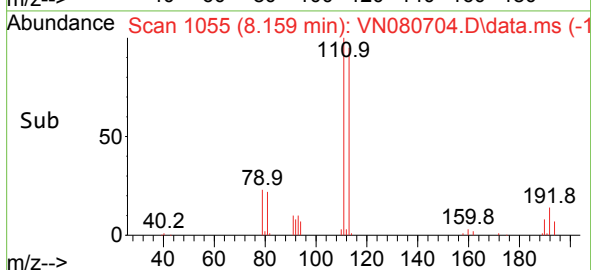
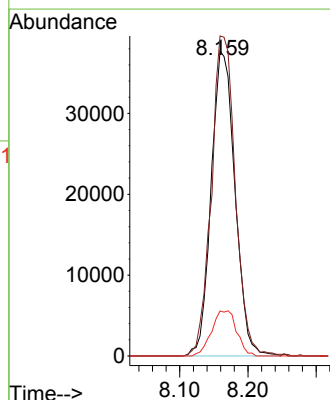
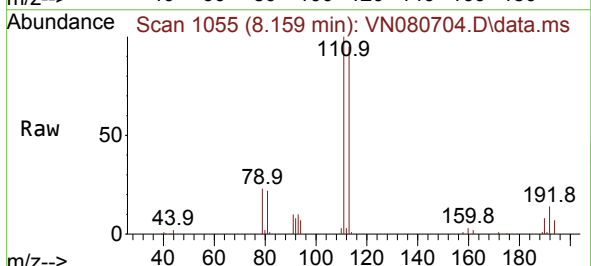
Instrument :  
MSVOA\_N  
ClientSampleId :

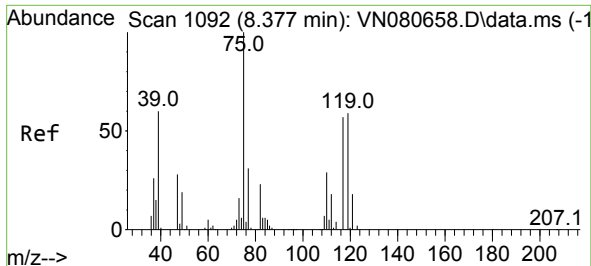
Tgt Ion:114 Resp: 347436  
Ion Ratio Lower Upper  
114 100  
63 23.6 0.0 36.4  
88 16.1 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 46.351 ug/l  
RT: 8.159 min Scan# 1055  
Delta R.T. -0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

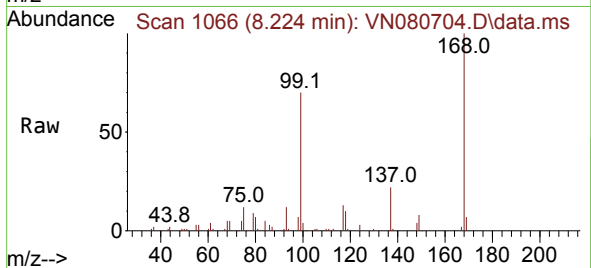
Tgt Ion:113 Resp: 91500  
Ion Ratio Lower Upper  
113 100  
111 106.0 82.6 123.8  
192 15.6 12.7 19.1



