

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061423\  
 Data File : VN078213.D  
 Acq On : 14 Jun 2023 18:09  
 Operator : JC\MD  
 Sample : 03231-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-EVAL-02S-06132023

Quant Time: Jun 15 02:47:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

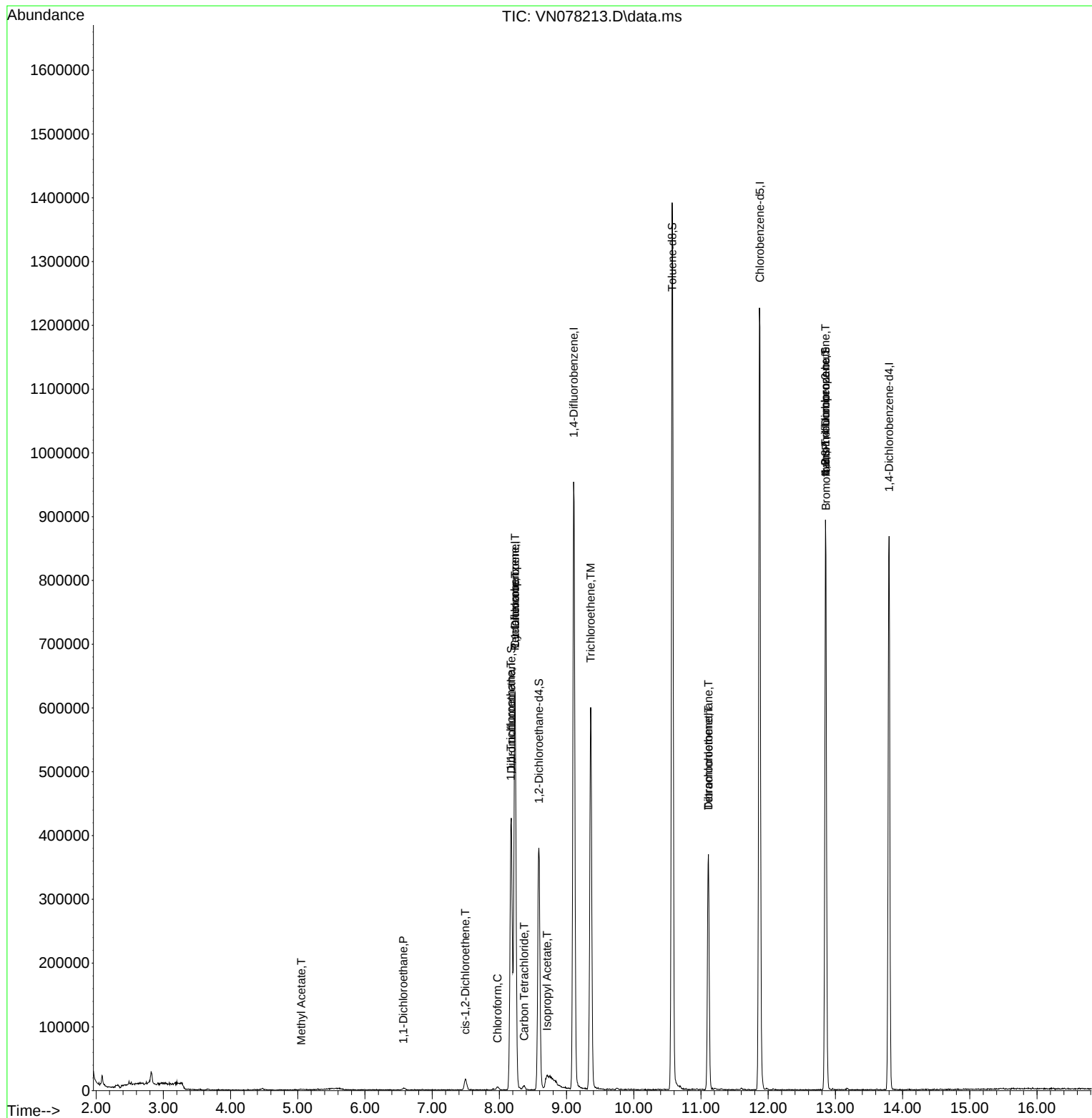
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 453554   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 855323   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.876 | 117   | 739692   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 238102   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 322026   | 53.252    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 106.500% |
| 35) Dibromofluoromethane      | 8.177  | 113   | 289224   | 53.480    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 106.960% |
| 50) Toluene-d8                | 10.571 | 98    | 992219   | 47.591    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 95.180%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 315513   | 48.680    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 97.360%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.377  | 50    | 1098     | Below Cal | #      | 82       |
| 18) Methyl Acetate            | 5.053  | 43    | 1864     | 0.233     | ug/l # | 73       |
| 24) 1,1-Dichloroethane        | 6.571  | 63    | 4514     | 0.481     | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 7.494  | 96    | 10886    | 1.708     | ug/l   | 93       |
| 30) Chloroform                | 7.971  | 83    | 4542     | 0.450     | ug/l   | 86       |
| 31) Cyclohexane               | 8.235  | 56    | 10248    | 1.321     | ug/l # | 43       |
| 32) 1,1,1-Trichloroethane     | 8.171  | 97    | 24379    | 2.749     | ug/l   | 94       |
| 36) 1,1-Dichloropropene       | 8.235  | 75    | 38696    | 4.988     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.371  | 117   | 4200     | 0.513     | ug/l # | 77       |
| 43) Isopropyl Acetate         | 8.712  | 43    | 16516    | 1.425     | ug/l # | 49       |
| 44) Trichloroethene           | 9.359  | 130   | 216364   | 35.377    | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.112 | 129   | 84112    | 13.897    | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.112 | 164   | 80635    | 16.340    | ug/l   | 98       |
| 71) Bromoform                 | 12.859 | 173   | 2553     | 0.679     | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83    | 109      | Below Cal | #      | 26       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 165780   | 29.452    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 165780   | 90.486    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

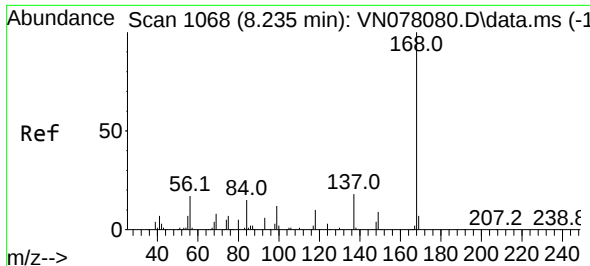
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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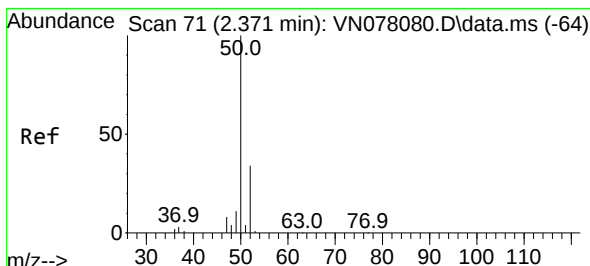
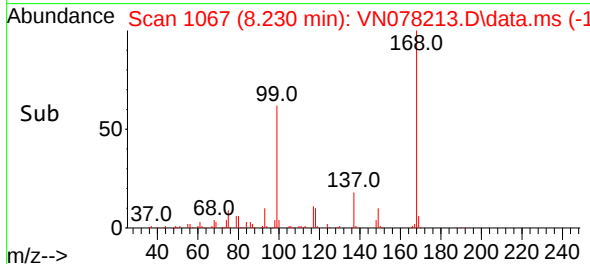
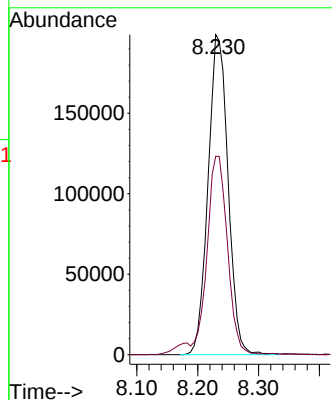
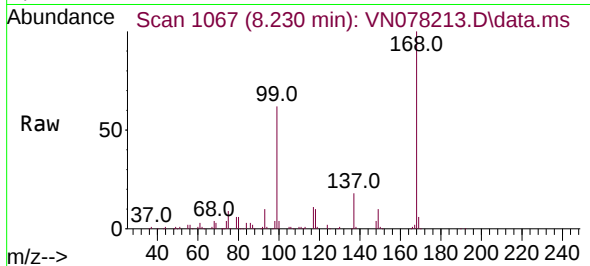




