

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN053123\  
 Data File : VN077999.D  
 Acq On : 31 May 2023 17:43  
 Operator : JC\MD  
 Sample : 02943-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE108D1-20230523

Quant Time: Jun 01 01:56:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

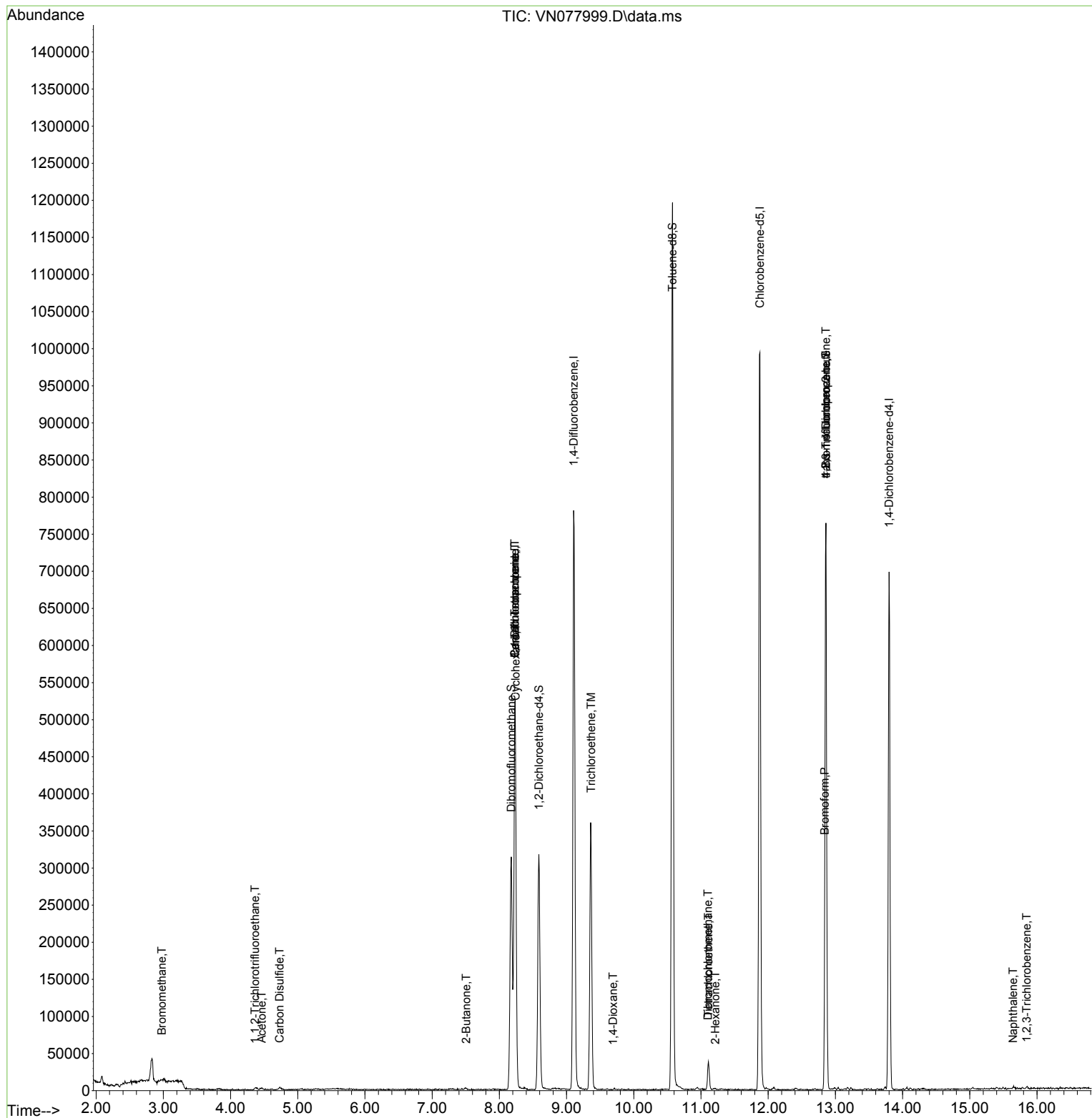
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 381783   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 692875   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.876 | 117   | 616478   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 187209   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 259920   | 45.501    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 91.000%  |
| 35) Dibromofluoromethane      | 8.177  | 113   | 228500   | 50.574    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 101.140% |
| 50) Toluene-d8                | 10.576 | 98    | 861211   | 49.521    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 99.040%  |
| 62) 4-Bromofluorobenzene      | 12.859 | 95    | 275301   | 44.822    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 89.640%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 1803     | Below Cal | #      | 78       |
| 5) Bromomethane               | 2.977  | 94    | 2907     | 0.718     | ug/l # | 80       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.365  | 101   | 849      | 0.201     | ug/l # | 40       |
| 13) Acrolein                  | 4.195  | 56    | 189      | Below Cal | #      | 16       |
| 16) Acetone                   | 4.465  | 43    | 2164     | 1.204     | ug/l # | 78       |
| 17) Carbon Disulfide          | 4.730  | 76    | 2649     | 0.245     | ug/l # | 44       |
| 20) Methylene Chloride        | 5.271  | 84    | 563      | Below Cal | #      | 60       |
| 25) 2-Butanone                | 7.506  | 43    | 927      | 0.330     | ug/l # | 37       |
| 31) Cyclohexane               | 8.241  | 56    | 9295     | 1.197     | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 31526    | 4.771     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 41746    | 6.256     | ug/l # | 16       |
| 44) Trichloroethene           | 9.365  | 130   | 126183   | 25.554    | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.694  | 88    | 482      | 5.595     | ug/l # | 30       |
| 59) 2-Hexanone                | 11.212 | 43    | 1122     | 0.265     | ug/l # | 33       |
| 60) Dibromochloromethane      | 11.106 | 129   | 9075     | 1.824     | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.112 | 164   | 7853     | 1.822     | ug/l # | 83       |
| 71) Bromoform                 | 12.841 | 173   | 692      | 0.225     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.859 | 75    | 145960   | 31.132    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.859 | 75    | 145960   | 99.515    | ug/l # | 15       |
| 95) Naphthalene               | 15.647 | 128   | 3748     | 0.293     | ug/l # | 88       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180   | 1128     | 0.310     | ug/l   | 68       |
| -----                         |        |       |          |           |        |          |

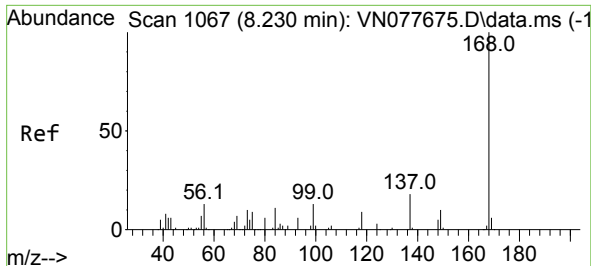
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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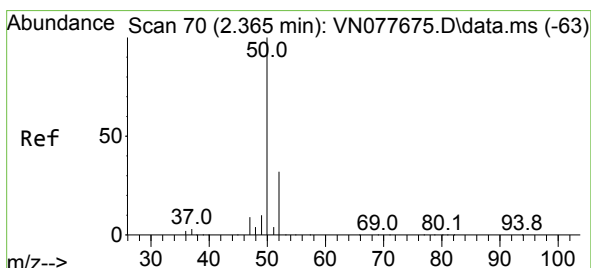
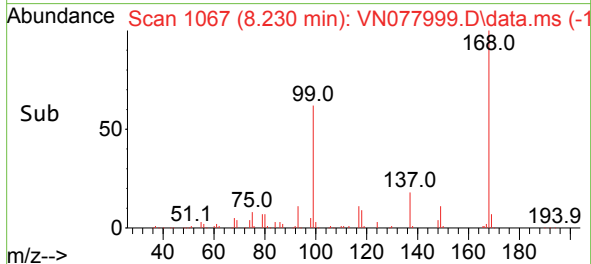
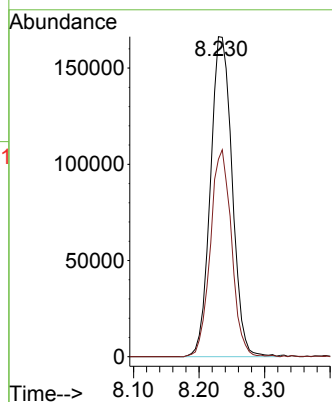
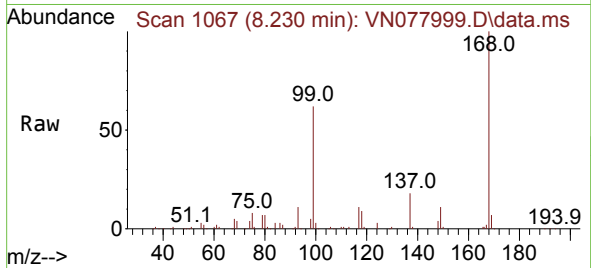




