

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022624\  
 Data File : VN081189.D  
 Acq On : 26 Feb 2024 12:52  
 Operator : JC\MD  
 Sample : P1533-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW8-MW01S-20240217

Quant Time: Feb 27 00:06:13 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

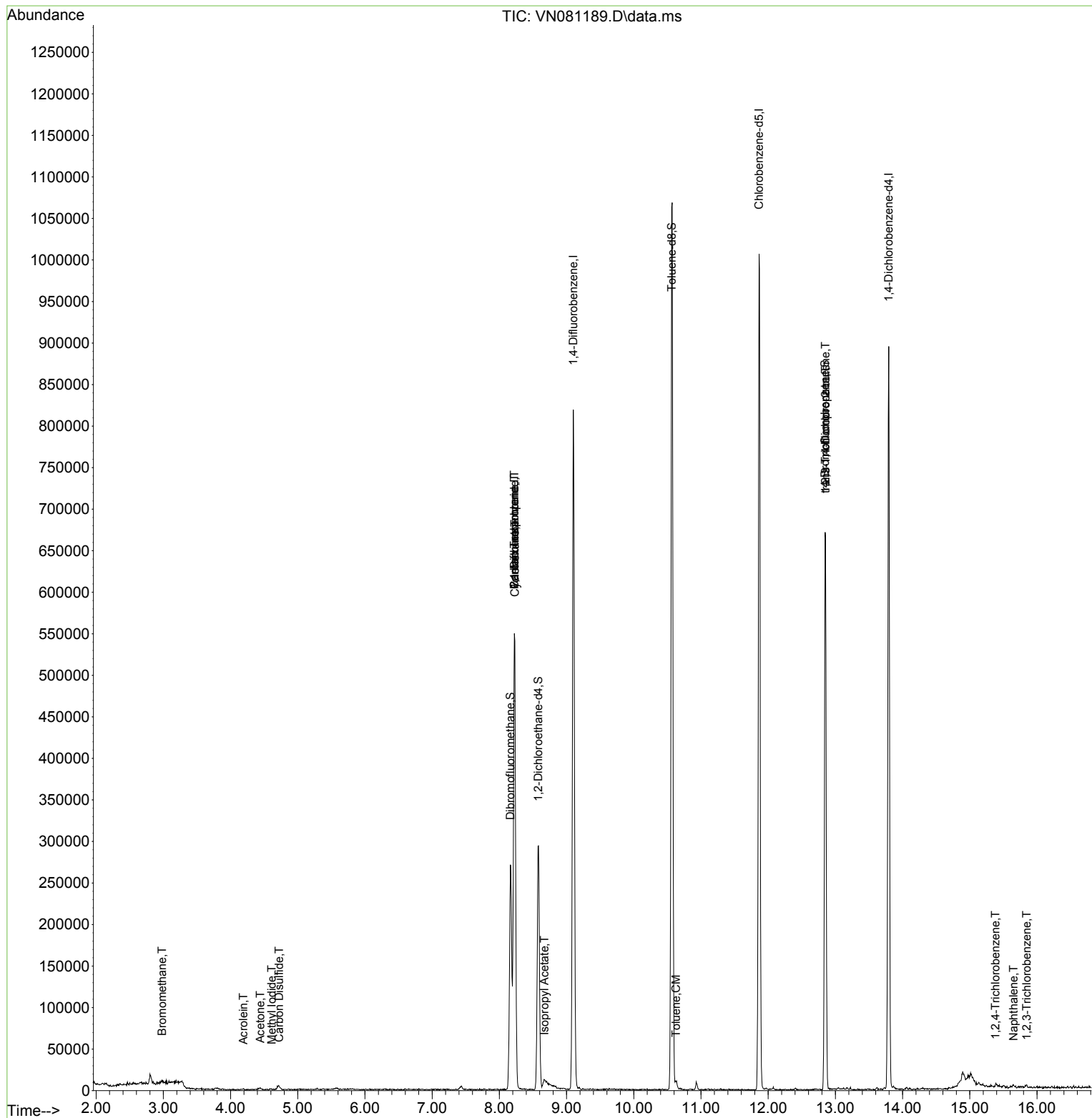
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 383336   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 701395   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 592158   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 227321   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 240168   | 51.115    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 102.220% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 193736   | 48.847    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 97.700%  |          |
| 50) Toluene-d8                | 10.565 | 98    | 751594   | 53.355    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 106.700% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 236610   | 44.701    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 89.400%  |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.359  | 50    | 1372     | Below Cal | #          | 43       |
| 5) Bromomethane               | 2.983  | 94    | 1879     | 0.480     | ug/l #     | 69       |
| 6) Chloroethane               | 3.042  | 64    | 75       | Below Cal | #          | 42       |
| 10) Methyl Iodide             | 4.612  | 142   | 1347     | 0.269     | ug/l #     | 75       |
| 13) Acrolein                  | 4.189  | 56    | 839      | 1.812     | ug/l #     | 34       |
| 16) Acetone                   | 4.442  | 43    | 3607     | 1.951     | ug/l #     | 33       |
| 17) Carbon Disulfide          | 4.724  | 76    | 3254     | 0.269     | ug/l #     | 78       |
| 20) Methylene Chloride        | 5.289  | 84    | 326      | Below Cal | #          | 28       |
| 31) Cyclohexane               | 8.230  | 56    | 10154    | 1.252     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 34426    | 5.066     | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 42758    | 6.220     | ug/l #     | 21       |
| 43) Isopropyl Acetate         | 8.671  | 43    | 7923     | 0.739     | ug/l #     | 57       |
| 49) 1,4-Dioxane               | 9.706  | 88    | 646      | Below Cal | #          | 25       |
| 52) Toluene                   | 10.629 | 92    | 4343     | 0.349     | ug/l       | 86       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 129158   | 25.007    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 129158   | 64.366    | ug/l #     | 14       |
| 93) 1,2,4-Trichlorobenzene    | 15.382 | 180   | 1123     | 0.249     | ug/l       | 96       |
| 95) Naphthalene               | 15.653 | 128   | 3673     | 0.222     | ug/l #     | 76       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180   | 1391     | 0.311     | ug/l #     | 19       |

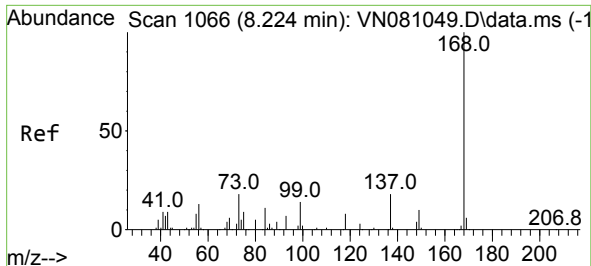
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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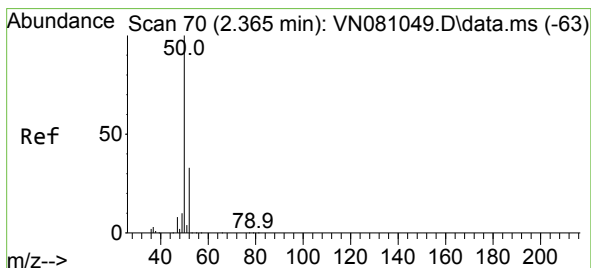
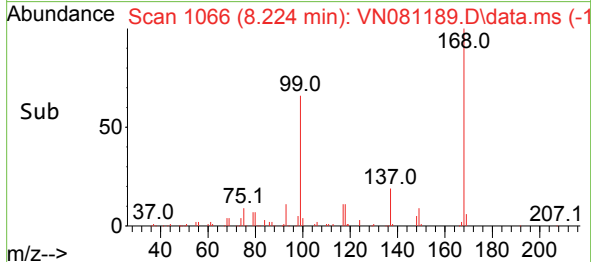
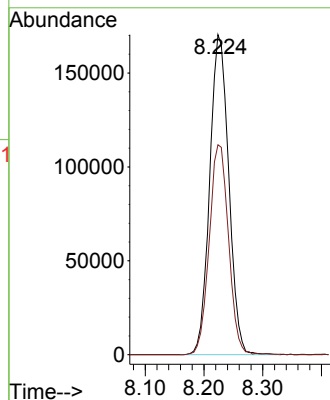
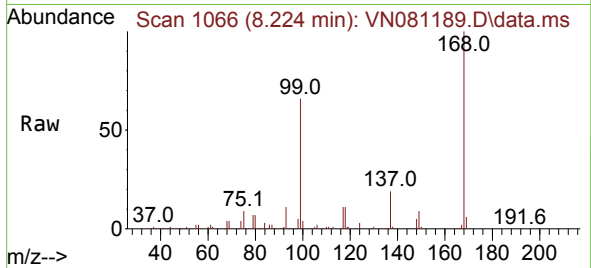




