

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011223\  
 Data File : VN076223.D  
 Acq On : 12 Jan 2023 12:15  
 Operator : JC\MD  
 Sample : 01126-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-01-011023

Quant Time: Jan 13 01:56:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

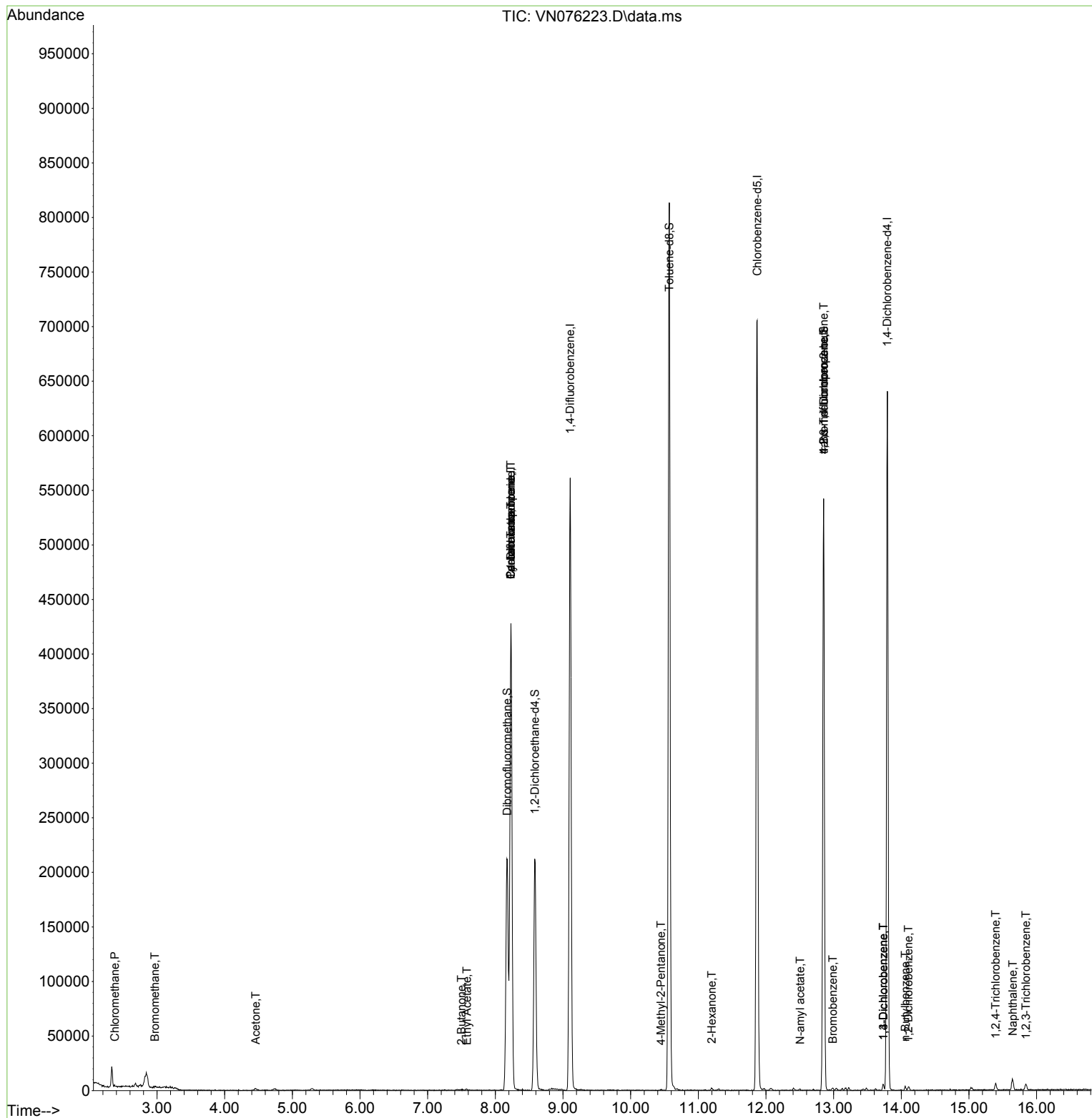
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 331957     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 517572     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 441937     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 179858     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 173243     | 47.971    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 95.940%   |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 157579     | 49.163    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 98.320%   |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 591323     | 49.342    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 98.680%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 179913     | 45.327    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 90.660%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.377          | 50   | 616        | 0.210     | ug/l # | 40       |
| 5) Bromomethane               | 2.971          | 94   | 595        | 0.200     | ug/l # | 61       |
| 16) Acetone                   | 4.459          | 43   | 2527       | 2.030     | ug/l # | 65       |
| 20) Methylene Chloride        | 5.283          | 84   | 1257       | Below Cal | #      | 79       |
| 25) 2-Butanone                | 7.500          | 43   | 1645       | 0.944     | ug/l   | 96       |
| 31) Cyclohexane               | 8.230          | 56   | 6223       | 1.203     | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 23400      | 5.496     | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.583          | 43   | 1401       | 0.410     | ug/l # | 65       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 32729      | 6.868     | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 816        | 0.239     | ug/l # | 32       |
| 59) 2-Hexanone                | 11.200         | 43   | 1894       | 0.761     | ug/l   | 77       |
| 74) N-amyl acetate            | 12.506         | 43   | 789        | 0.207     | ug/l # | 77       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 93619      | 25.822    | ug/l # | 1        |
| 77) Bromobenzene              | 12.988         | 156  | 801        | 0.244     | ug/l   | 69       |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 93619      | 92.948    | ug/l # | 12       |
| 87) 1,3-Dichlorobenzene       | 13.735         | 146  | 2024       | 0.333     | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.735         | 146  | 2024       | 0.326     | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.059         | 91   | 2609       | 0.292     | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 14.106         | 146  | 1877       | 0.314     | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.394         | 180  | 2478       | 0.836     | ug/l   | 97       |
| 95) Naphthalene               | 15.647         | 128  | 10379      | 3.192     | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841         | 180  | 2858       | 1.032     | ug/l   | 94       |
| -----                         |                |      |            |           |        |          |

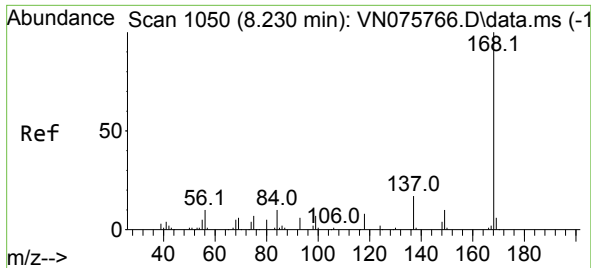
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 14 13:03:41 2022  
Response via : Initial Calibration

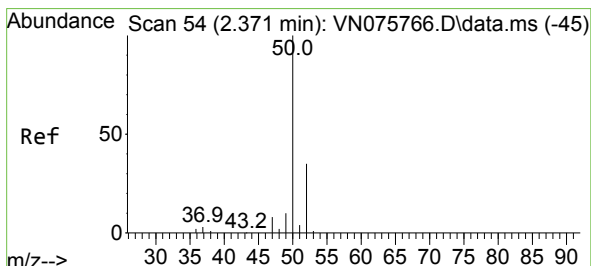
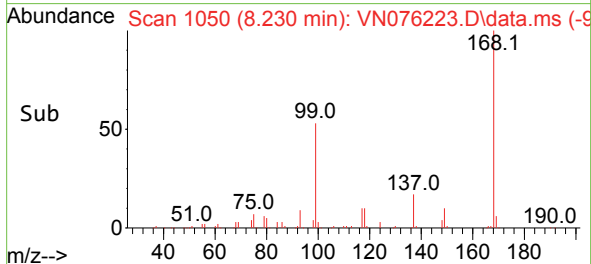
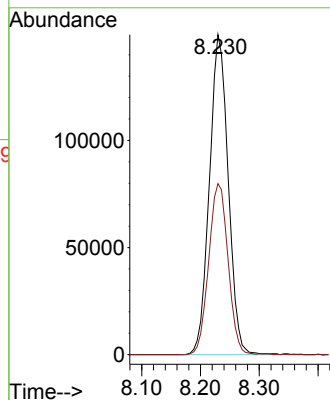
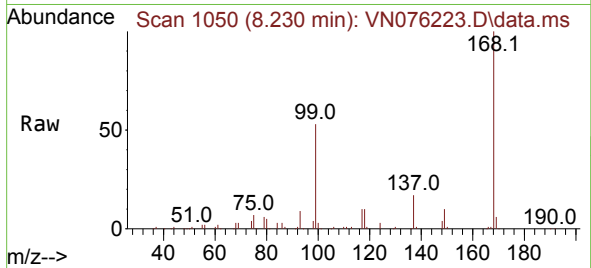