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

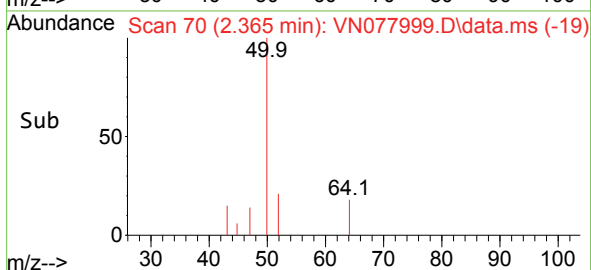
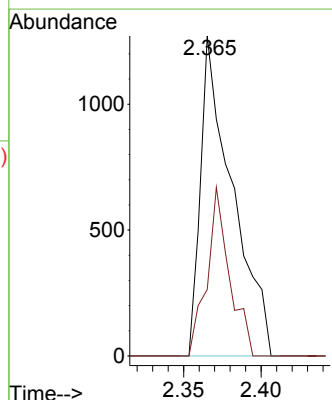
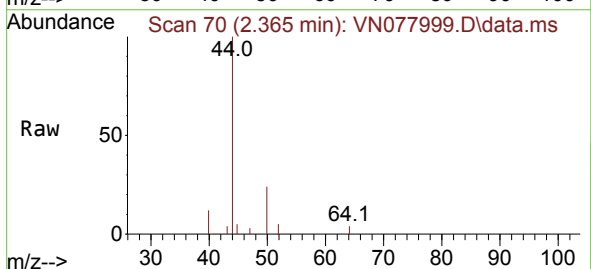
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

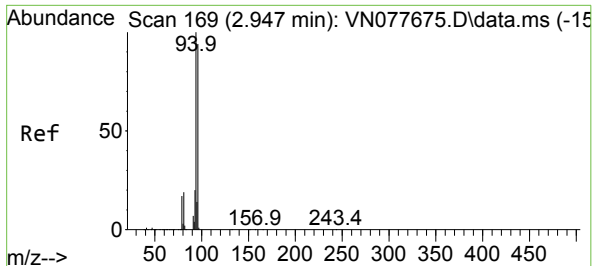
Tgt Ion:168 Resp: 381783  
Ion Ratio Lower Upper  
168 100  
99 61.7 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 50 Resp: 1803  
Ion Ratio Lower Upper  
50 100  
52 20.8 26.5 39.7#

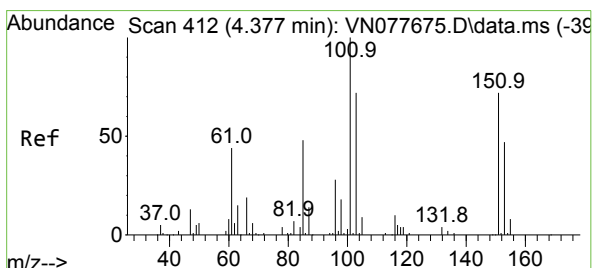
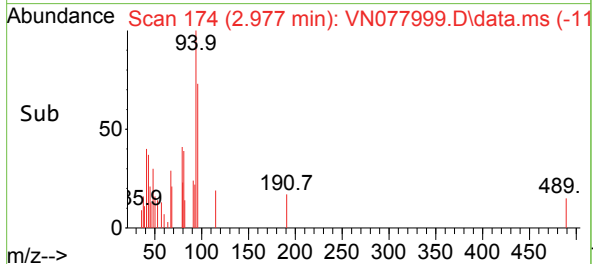
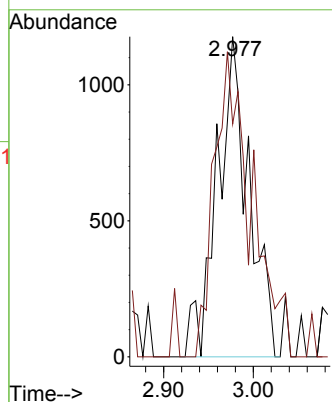
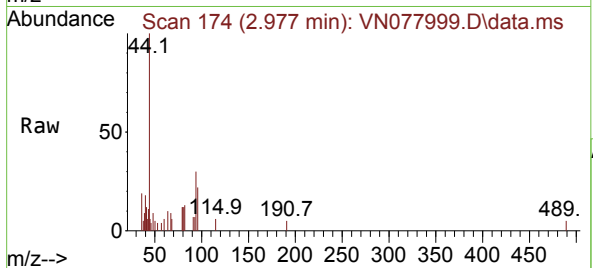




#5  
Bromomethane  
Concen: 0.718 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.030 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

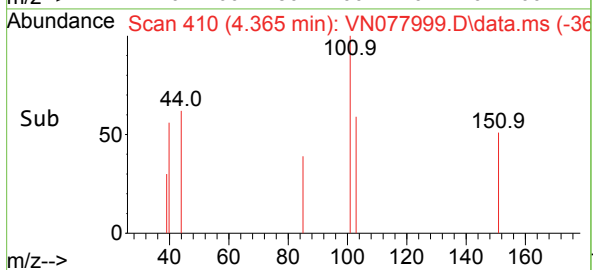
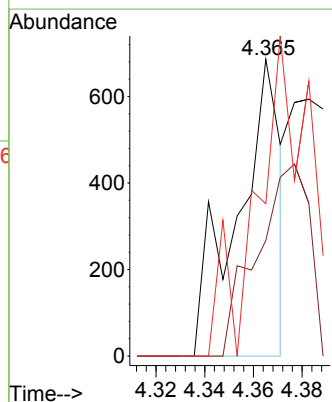
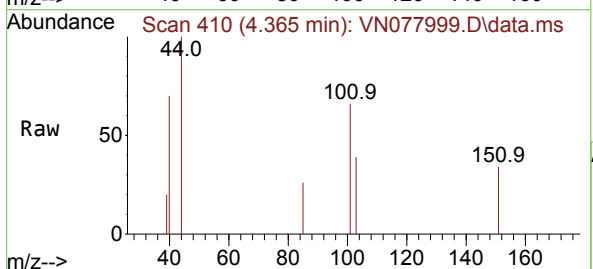
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

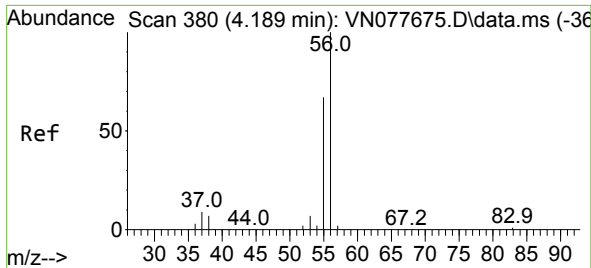
Tgt Ion: 94 Resp: 2907  
Ion Ratio Lower Upper  
94 100  
96 72.7 73.1 109.7#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.201 ug/l  
RT: 4.365 min Scan# 410  
Delta R.T. -0.012 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 101 Resp: 849  
Ion Ratio Lower Upper  
101 100  
85 78.3 36.6 55.0#  
151 127.3 57.6 86.4#

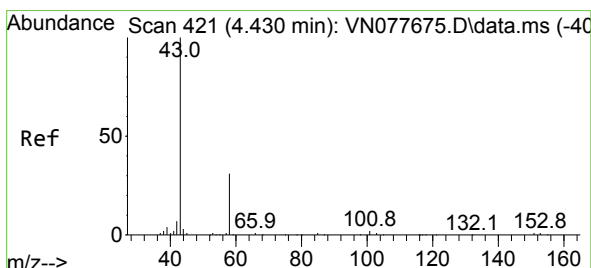
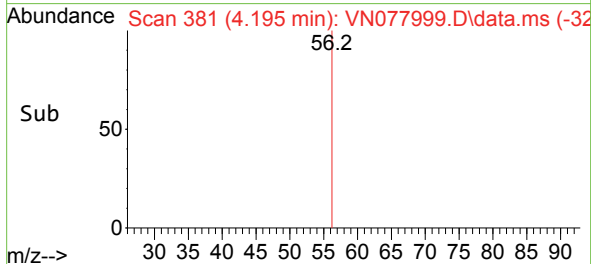
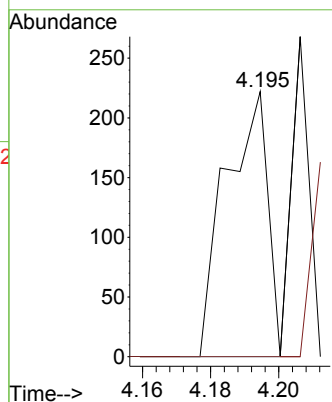
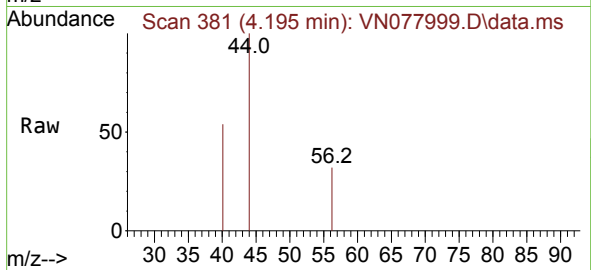