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

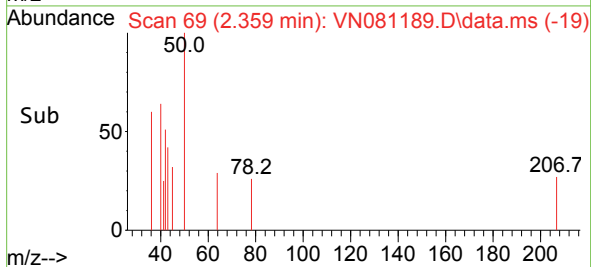
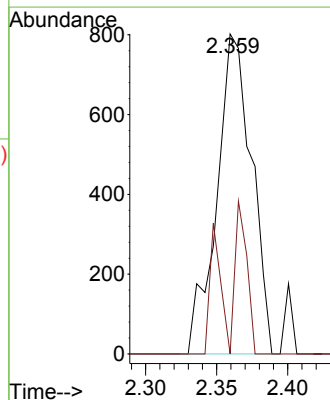
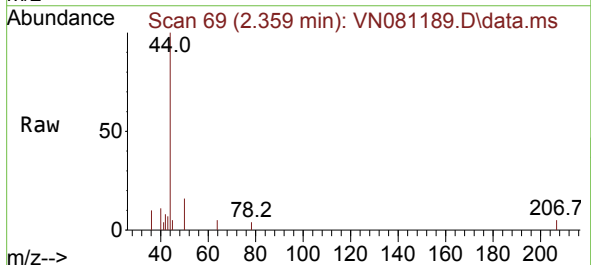
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW8-MW01S-20240217

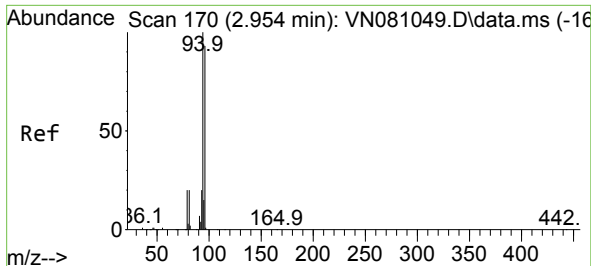
Tgt Ion:168 Resp: 383336  
Ion Ratio Lower Upper  
168 100  
99 65.6 59.9 89.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. -0.006 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

Tgt Ion: 50 Resp: 1372  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.0 37.4#

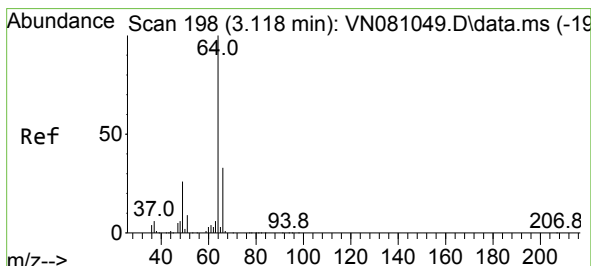
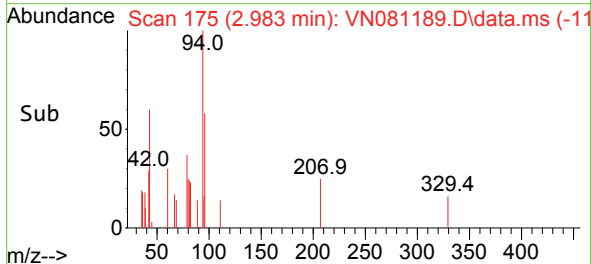
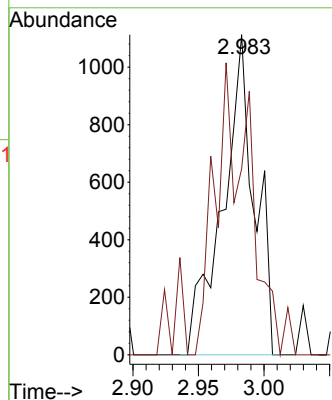
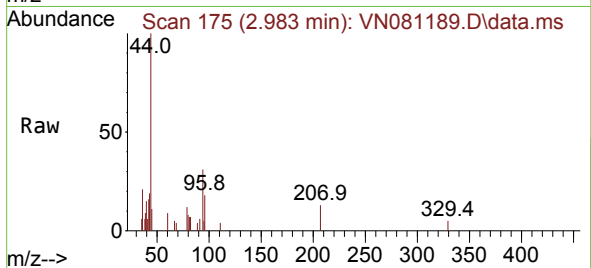




#5  
Bromomethane  
Concen: 0.480 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

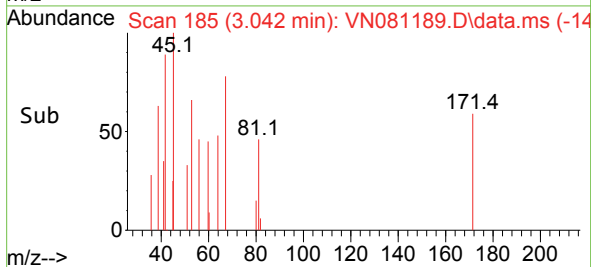
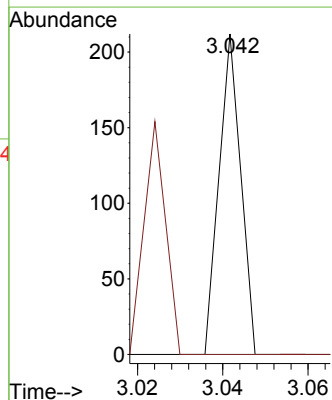
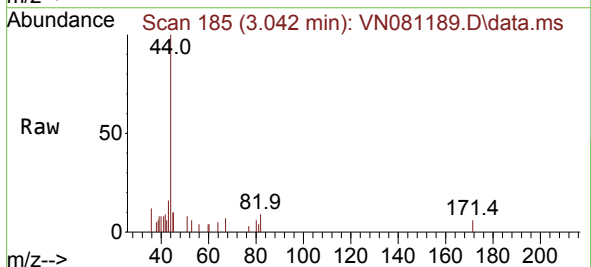
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW8-MW01S-20240217

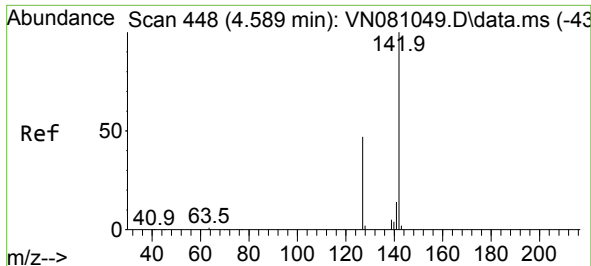
Tgt Ion: 94 Resp: 1879  
Ion Ratio Lower Upper  
94 100  
96 58.1 69.2 103.8#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.042 min Scan# 185  
Delta R.T. -0.076 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

Tgt Ion: 64 Resp: 75  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.4 39.6#

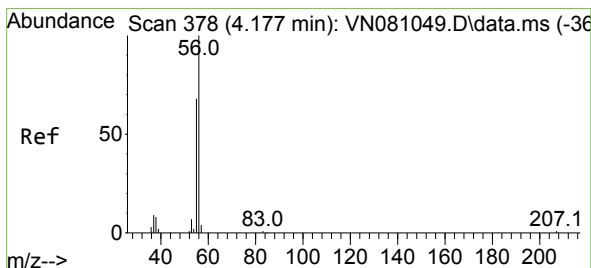
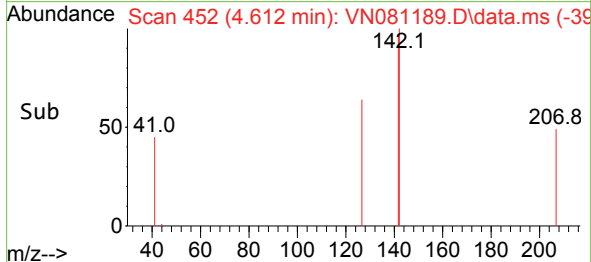
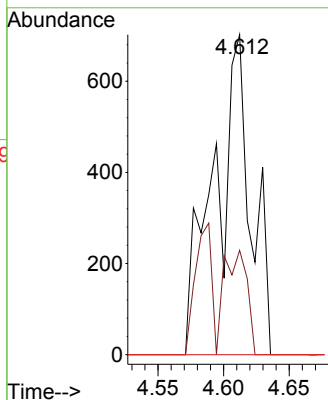
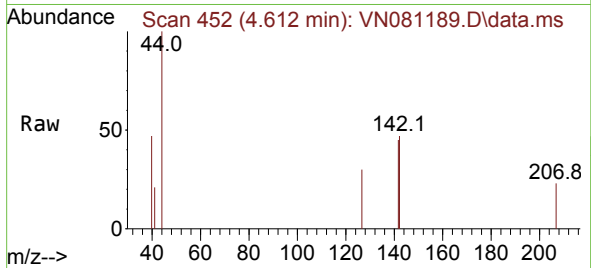