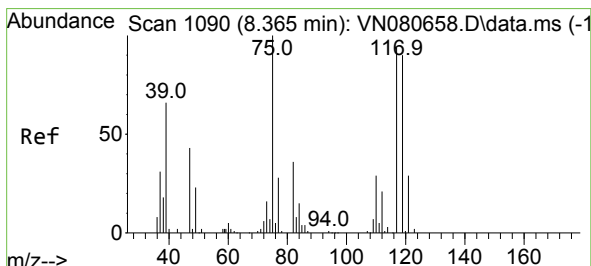
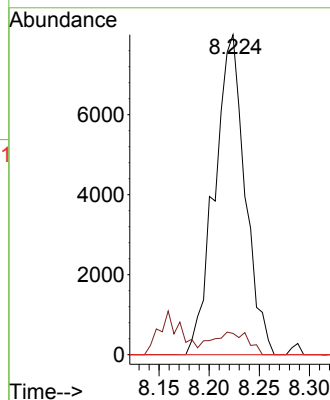
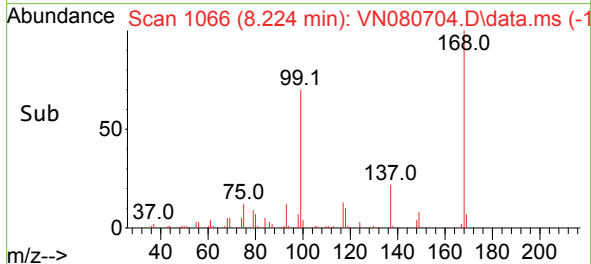


#36  
1,1-Dichloropropene  
Concen: 4.193 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.153 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Instrument :  
MSVOA\_N  
ClientSampleId :

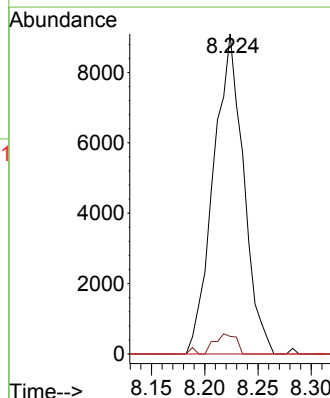
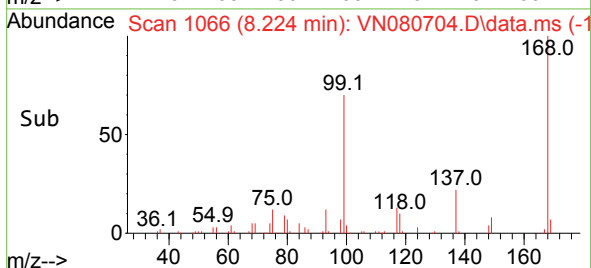
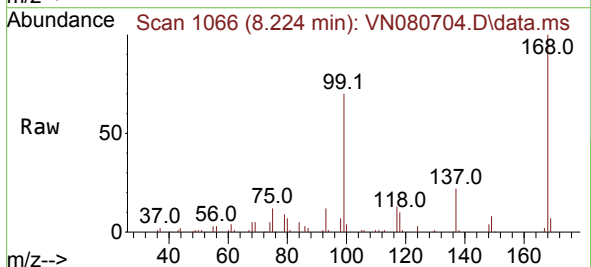


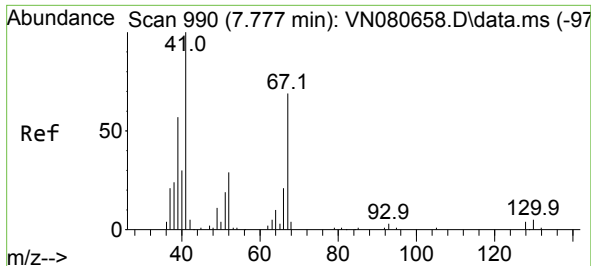
Tgt Ion: 75 Resp: 16954  
Ion Ratio Lower Upper  
75 100  
110 8.5 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 4.921 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.141 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

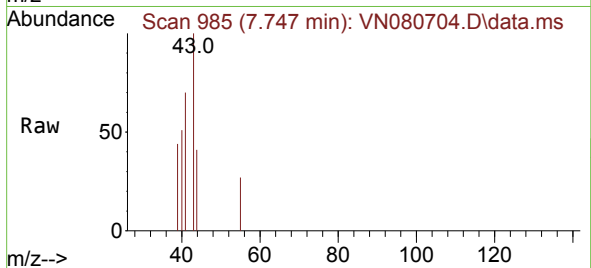
Tgt Ion: 117 Resp: 17866  
Ion Ratio Lower Upper  
117 100  
119 5.5 77.3 115.9#  
121 0.0 23.3 34.9#