#13  
Acrolein  
Concen: Below Cal  
RT: 4.195 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

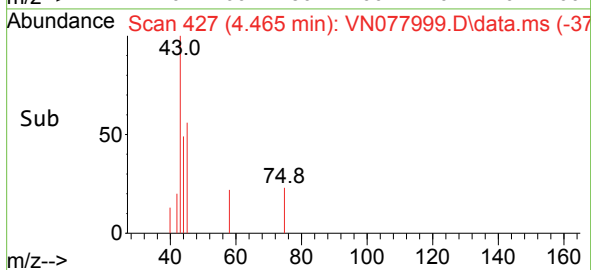
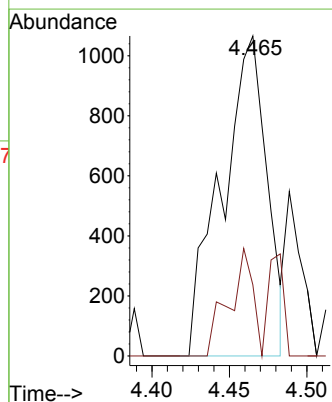
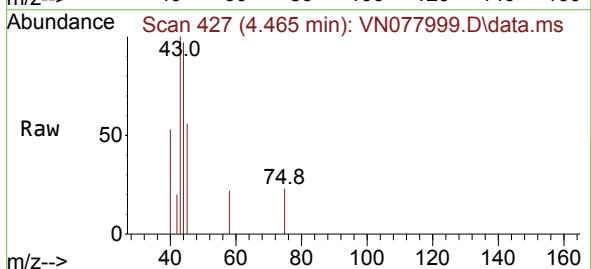
Instrument :  
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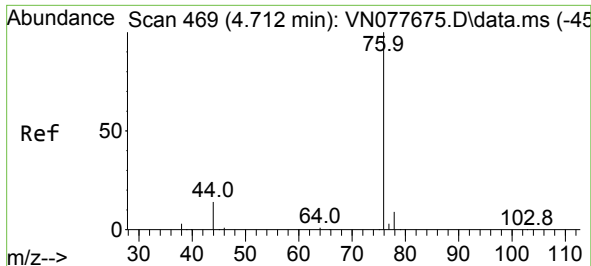
Tgt Ion: 56 Resp: 189  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#



#16  
Acetone  
Concen: 1.204 ug/l  
RT: 4.465 min Scan# 427  
Delta R.T. 0.035 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 43 Resp: 2164  
Ion Ratio Lower Upper  
43 100  
58 22.2 28.0 42.0#

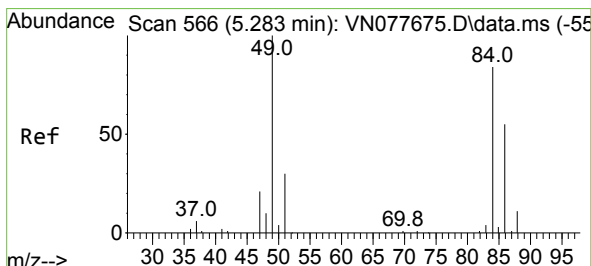
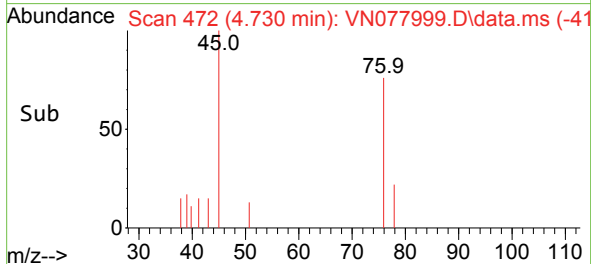
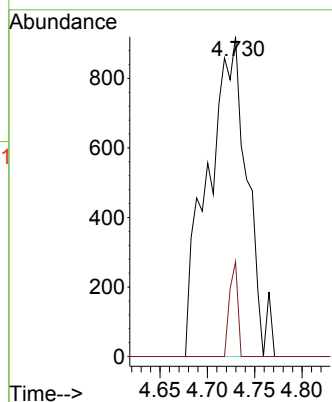
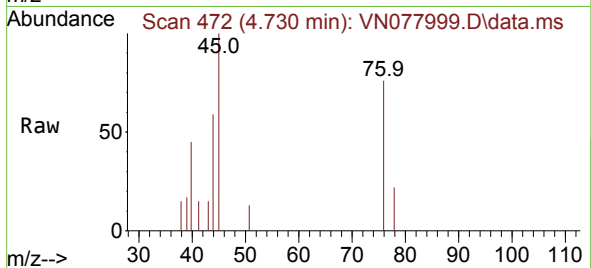




#17  
Carbon Disulfide  
Concen: 0.245 ug/l  
RT: 4.730 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

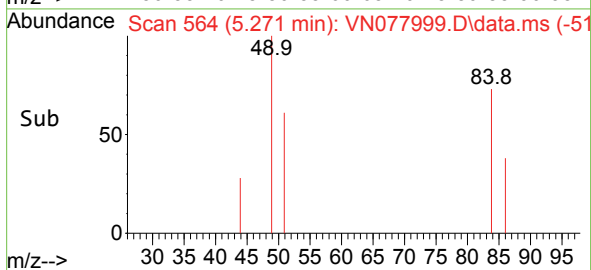
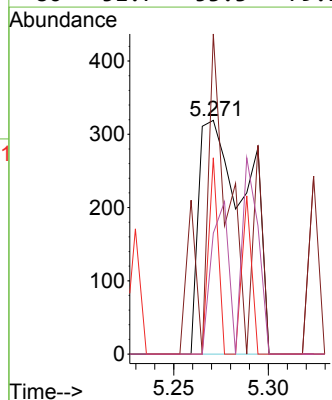
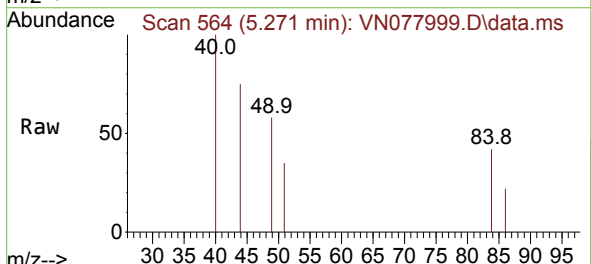
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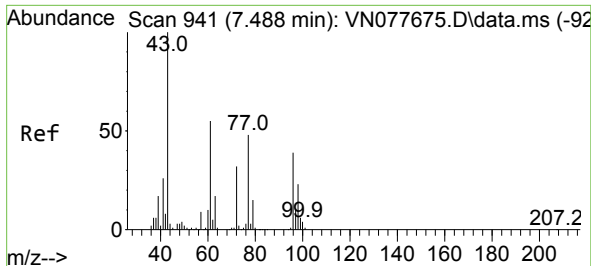
Tgt Ion: 76 Resp: 2649  
Ion Ratio Lower Upper  
76 100  
78 29.7 7.4 11.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.271 min Scan# 564  
Delta R.T. -0.012 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 84 Resp: 563  
Ion Ratio Lower Upper  
84 100  
49 137.0 79.7 119.5#  
51 84.0 25.2 37.8#  
86 51.7 53.3 79.9#

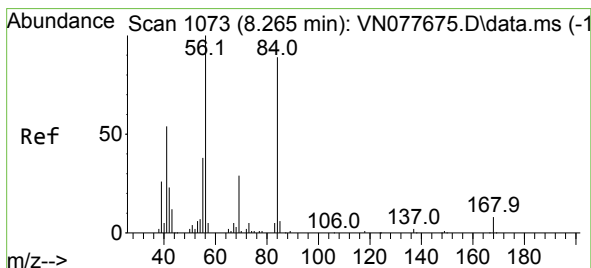
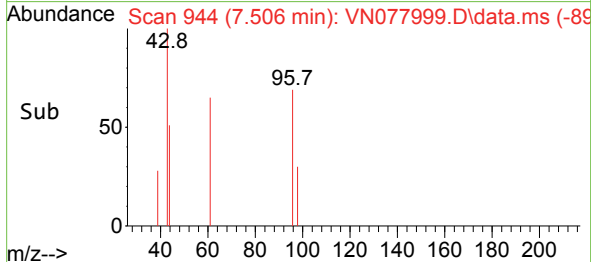
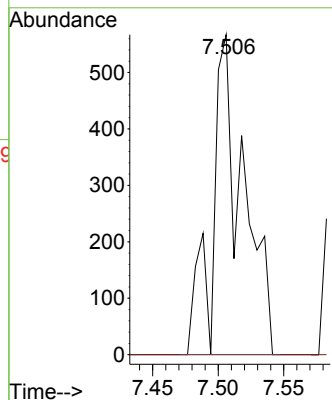
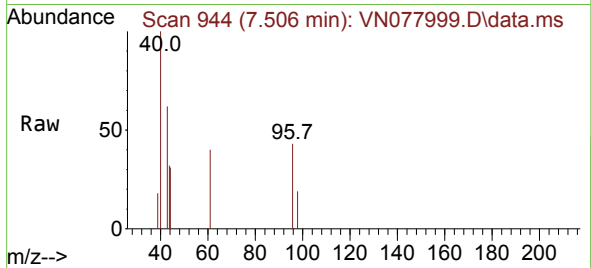