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

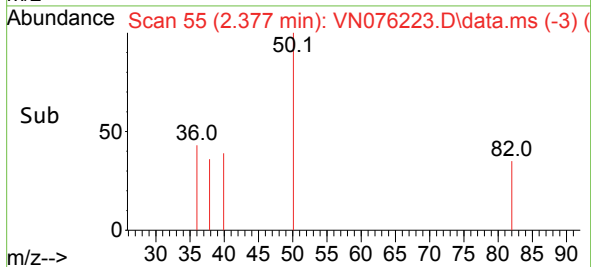
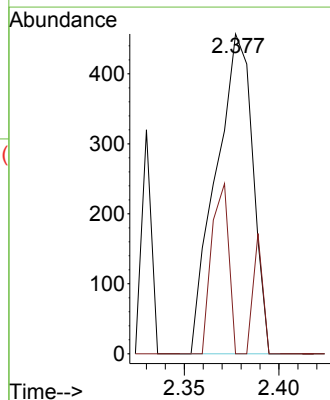
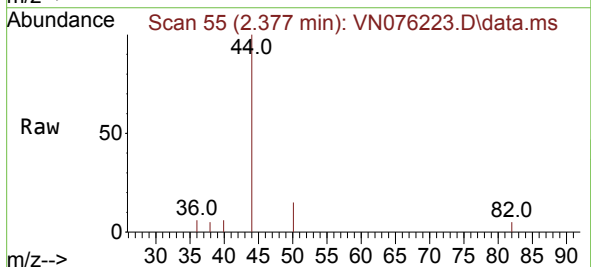
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

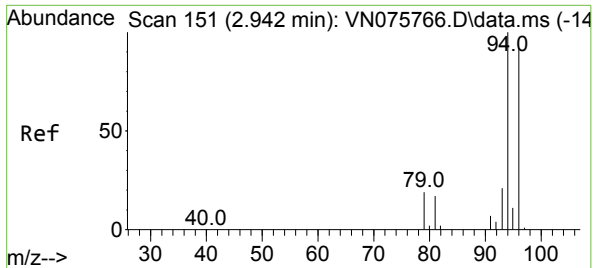
Tgt Ion:168 Resp: 331957  
Ion Ratio Lower Upper  
168 100  
99 53.4 44.2 66.4



#3  
Chloromethane  
Concen: 0.210 ug/l  
RT: 2.377 min Scan# 55  
Delta R.T. 0.006 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 50 Resp: 616  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.7 41.5#

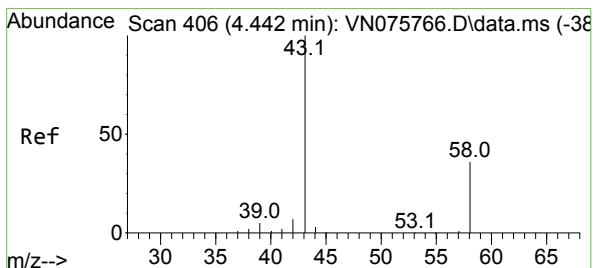
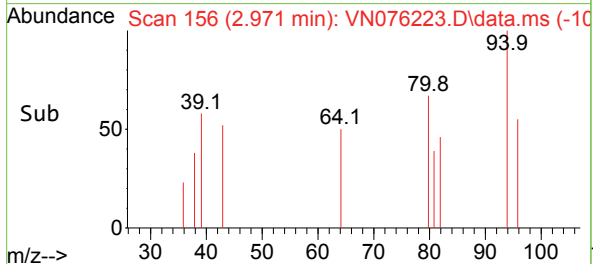
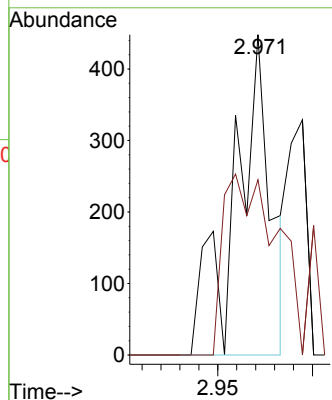
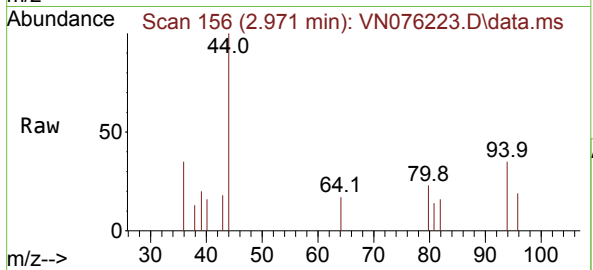




#5  
Bromomethane  
Concen: 0.200 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

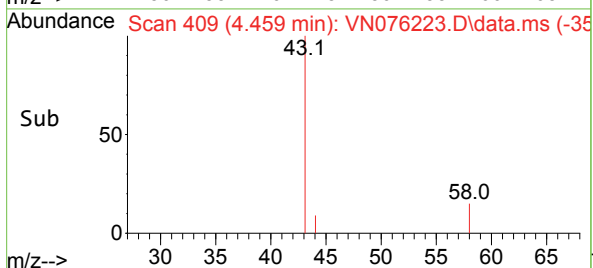
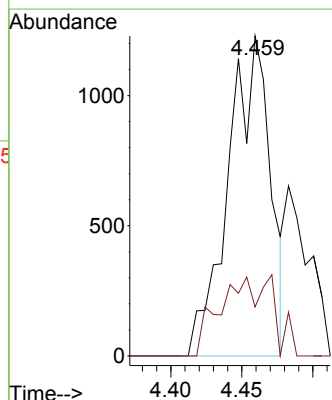
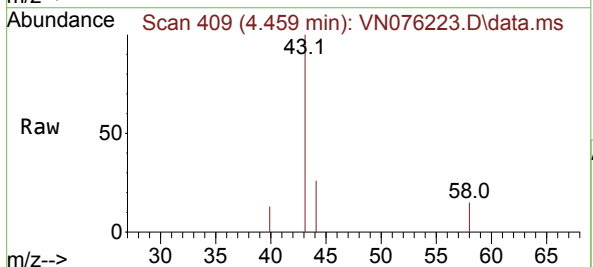
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

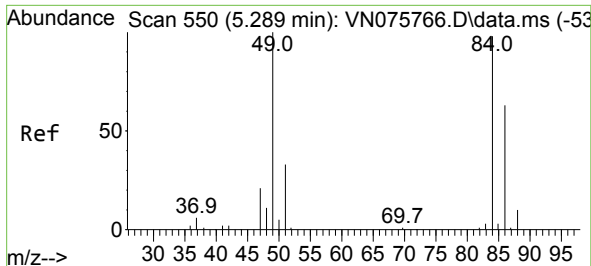
Tgt Ion: 94 Resp: 595  
Ion Ratio Lower Upper  
94 100  
96 54.7 73.8 110.6#



#16  
Acetone  
Concen: 2.030 ug/l  
RT: 4.459 min Scan# 409  
Delta R.T. 0.018 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

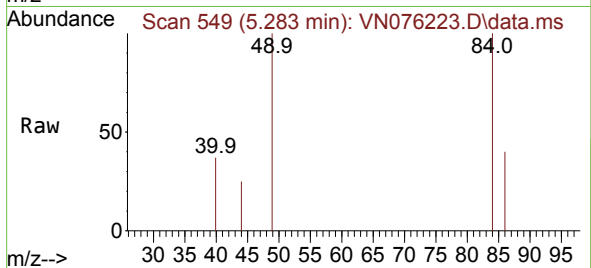
Tgt Ion: 43 Resp: 2527  
Ion Ratio Lower Upper  
43 100  
58 15.3 28.6 43.0#



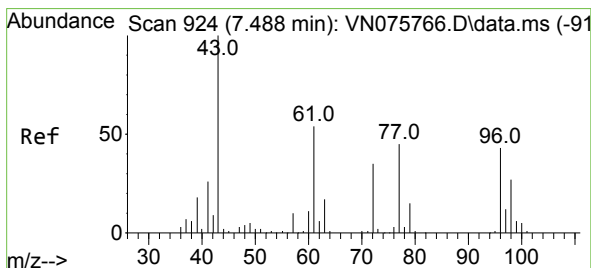
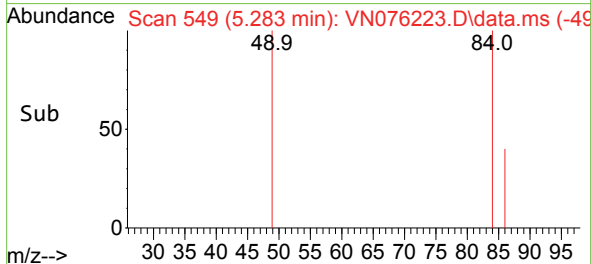
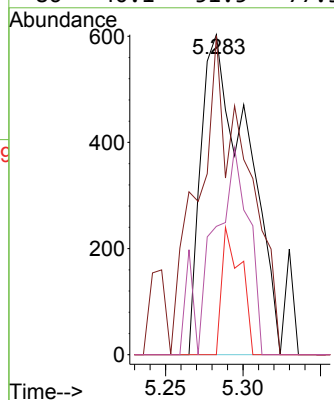


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.283 min Scan# 549  
Delta R.T. -0.006 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