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

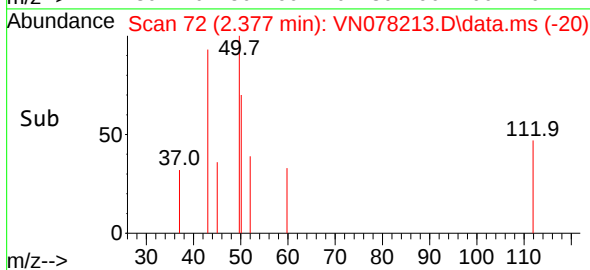
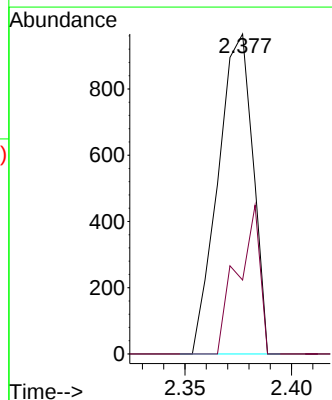
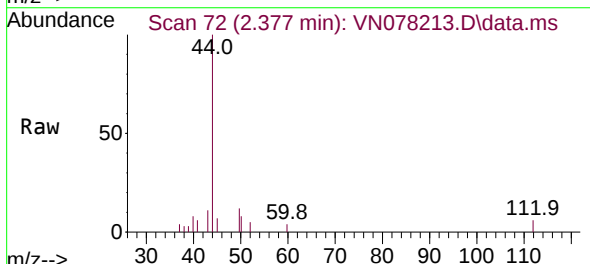
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-EVAL-02S-06132023

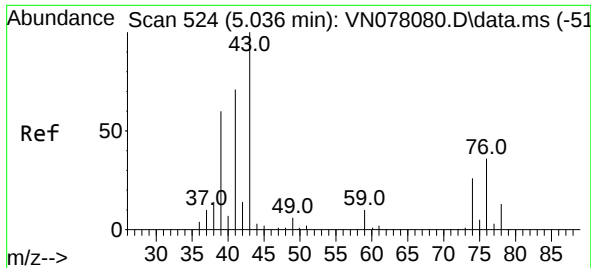
Tgt Ion:168 Resp: 453554  
Ion Ratio Lower Upper  
168 100  
99 61.8 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.377 min Scan# 72  
Delta R.T. 0.006 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion: 50 Resp: 1098  
Ion Ratio Lower Upper  
50 100  
52 23.1 26.5 39.7#

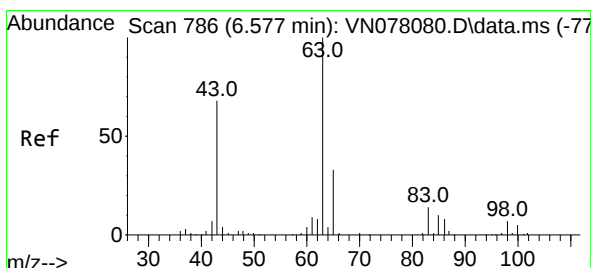
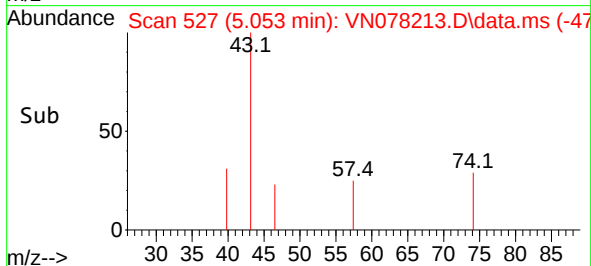
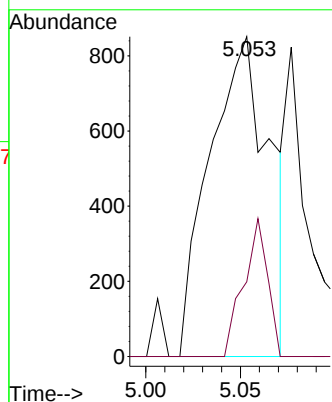
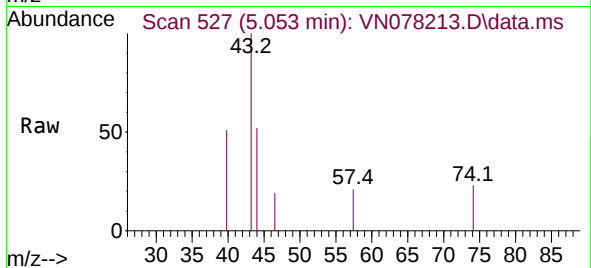




#18  
Methyl Acetate  
Concen: 0.233 ug/l  
RT: 5.053 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

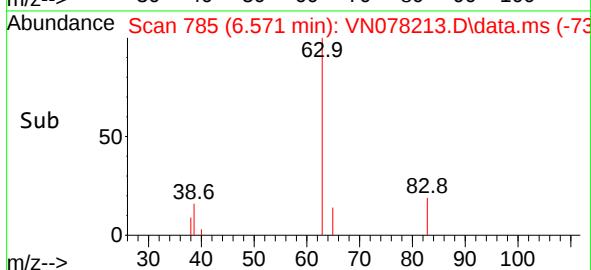
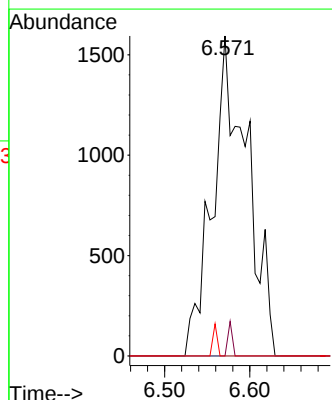
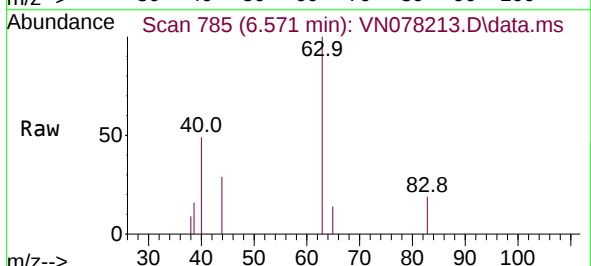
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-EVAL-02S-06132023

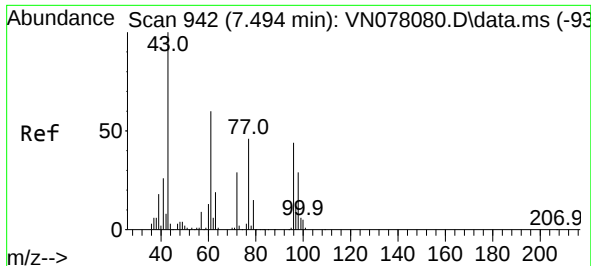
Tgt Ion: 43 Resp: 1864  
Ion Ratio Lower Upper  
43 100  
74 17.3 26.2 39.4#



#24  
1,1-Dichloroethane  
Concen: 0.481 ug/l  
RT: 6.571 min Scan# 785  
Delta R.T. -0.006 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion: 63 Resp: 4514  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.9 11.7#  
100 0.0 2.5 7.4#