#25  
2-Butanone  
Concen: 0.330 ug/l  
RT: 7.506 min Scan# 941  
Delta R.T. 0.018 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

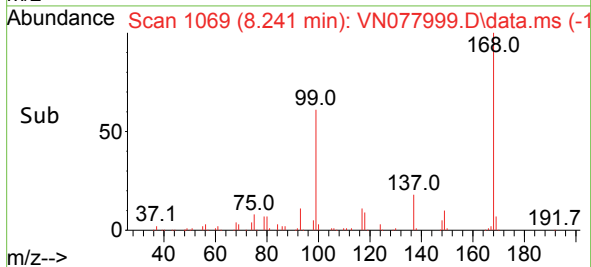
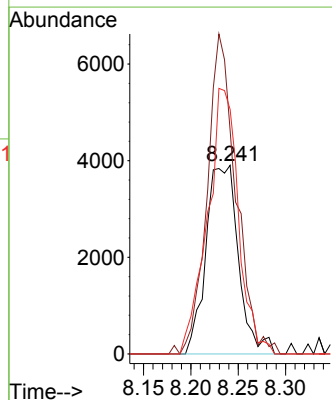
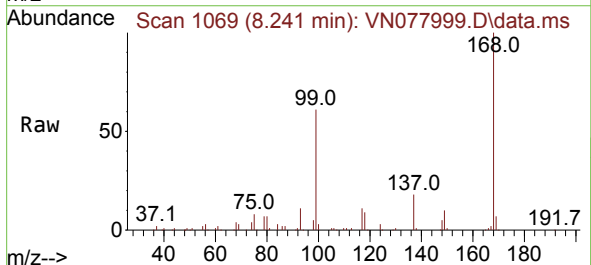
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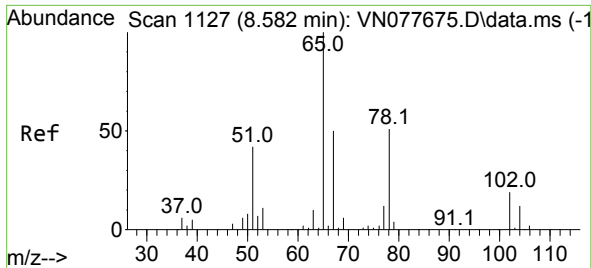
Tgt Ion: 43 Resp: 927  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



#31  
Cyclohexane  
Concen: 1.197 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. -0.024 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 56 Resp: 9295  
Ion Ratio Lower Upper  
56 100  
69 118.6 26.8 40.2#  
84 129.6 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 45.501 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077999.D

Acq: 31 May 2023 17:43

Instrument :

MSVOA\_N

ClientSampleId :

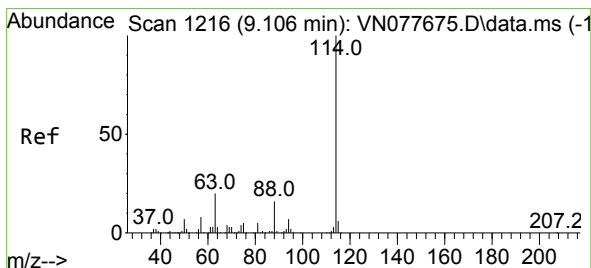
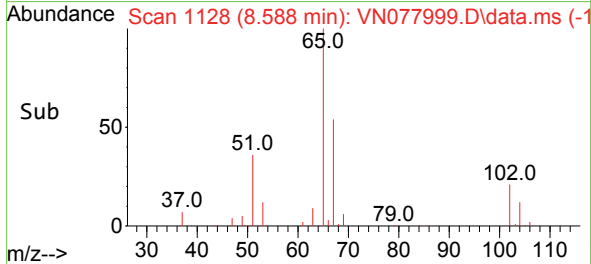
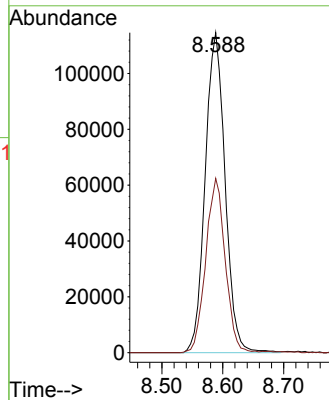
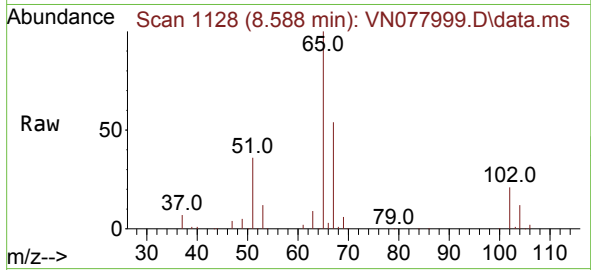
RE108D1-20230523

Tgt Ion: 65 Resp: 259920

Ion Ratio Lower Upper

65 100

67 53.2 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: VN077999.D

Acq: 31 May 2023 17:43

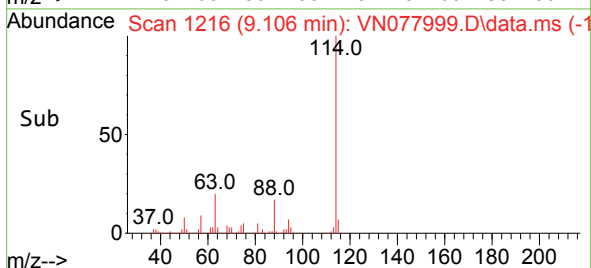
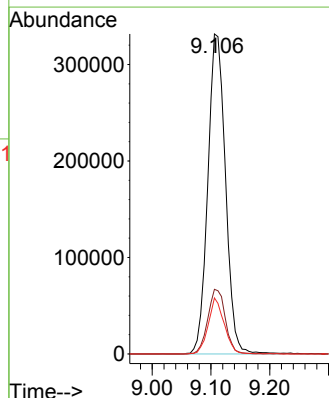
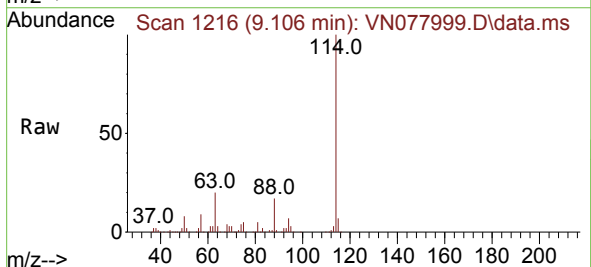
Tgt Ion: 114 Resp: 692875

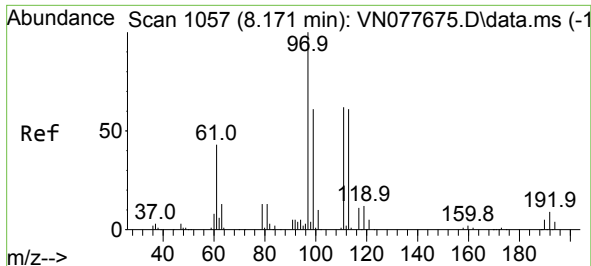
Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

88 17.5 0.0 30.6

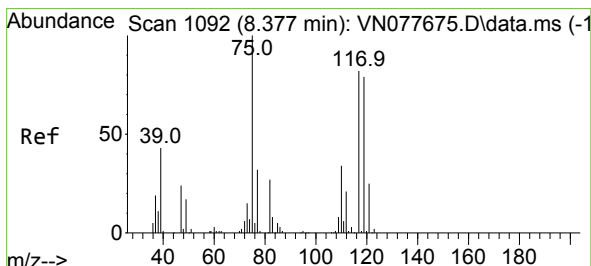
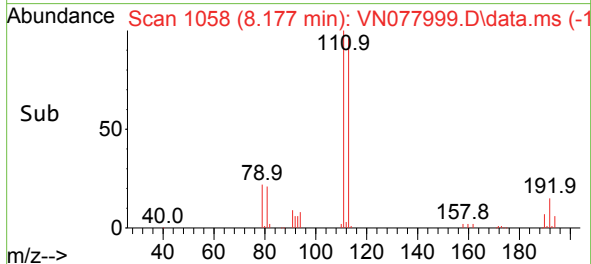
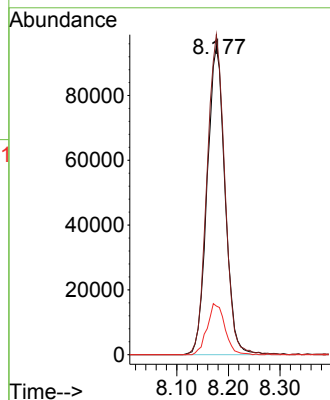
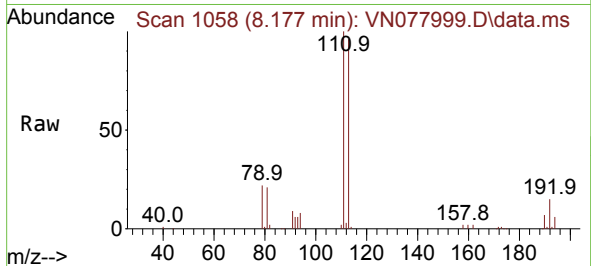