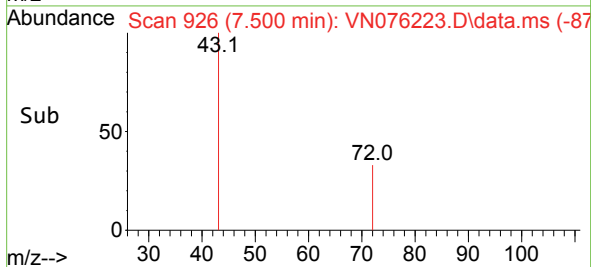
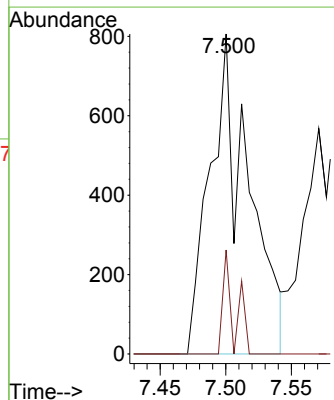
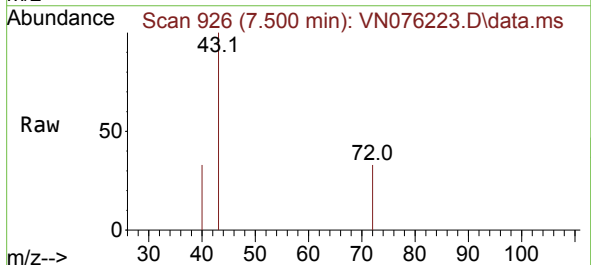


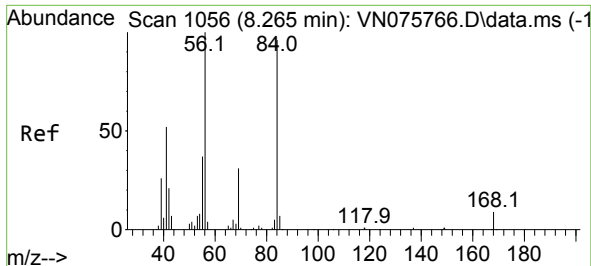
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 1257  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 99.7     | 81.8 122.6  |
| 51 0.0      | 26.7 40.1#  |
| 86 40.1     | 51.5 77.3#  |



#25  
2-Butanone  
Concen: 0.944 ug/l  
RT: 7.500 min Scan# 926  
Delta R.T. 0.012 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1645  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 32.5     | 28.0 42.0   |

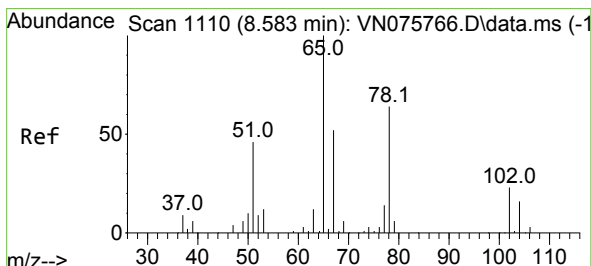
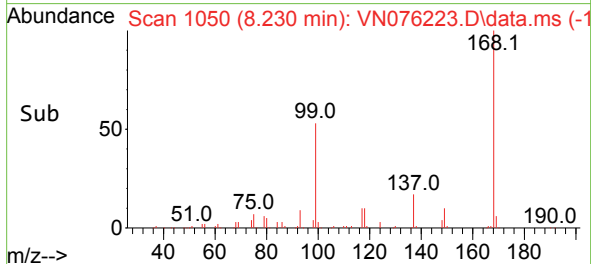
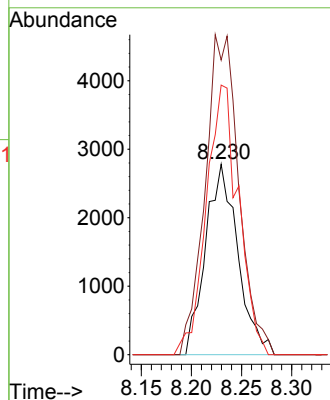
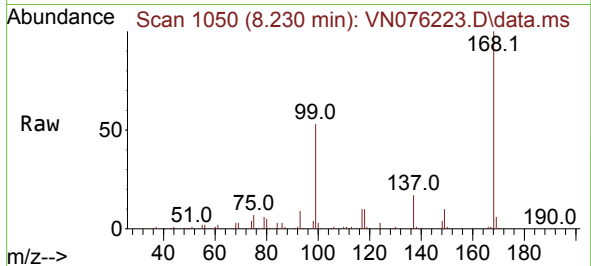




#31  
Cyclohexane  
Concen: 1.203 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.035 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

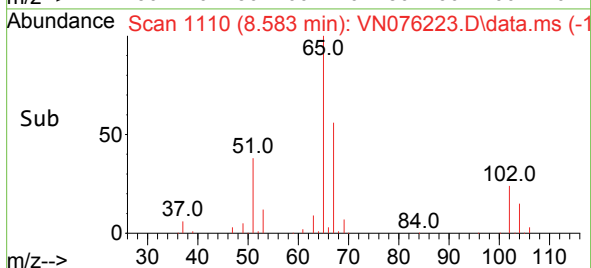
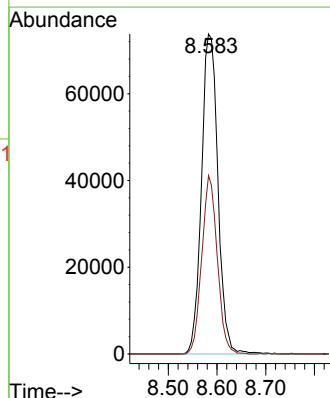
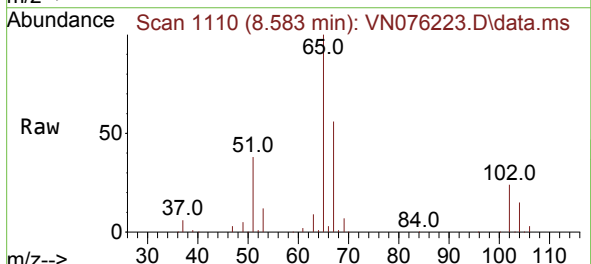
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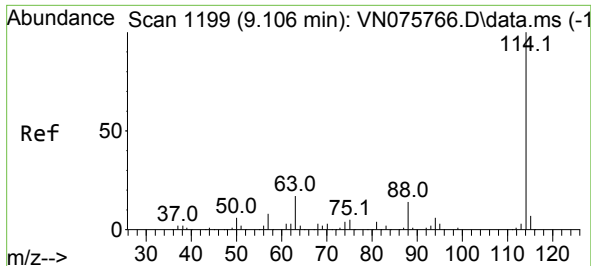
Tgt Ion: 56 Resp: 6223  
Ion Ratio Lower Upper  
56 100  
69 154.7 24.7 37.1#  
84 141.6 76.5 114.7#



#33  
1,2-Dichloroethane-d4  
Concen: 47.971 ug/l  
RT: 8.583 min Scan# 1110  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 65 Resp: 173243  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 103.4

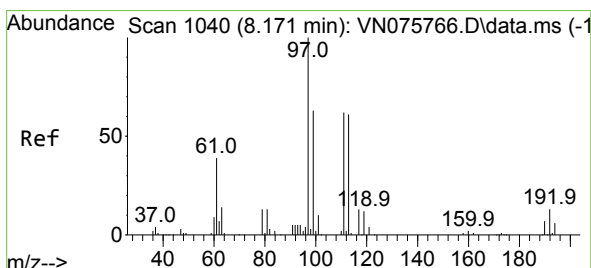
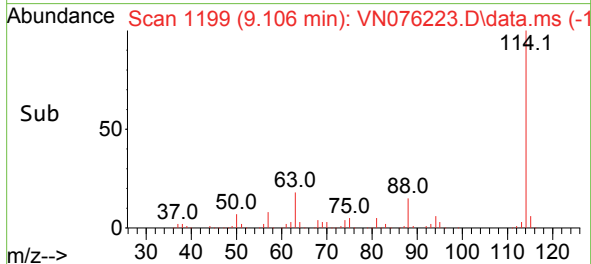
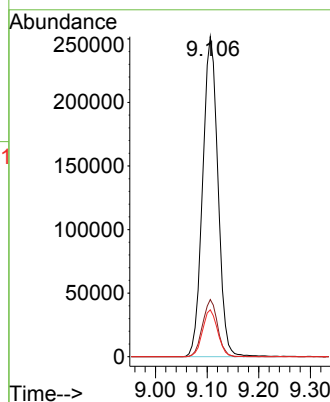
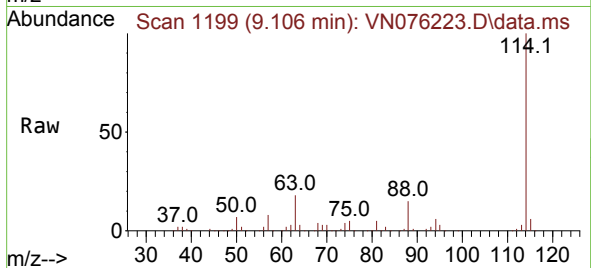




