

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110223\  
 Data File : VN079827.D  
 Acq On : 03 Nov 2023 05:57  
 Operator : JC\MD  
 Sample : 05222-12  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-30-20231101

Quant Time: Nov 03 07:46:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

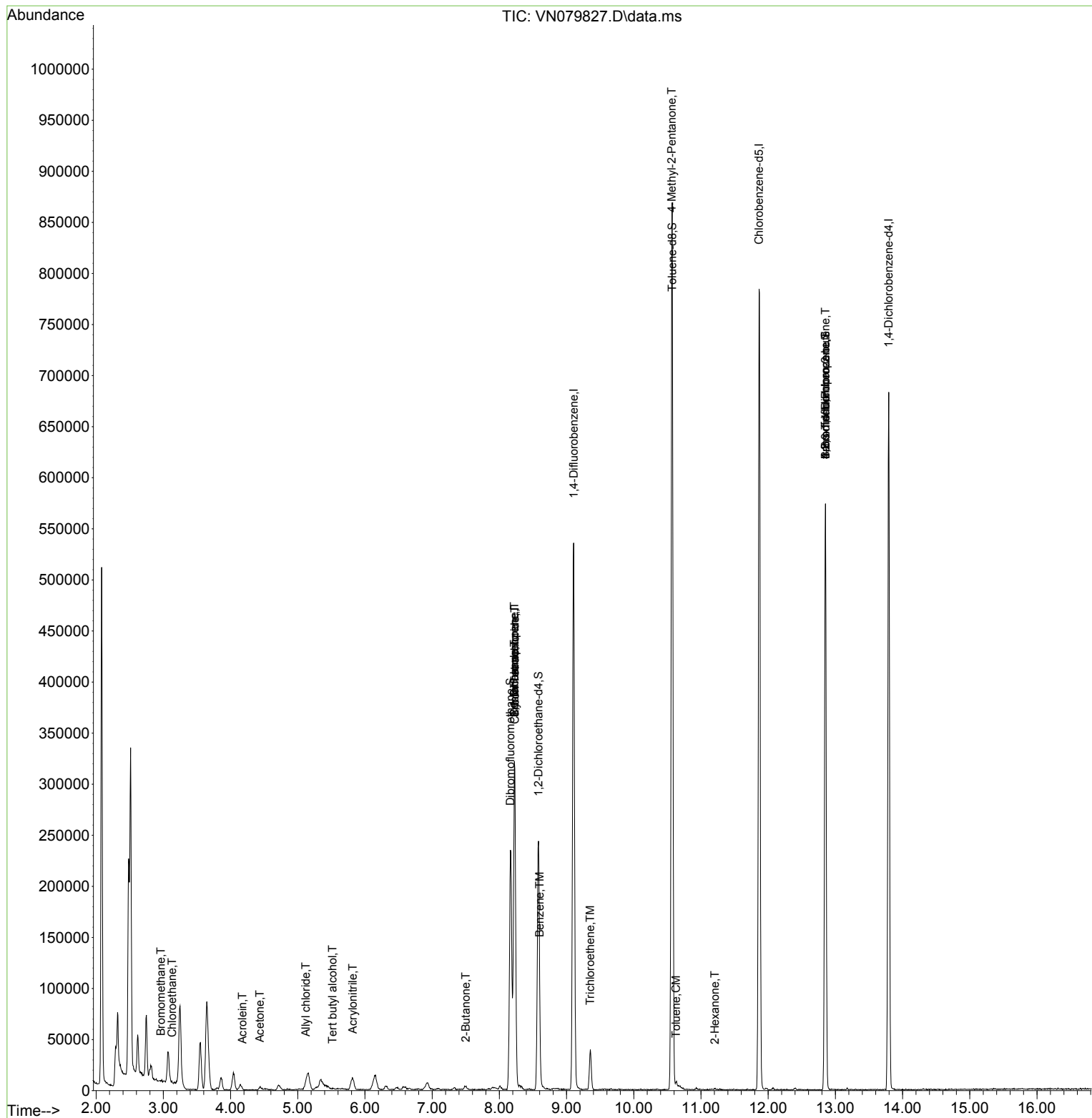
| Compound                      | R.T.           | QIon | Response            | Conc          | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------------|-------|----------|
| -----                         |                |      |                     |               |       |          |
| Internal Standards            |                |      |                     |               |       |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 226497              | 50.000        | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 435882              | 50.000        | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 446421              | 50.000        | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 177938              | 50.000        | ug/l  | 0.00     |
|                               |                |      |                     |               |       |          |
| System Monitoring Compounds   |                |      |                     |               |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 199267              | 57.746        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 115.500% |               |       |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 168498              | 54.619        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 109.240% |               |       |          |
| 50) Toluene-d8                | 10.571         | 98   | 579478              | 51.024        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 102.040% |               |       |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 193694              | 51.425        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 102.840% |               |       |          |
|                               |                |      |                     |               |       |          |
| Target Compounds              |                |      |                     |               |       | Qvalue   |
| 3) Chloromethane              | 2.359          | 50   | 1882                | Below Cal     |       | 98       |
| 5) Bromomethane               | 2.965          | 94   | 605                 | 0.279 ug/l #  |       | 63       |
| 6) Chloroethane               | 3.130          | 64   | 1055                | 0.374 ug/l #  |       | 43       |
| 11) Tert butyl alcohol        | 5.518          | 59   | 513                 | 1.165 ug/l #  |       | 72       |
| 13) Acrolein                  | 4.177          | 56   | 58                  | 2.719 ug/l #  |       | 16       |
| 14) Allyl chloride            | 5.118          | 41   | 2289                | 0.613 ug/l #  |       | 19       |
| 15) Acrylonitrile             | 5.818          | 53   | 624                 | 0.455 ug/l #  |       | 18       |
| 16) Acetone                   | 4.436          | 43   | 5032                | 4.151 ug/l #  |       | 78       |
| 25) 2-Butanone                | 7.500          | 43   | 4564                | 2.571 ug/l #  |       | 86       |
| 31) Cyclohexane               | 8.224          | 56   | 5779                | 1.267 ug/l #  |       | 47       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 20976               | 4.762 ug/l #  |       | 47       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 24727               | 5.570 ug/l #  |       | 18       |
| 40) Benzene                   | 8.600          | 78   | 3530                | 0.268 ug/l #  |       | 84       |
| 44) Trichloroethene           | 9.353          | 130  | 13851               | 4.231 ug/l    |       | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 3004                | 0.753 ug/l #  |       | 1        |
| 52) Toluene                   | 10.629         | 92   | 2599                | 0.332 ug/l    |       | 89       |
| 59) 2-Hexanone                | 11.206         | 43   | 671                 | 0.220 ug/l #  |       | 46       |
| 71) Bromoform                 | 12.853         | 173  | 2255                | 0.910 ug/l #  |       | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 107196              | 25.661 ug/l # |       | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 107196              | 69.816 ug/l # |       | 15       |
| -----                         |                |      |                     |               |       |          |

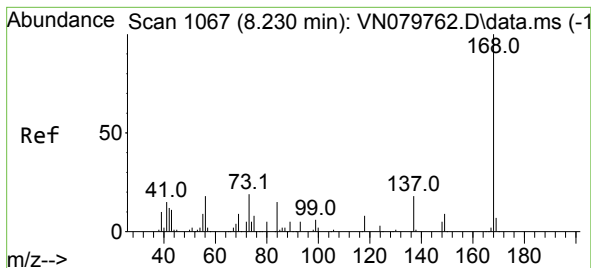
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Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN079827.D

Acq: 03 Nov 2023 05:57

Instrument :

MSVOA\_N

ClientSampleId :

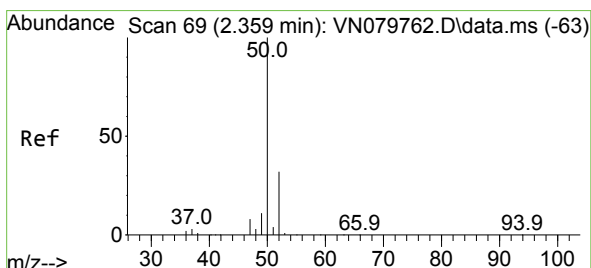
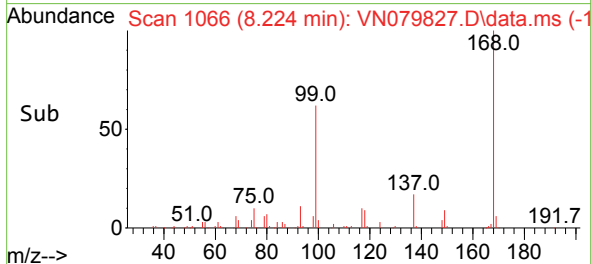
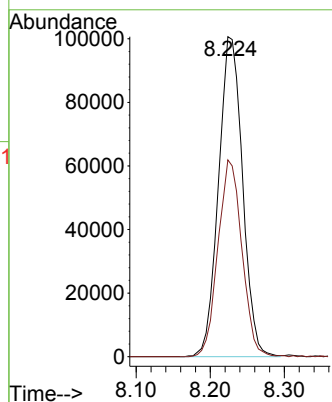
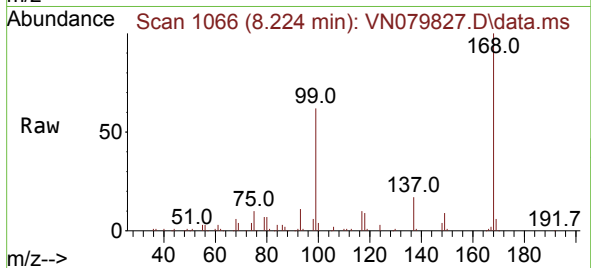
FSND-MW-30-20231101