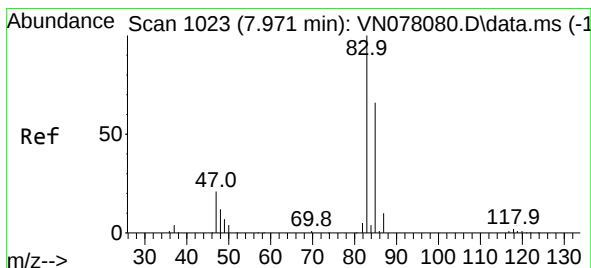
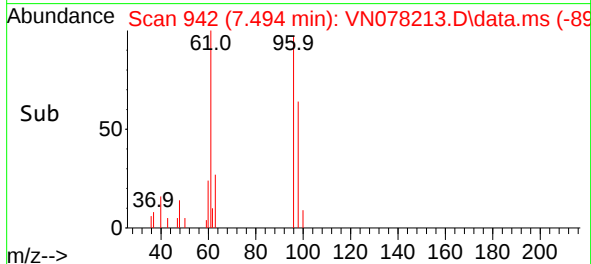
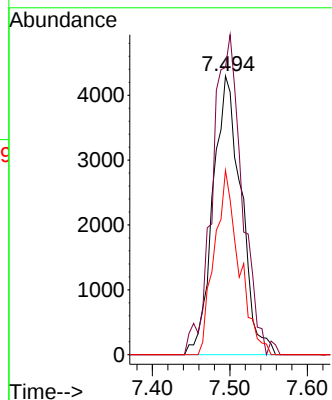
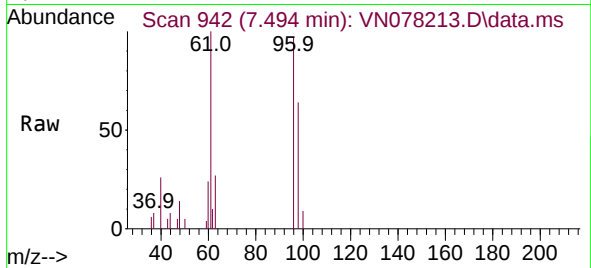




#27  
 cis-1,2-Dichloroethene  
 Concen: 1.708 ug/l  
 RT: 7.494 min Scan# 942  
 Delta R.T. 0.000 min  
 Lab File: VN078213.D  
 Acq: 14 Jun 2023 18:09

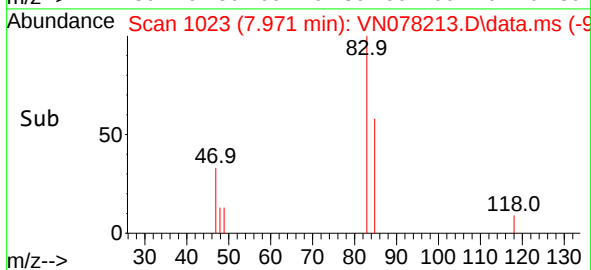
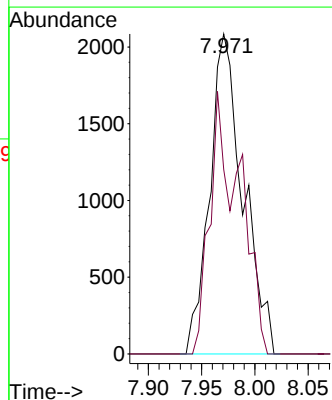
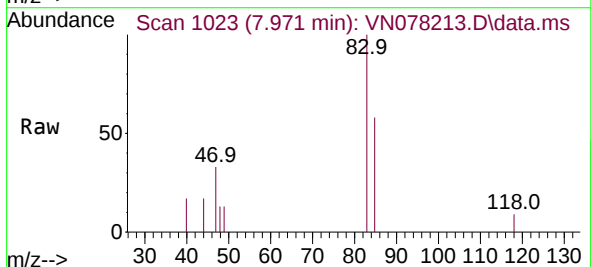
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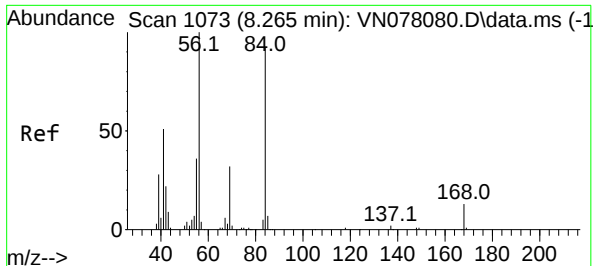
Tgt Ion: 96 Resp: 10886  
 Ion Ratio Lower Upper  
 96 100  
 61 120.0 0.0 255.2  
 98 57.7 0.0 128.8



#30  
 Chloroform  
 Concen: 0.450 ug/l  
 RT: 7.971 min Scan# 1023  
 Delta R.T. 0.000 min  
 Lab File: VN078213.D  
 Acq: 14 Jun 2023 18:09

Tgt Ion: 83 Resp: 4542  
 Ion Ratio Lower Upper  
 83 100  
 85 57.6 55.4 83.0

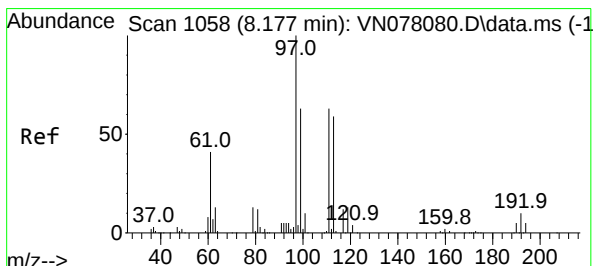
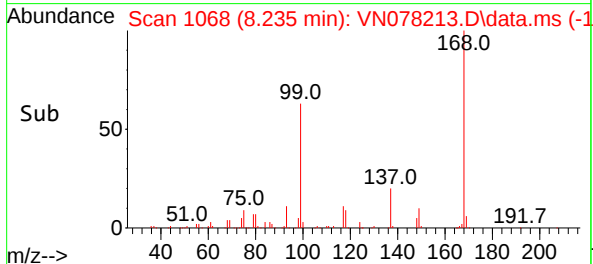
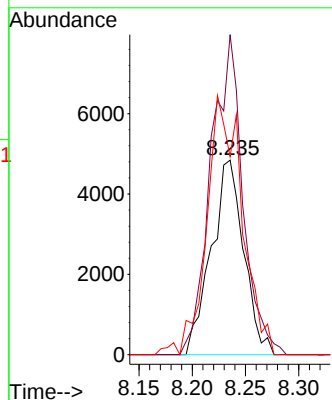
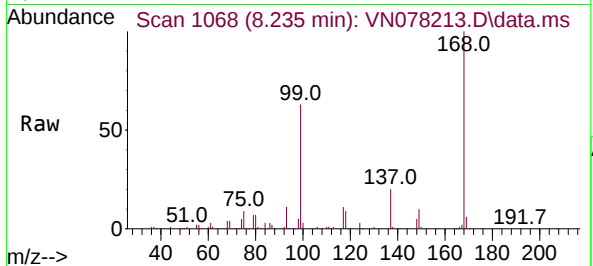




#31  
Cyclohexane  
Concen: 1.321 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.029 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