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

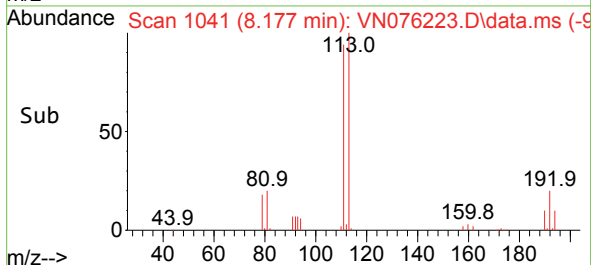
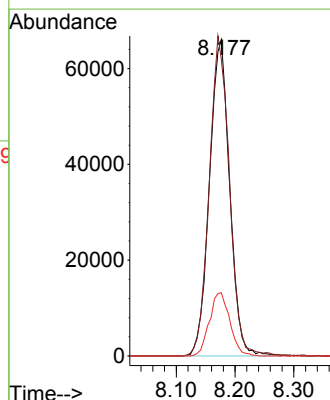
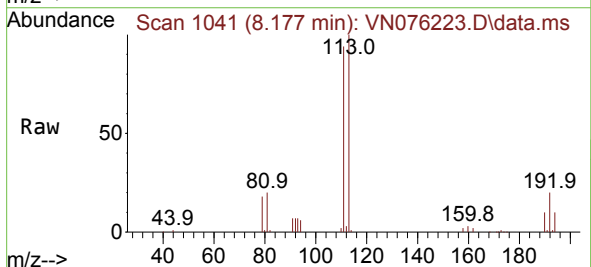
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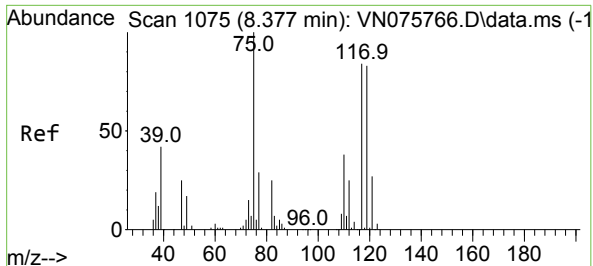
Tgt Ion:114 Resp: 517572  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 34.4  
88 14.7 0.0 28.8



#35  
Dibromofluoromethane  
Concen: 49.163 ug/l  
RT: 8.177 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion:113 Resp: 157579  
Ion Ratio Lower Upper  
113 100  
111 100.9 83.4 125.2  
192 20.3 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.496 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN076223.D

Acq: 12 Jan 2023 12:15

Instrument :

MSVOA\_N

ClientSampleId :

TB-01-011023

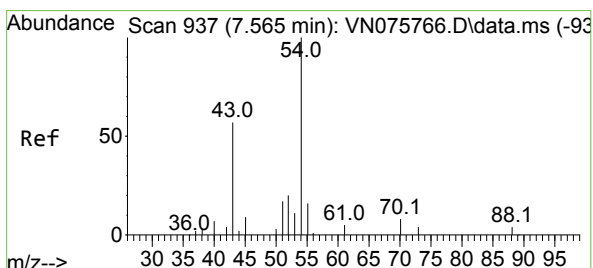
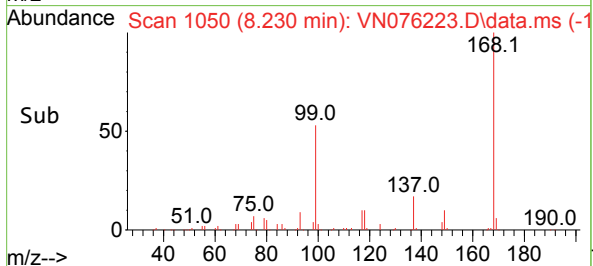
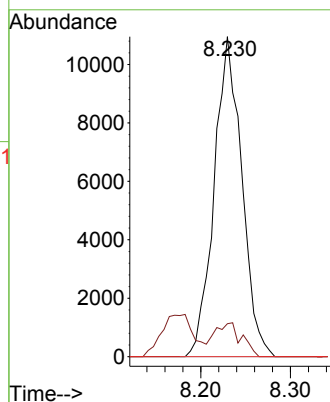
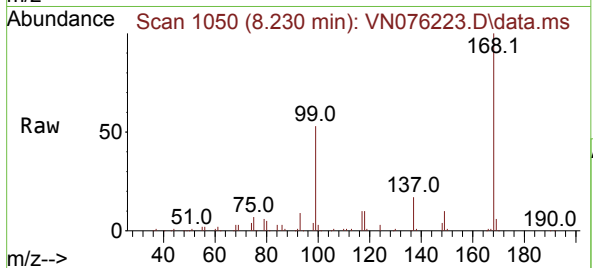
Tgt Ion: 75 Resp: 23400

Ion Ratio Lower Upper

75 100

110 10.2 18.8 56.4#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 0.410 ug/l

RT: 7.583 min Scan# 940

Delta R.T. 0.018 min

Lab File: VN076223.D

Acq: 12 Jan 2023 12:15

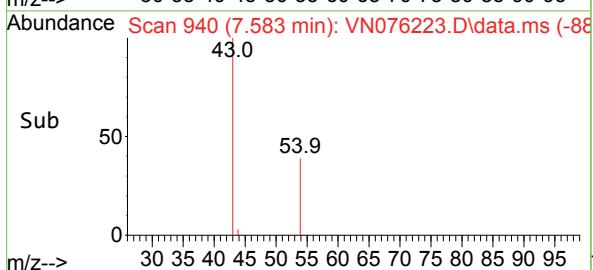
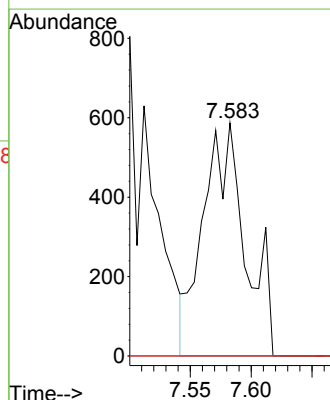
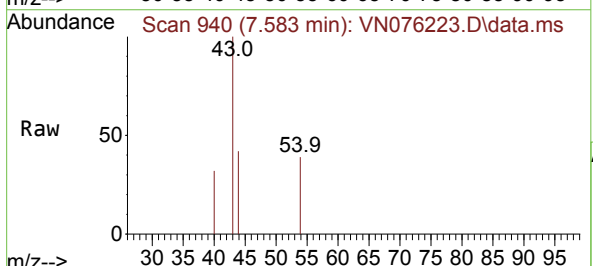
Tgt Ion: 43 Resp: 1401

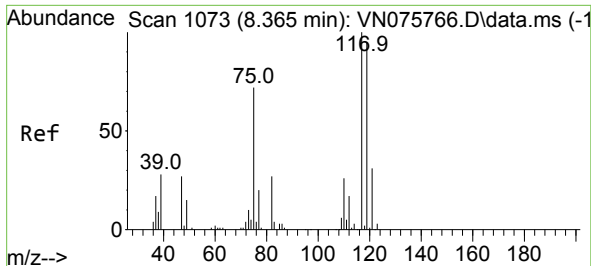
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 9.4 14.0#

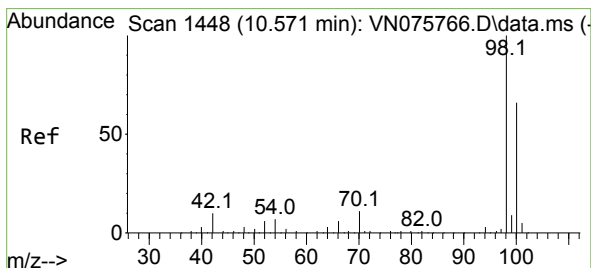
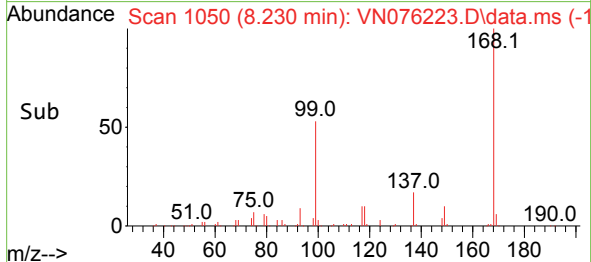
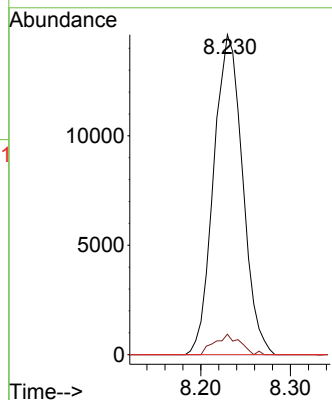
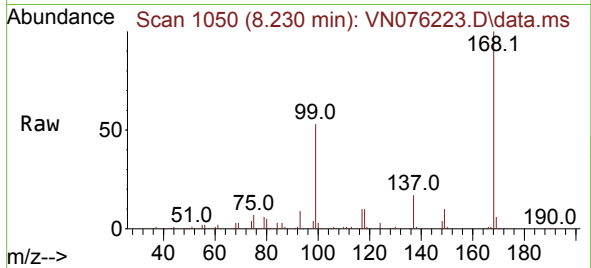




#38  
Carbon Tetrachloride  
Concen: 6.868 ug/l  
RT: 8.230 min Scan# 1073  
Delta R.T. -0.135 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