Tgt Ion:168 Resp: 226497

Ion Ratio Lower Upper

168 100

99 61.5 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN079827.D

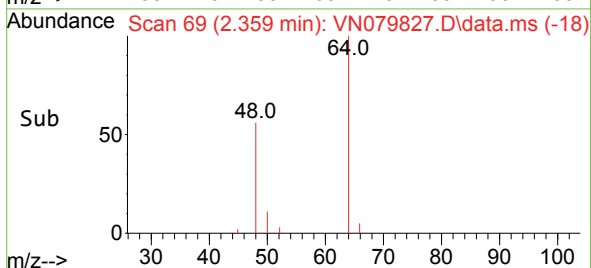
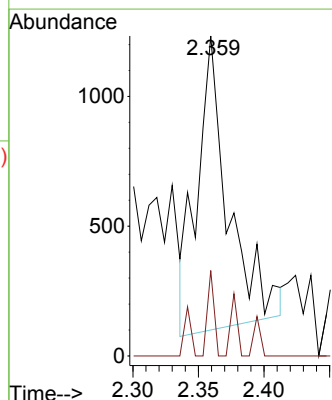
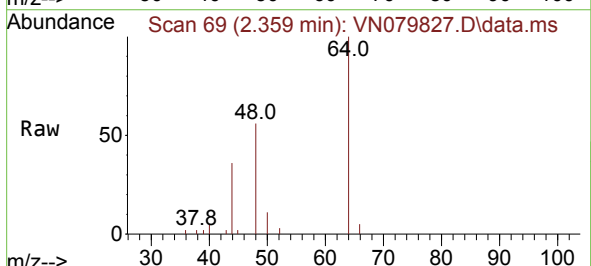
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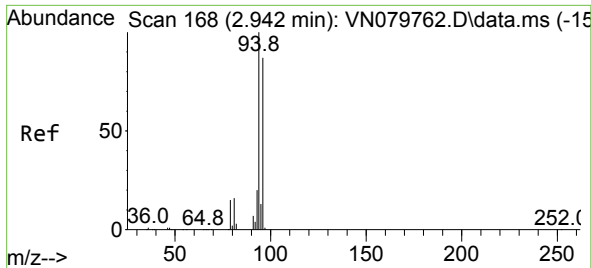
Tgt Ion: 50 Resp: 1882

Ion Ratio Lower Upper

50 100

52 34.0 26.5 39.7

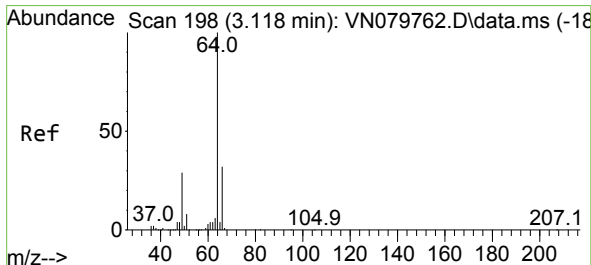
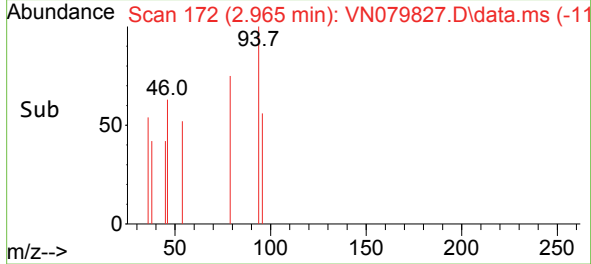
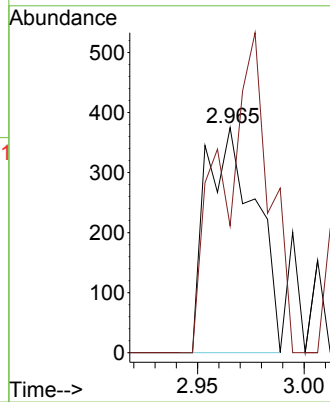
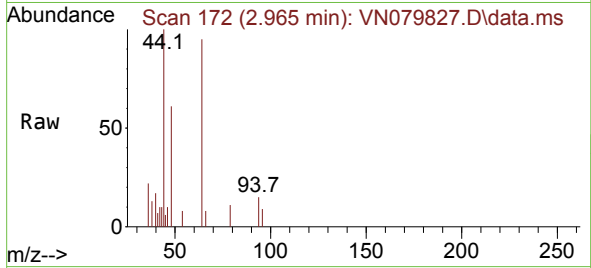




#5  
Bromomethane  
Concen: 0.279 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

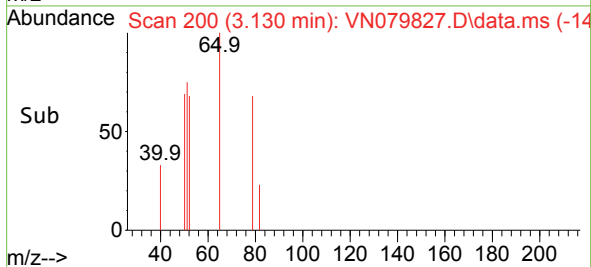
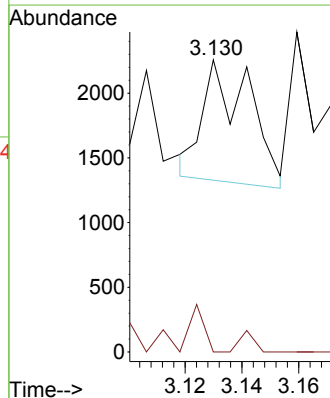
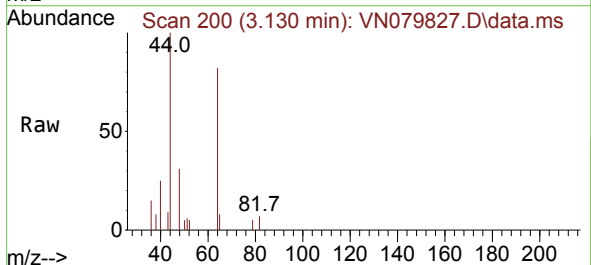
Instrument :  
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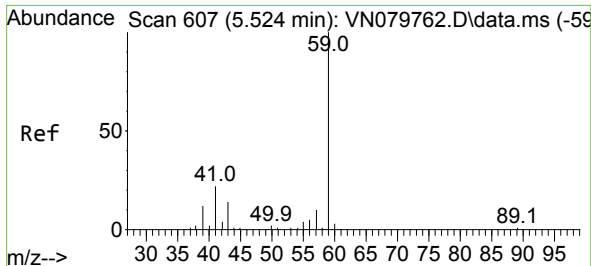
Tgt Ion: 94 Resp: 605  
Ion Ratio Lower Upper  
94 100  
96 56.3 73.1 109.7#



#6  
Chloroethane  
Concen: 0.374 ug/l  
RT: 3.130 min Scan# 200  
Delta R.T. 0.012 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion: 64 Resp: 1055  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#