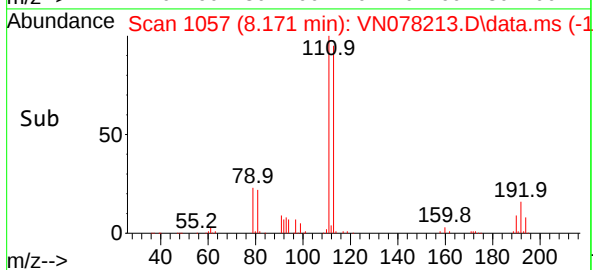
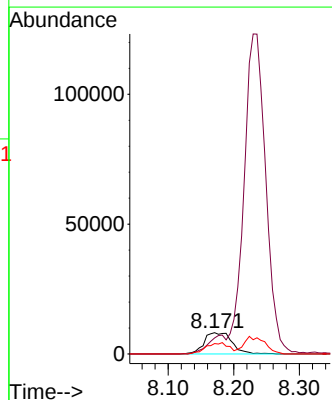
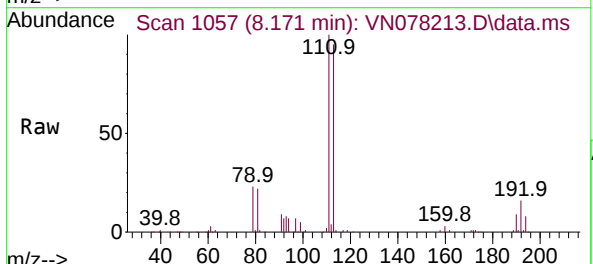
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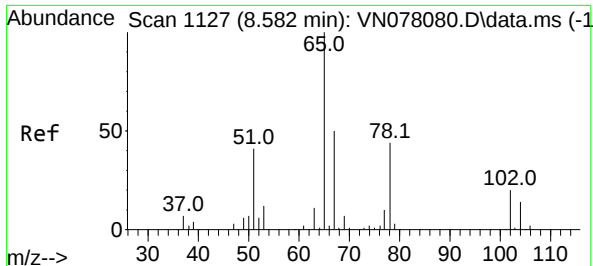
Tgt Ion: 56 Resp: 10248  
Ion Ratio Lower Upper  
56 100  
69 164.5 26.8 40.2#  
84 101.8 81.8 122.6



#32  
1,1,1-Trichloroethane  
Concen: 2.749 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion: 97 Resp: 24379  
Ion Ratio Lower Upper  
97 100  
99 56.2 50.3 75.5  
61 42.6 34.7 52.1





#33

1,2-Dichloroethane-d4

Concen: 53.252 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078213.D

Acq: 14 Jun 2023 18:09

Instrument :

MSVOA\_N

ClientSampleId :

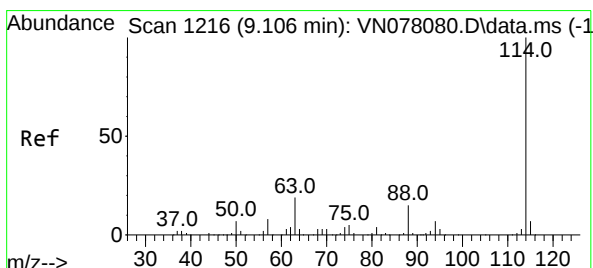
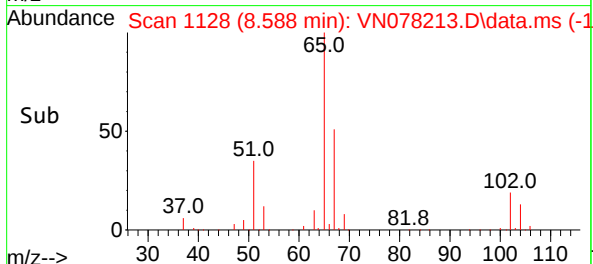
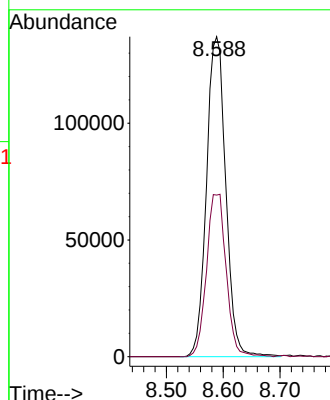
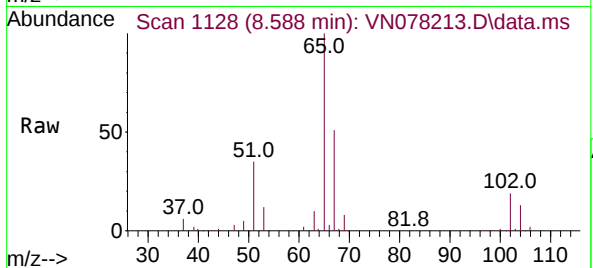
FSND-MW-EVAL-02S-06132023

Tgt Ion: 65 Resp: 322026

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN078213.D

Acq: 14 Jun 2023 18:09

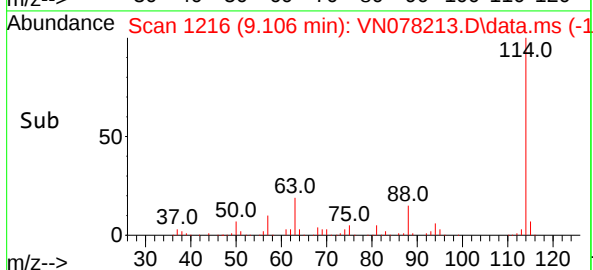
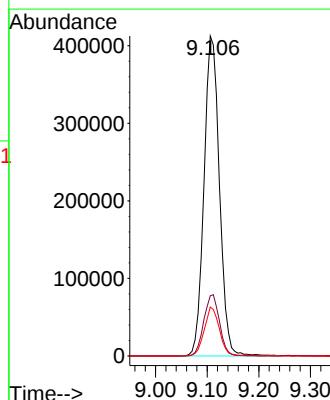
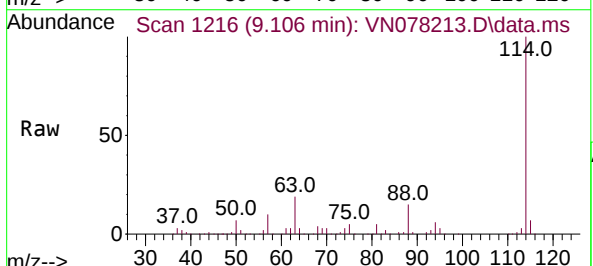
Tgt Ion: 114 Resp: 855323

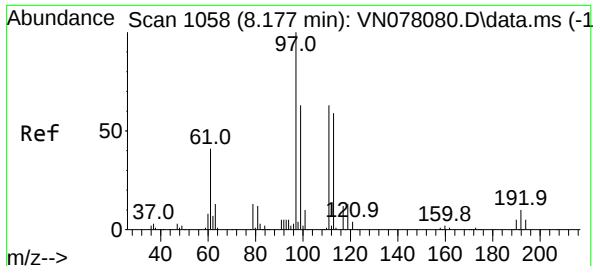
Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.4

88 15.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.480 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078213.D

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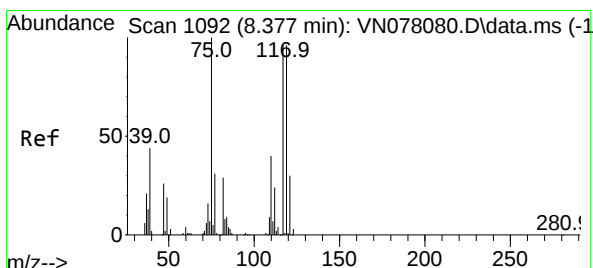
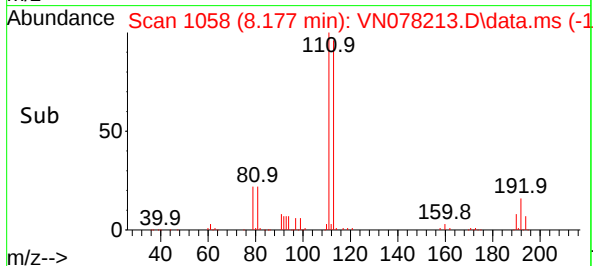
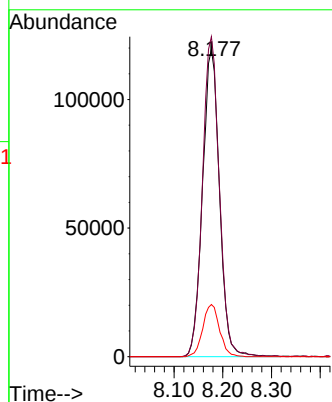
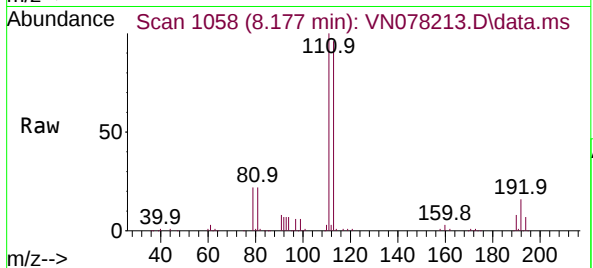
Tgt Ion:113 Resp: 289224

Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.988 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078213.D

Acq: 14 Jun 2023 18:09

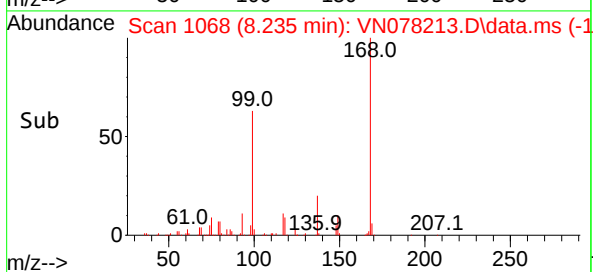
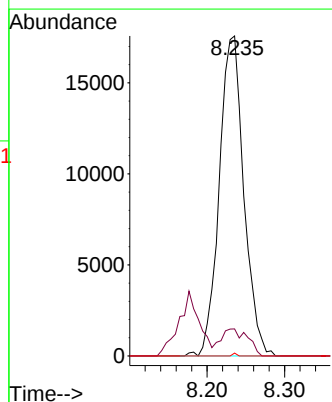
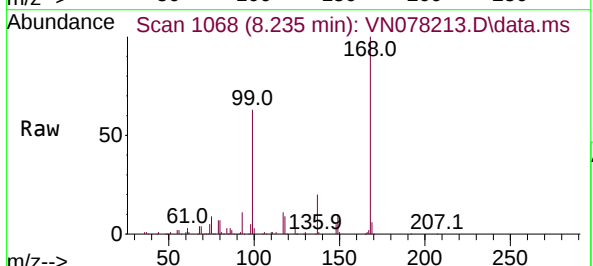
Tgt Ion: 75 Resp: 38696

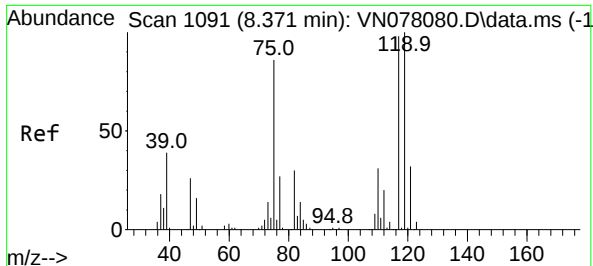
Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.3#

77 0.1 25.0 37.4#

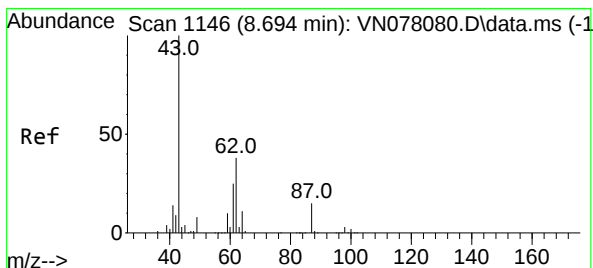
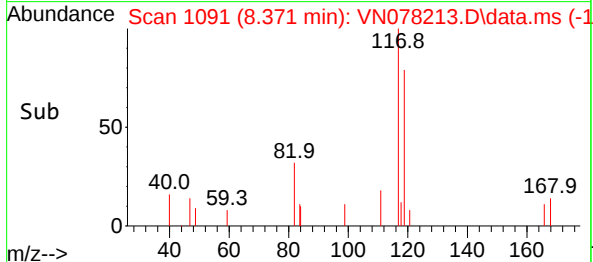
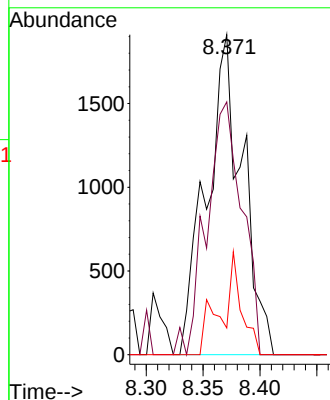
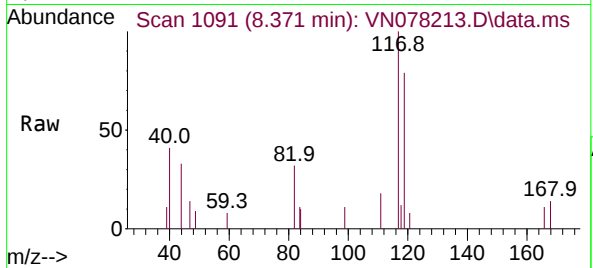




#38  
Carbon Tetrachloride  
Concen: 0.513 ug/l  
RT: 8.371 min Scan# 1091  
Delta R.T. 0.000 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

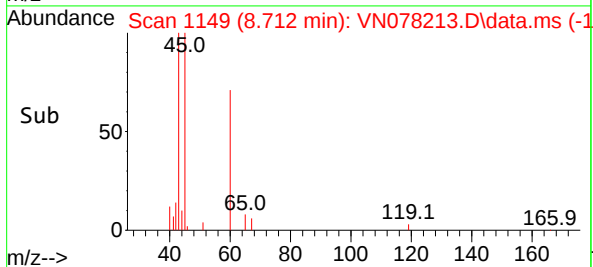
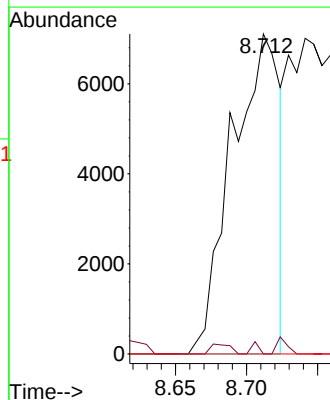
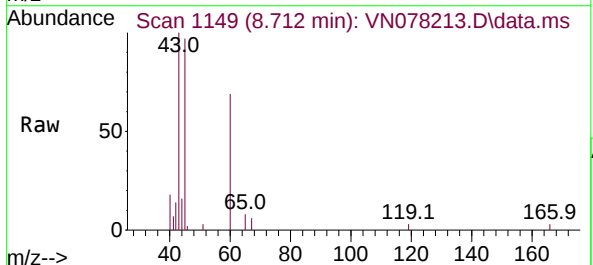
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MSVOA\_N  
ClientSampleId :  
FSND-MW-EVAL-02S-06132023

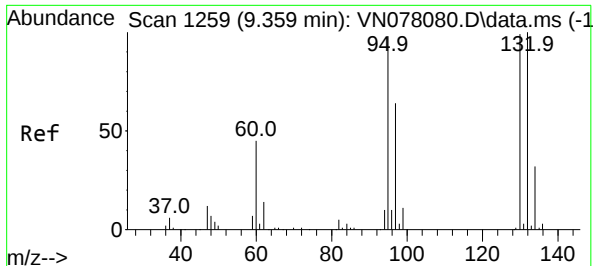
Tgt Ion:117 Resp: 4200  
Ion Ratio Lower Upper  
117 100  
119 79.0 77.3 115.9  
121 8.4 23.3 34.9#



#43  
Isopropyl Acetate  
Concen: 1.425 ug/l  
RT: 8.712 min Scan# 1149  
Delta R.T. 0.018 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion: 43 Resp: 16516  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#