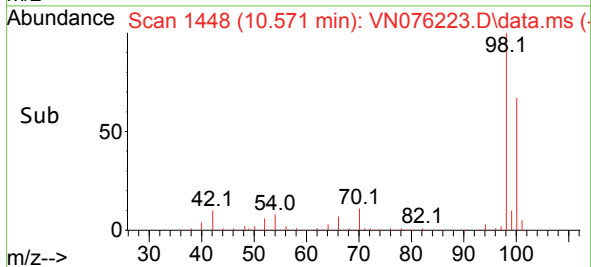
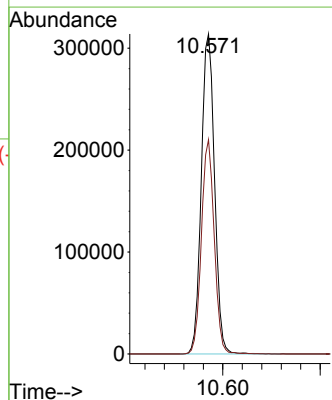
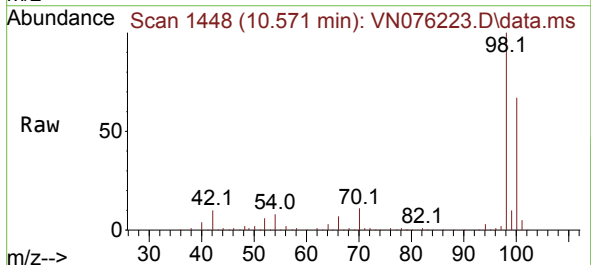
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

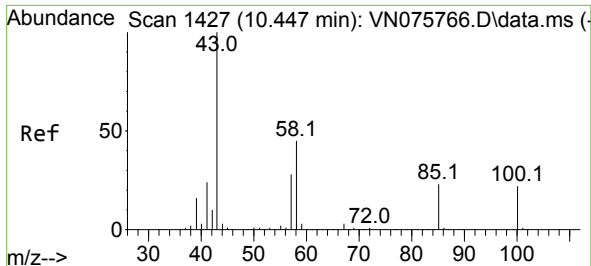
Tgt Ion:117 Resp: 32729  
Ion Ratio Lower Upper  
117 100  
119 6.4 76.1 114.1#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 49.342 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 98 Resp: 591323  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.1 78.1

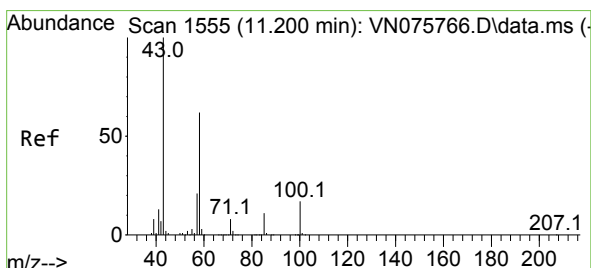
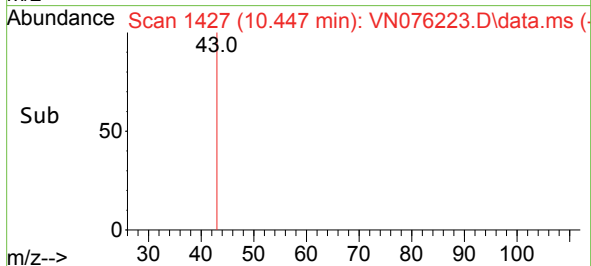
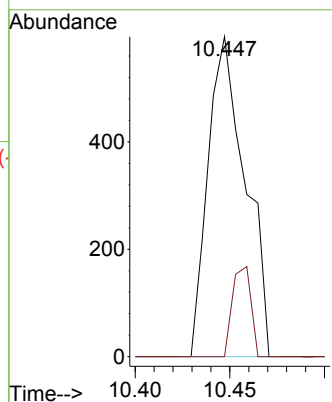
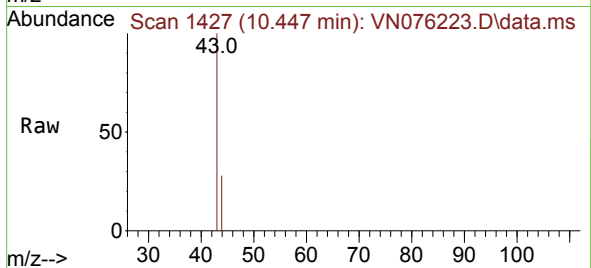




#51  
4-Methyl-2-Pentanone  
Concen: 0.239 ug/l  
RT: 10.447 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

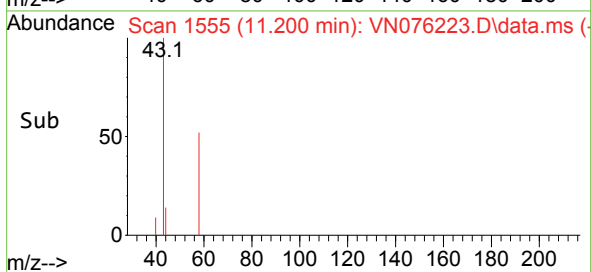
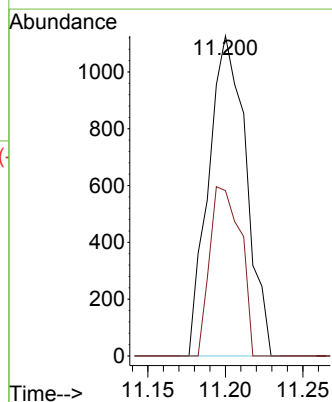
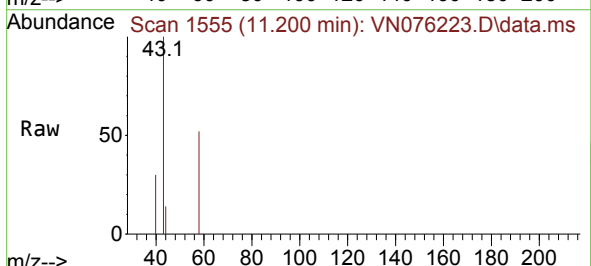
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

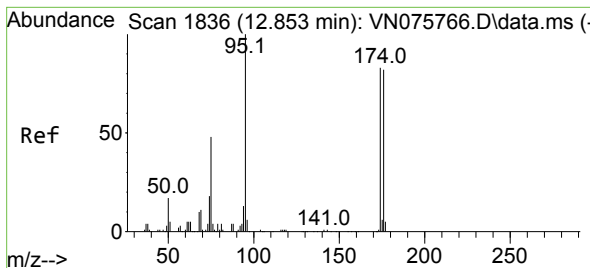
Tgt Ion: 43 Resp: 816  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.5 53.3#



#59  
2-Hexanone  
Concen: 0.761 ug/l  
RT: 11.200 min Scan# 1555  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 43 Resp: 1894  
Ion Ratio Lower Upper  
43 100  
58 43.7 30.6 92.0

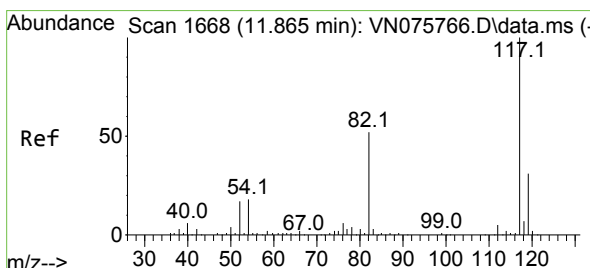
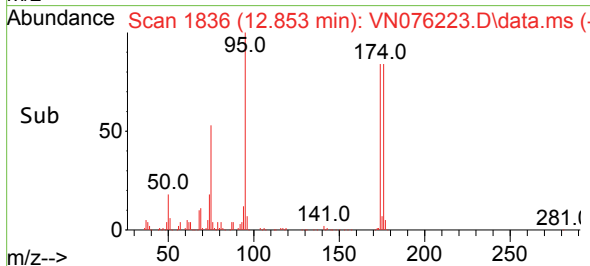
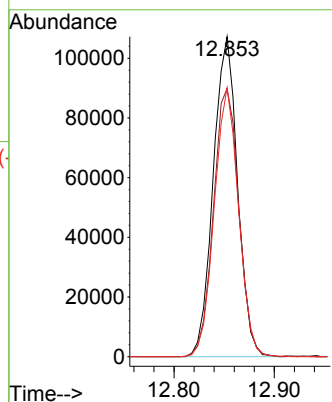
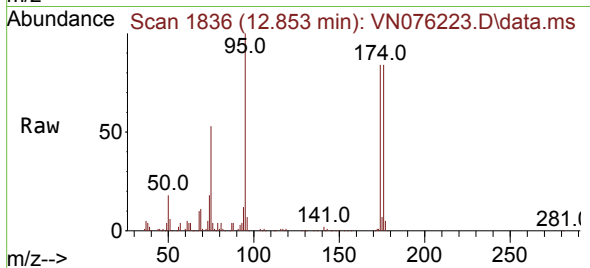




#62  
4-Bromofluorobenzene  
Concen: 45.327 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

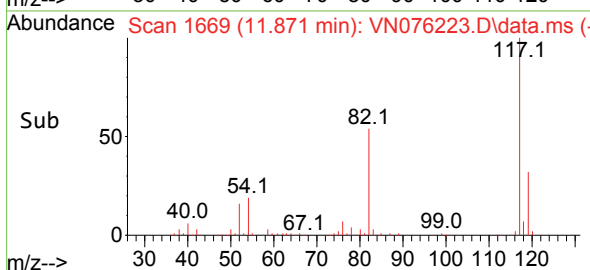
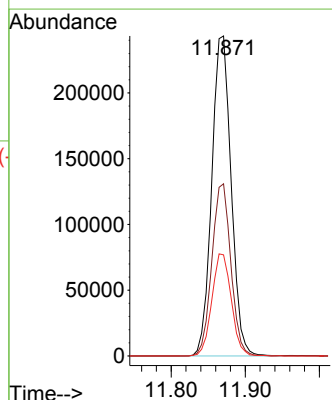
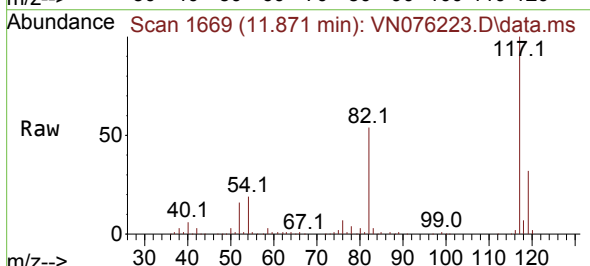
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