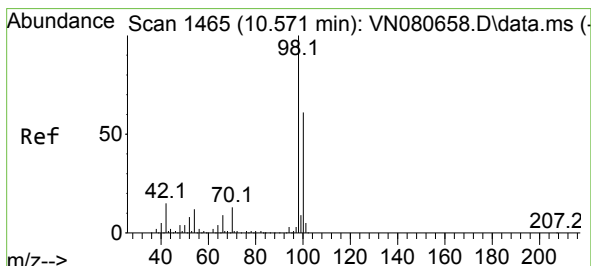
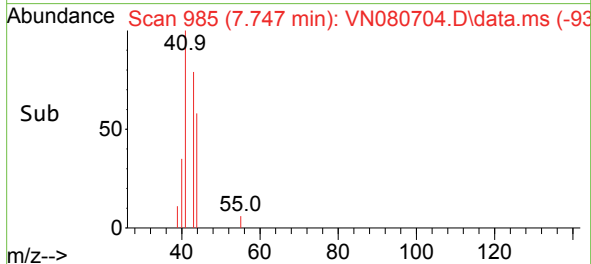
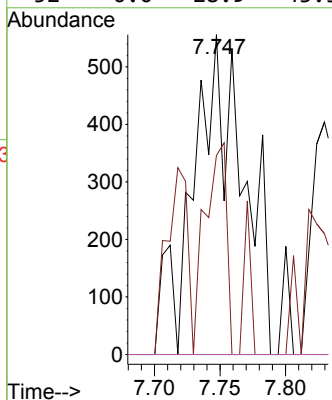


#41  
Methacrylonitrile  
Concen: 0.601 ug/l  
RT: 7.747 min Scan# 91  
Delta R.T. -0.029 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Instrument :  
MSVOA\_N  
ClientSampleId :

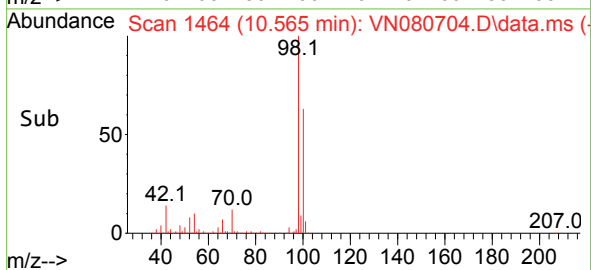
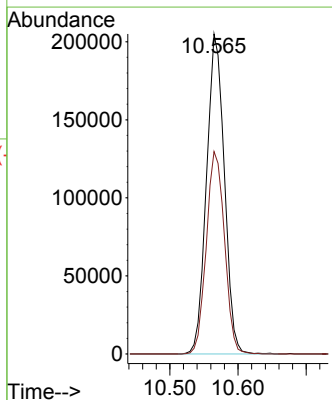
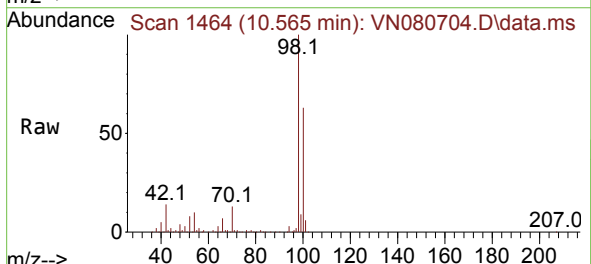