#10  
Methyl Iodide  
Concen: 0.269 ug/l  
RT: 4.612 min Scan# 41  
Delta R.T. 0.023 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

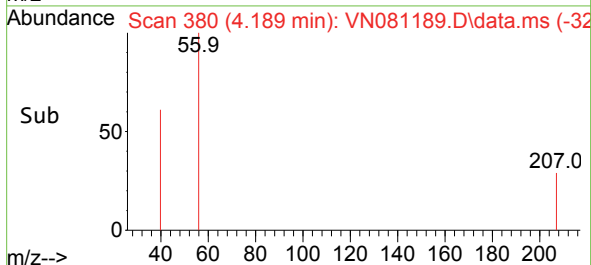
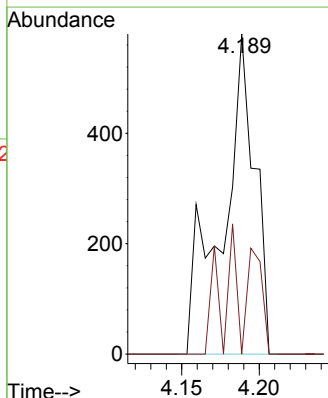
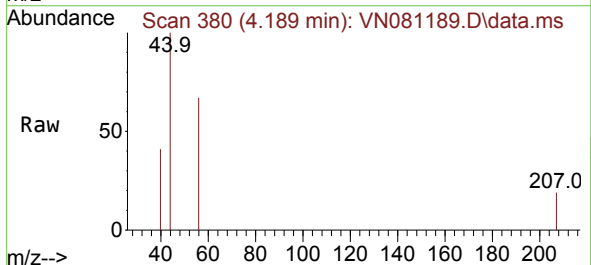
Instrument :  
MSVOA\_N  
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RW8-MW01S-20240217

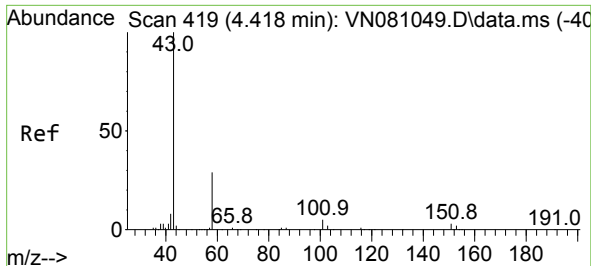
Tgt Ion:142 Resp: 1347  
Ion Ratio Lower Upper  
142 100  
127 32.6 37.0 55.4#  
141 0.0 12.5 18.7#



#13  
Acrolein  
Concen: 1.812 ug/l  
RT: 4.189 min Scan# 380  
Delta R.T. 0.012 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

Tgt Ion: 56 Resp: 839  
Ion Ratio Lower Upper  
56 100  
55 15.1 55.3 82.9#





#16

Acetone

Concen: 1.951 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

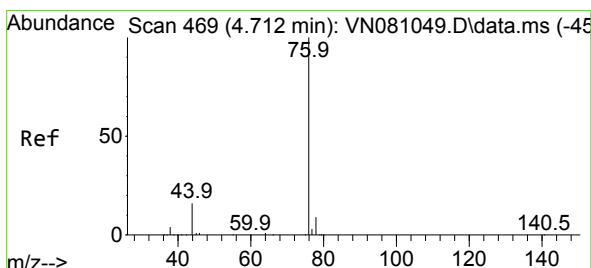
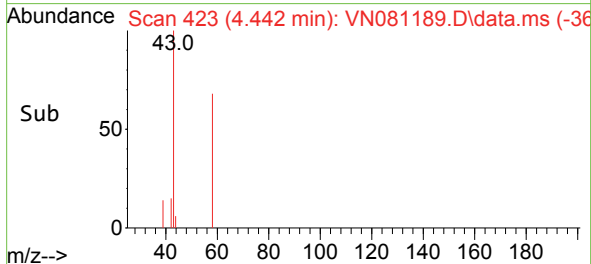
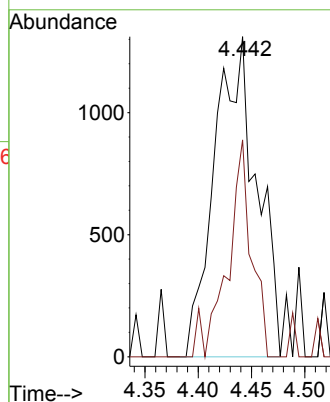
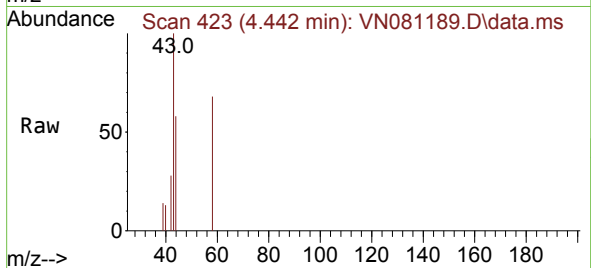
RW8-MW01S-20240217

Tgt Ion: 43 Resp: 3607

Ion Ratio Lower Upper

43 100

58 67.7 24.8 37.2#



#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 4.724 min Scan# 471

Delta R.T. 0.012 min

Lab File: VN081189.D

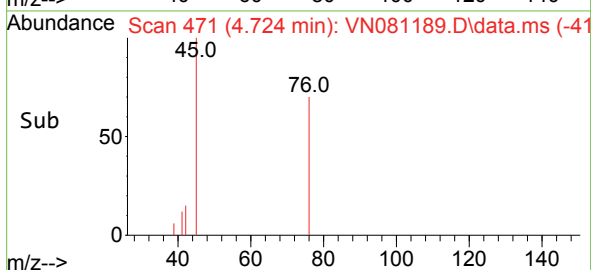
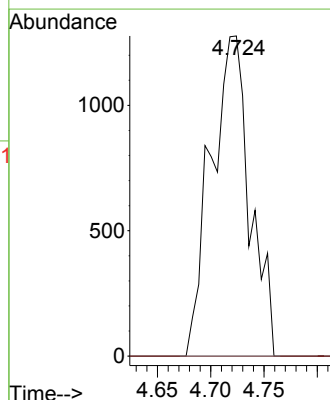
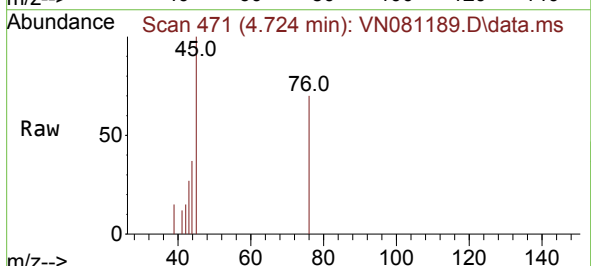
Acq: 26 Feb 2024 12:52

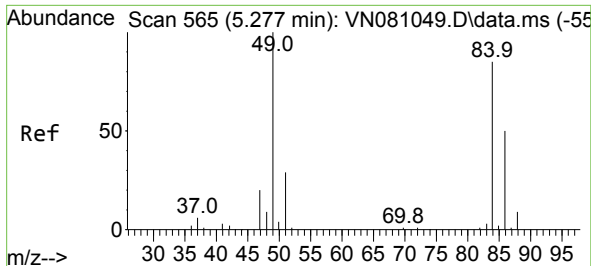
Tgt Ion: 76 Resp: 3254

Ion Ratio Lower Upper

76 100

78 0.0 6.3 9.5#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.289 min Scan# 5