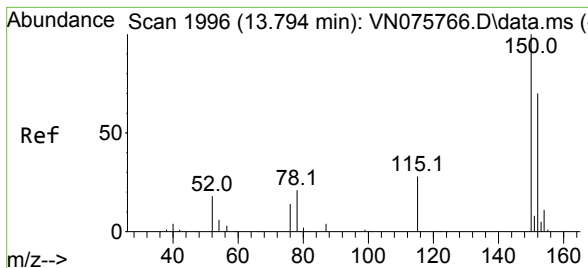
Tgt Ion: 95 Resp: 179913  
Ion Ratio Lower Upper  
95 100  
174 87.5 0.0 171.6  
176 84.0 0.0 169.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. 0.006 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 117 Resp: 441937  
Ion Ratio Lower Upper  
117 100  
82 53.8 41.3 61.9  
119 31.6 24.6 37.0

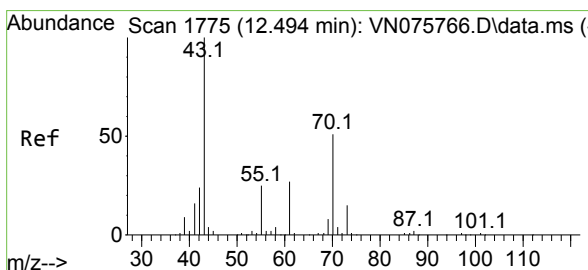
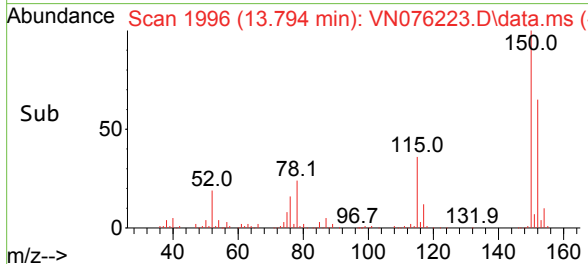
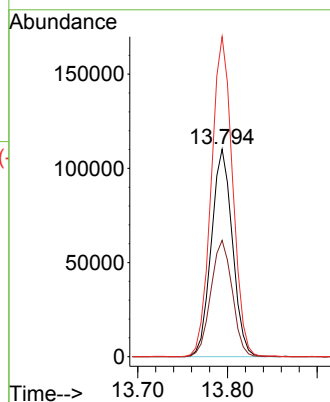
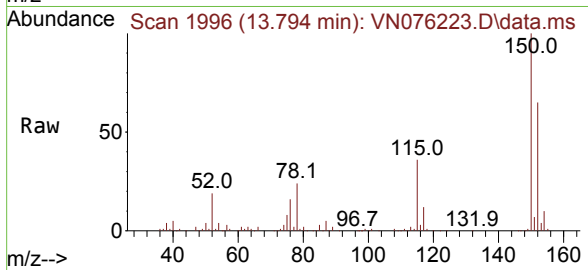




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

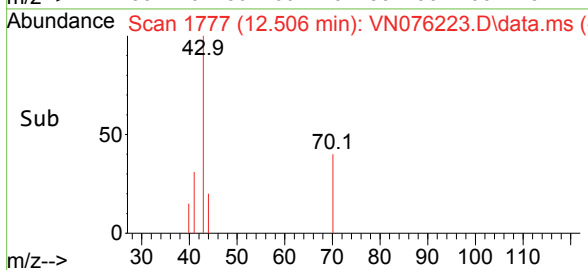
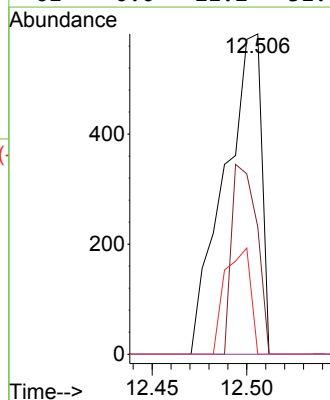
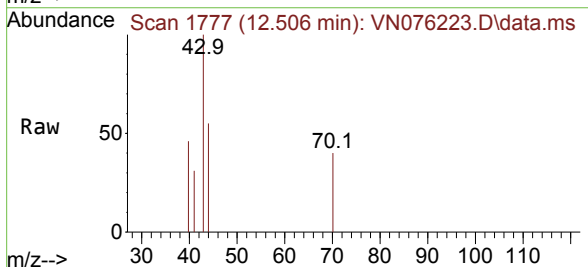
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

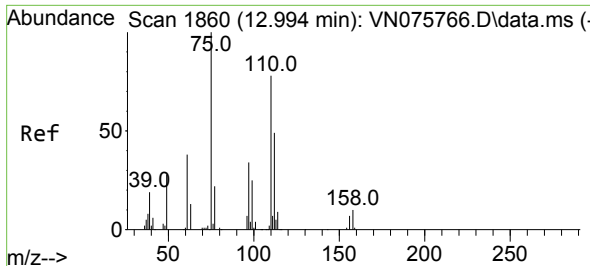
Tgt Ion:152 Resp: 179858  
Ion Ratio Lower Upper  
152 100  
115 56.8 29.1 87.4  
150 156.0 0.0 347.0



#74  
N-ethyl acetate  
Concen: 0.207 ug/l  
RT: 12.506 min Scan# 1777  
Delta R.T. 0.012 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 43 Resp: 789  
Ion Ratio Lower Upper  
43 100  
70 40.4 41.4 62.0#  
55 23.1 21.3 31.9  
61 0.0 21.2 31.8#

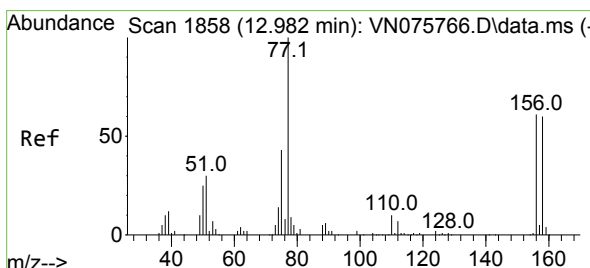
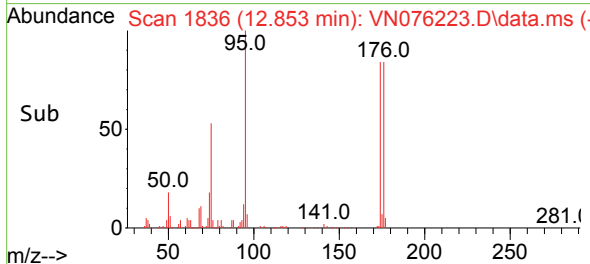
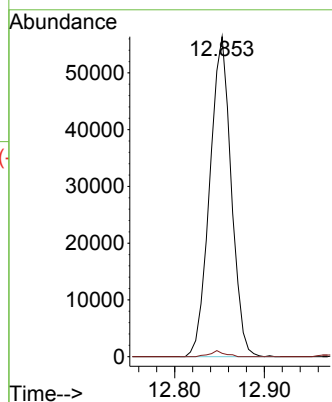
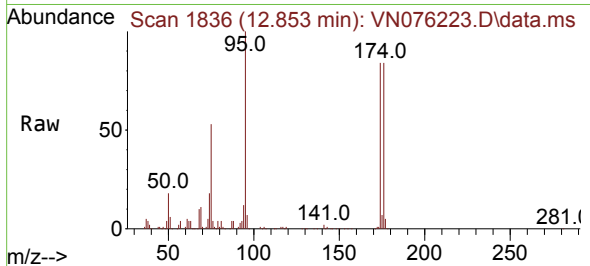




#76  
1,2,3-Trichloropropane  
Concen: 25.822 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

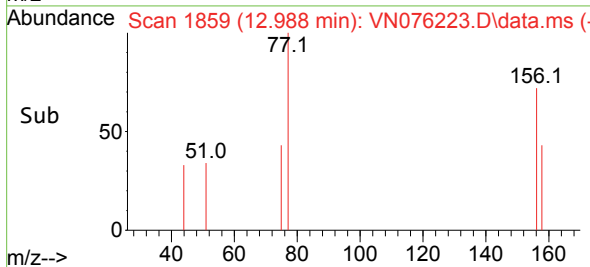
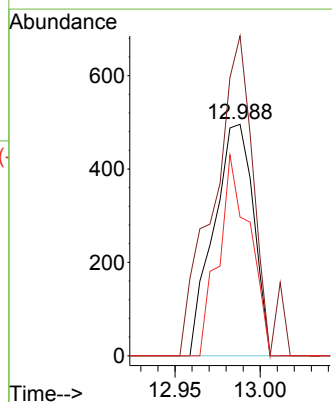
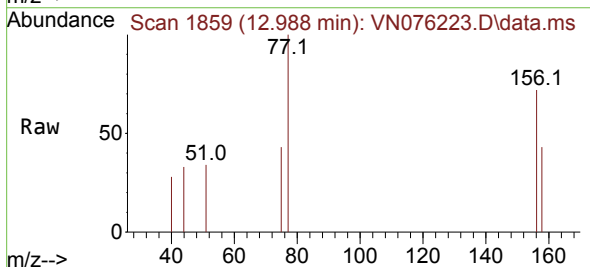
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