#35  
Dibromofluoromethane  
Concen: 50.574 ug/l  
RT: 8.177 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

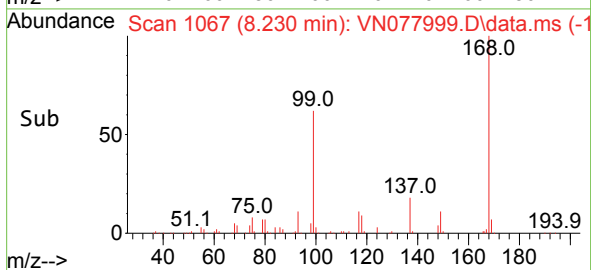
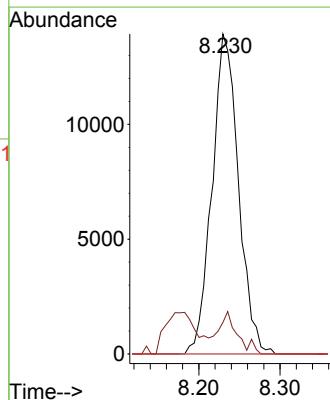
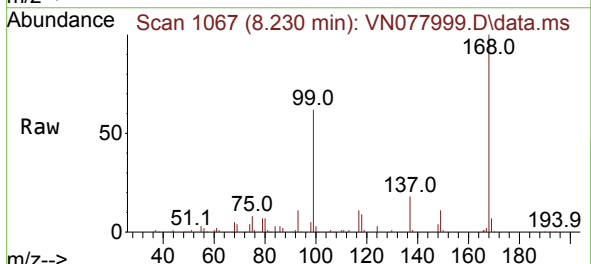
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

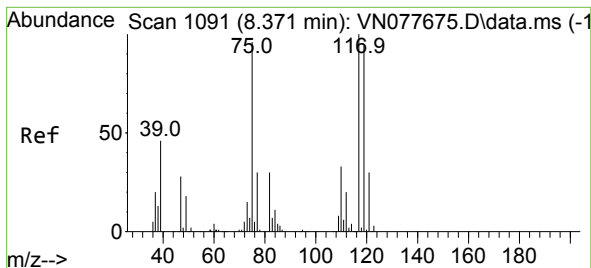
Tgt Ion:113 Resp: 228500  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.6 123.8  
192 16.5 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.771 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.147 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 75 Resp: 31526  
Ion Ratio Lower Upper  
75 100  
110 9.6 19.1 57.3#  
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.256 ug/l

RT: 8.230 min Scan# 1091

Delta R.T. -0.141 min

Lab File: VN077999.D

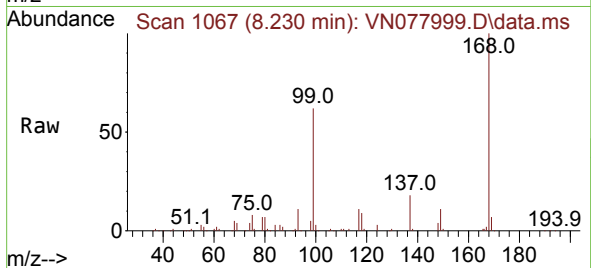
Acq: 31 May 2023 17:43

Instrument :

MSVOA\_N

ClientSampleId :

RE108D1-20230523



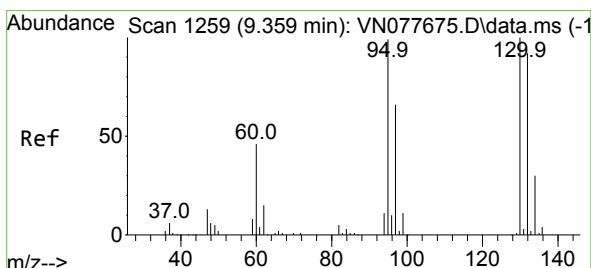
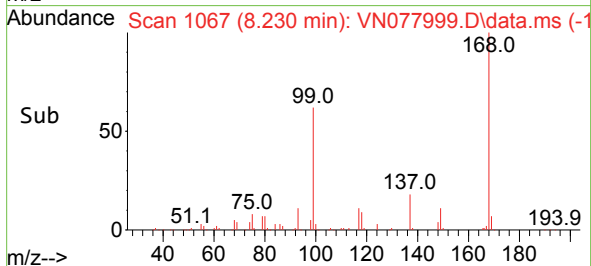
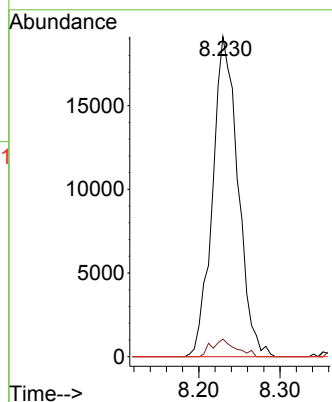
Tgt Ion:117 Resp: 41746

Ion Ratio Lower Upper

117 100

119 5.5 77.3 115.9#

121 0.0 23.3 34.9#



#44

Trichloroethene

Concen: 25.554 ug/l

RT: 9.365 min Scan# 1260

Delta R.T. 0.006 min

Lab File: VN077999.D

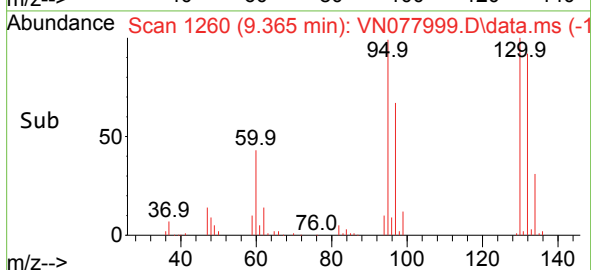
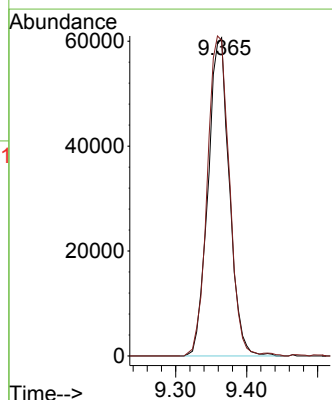
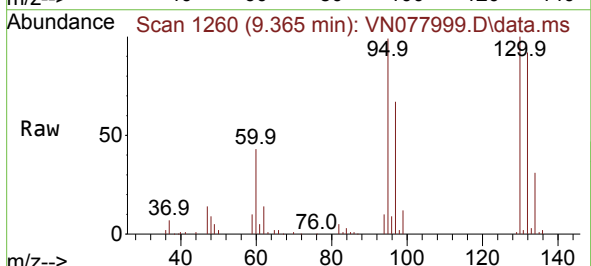
Acq: 31 May 2023 17:43

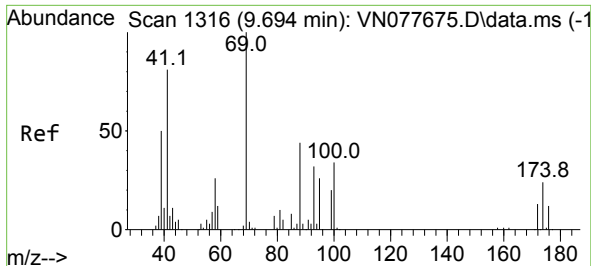
Tgt Ion:130 Resp: 126183

Ion Ratio Lower Upper

130 100

95 99.2 0.0 204.6

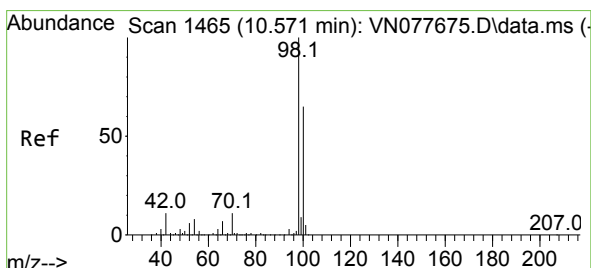
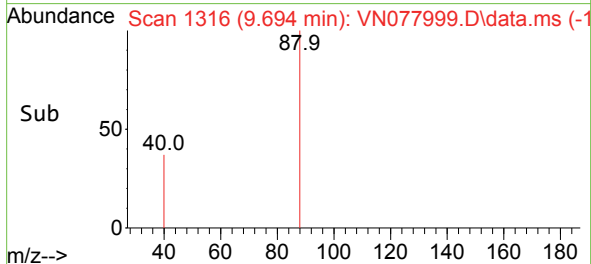
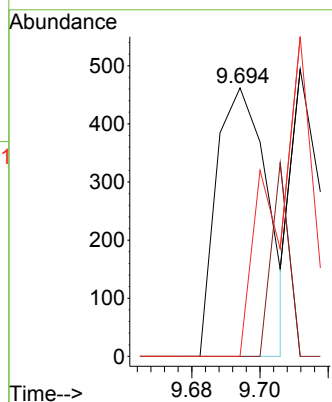
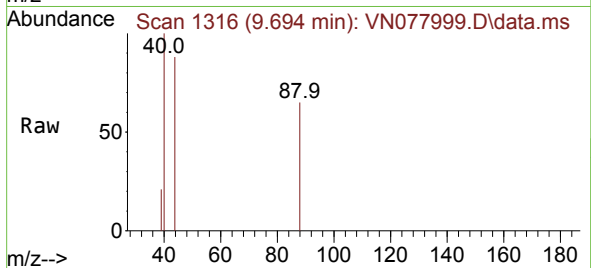