Delta R.T. 0.012 min

Lab File: VN081189.D

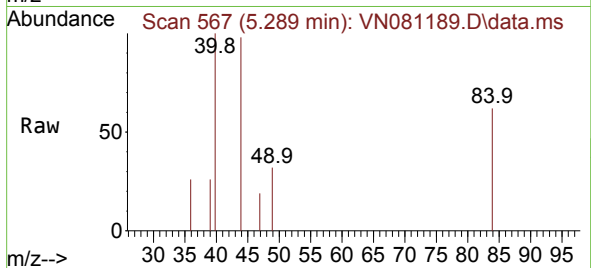
Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

RW8-MW01S-20240217



Tgt Ion: 84 Resp: 326

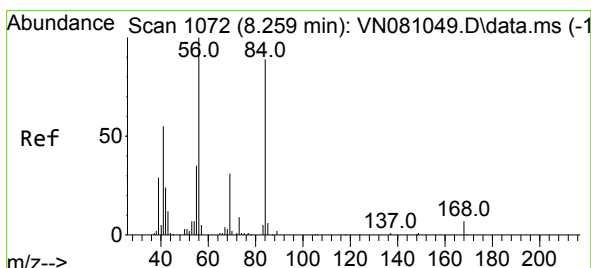
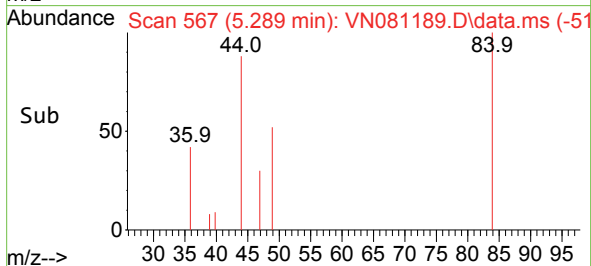
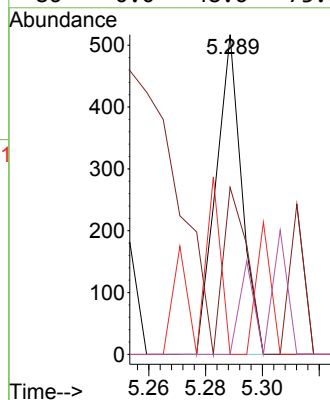
Ion Ratio Lower Upper

84 100

49 52.2 108.1 162.1#

51 0.0 32.9 49.3#

86 0.0 48.6 73.0#



#31

Cyclohexane

Concen: 1.252 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

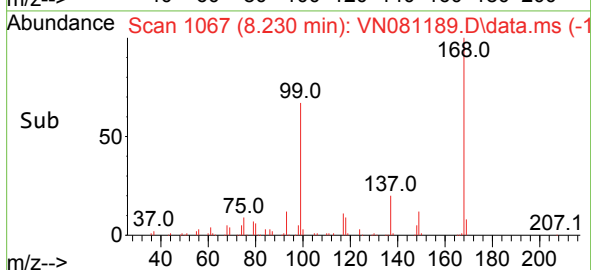
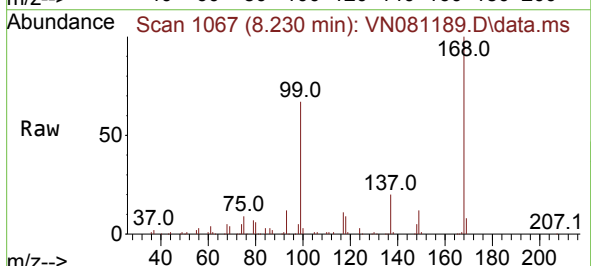
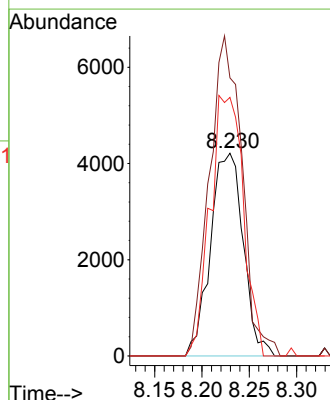
Tgt Ion: 56 Resp: 10154

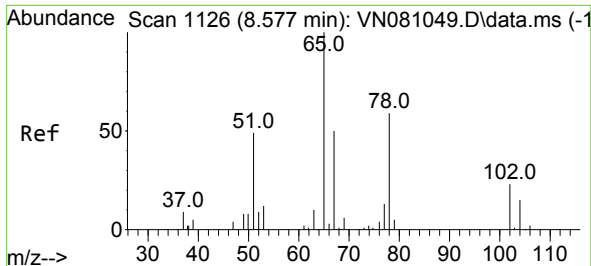
Ion Ratio Lower Upper

56 100

69 137.1 20.1 30.1#

84 127.5 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 51.115 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

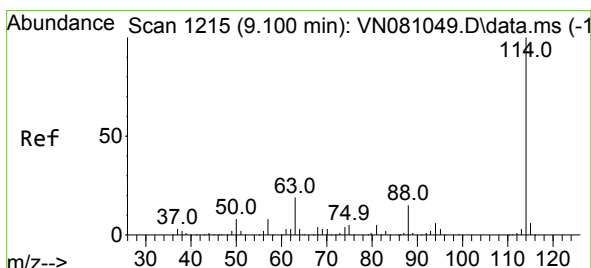
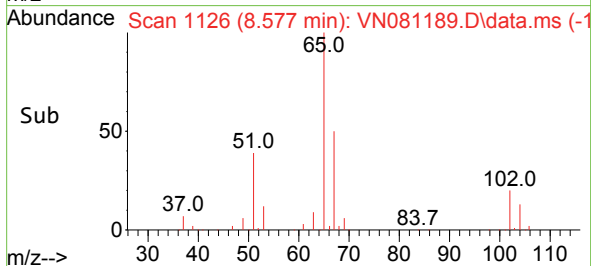
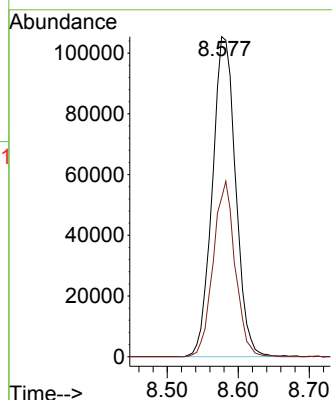
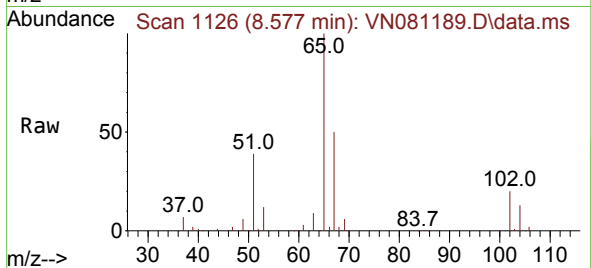
RW8-MW01S-20240217

Tgt Ion: 65 Resp: 240168

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

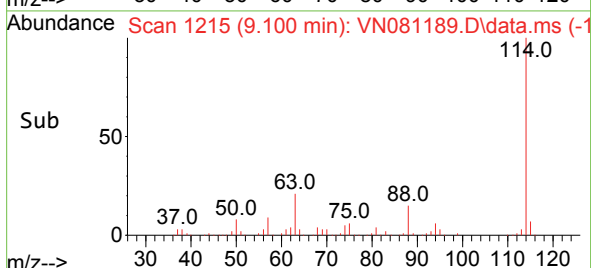
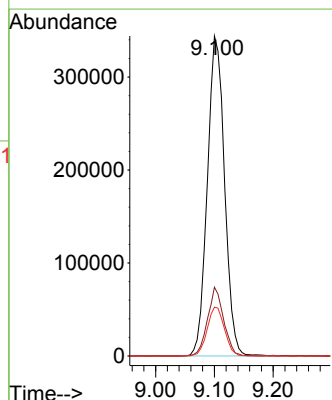
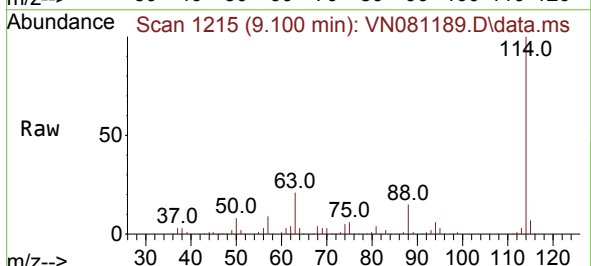
Tgt Ion: 114 Resp: 701395