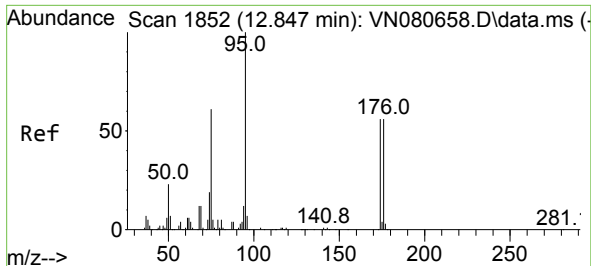
|             |                 |
|-------------|-----------------|
| Tgt Ion: 41 | Resp: 1367      |
| Ion Ratio   | Lower Upper     |
| 41          | 100             |
| 39          | 31.1 42.6 64.0# |
| 67          | 0.0 77.5 116.3# |
| 52          | 0.0 28.9 43.3#  |



#50  
Toluene-d8  
Concen: 49.588 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 373255   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 64.4 52.0 78.0 |

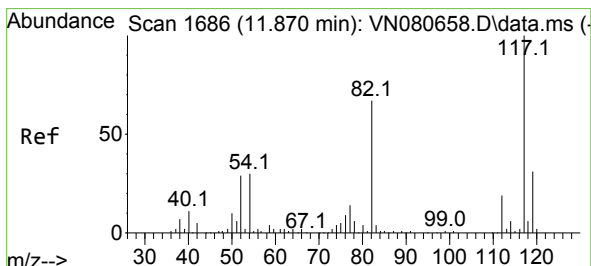
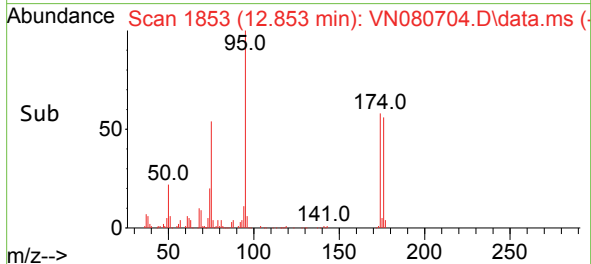
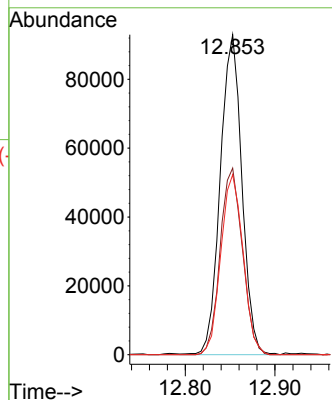
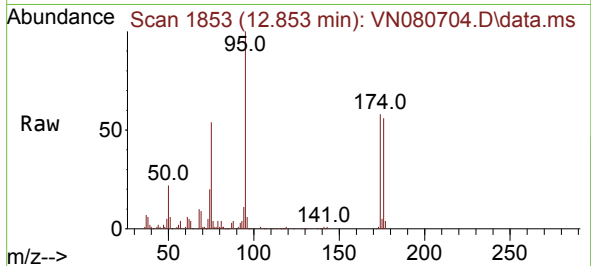




#62  
4-Bromofluorobenzene  
Concen: 53.886 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

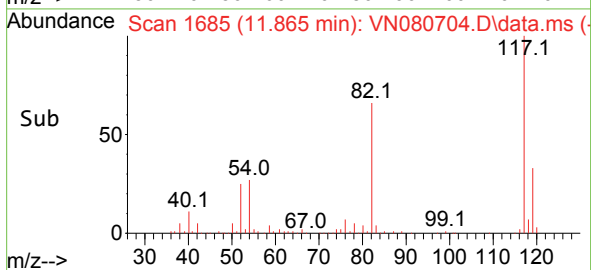
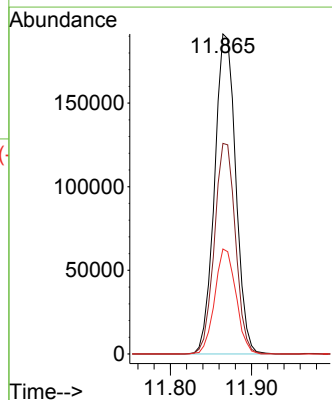
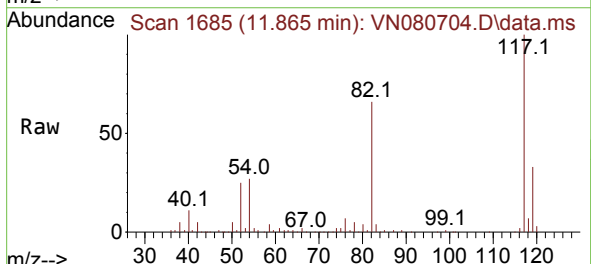
Instrument :  
MSVOA\_N  
ClientSampleId :