#49  
1,4-Dioxane  
Concen: 5.595 ug/l  
RT: 9.694 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

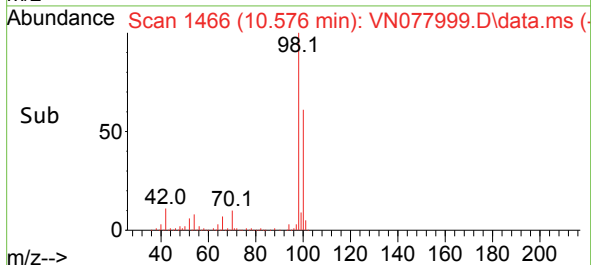
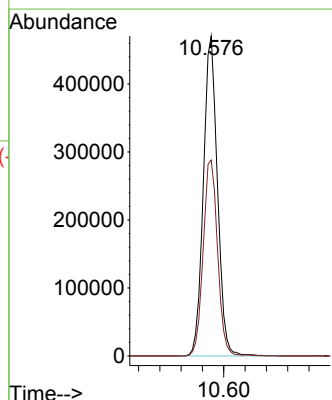
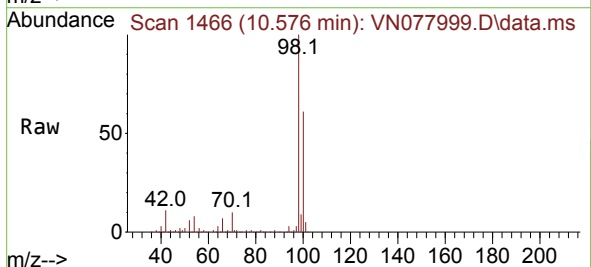
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

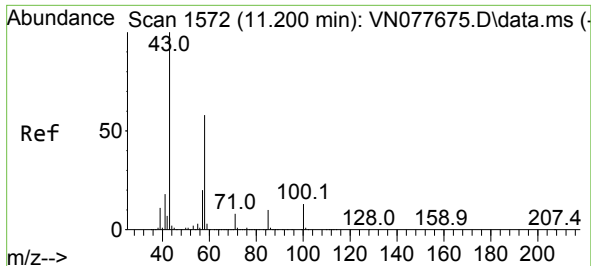
Tgt Ion: 88 Resp: 482  
Ion Ratio Lower Upper  
88 100  
43 0.0 17.0 25.6#  
58 0.0 47.0 70.4#



#50  
Toluene-d8  
Concen: 49.521 ug/l  
RT: 10.576 min Scan# 1466  
Delta R.T. 0.005 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 98 Resp: 861211  
Ion Ratio Lower Upper  
98 100  
100 62.6 52.0 78.0

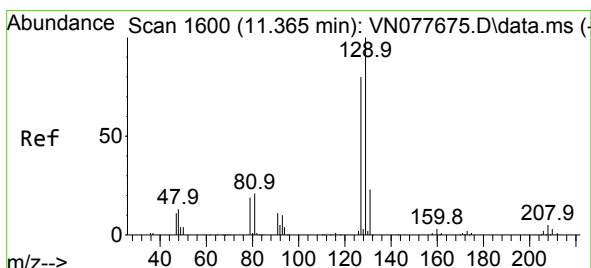
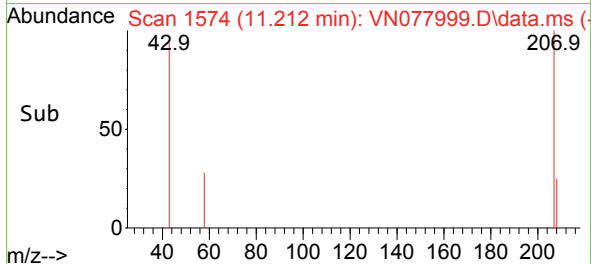
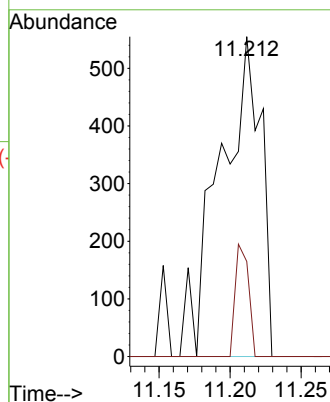
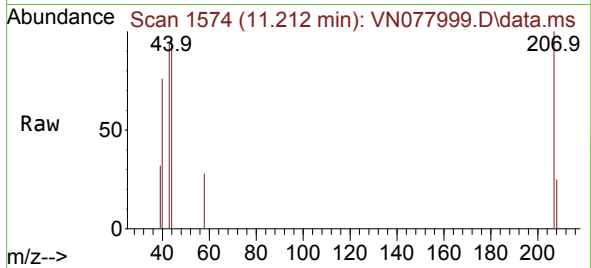




#59  
2-Hexanone  
Concen: 0.265 ug/l  
RT: 11.212 min Scan# 1122  
Delta R.T. 0.012 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

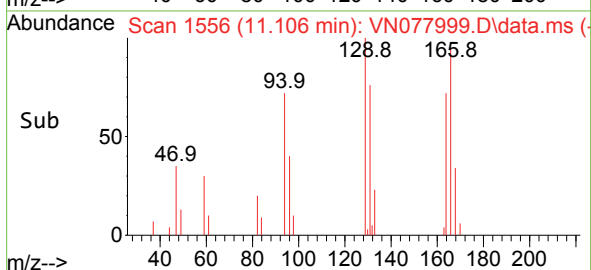
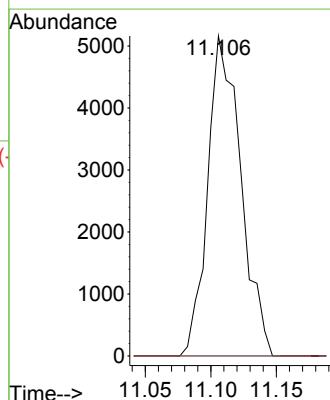
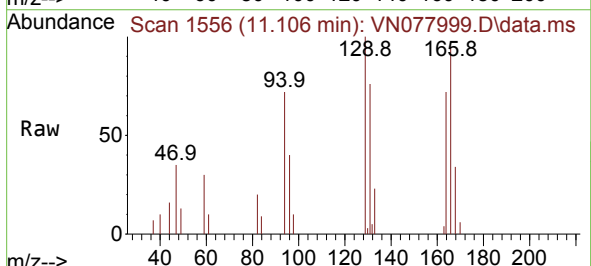
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

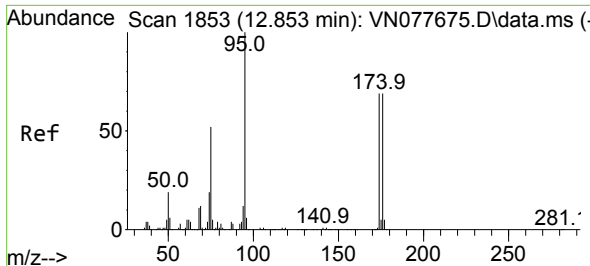
Tgt Ion: 43 Resp: 1122  
Ion Ratio Lower Upper  
43 100  
58 11.3 31.7 95.1#



#60  
Dibromochloromethane  
Concen: 1.824 ug/l  
RT: 11.106 min Scan# 1556  
Delta R.T. -0.259 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 129 Resp: 9075  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#