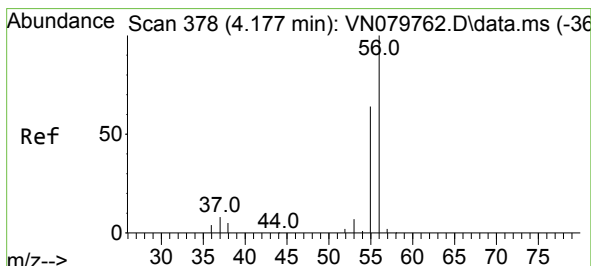
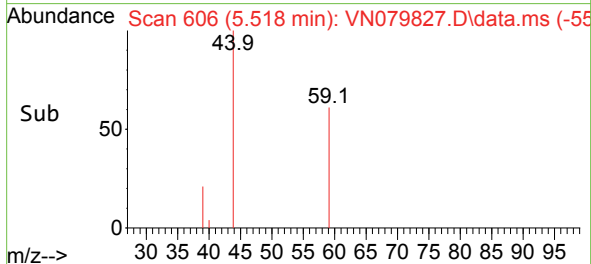
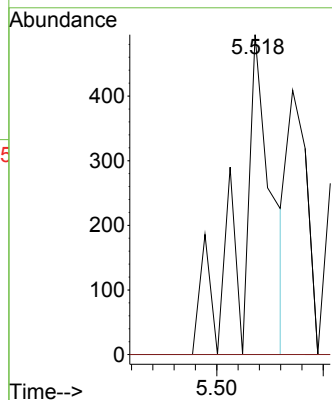
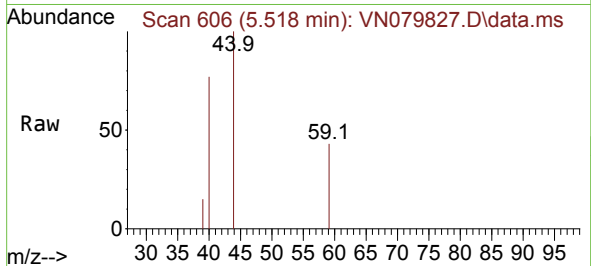




#11  
Tert butyl alcohol  
Concen: 1.165 ug/l  
RT: 5.518 min Scan# 607  
Delta R.T. 0.000 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

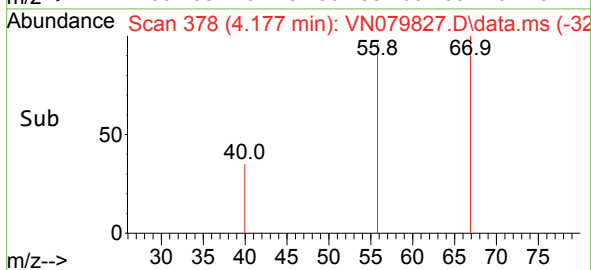
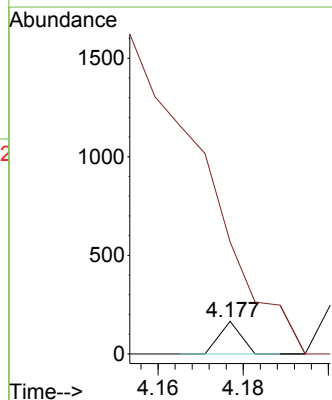
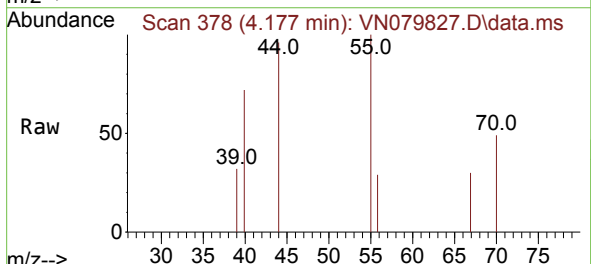
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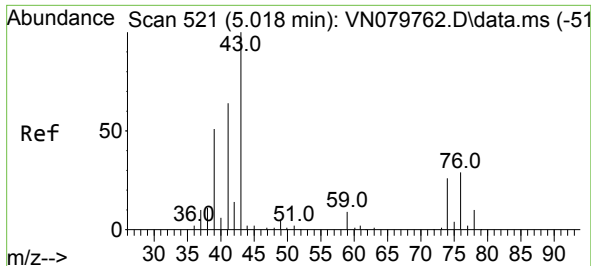
Tgt Ion: 59 Resp: 513  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#13  
Acrolein  
Concen: 2.719 ug/l  
RT: 4.177 min Scan# 378  
Delta R.T. -0.006 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion: 56 Resp: 58  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#

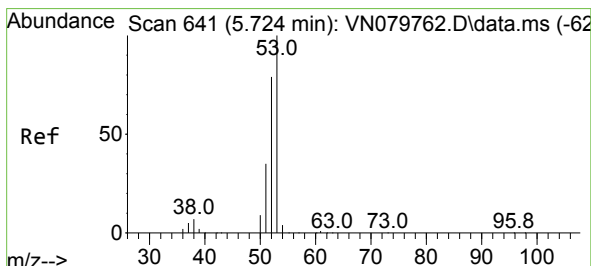
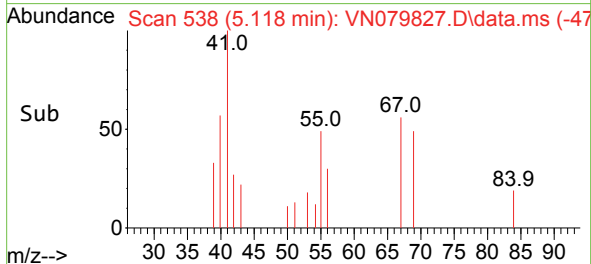
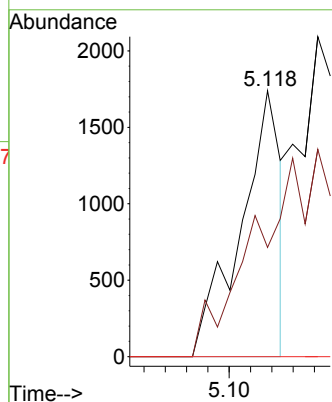
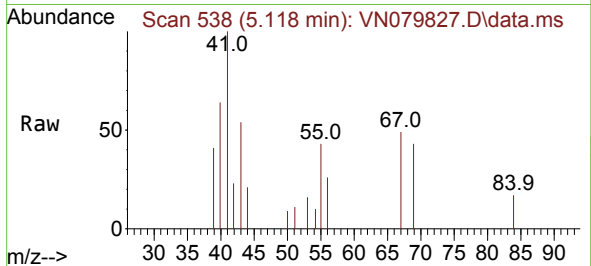




#14  
Allyl chloride  
Concen: 0.613 ug/l  
RT: 5.118 min Scan# 51  
Delta R.T. 0.094 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

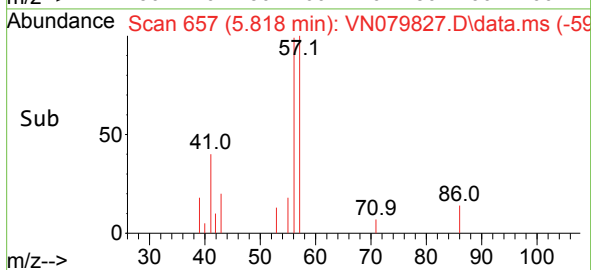
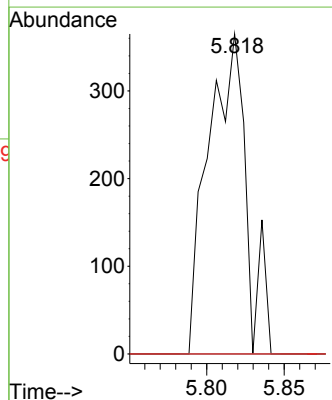
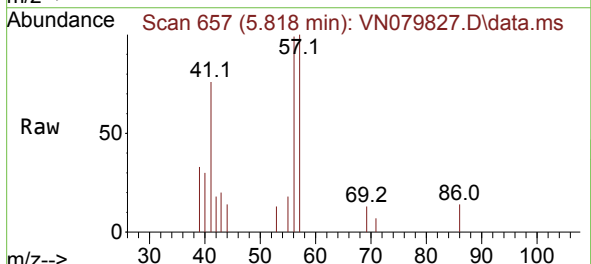
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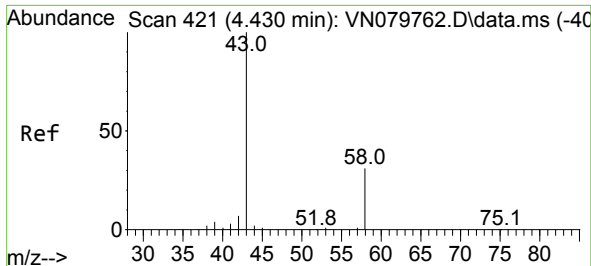
Tgt Ion: 41 Resp: 2289  
Ion Ratio Lower Upper  
41 100  
39 0.0 58.8 88.2#  
76 0.0 39.1 58.7#



#15  
Acrylonitrile  
Concen: 0.455 ug/l  
RT: 5.818 min Scan# 657  
Delta R.T. 0.094 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion: 53 Resp: 624  
Ion Ratio Lower Upper  
53 100  
52 0.0 65.3 97.9#  
51 0.0 28.9 43.3#