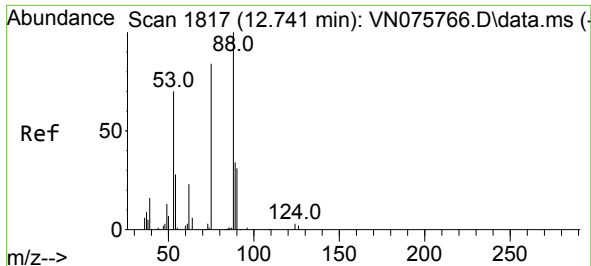
Tgt Ion: 75 Resp: 93619  
Ion Ratio Lower Upper  
75 100  
77 1.3 82.6 247.8#



#77  
Bromobenzene  
Concen: 0.244 ug/l  
RT: 12.988 min Scan# 1859  
Delta R.T. 0.006 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 156 Resp: 801  
Ion Ratio Lower Upper  
156 100  
77 141.6 93.8 281.3  
158 67.8 48.9 146.6

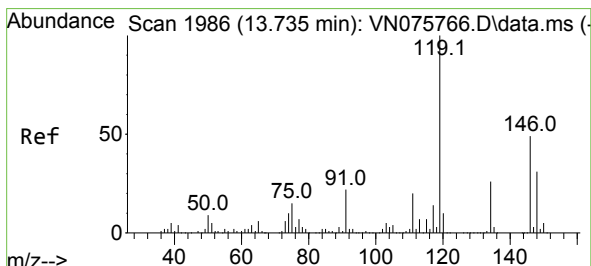
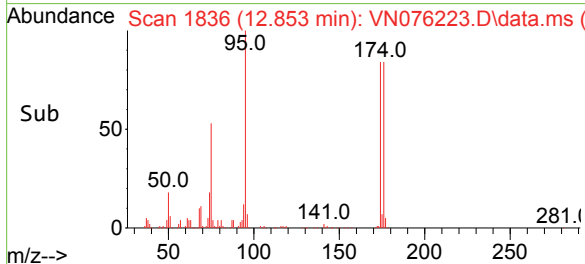
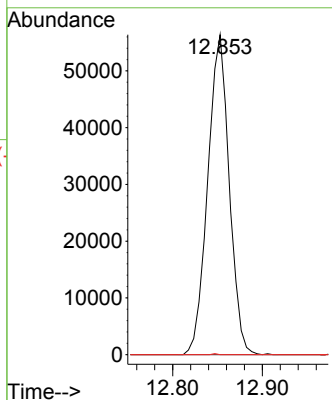
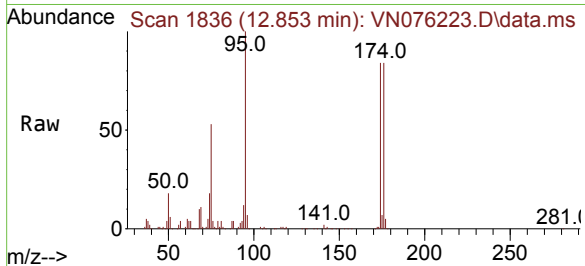




#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.948 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.112 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

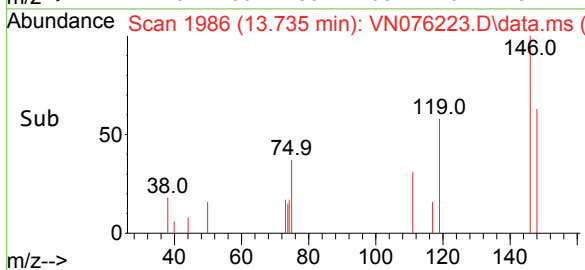
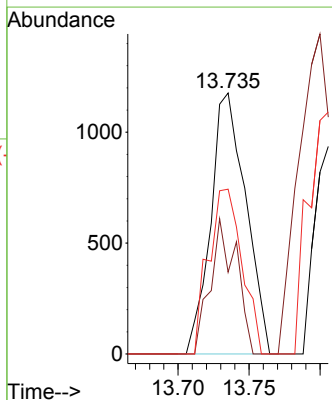
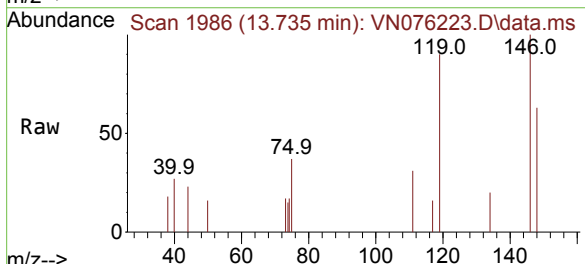
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MSVOA\_N  
ClientSampleId :  
TB-01-011023

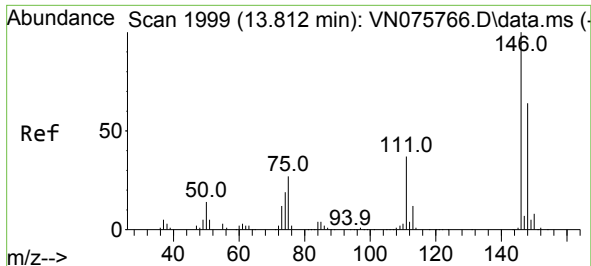
Tgt Ion: 75 Resp: 93619  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.8 110.6#  
89 0.1 39.5 59.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.333 ug/l  
RT: 13.735 min Scan# 1986  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion:146 Resp: 2024  
Ion Ratio Lower Upper  
146 100  
111 38.5 19.7 59.0  
148 60.3 31.4 94.2

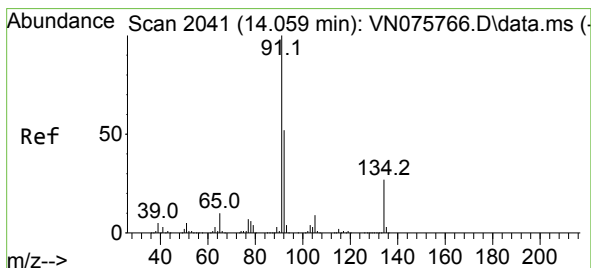
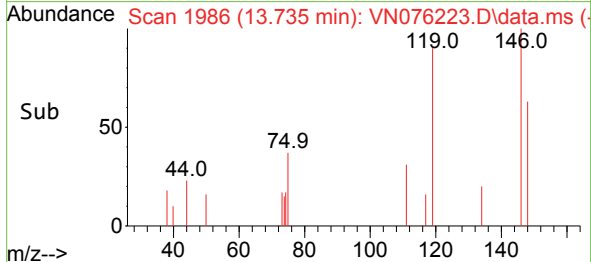
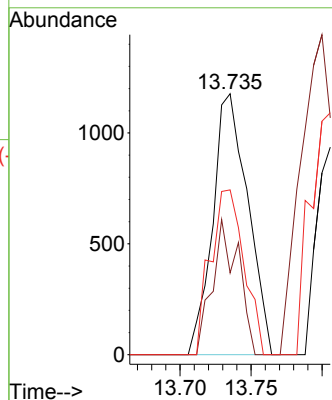
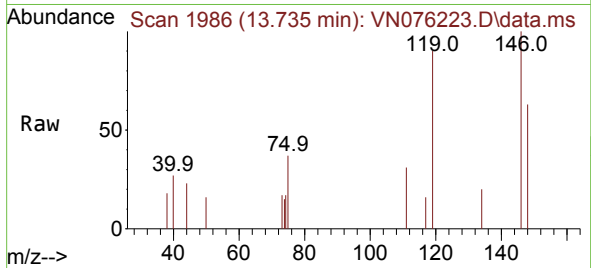




#88  
1,4-Dichlorobenzene  
Concen: 0.326 ug/l  
RT: 13.735 min Scan# 1999  
Delta R.T. -0.076 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

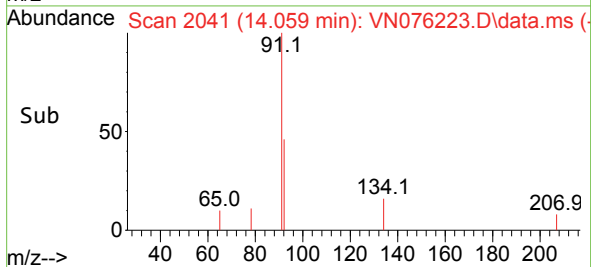
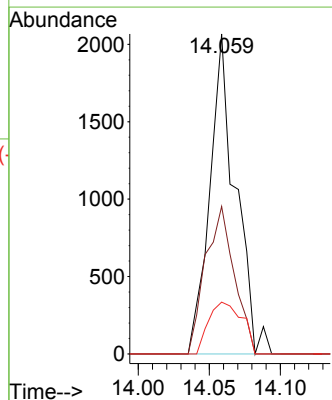
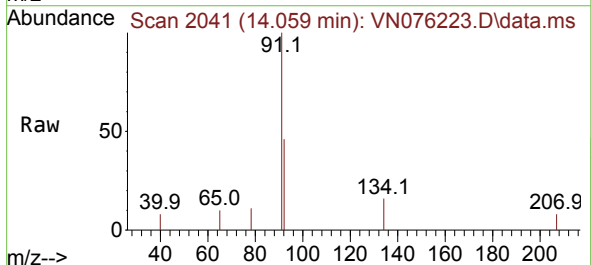
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MSVOA\_N  
ClientSampleId :  
TB-01-011023