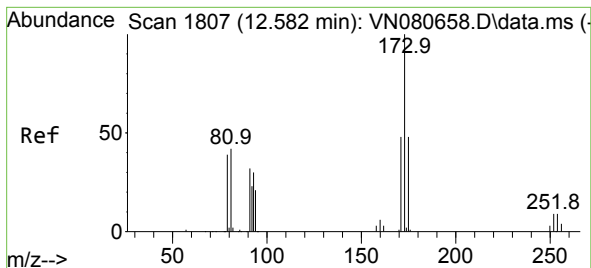
Tgt Ion: 95 Resp: 155542  
Ion Ratio Lower Upper  
95 100  
174 60.0 0.0 143.8  
176 57.8 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.006 min  
Lab File: VN080704.D  
Acq: 12 Jan 2024 20:52

Tgt Ion: 117 Resp: 346990  
Ion Ratio Lower Upper  
117 100  
82 65.8 44.0 66.0  
119 32.8 25.6 38.4





#71

Bromoform

Concen: 0.289 ug/l

RT: 12.841 min Scan# 1807

Delta R.T. 0.259 min

Lab File: VN080704.D

Acq: 12 Jan 2024 20:52

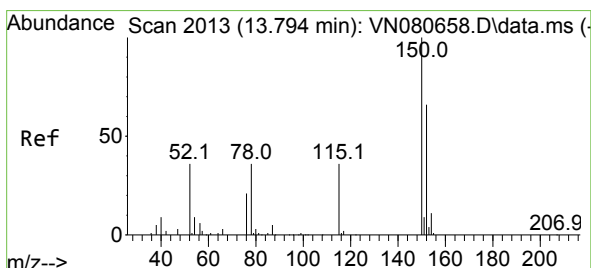
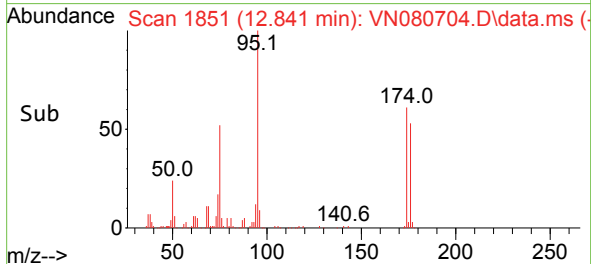
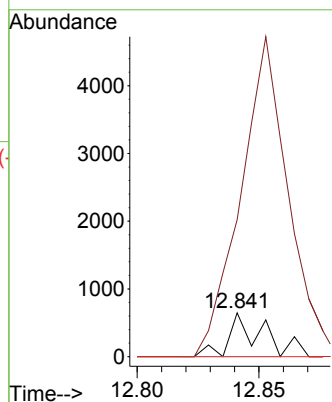
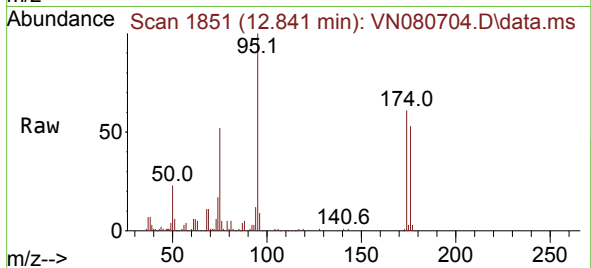
Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion:173 Resp: 535