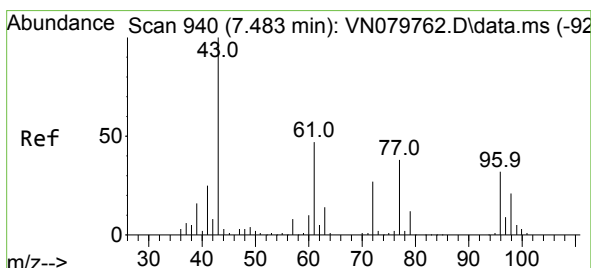
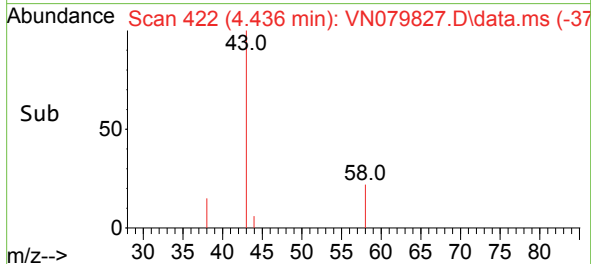
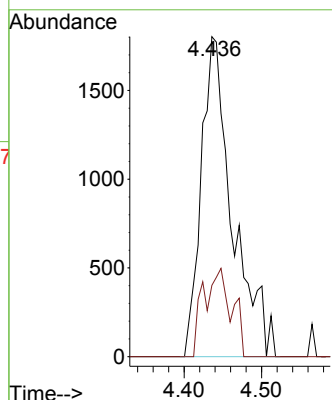
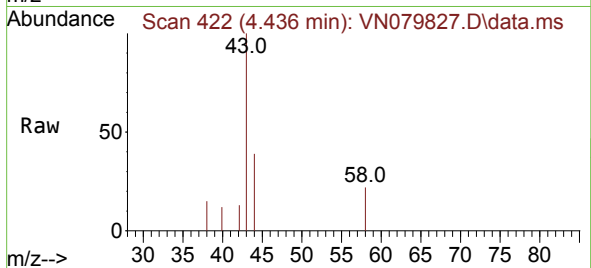




#16  
Acetone  
Concen: 4.151 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

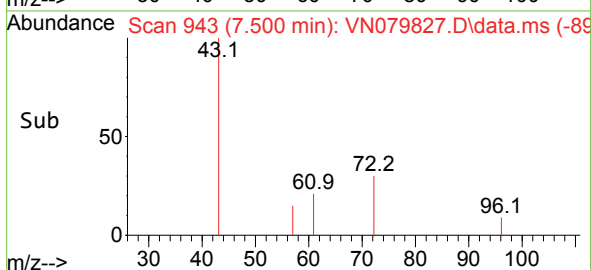
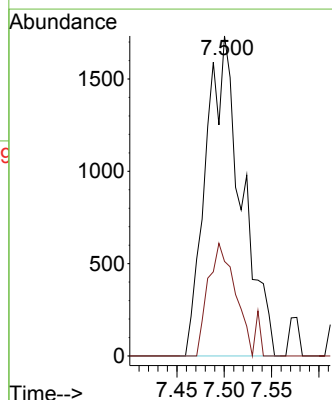
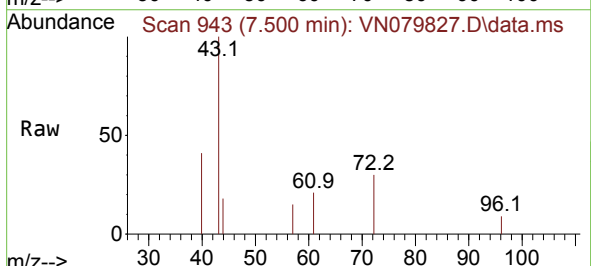
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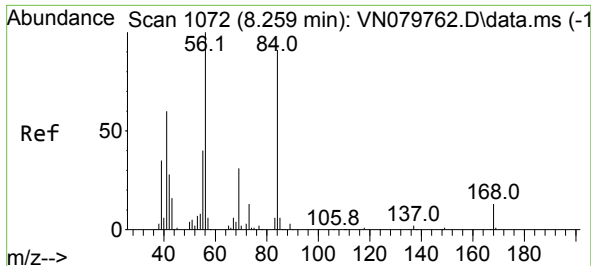
Tgt Ion: 43 Resp: 5032  
Ion Ratio Lower Upper  
43 100  
58 22.3 28.0 42.0#



#25  
2-Butanone  
Concen: 2.571 ug/l  
RT: 7.500 min Scan# 943  
Delta R.T. 0.012 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

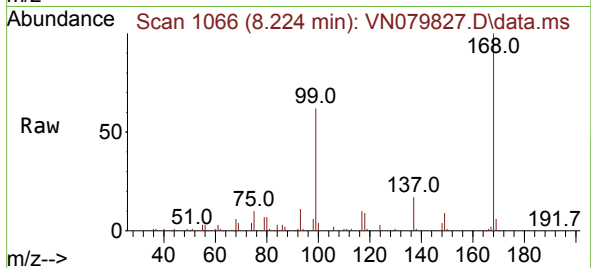
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Ion Ratio Lower Upper  
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72 29.5 30.2 45.2#



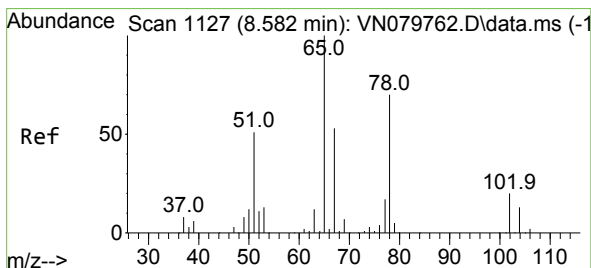
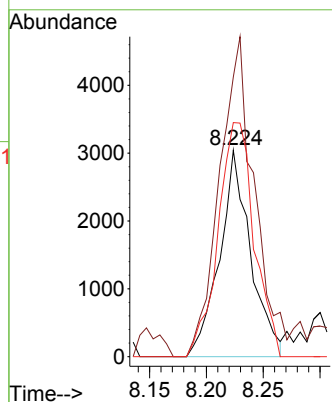
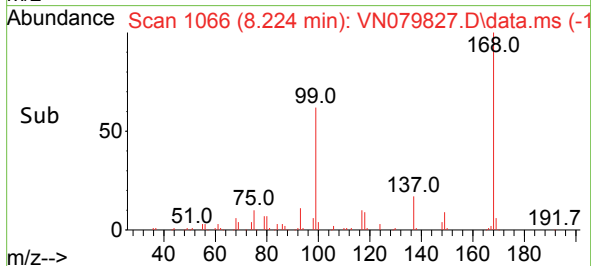


#31  
Cyclohexane  
Concen: 1.267 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-30-20231101

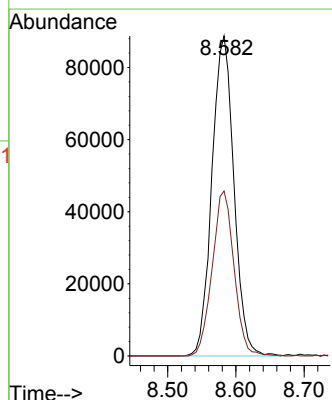
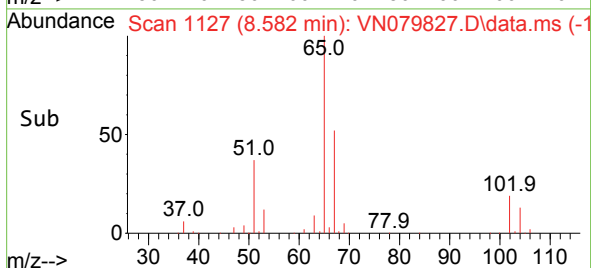
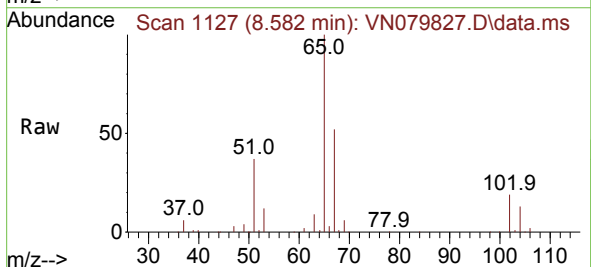


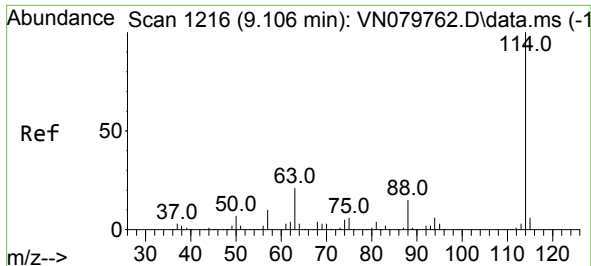
Tgt Ion: 56 Resp: 5779  
Ion Ratio Lower Upper  
56 100  
69 135.5 26.8 40.2#  
84 113.4 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 57.746 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion: 65 Resp: 199267  
Ion Ratio Lower Upper  
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67 51.1 0.0 106.6