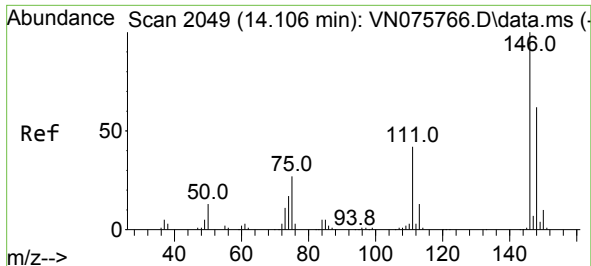
Tgt Ion:146 Resp: 2024  
Ion Ratio Lower Upper  
146 100  
111 38.5 19.1 57.1  
148 60.3 32.0 96.2



#89  
n-Butylbenzene  
Concen: 0.292 ug/l  
RT: 14.059 min Scan# 2041  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Tgt Ion: 91 Resp: 2609  
Ion Ratio Lower Upper  
91 100  
92 51.7 26.4 79.2  
134 21.0 13.4 40.2





#91

1,2-Dichlorobenzene

Concen: 0.314 ug/l

RT: 14.106 min Scan# 2049

Delta R.T. 0.000 min

Lab File: VN076223.D

Acq: 12 Jan 2023 12:15

Instrument :

MSVOA\_N

ClientSampleId :

TB-01-011023

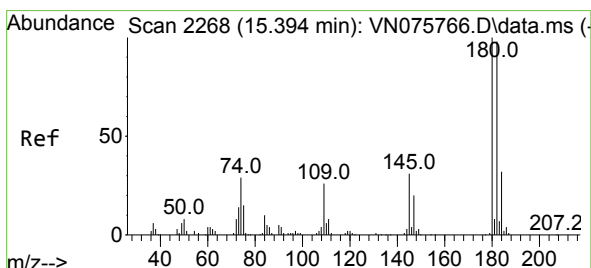
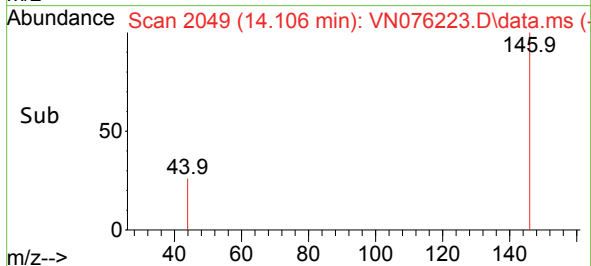
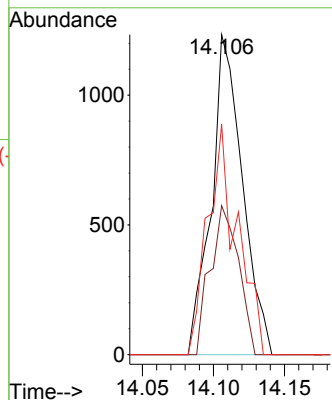
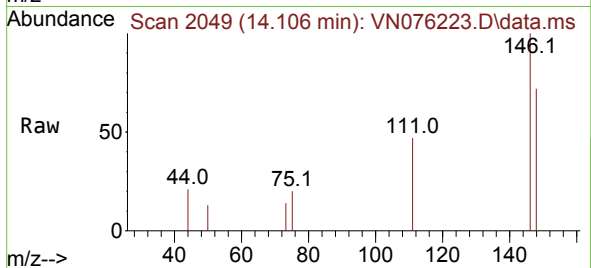
Tgt Ion:146 Resp: 1877

Ion Ratio Lower Upper

146 100

111 42.4 20.3 61.0

148 68.4 31.7 95.1



#93

1,2,4-Trichlorobenzene

Concen: 0.836 ug/l

RT: 15.394 min Scan# 2268

Delta R.T. 0.000 min

Lab File: VN076223.D

Acq: 12 Jan 2023 12:15

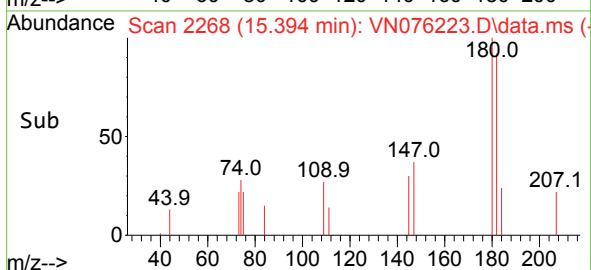
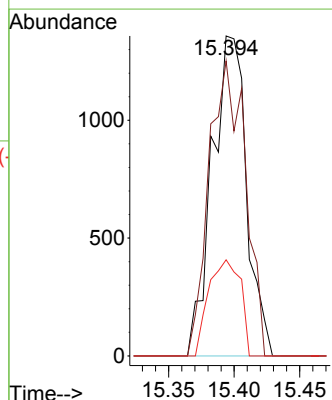
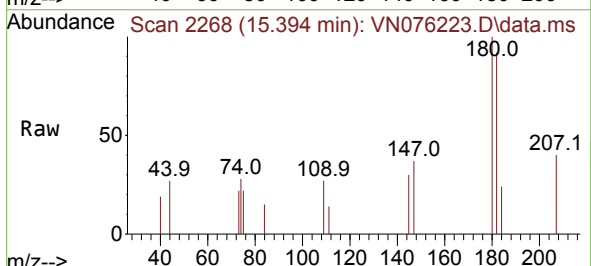
Tgt Ion:180 Resp: 2478

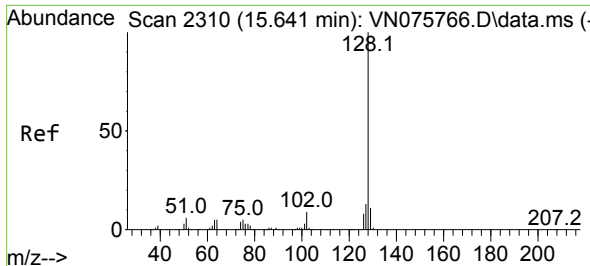
Ion Ratio Lower Upper

180 100

182 97.3 47.5 142.5

145 27.8 15.3 45.8

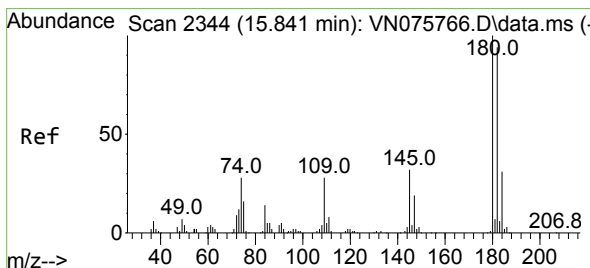
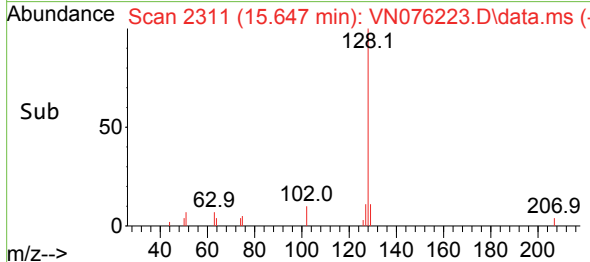
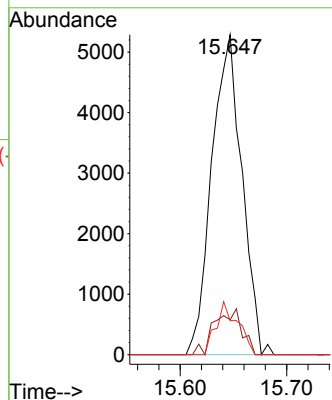
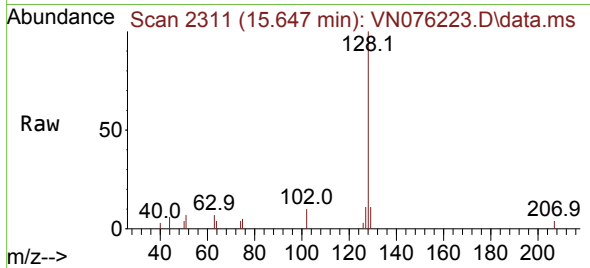




#95  
Naphthalene  
Concen: 3.192 ug/l  
RT: 15.647 min Scan# 2310  
Delta R.T. 0.006 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-01-011023

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 10379     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 13.1  | 10.4 15.6 |
| 129         | 11.9  | 8.7 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 1.032 ug/l  
RT: 15.841 min Scan# 2344  
Delta R.T. 0.000 min  
Lab File: VN076223.D  
Acq: 12 Jan 2023 12:15

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 2858       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 86.2  | 47.0 141.0 |
| 145         | 33.0  | 16.0 47.9  |