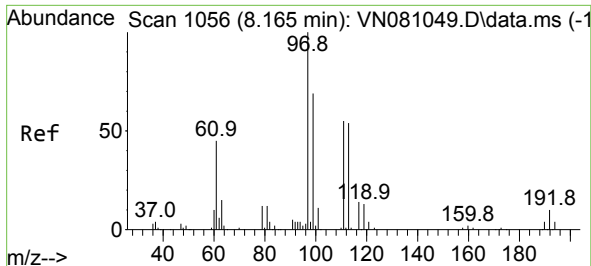
Ion Ratio Lower Upper

114 100

63 21.5 0.0 48.0

88 15.2 0.0 34.8

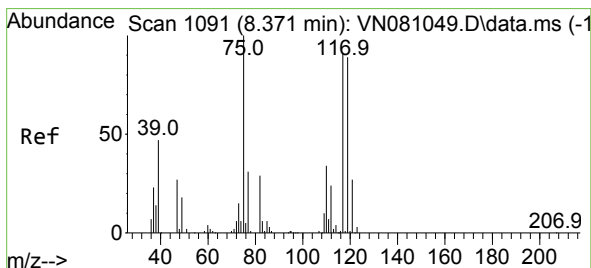
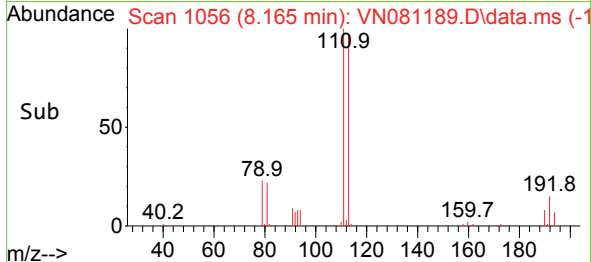
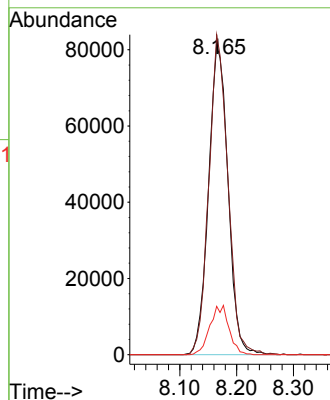
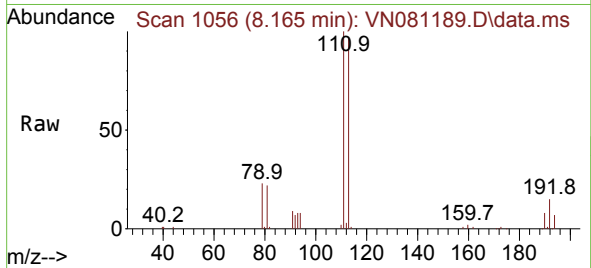




#35  
Dibromofluoromethane  
Concen: 48.847 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

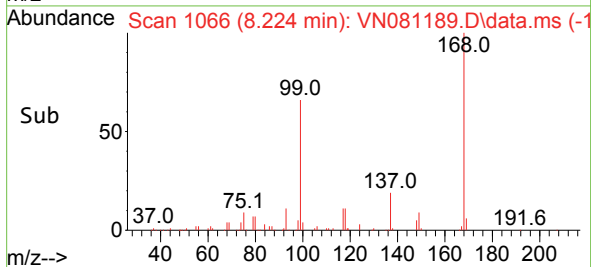
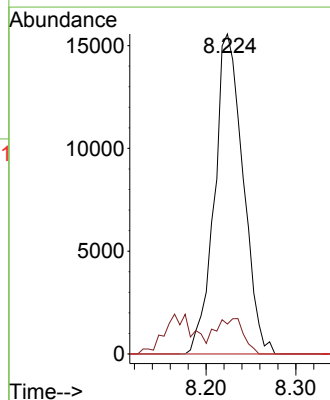
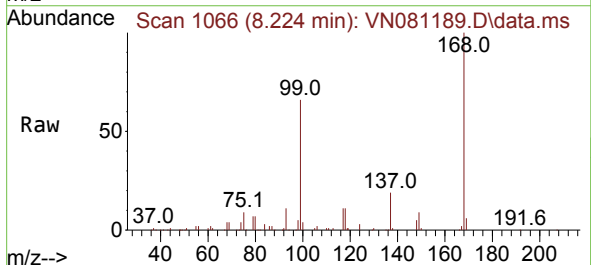
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW8-MW01S-20240217

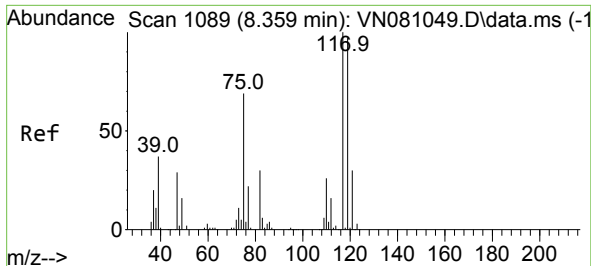
Tgt Ion:113 Resp: 193736  
Ion Ratio Lower Upper  
113 100  
111 100.7 82.2 123.4  
192 15.5 12.5 18.7



#36  
1,1-Dichloropropene  
Concen: 5.066 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

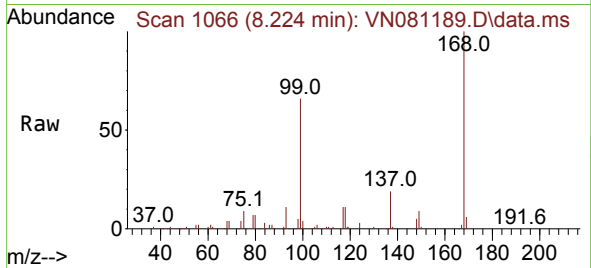
Tgt Ion: 75 Resp: 34426  
Ion Ratio Lower Upper  
75 100  
110 10.9 16.0 48.0#  
77 0.0 25.8 38.6#



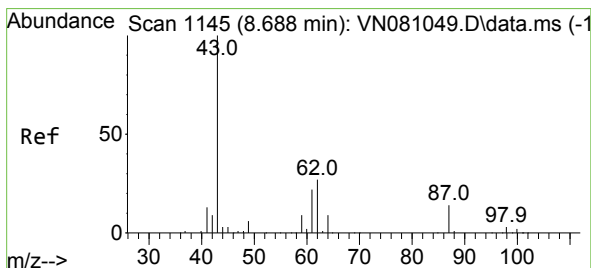
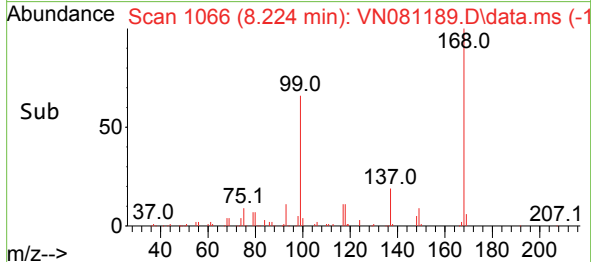
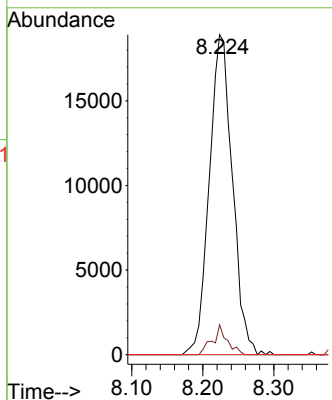


#38  
Carbon Tetrachloride  
Concen: 6.220 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

Instrument :  
MSVOA\_N  
ClientSampleId :  
RW8-MW01S-20240217

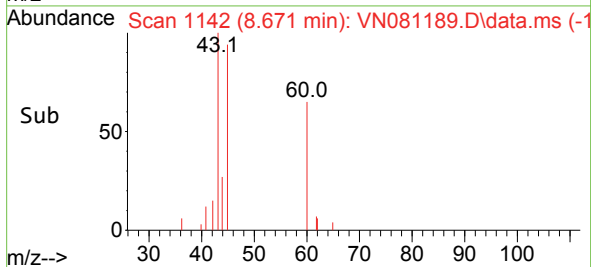
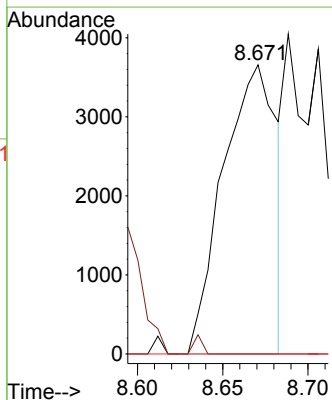
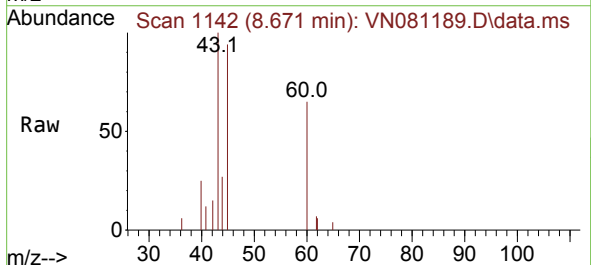