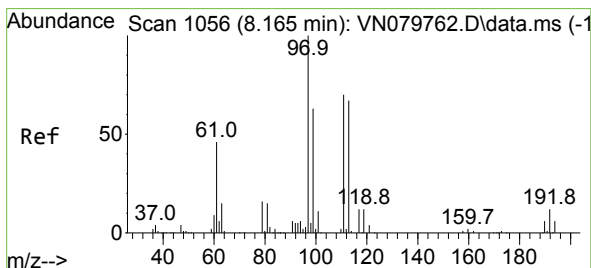
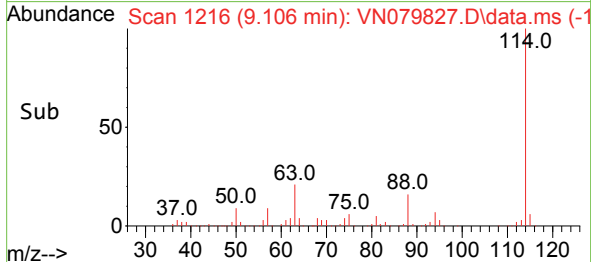
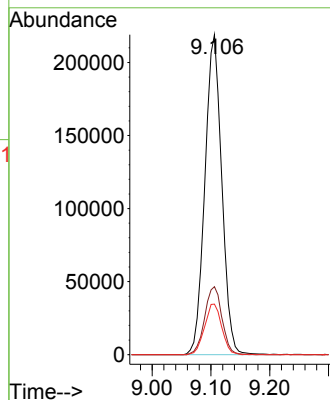
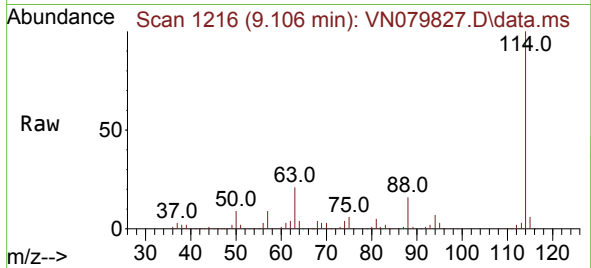




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

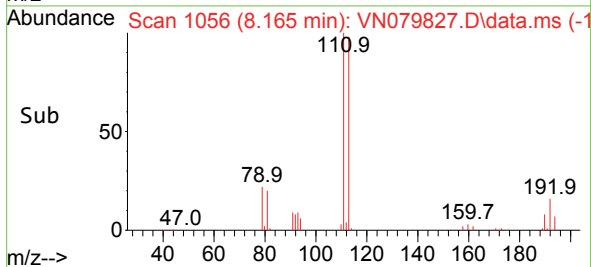
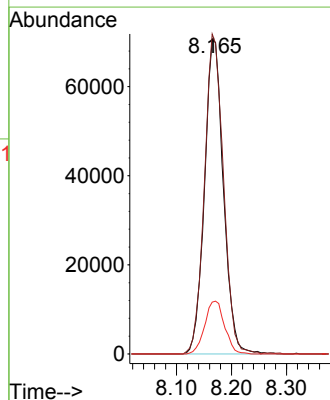
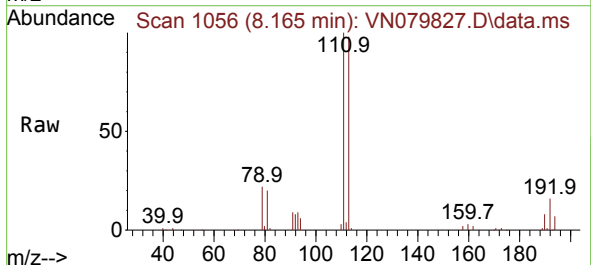
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-30-20231101

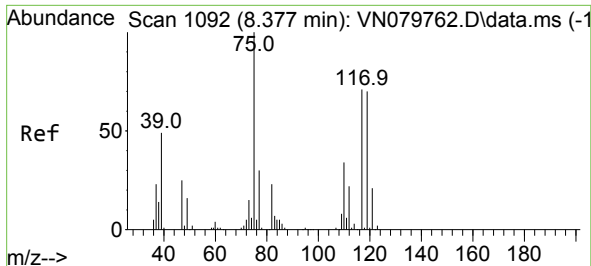
Tgt Ion:114 Resp: 435882  
Ion Ratio Lower Upper  
114 100  
63 21.3 0.0 36.4  
88 15.8 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 54.619 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.006 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion:113 Resp: 168498  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.6 123.8  
192 17.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.762 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079827.D

Acq: 03 Nov 2023 05:57

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-30-20231101

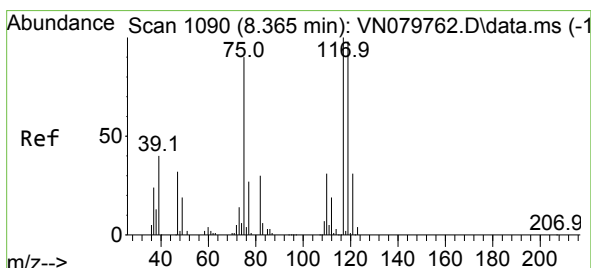
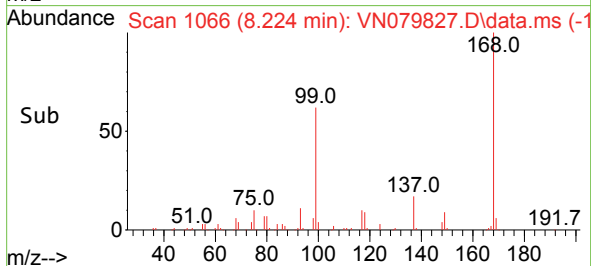
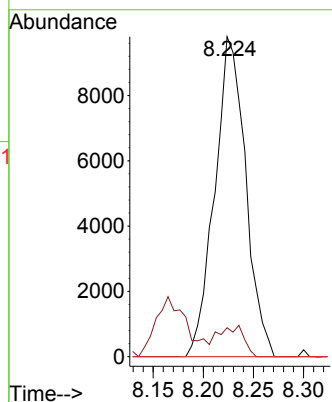
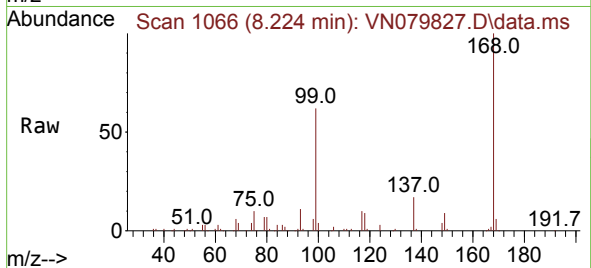
Tgt Ion: 75 Resp: 20976

Ion Ratio Lower Upper

75 100

110 7.9 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.570 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN079827.D

Acq: 03 Nov 2023 05:57

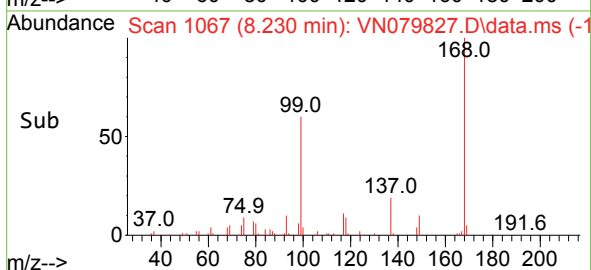
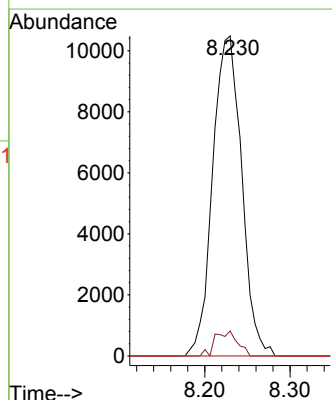
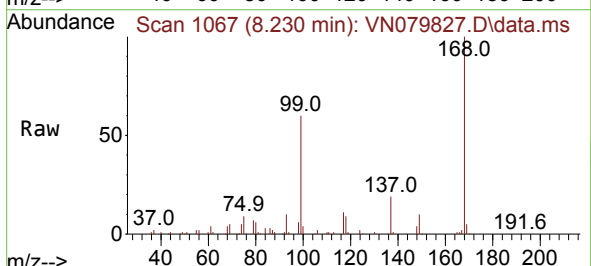
Tgt Ion: 117 Resp: 24727