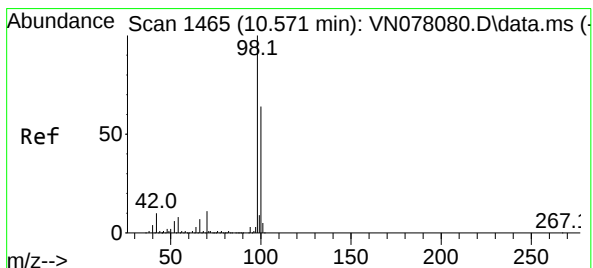
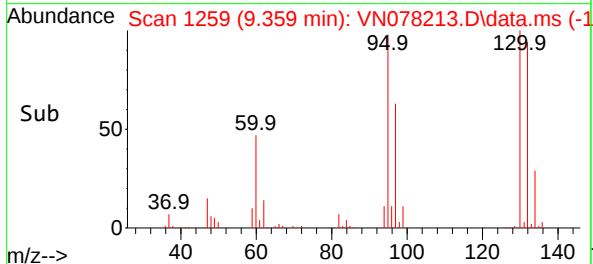
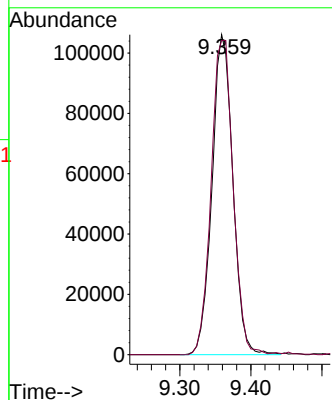
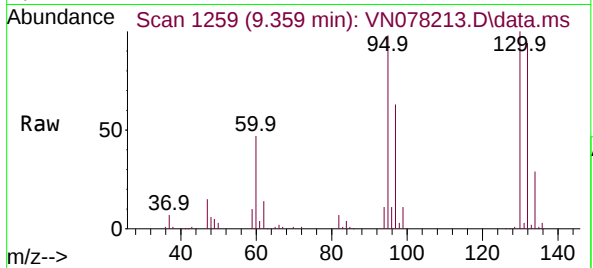




#44  
 Trichloroethene  
 Concen: 35.377 ug/l  
 RT: 9.359 min Scan# 1259  
 Delta R.T. 0.000 min  
 Lab File: VN078213.D  
 Acq: 14 Jun 2023 18:09

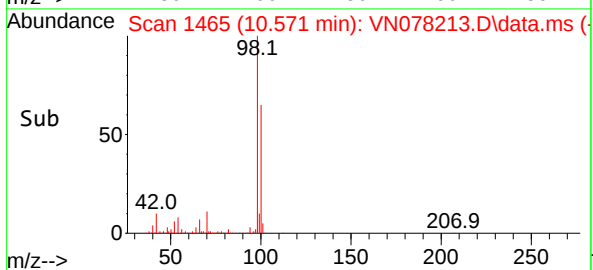
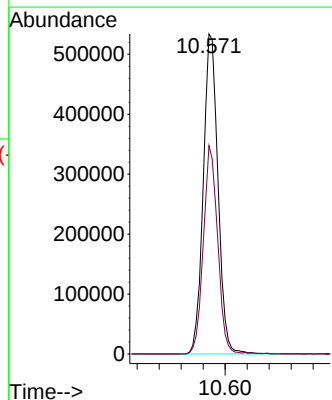
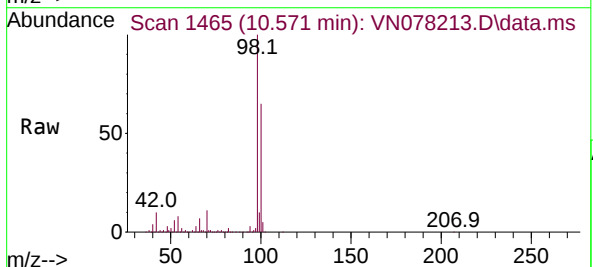
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 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-EVAL-02S-06132023

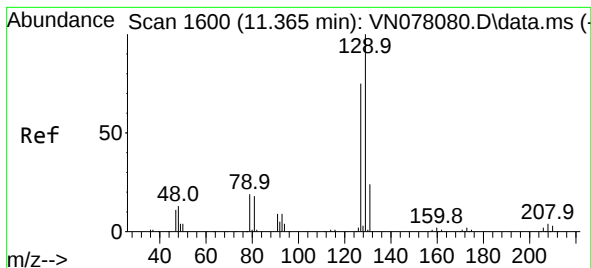
Tgt Ion:130 Resp: 216364  
 Ion Ratio Lower Upper  
 130 100  
 95 98.2 0.0 204.6



#50  
 Toluene-d8  
 Concen: 47.591 ug/l  
 RT: 10.571 min Scan# 1465  
 Delta R.T. 0.000 min  
 Lab File: VN078213.D  
 Acq: 14 Jun 2023 18:09

Tgt Ion: 98 Resp: 992219  
 Ion Ratio Lower Upper  
 98 100  
 100 63.3 52.0 78.0





#60

Dibromochloromethane

Concen: 13.897 ug/l

RT: 11.112 min Scan# 11

Delta R.T. -0.253 min

Lab File: VN078213.D

Acq: 14 Jun 2023 18:09

Instrument :

MSVOA\_N

ClientSampleId :

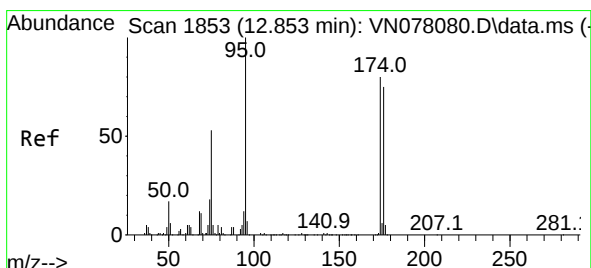
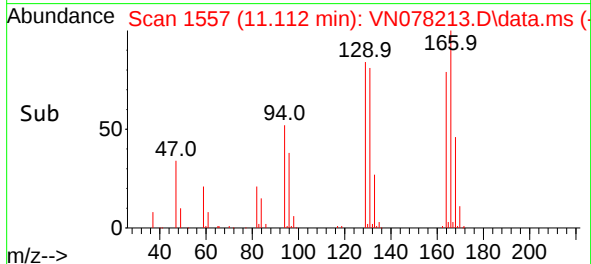
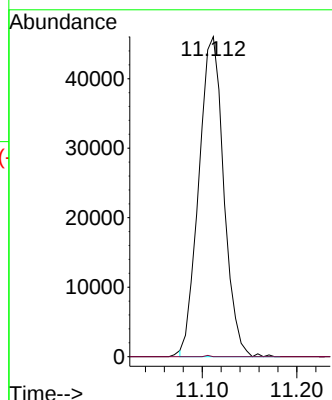
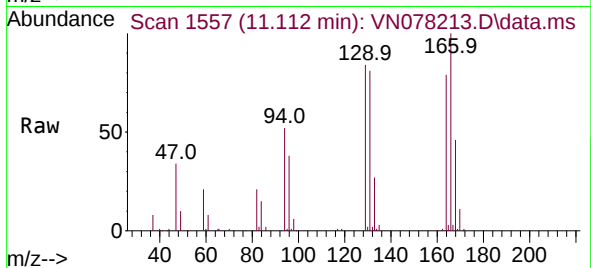
FSND-MW-EVAL-02S-06132023

Tgt Ion:129 Resp: 84112

Ion Ratio Lower Upper

129 100

127 0.1 38.6 116.0#



#62

4-Bromofluorobenzene

Concen: 48.680 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN078213.D

Acq: 14 Jun 2023 18:09

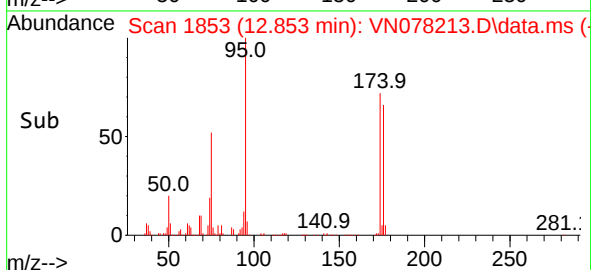
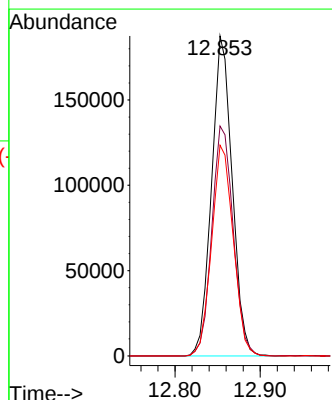
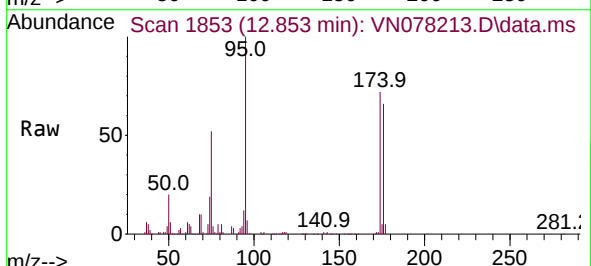
Tgt Ion: 95 Resp: 315513