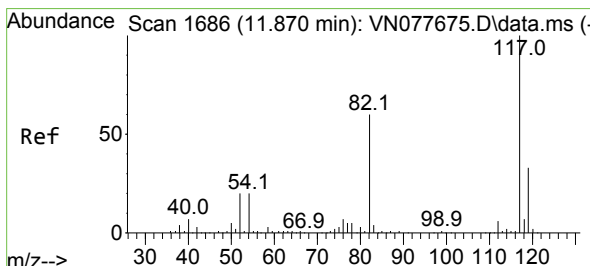
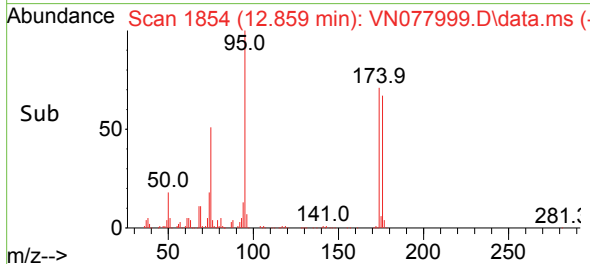
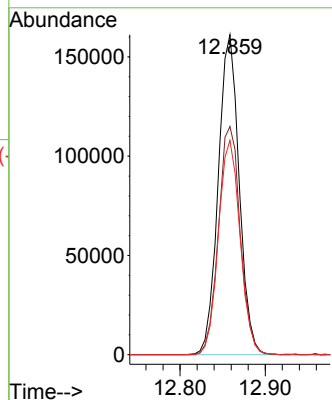
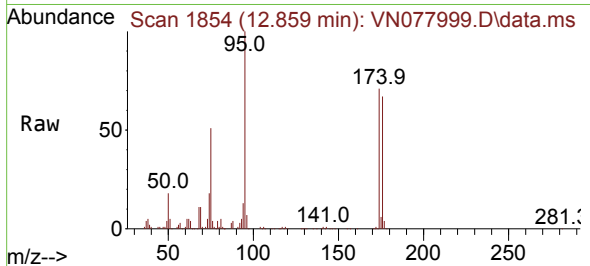




#62  
4-Bromofluorobenzene  
Concen: 44.822 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

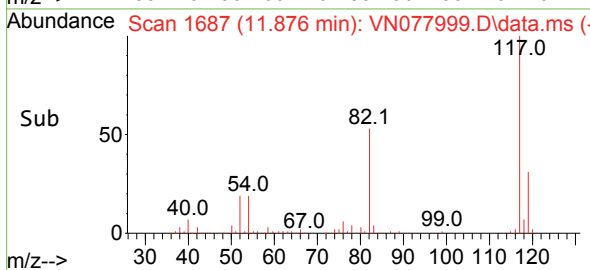
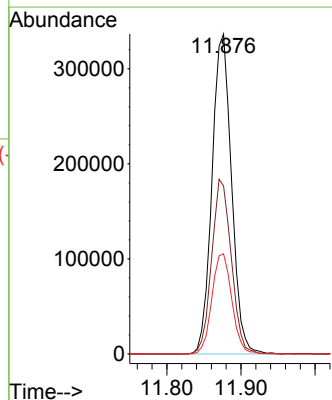
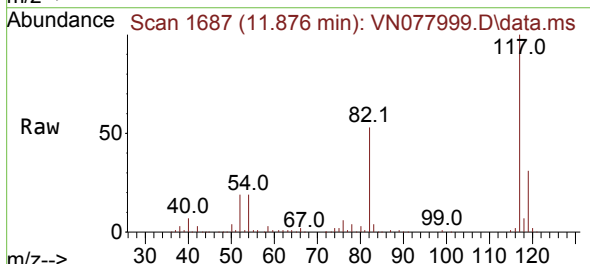
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

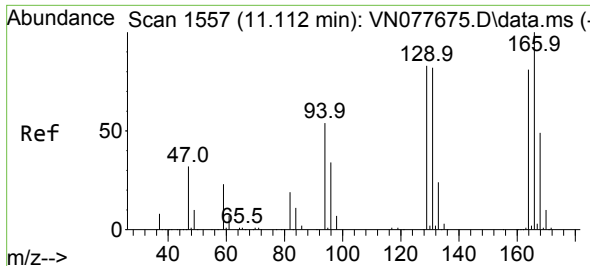
Tgt Ion: 95 Resp: 275301  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 143.8  
176 69.2 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.876 min Scan# 1687  
Delta R.T. 0.006 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

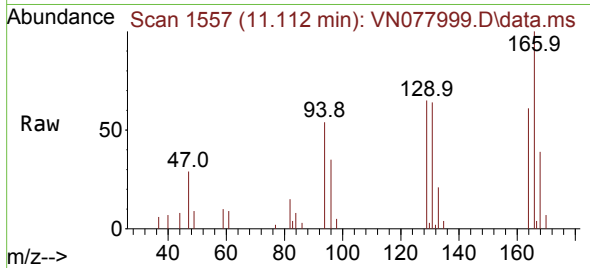
Tgt Ion: 117 Resp: 616478  
Ion Ratio Lower Upper  
117 100  
82 52.5 44.0 66.0  
119 31.3 25.6 38.4



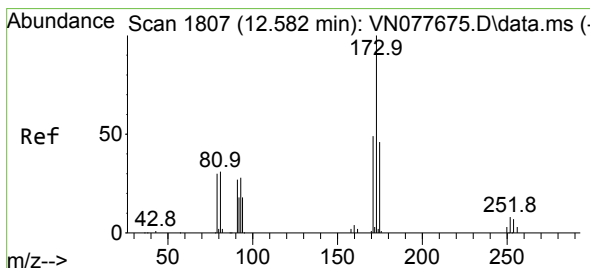
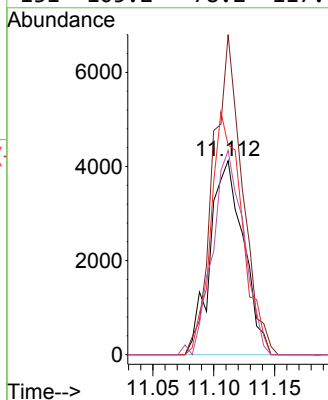
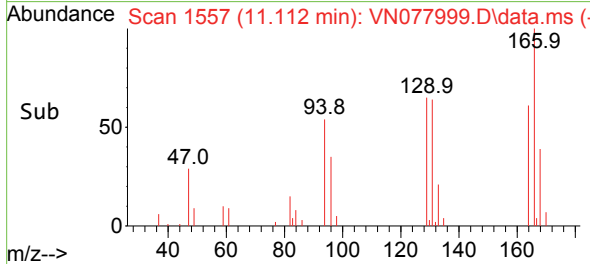


#64  
Tetrachloroethene  
Concen: 1.822 ug/l  
RT: 11.112 min Scan# 1111  
Delta R.T. -0.000 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

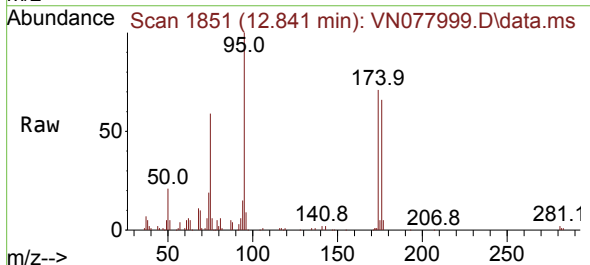
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523



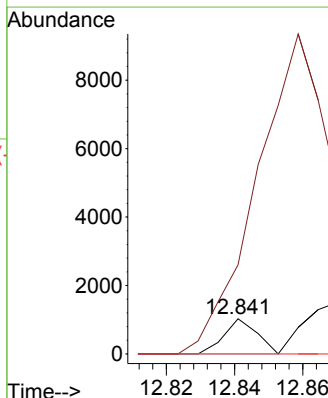
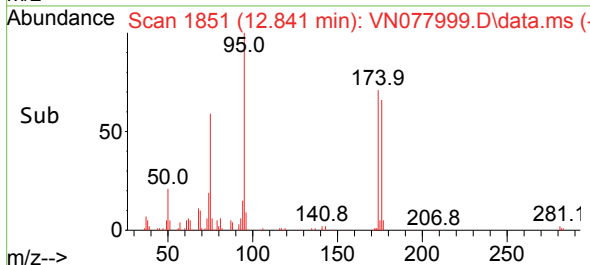
Tgt Ion:164 Resp: 7853  
Ion Ratio Lower Upper  
164 100  
166 165.0 101.4 152.0#  
129 108.0 82.4 123.6  
131 105.2 78.2 117.4

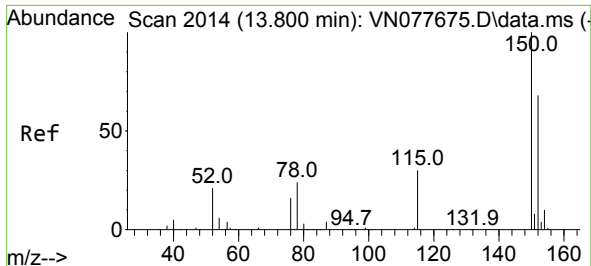


#71  
Bromoform  
Concen: 0.225 ug/l  
RT: 12.841 min Scan# 1851  
Delta R.T. 0.259 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43



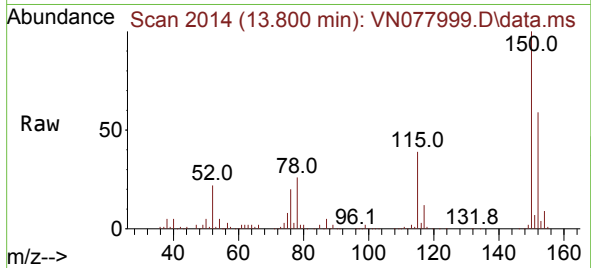
Tgt Ion:173 Resp: 692  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0