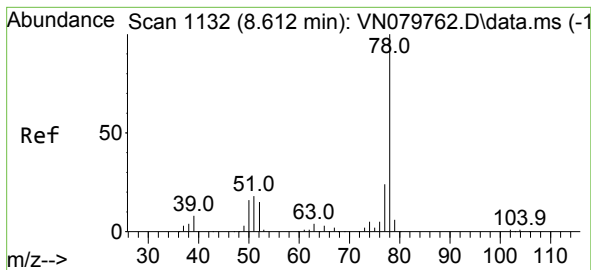
Ion Ratio Lower Upper

117 100

119 7.8 77.3 115.9#

121 0.0 23.3 34.9#





#40

Benzene

Concen: 0.268 ug/l

RT: 8.600 min Scan# 1132

Delta R.T. -0.012 min

Lab File: VN079827.D

Acq: 03 Nov 2023 05:57

Instrument :

MSVOA\_N

ClientSampleId :

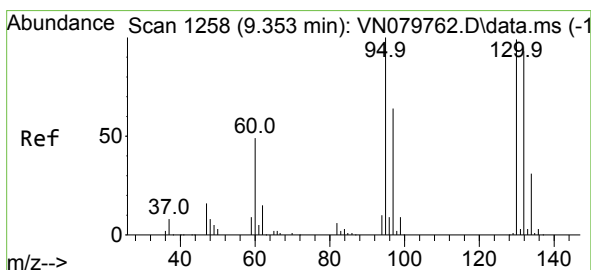
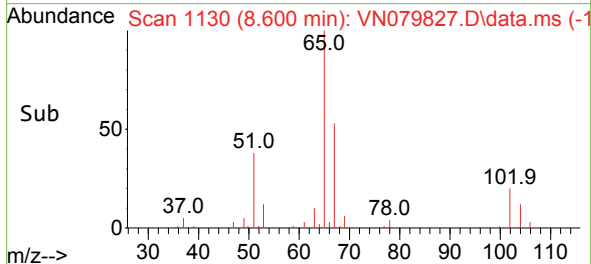
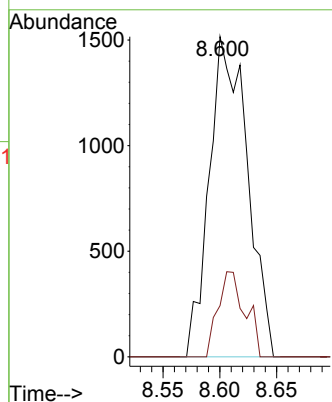
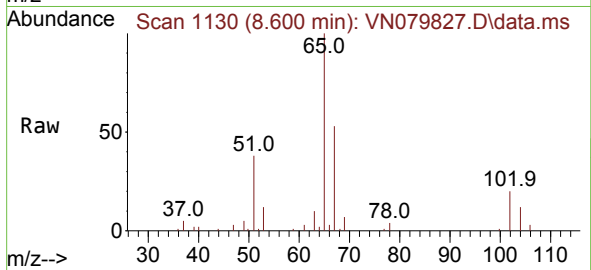
FSND-MW-30-20231101

Tgt Ion: 78 Resp: 3530

Ion Ratio Lower Upper

78 100

77 16.0 19.0 28.6#



#44

Trichloroethene

Concen: 4.231 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN079827.D

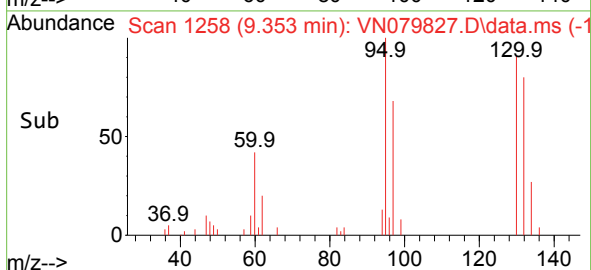
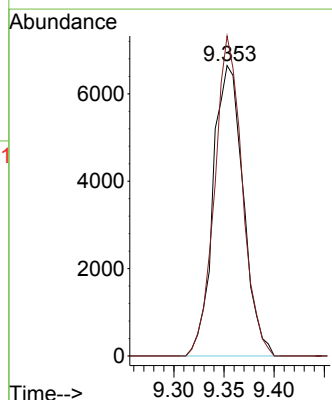
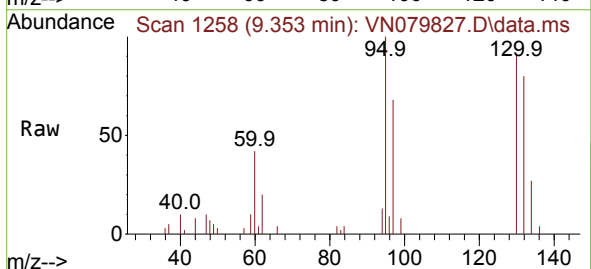
Acq: 03 Nov 2023 05:57

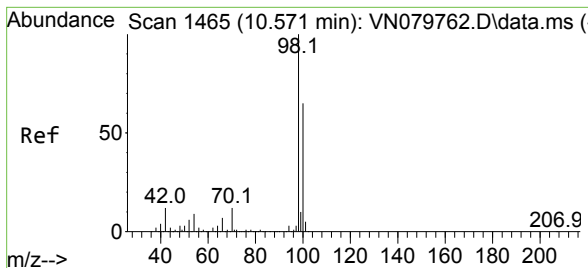
Tgt Ion:130 Resp: 13851

Ion Ratio Lower Upper

130 100

95 110.2 0.0 204.6





#50

Toluene-d8

Concen: 51.024 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079827.D

Acq: 03 Nov 2023 05:57

Instrument :

MSVOA\_N

ClientSampleId :

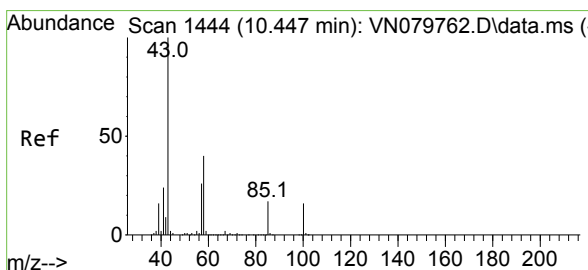
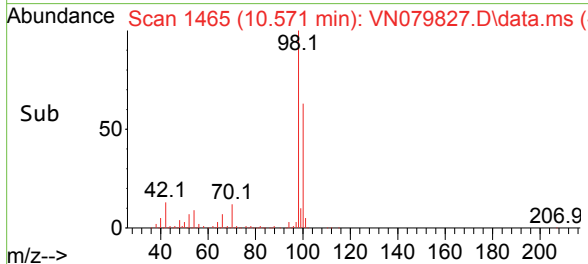
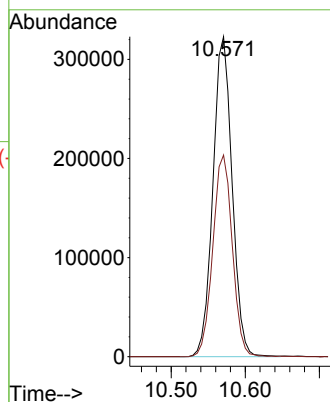
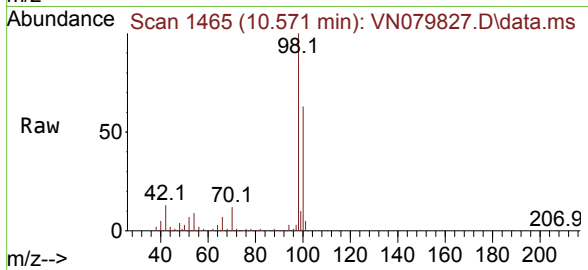
FSND-MW-30-20231101

Tgt Ion: 98 Resp: 579478

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.753 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.118 min

Lab File: VN079827.D

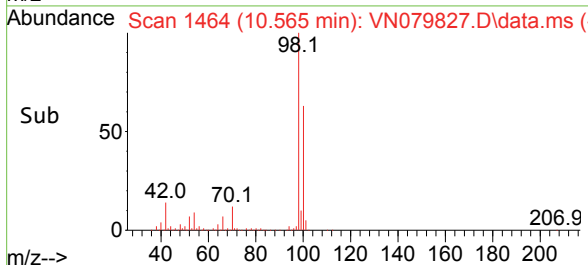
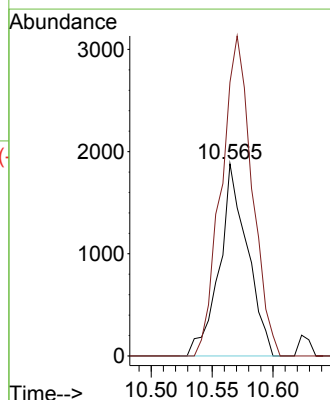
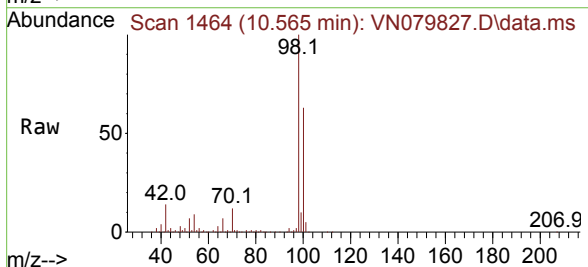
Acq: 03 Nov 2023 05:57