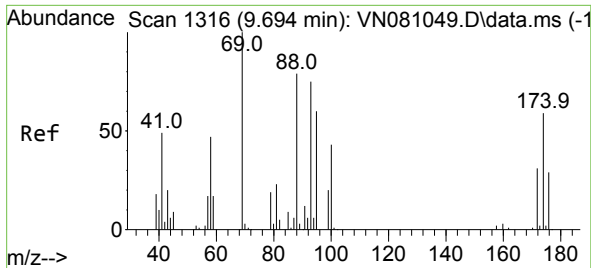
Tgt Ion: 117 Resp: 42758  
Ion Ratio Lower Upper  
117 100  
119 9.4 73.4 110.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 0.739 ug/l  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.018 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

Tgt Ion: 43 Resp: 7923  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.9 29.9#  
87 0.0 9.0 13.6#

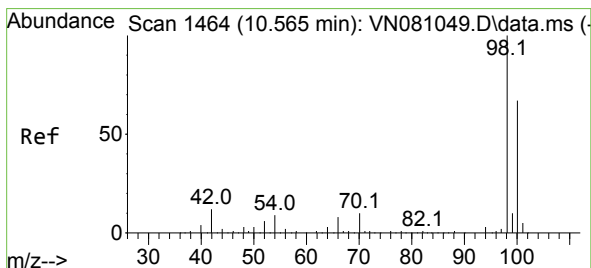
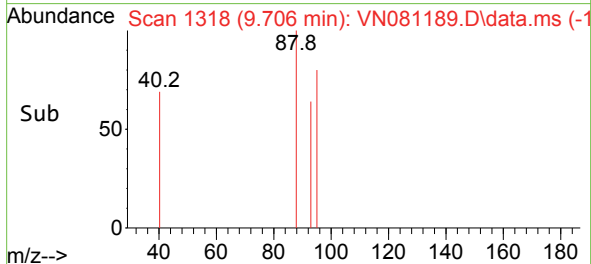
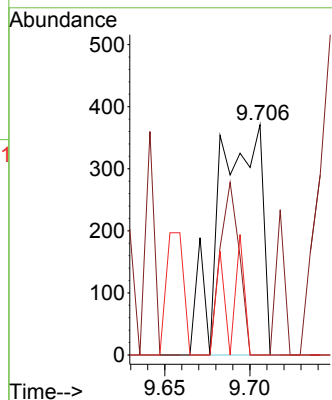
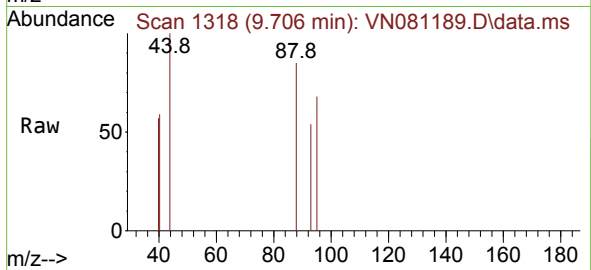




#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 9.706 min Scan# 1318  
Delta R.T. 0.012 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

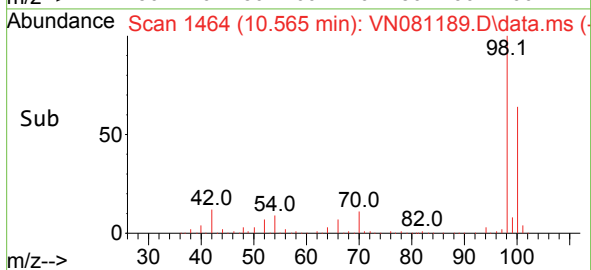
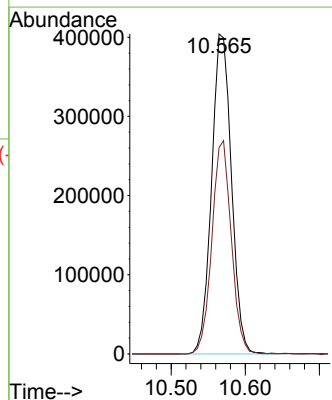
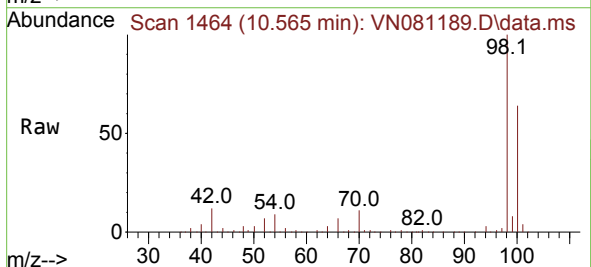
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW8-MW01S-20240217

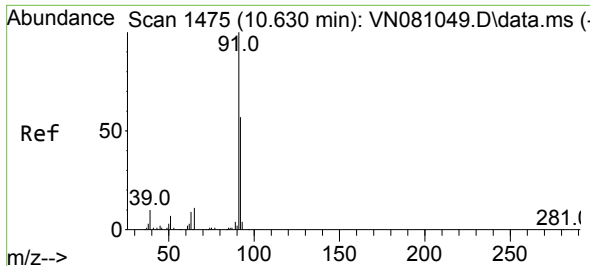
Tgt Ion: 88 Resp: 646  
Ion Ratio Lower Upper  
88 100  
43 12.8 30.1 45.1#  
58 0.0 63.9 95.9#



#50  
Toluene-d8  
Concen: 53.355 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

Tgt Ion: 98 Resp: 751594  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.4 77.0





#52

Toluene

Concen: 0.349 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

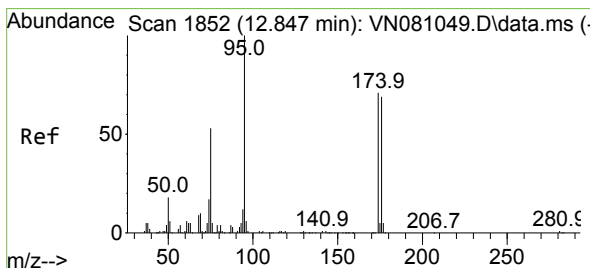
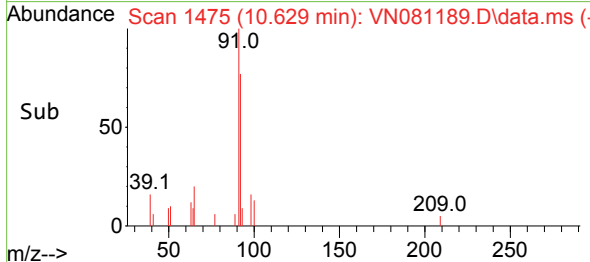
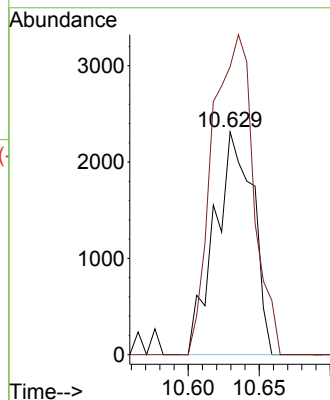
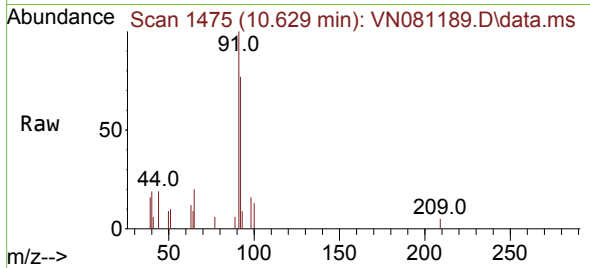
RW8-MW01S-20240217