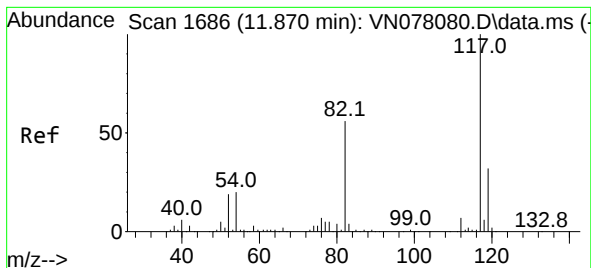
Ion Ratio Lower Upper

95 100

174 74.7 0.0 143.8

176 69.1 0.0 135.8

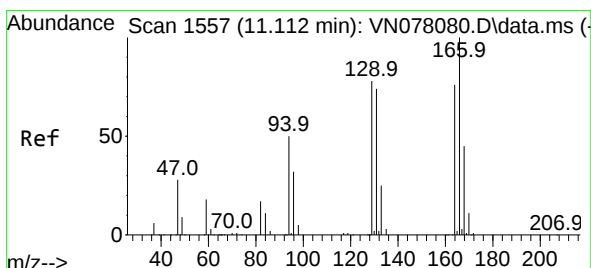
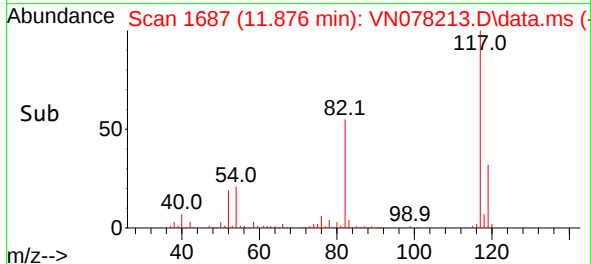
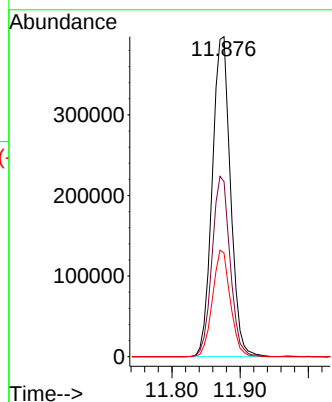
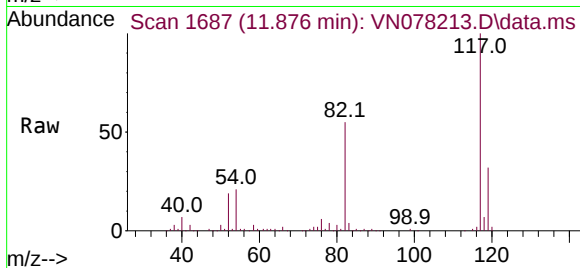




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.876 min Scan# 1177  
Delta R.T. 0.006 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

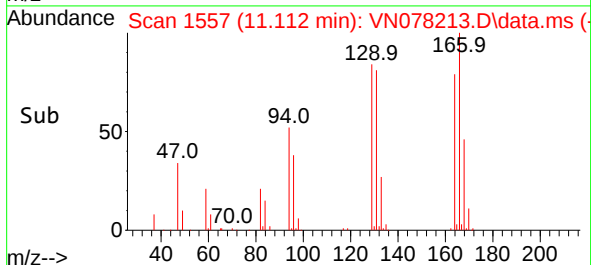
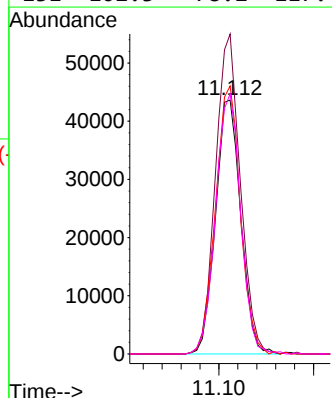
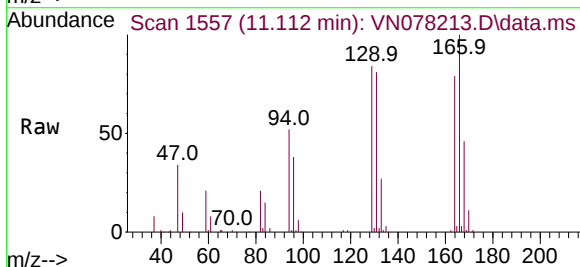
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MSVOA\_N  
ClientSampleId :  
FSND-MW-EVAL-02S-06132023

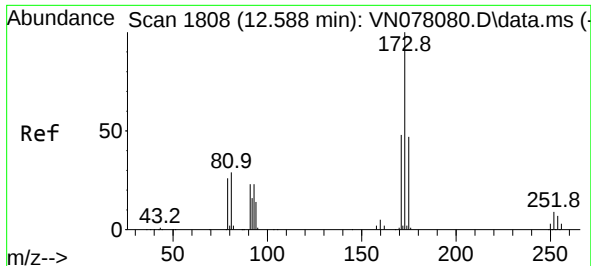
Tgt Ion:117 Resp: 739692  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.0 66.0  
119 32.4 25.6 38.4



#64  
Tetrachloroethene  
Concen: 16.340 ug/l  
RT: 11.112 min Scan# 1557  
Delta R.T. 0.000 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion:164 Resp: 80635  
Ion Ratio Lower Upper  
164 100  
166 126.0 101.4 152.0  
129 105.5 82.4 123.6  
131 102.3 78.2 117.4

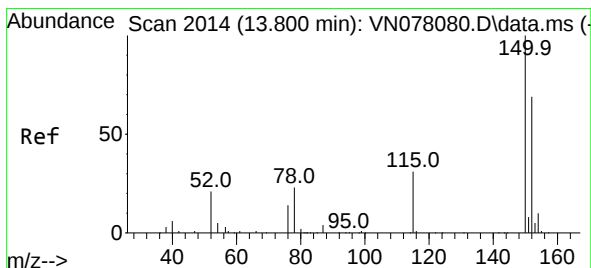
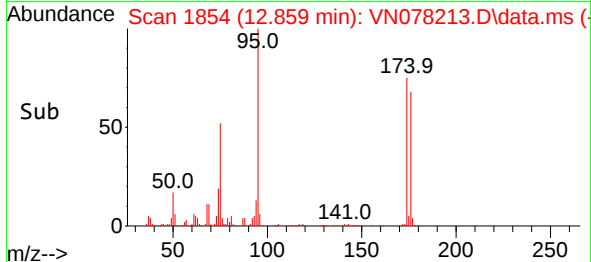
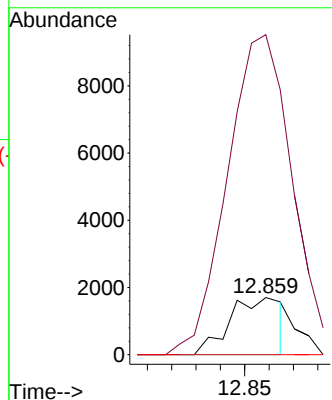
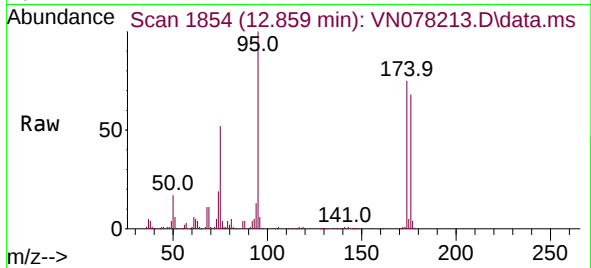