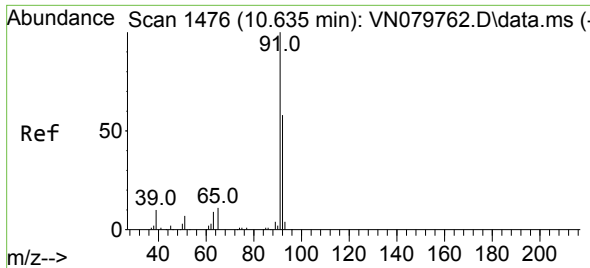
Tgt Ion: 43 Resp: 3004

Ion Ratio Lower Upper

43 100

58 183.6 36.6 54.8#

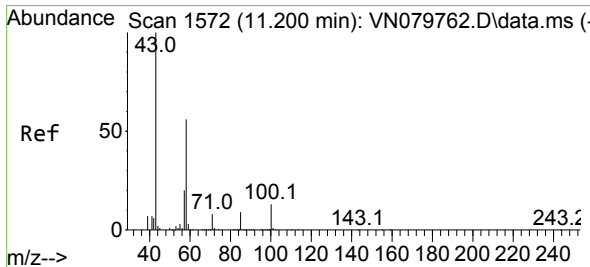
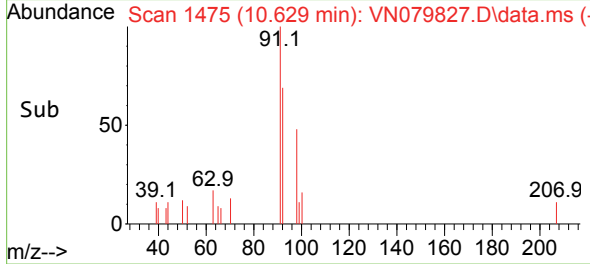
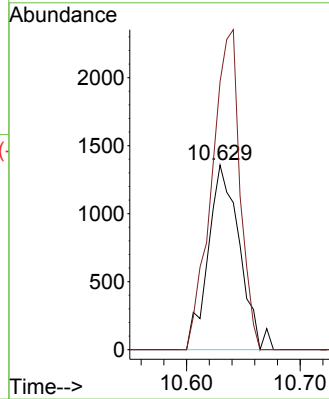
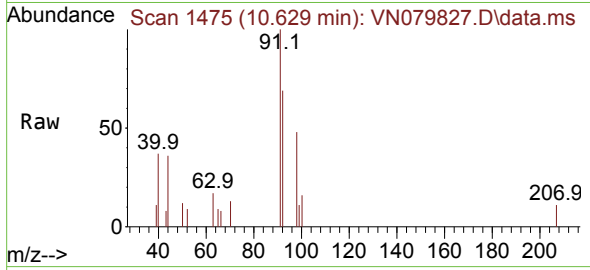




#52  
Toluene  
Concen: 0.332 ug/l  
RT: 10.629 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

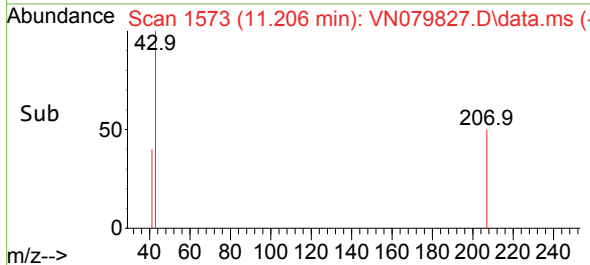
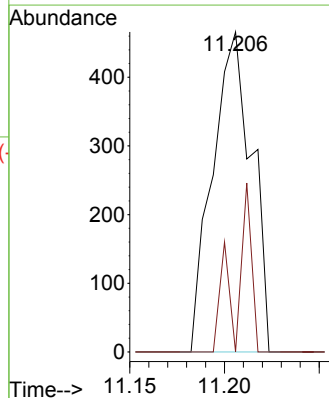
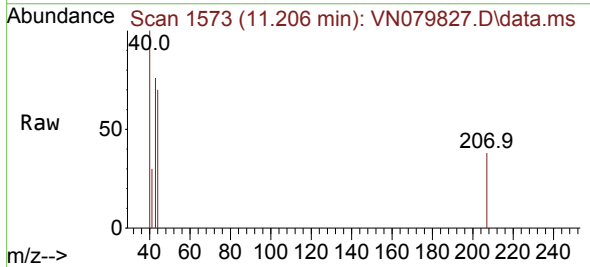
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-30-20231101

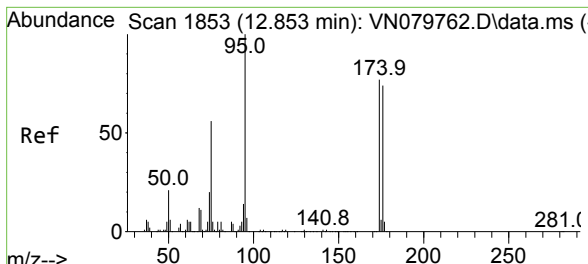
Tgt Ion: 92 Resp: 2599  
Ion Ratio Lower Upper  
92 100  
91 156.7 137.4 206.0



#59  
2-Hexanone  
Concen: 0.220 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.006 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion: 43 Resp: 671  
Ion Ratio Lower Upper  
43 100  
58 21.3 31.7 95.1#

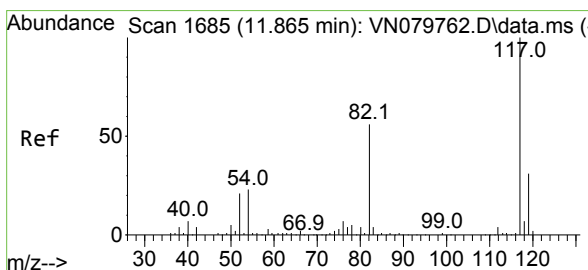
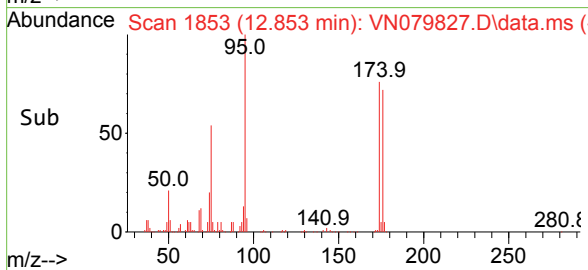
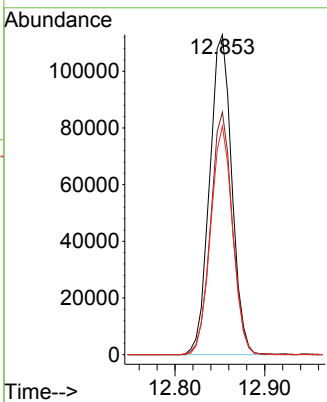
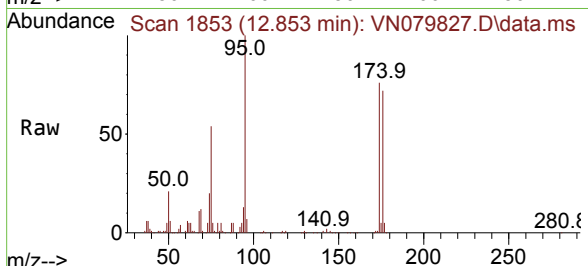




#62  
 4-Bromofluorobenzene  
 Concen: 51.425 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. 0.000 min  
 Lab File: VN079827.D  
 Acq: 03 Nov 2023 05:57

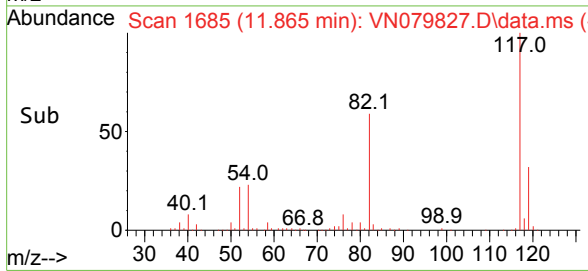
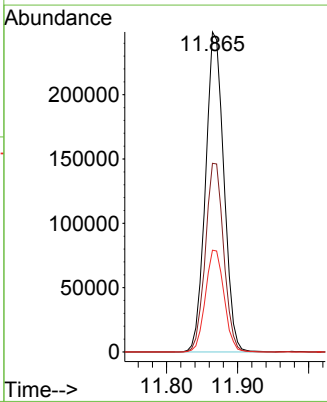
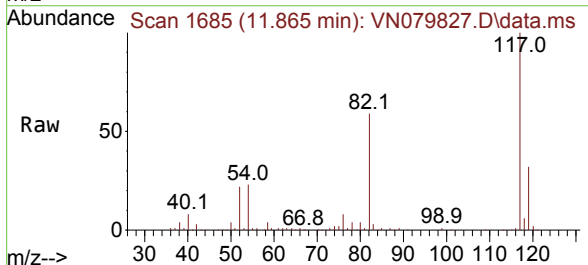
Instrument : MSVOA\_N  
 ClientSampleId : FSND-MW-30-20231101