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 992.3 | 24.3  | 73.0# |
| 254 | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

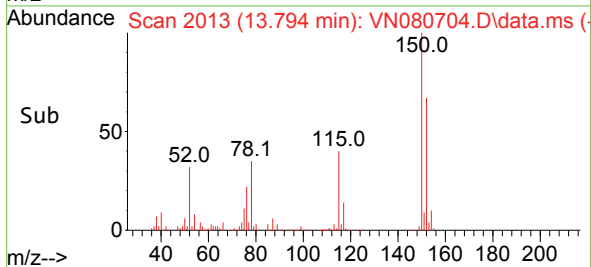
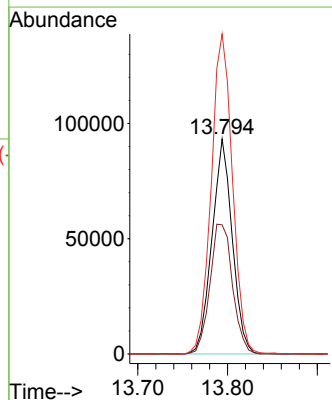
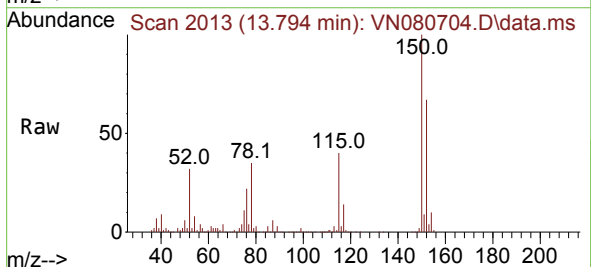
Delta R.T. 0.000 min

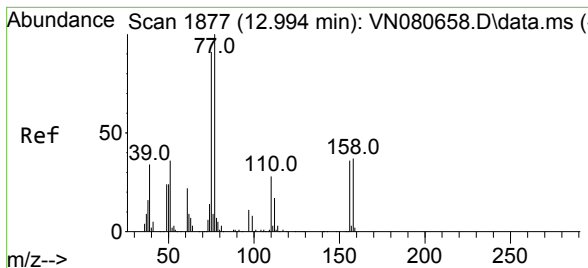
Lab File: VN080704.D

Acq: 12 Jan 2024 20:52

Tgt Ion:152 Resp: 146366

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 67.0  | 32.3  | 96.8  |
| 150 | 155.9 | 0.0   | 355.8 |





#76

1,2,3-Trichloropropane

Concen: 18.890 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080704.D

Acq: 12 Jan 2024 20:52

Instrument :

MSVOA\_N

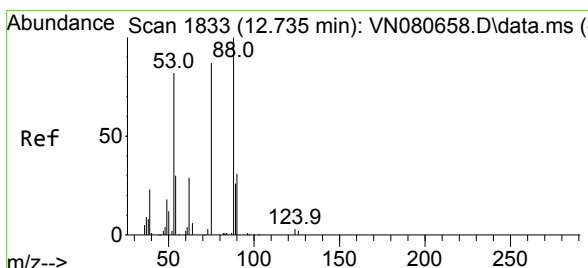
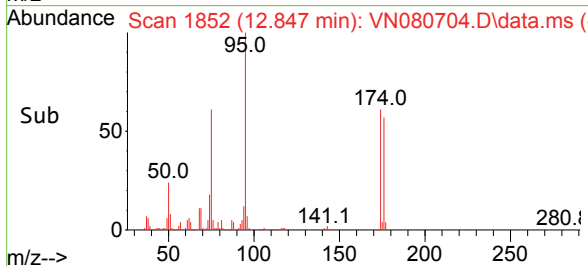
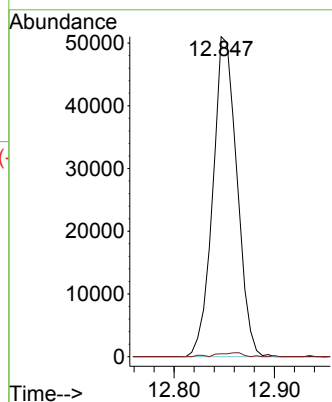
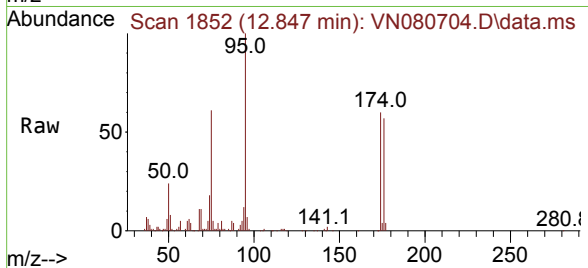
ClientSampleId :