#71  
Bromoform  
Concen: 0.679 ug/l  
RT: 12.859 min Scan# 1808  
Delta R.T. 0.271 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

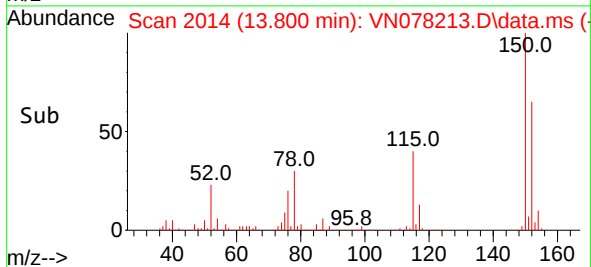
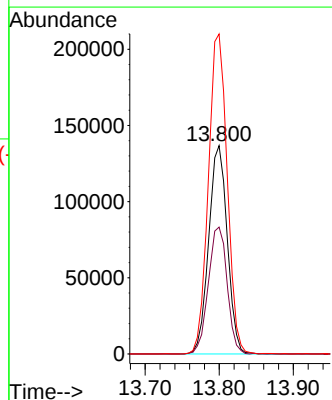
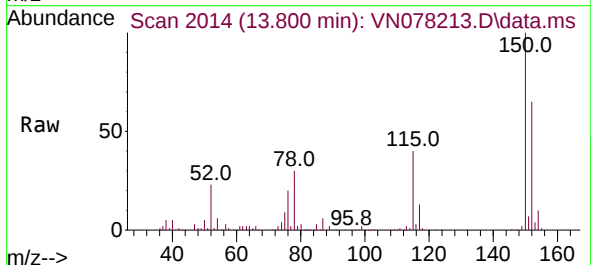
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-EVAL-02S-06132023

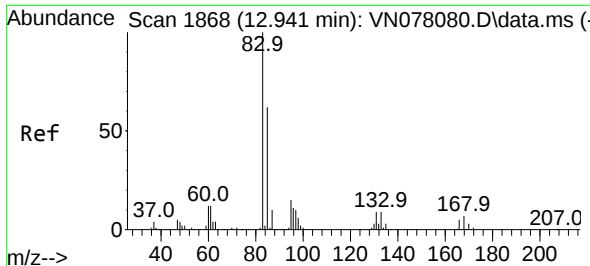
Tgt Ion:173 Resp: 2553  
Ion Ratio Lower Upper  
173 100  
175 572.9 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion:152 Resp: 238102  
Ion Ratio Lower Upper  
152 100  
115 61.6 32.3 96.8  
150 155.5 0.0 355.8

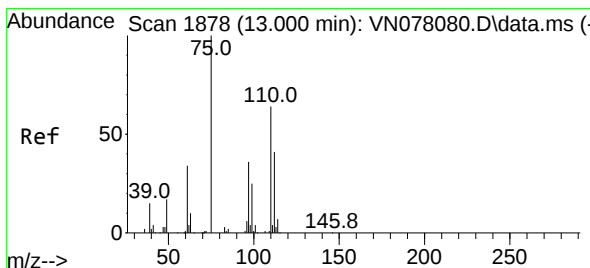
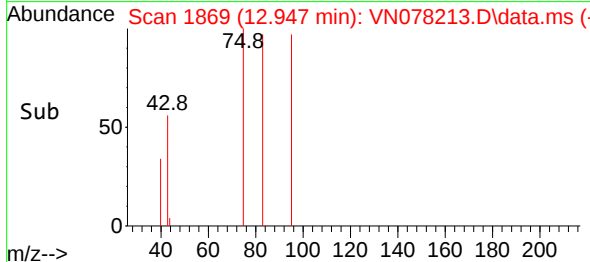
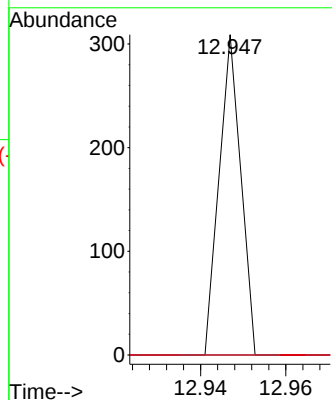
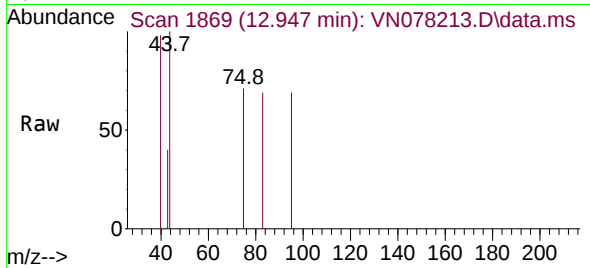




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.947 min Scan# 1869  
Delta R.T. 0.006 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

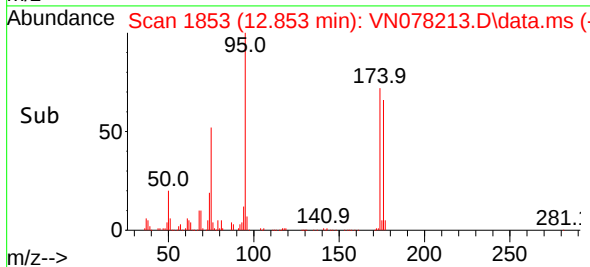
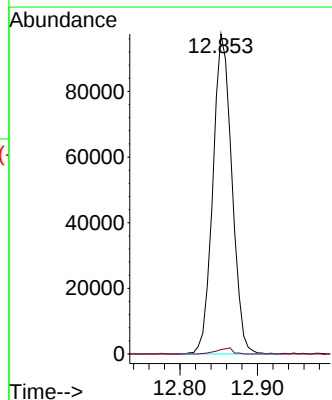
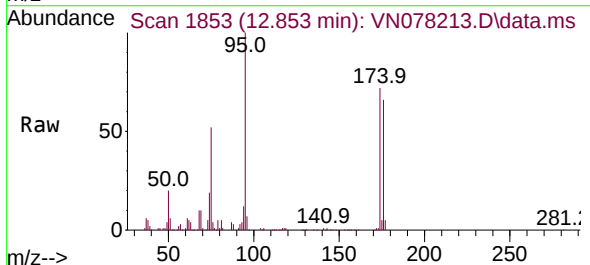
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ClientSampleId : FSND-MW-EVAL-02S-06132023

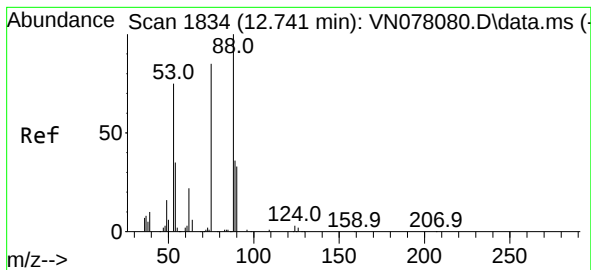
Tgt Ion: 83 Resp: 109  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.0 15.0#  
85 0.0 31.9 95.7#



#76  
1,2,3-Trichloropropane  
Concen: 29.452 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078213.D  
Acq: 14 Jun 2023 18:09

Tgt Ion: 75 Resp: 165780  
Ion Ratio Lower Upper  
75 100  
77 1.6 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 90.486 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN078213.D  
 Acq: 14 Jun 2023 18:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-EVAL-02S-06132023

Tgt Ion: 75 Resp: 165780  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.4 101.2#  
 89 0.0 38.8 58.2#