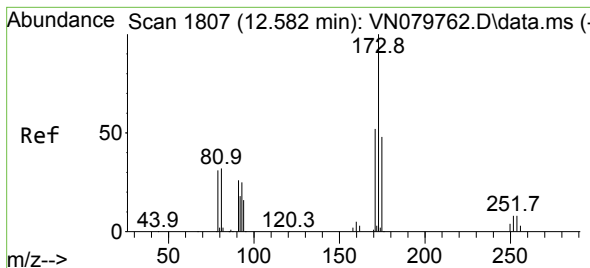
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 193694 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 74.5  | 0.0   | 143.8  |
| 176       | 70.6  | 0.0   | 135.8  |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.865 min Scan# 1685  
 Delta R.T. -0.006 min  
 Lab File: VN079827.D  
 Acq: 03 Nov 2023 05:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 446421 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 58.9  | 44.0  | 66.0   |
| 119       | 31.8  | 25.6  | 38.4   |





#71

Bromoform

Concen: 0.910 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079827.D

Acq: 03 Nov 2023 05:57

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-30-20231101

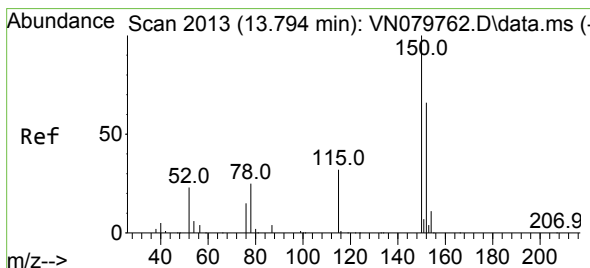
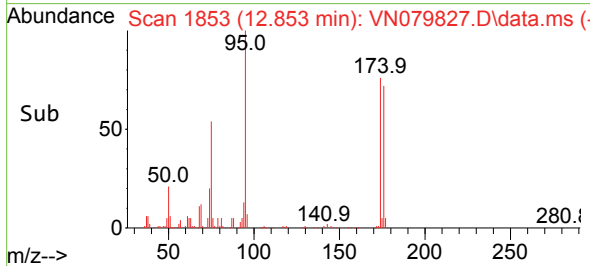
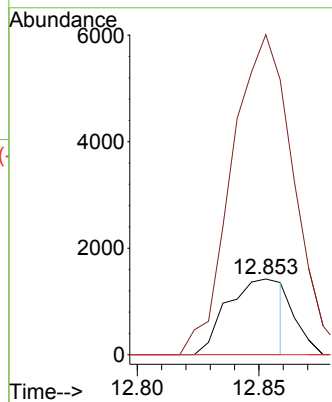
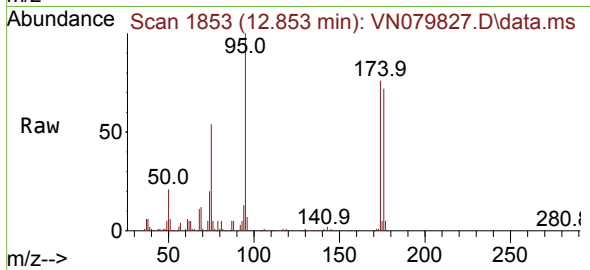
Tgt Ion:173 Resp: 2255

Ion Ratio Lower Upper

173 100

175 382.2 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: VN079827.D

Acq: 03 Nov 2023 05:57

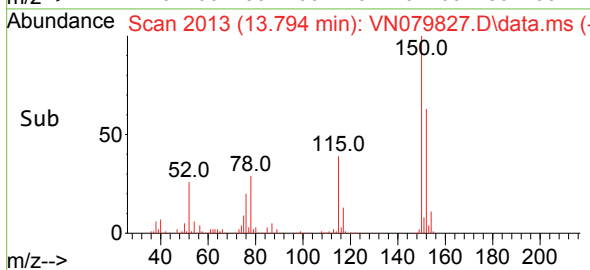
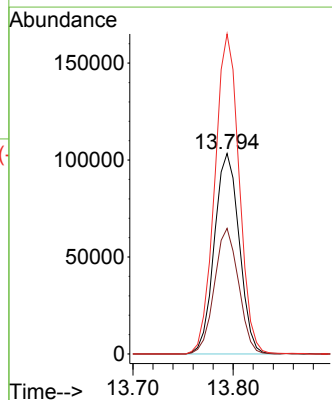
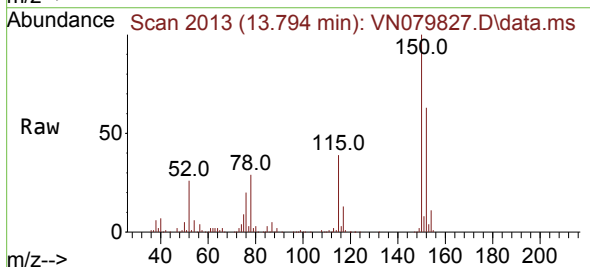
Tgt Ion:152 Resp: 177938

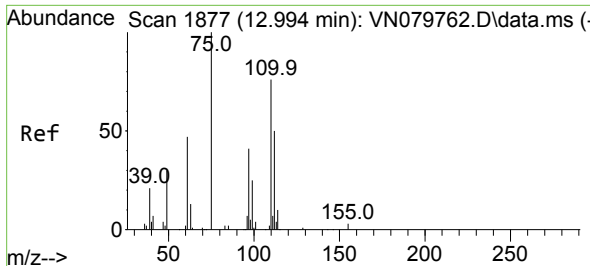
Ion Ratio Lower Upper

152 100

115 60.9 32.3 96.8

150 156.6 0.0 355.8

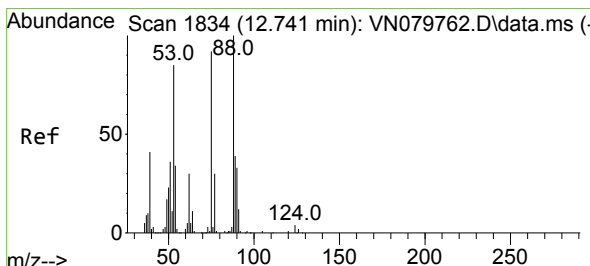
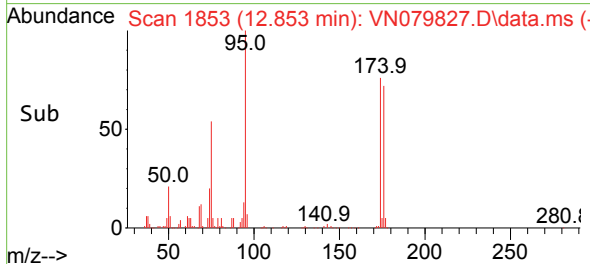
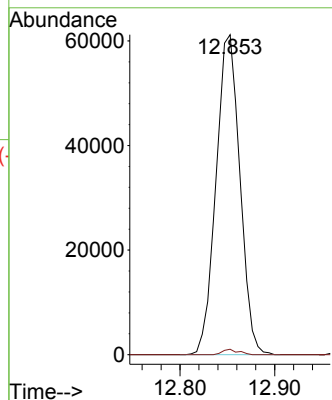
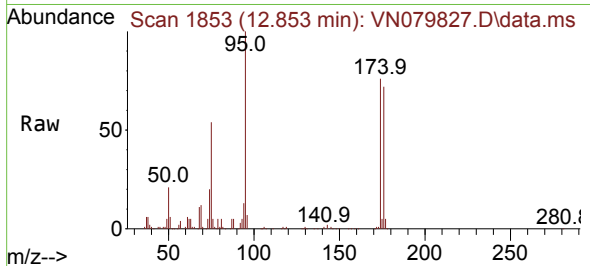




#76  
1,2,3-Trichloropropane  
Concen: 25.661 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-30-20231101

Tgt Ion: 75 Resp: 107196  
Ion Ratio Lower Upper  
75 100  
77 1.1 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.816 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.118 min  
Lab File: VN079827.D  
Acq: 03 Nov 2023 05:57

Tgt Ion: 75 Resp: 107196  
Ion Ratio Lower Upper  
75 100  
53 0.1 67.4 101.2#  
89 0.0 38.8 58.2#