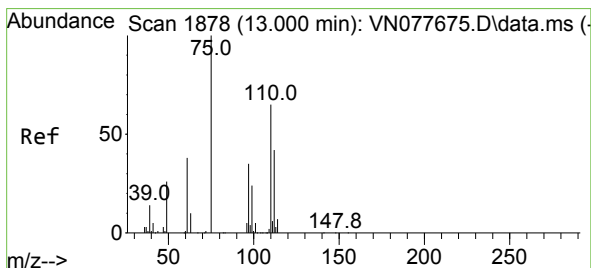
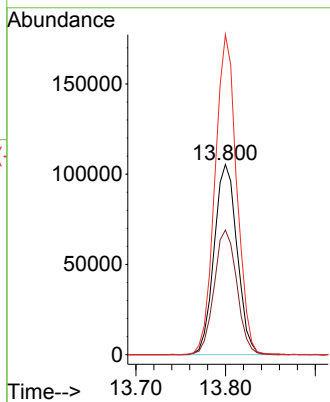
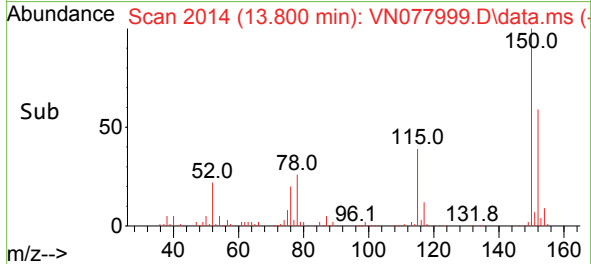


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.800 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN077999.D  
 Acq: 31 May 2023 17:43

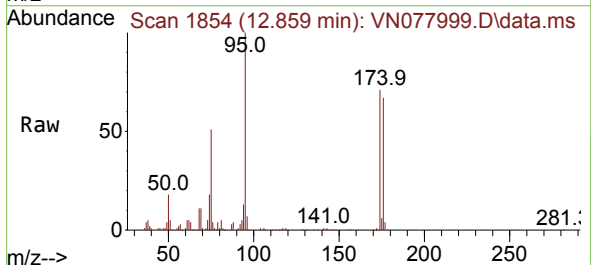
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE108D1-20230523



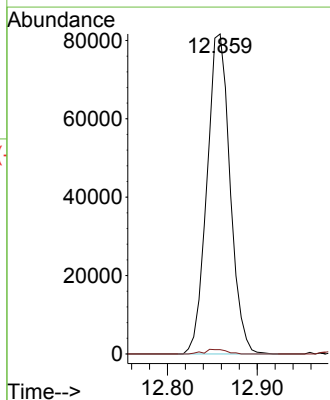
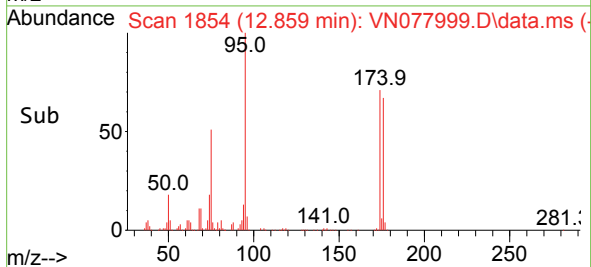
Tgt Ion:152 Resp: 187209  
 Ion Ratio Lower Upper  
 152 100  
 115 64.8 32.3 96.8  
 150 159.3 0.0 355.8

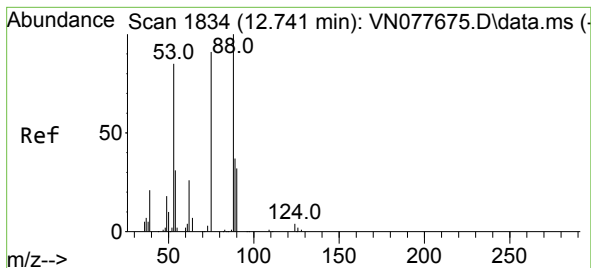


#76  
 1,2,3-Trichloropropane  
 Concen: 31.132 ug/l  
 RT: 12.859 min Scan# 1854  
 Delta R.T. -0.141 min  
 Lab File: VN077999.D  
 Acq: 31 May 2023 17:43



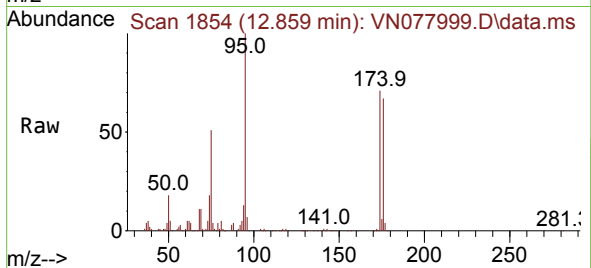
Tgt Ion: 75 Resp: 145960  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 84.5 253.5#



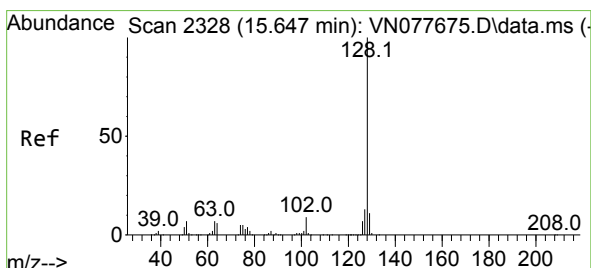
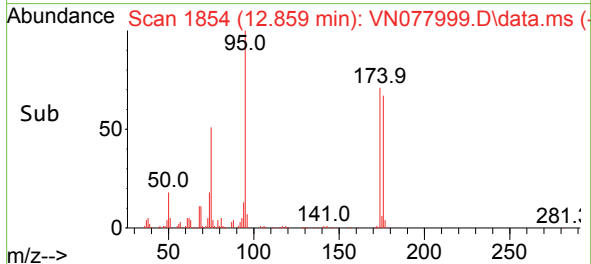
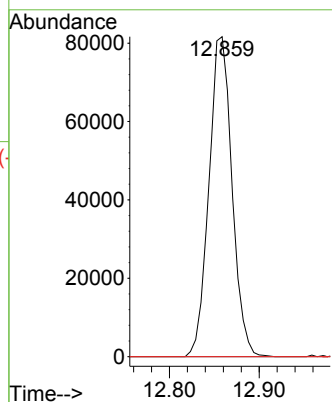


#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.515 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.118 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE108D1-20230523

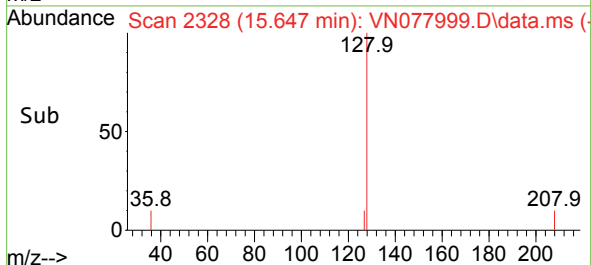
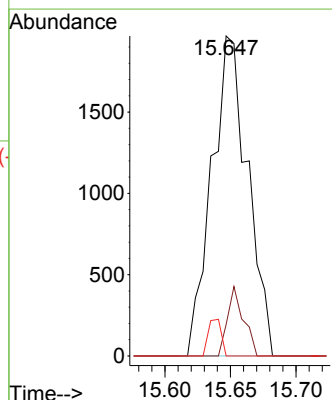
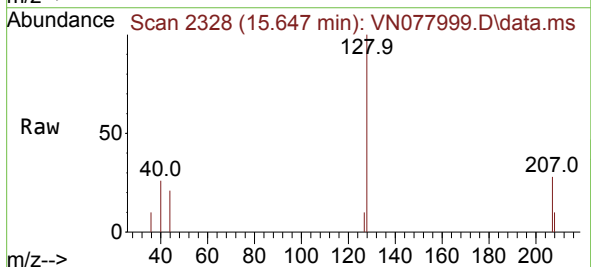


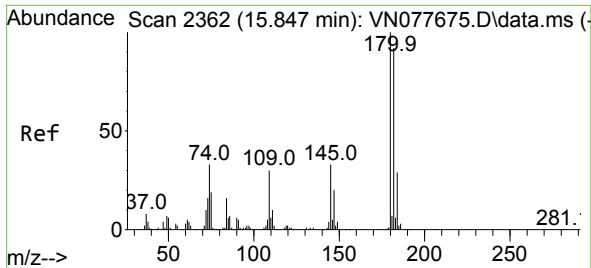
Tgt Ion: 75 Resp: 145960  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#



#95  
Naphthalene  
Concen: 0.293 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. -0.000 min  
Lab File: VN077999.D  
Acq: 31 May 2023 17:43

Tgt Ion: 128 Resp: 3748  
Ion Ratio Lower Upper  
128 100  
127 9.7 10.0 15.0#  
129 4.2 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.310 ug/l  
 RT: 15.847 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN077999.D  
 Acq: 31 May 2023 17:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE108D1-20230523

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1128  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 51.2  | 46.2  | 138.6 |
| 145      | 33.2  | 17.5  | 52.6  |