Tgt Ion: 75 Resp: 85255

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 44.531 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN080704.D

Acq: 12 Jan 2024 20:52

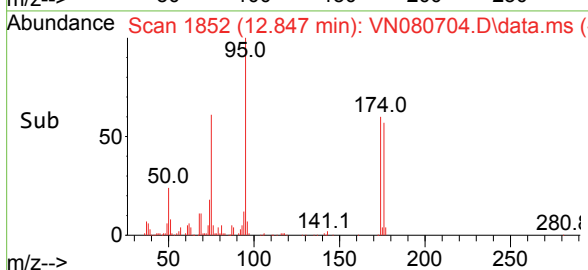
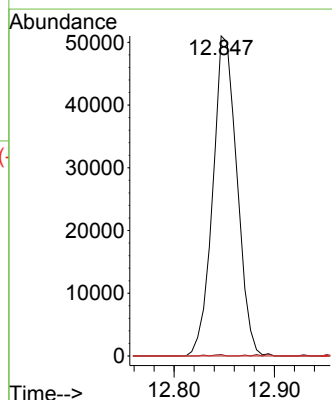
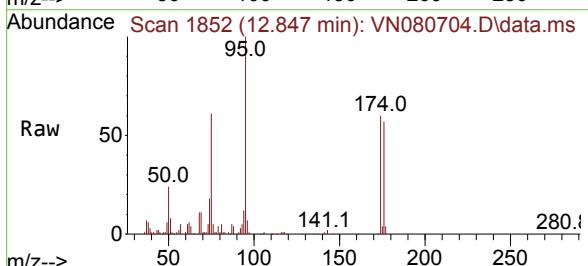
Tgt Ion: 75 Resp: 85255

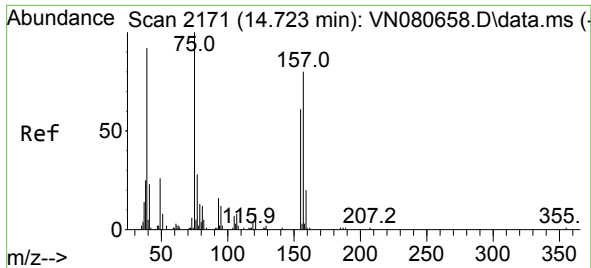
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

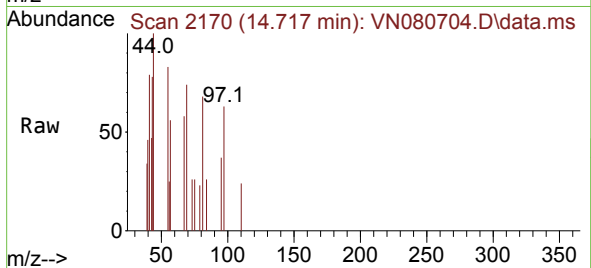
89 0.0 38.8 58.2#





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: Below Cal  
 RT: 14.717 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VN080704.D  
 Acq: 12 Jan 2024 20:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 61  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 39.1 117.2#  
 157 0.0 50.3 150.9#