Tgt Ion: 92 Resp: 4343

Ion Ratio Lower Upper

92 100

91 154.6 139.4 209.0



#62

4-Bromofluorobenzene

Concen: 44.701 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

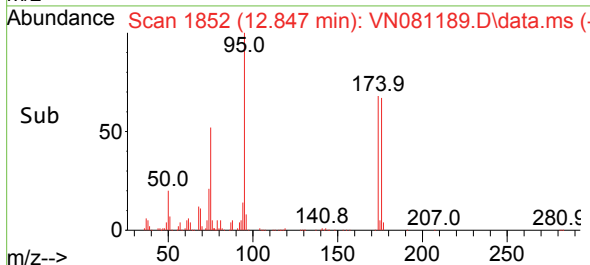
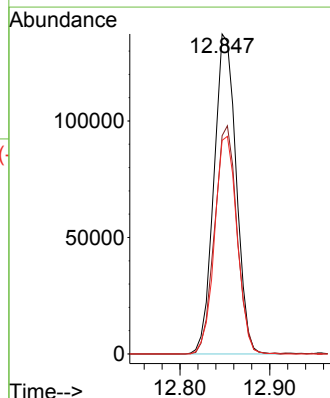
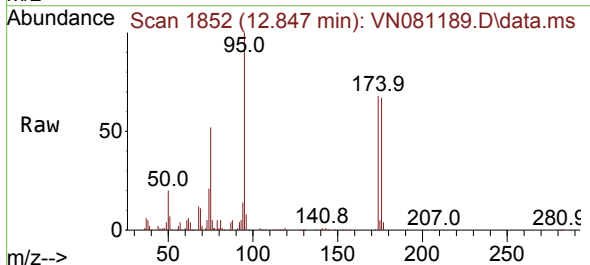
Tgt Ion: 95 Resp: 236610

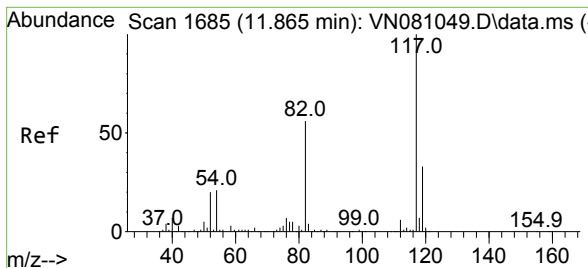
Ion Ratio Lower Upper

95 100

174 71.6 0.0 120.4

176 68.6 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

RW8-MW01S-20240217

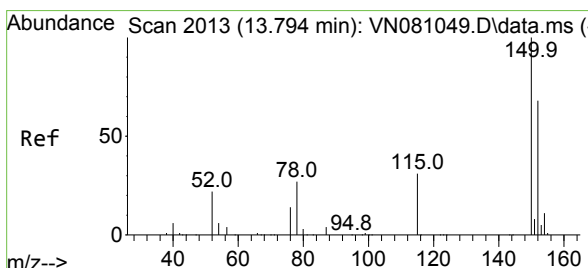
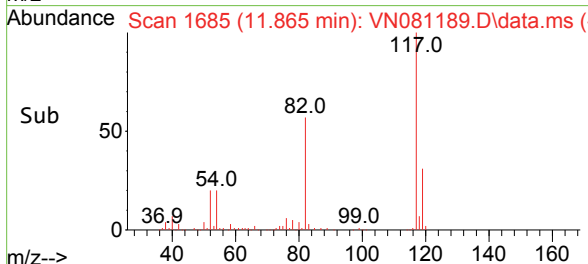
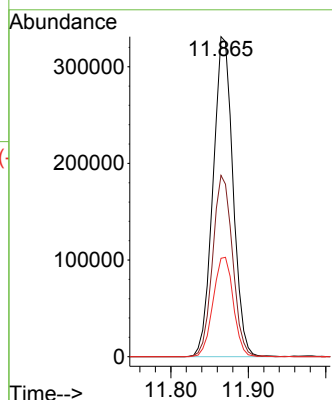
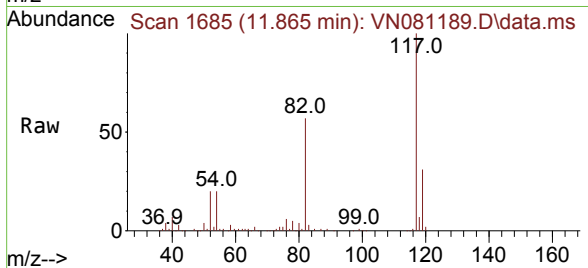
Tgt Ion:117 Resp: 592158

Ion Ratio Lower Upper

117 100

82 56.7 52.7 79.1

119 30.7 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: VN081189.D

Acq: 26 Feb 2024 12:52

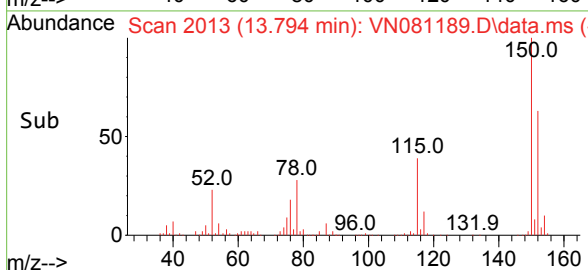
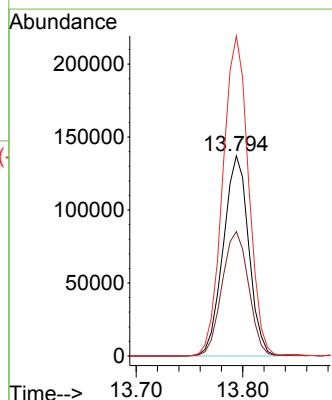
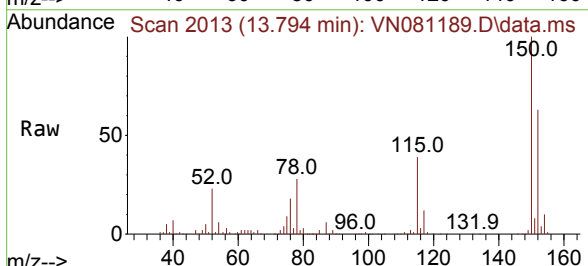
Tgt Ion:152 Resp: 227321

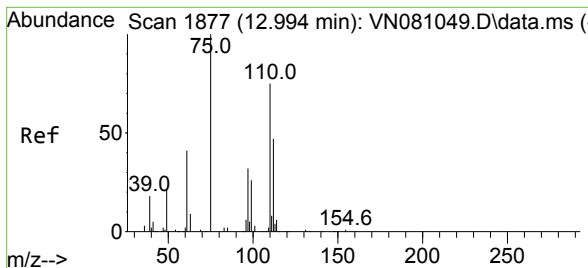
Ion Ratio Lower Upper

152 100

115 65.2 32.3 96.8

150 162.3 0.0 339.8





#76

1,2,3-Trichloropropane

Concen: 25.007 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

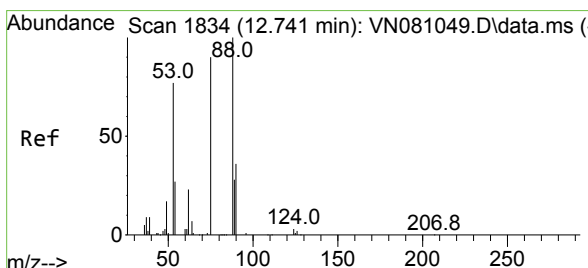
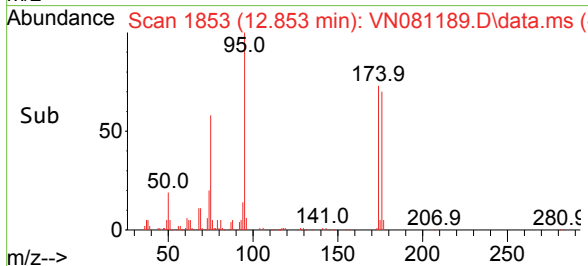
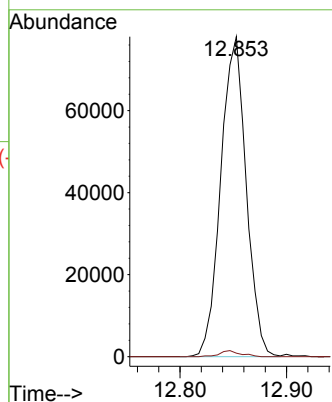
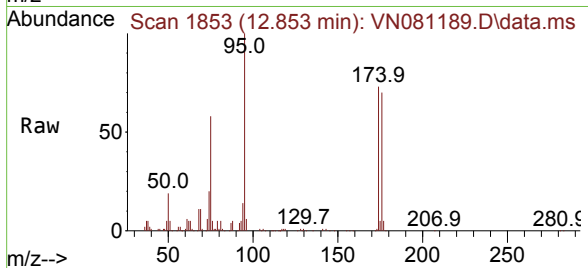
RW8-MW01S-20240217

Tgt Ion: 75 Resp: 129158

Ion Ratio Lower Upper

75 100

77 1.6 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.366 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081189.D

Acq: 26 Feb 2024 12:52

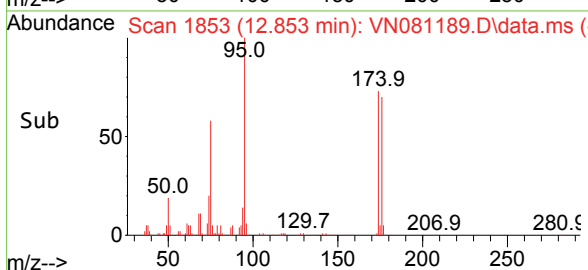
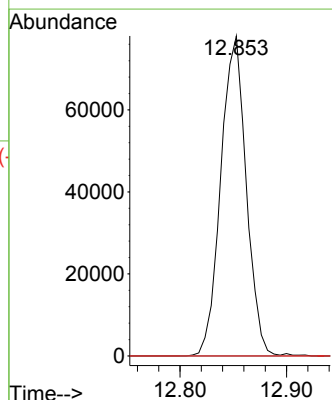
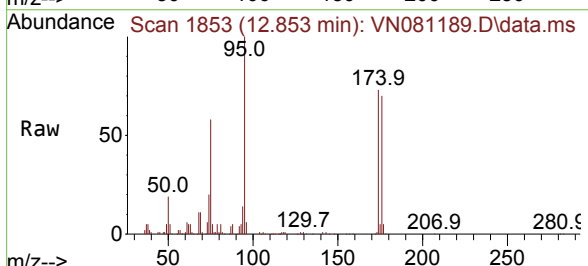
Tgt Ion: 75 Resp: 129158

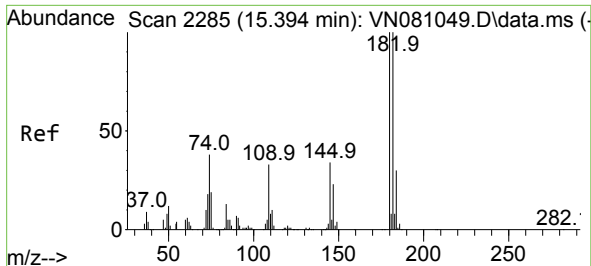
Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#

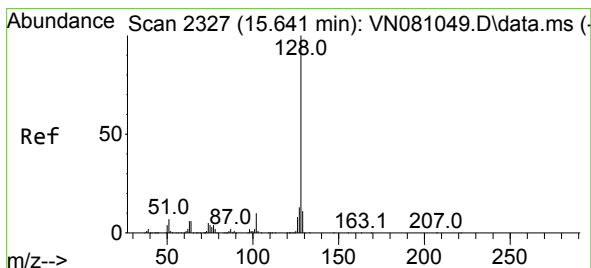
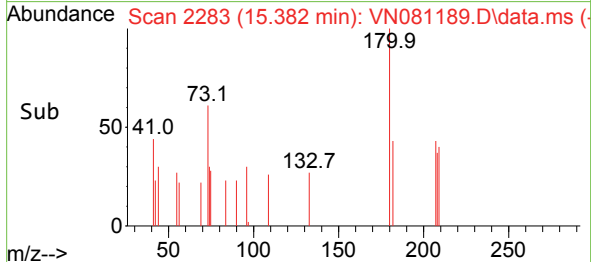
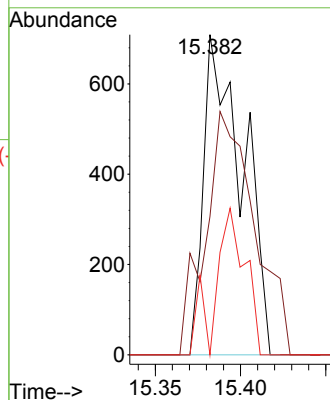
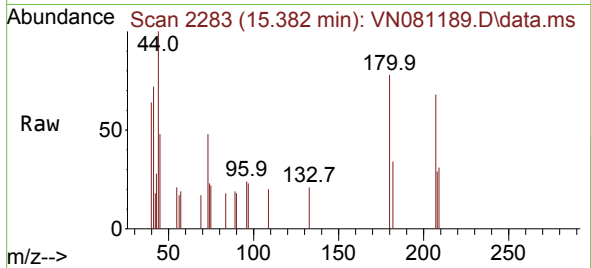




#93  
1,2,4-Trichlorobenzene  
Concen: 0.249 ug/l  
RT: 15.382 min Scan# 211  
Delta R.T. -0.012 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

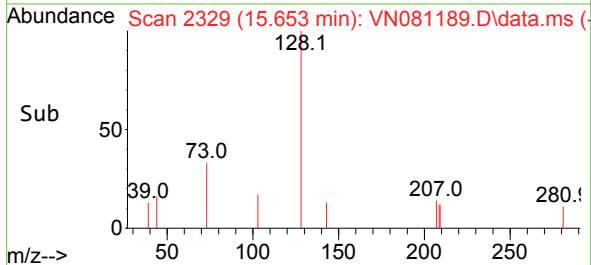
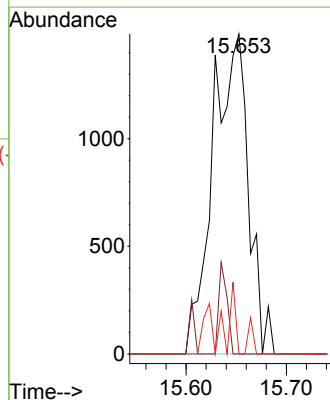
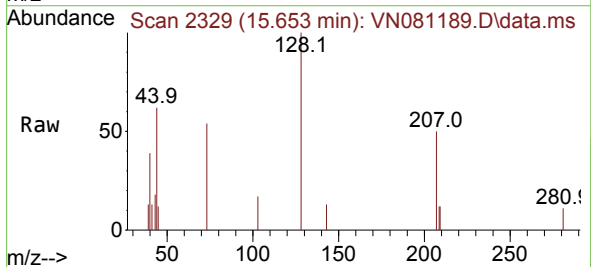
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW8-MW01S-20240217

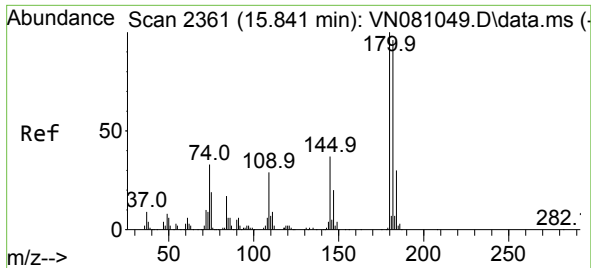
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.5  | 46.6  | 139.7 |
| 145     | 35.5  | 16.8  | 50.3  |



#95  
Naphthalene  
Concen: 0.222 ug/l  
RT: 15.653 min Scan# 2329  
Delta R.T. 0.012 min  
Lab File: VN081189.D  
Acq: 26 Feb 2024 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.0  | 15.0# |
| 129     | 5.1   | 8.7   | 13.1# |





#96

1,2,3-Trichlorobenzene

Concen: 0.311 ug/l

RT: 15.847 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN081189.D

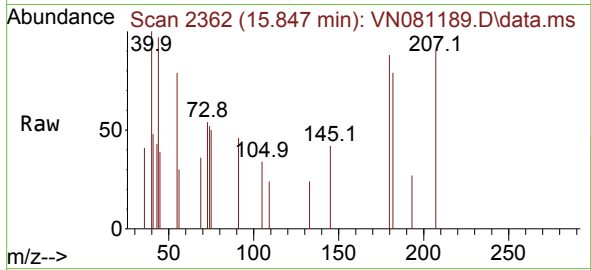
Acq: 26 Feb 2024 12:52

Instrument :

MSVOA\_N

ClientSampleId :

RW8-MW01S-20240217



Tgt Ion:180 Resp: 1391

Ion Ratio Lower Upper

180 100

182 0.0 46.5 139.3#

145 12.9 17.8 53.4#

