

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120821\  
 Data File : VN069859.D  
 Acq On : 8 Dec 2021 14:22  
 Operator : JC/MD  
 Sample : M4957-04DL 5X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW179D2-20211206DL

Quant Time: Dec 09 11:39:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

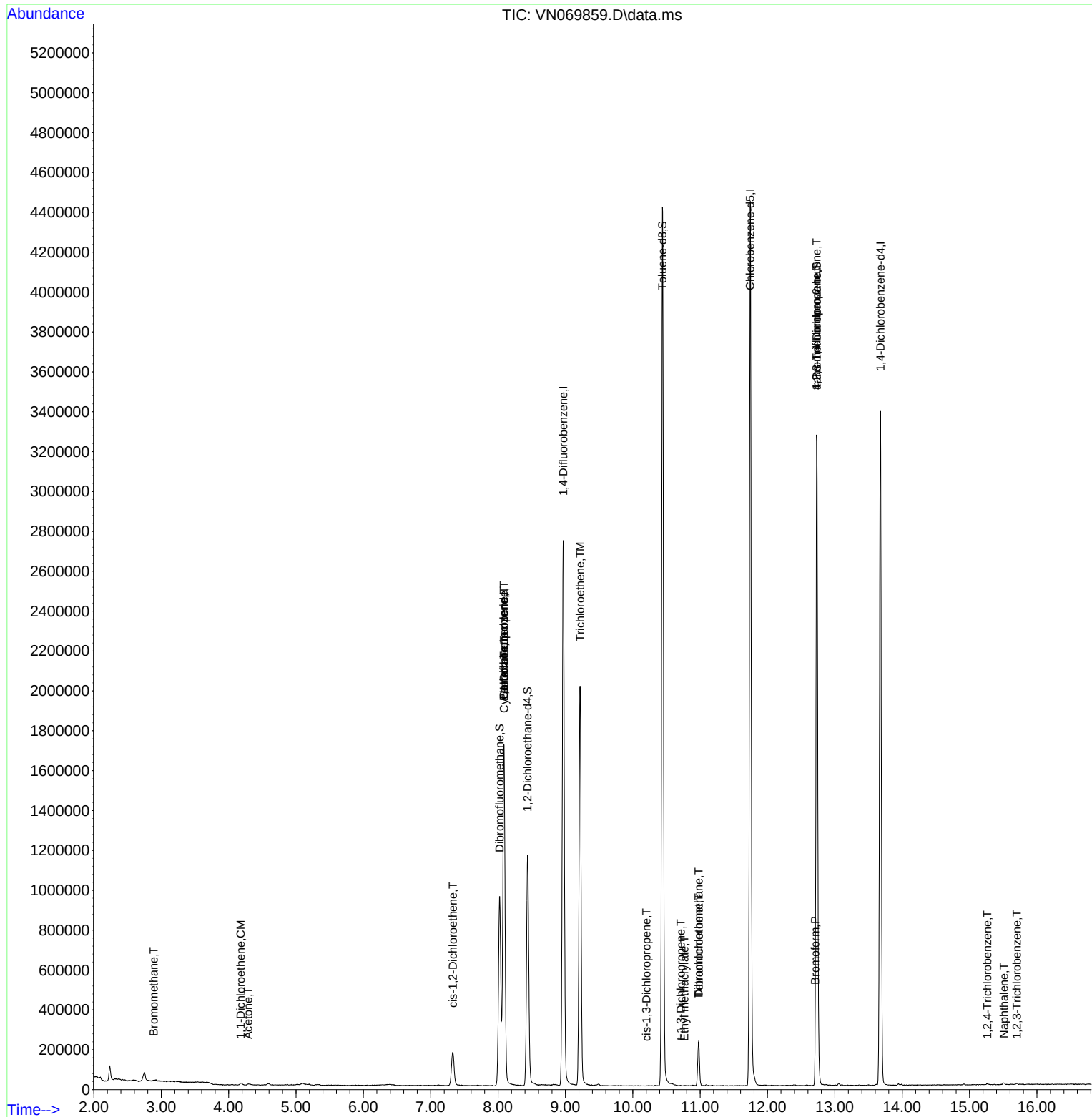
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.088     | 168            | 1272819  | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968     | 114            | 2304370  | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744    | 117            | 2465577  | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678    | 152            | 920470   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437     | 65             | 1005035  | 51.141     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 61 - 141 | Recovery | = 102.280% |        |          |
| 35) Dibromofluoromethane      | 8.021     | 113            | 690782   | 47.858     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 69 - 133 | Recovery | = 95.720%  |        |          |
| 50) Toluene-d8                | 10.440    | 98             | 2989766  | 51.585     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 65 - 126 | Recovery | = 103.180% |        |          |
| 62) 4-Bromofluorobenzene      | 12.731    | 95             | 1149586  | 54.751     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 58 - 135 | Recovery | = 109.500% |        |          |
| Target Compounds              |           |                |          |            |        | Qvalue   |
| 5) Bromomethane               | 2.888     | 94             | 3243     | 0.349      | ug/l   | 88       |
| 12) 1,1-Dichloroethene        | 4.178     | 96             | 2606     | 0.215      | ug/l   | 92       |
| 16) Acetone                   | 4.291     | 43             | 4079     | 0.345      | ug/l # | 72       |
| 27) cis-1,2-Dichloroethene    | 7.329     | 96             | 91765    | 5.768      | ug/l   | 95       |
| 31) Cyclohexane               | 8.091     | 56             | 32554    | 1.190      | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 8.088     | 75             | 108685   | 4.954      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.086     | 117            | 131221   | 6.100      | ug/l # | 17       |
| 44) Trichloroethene           | 9.217     | 130            | 709131   | 44.309     | ug/l   | 91       |
| 53) t-1,3-Dichloropropene     | 10.711    | 75             | 268      | 2.804      | ug/l # | 34       |
| 54) cis-1,3-Dichloropropene   | 10.202    | 75             | 62       | 2.001      | ug/l # | 36       |
| 56) Ethyl methacrylate        | 10.768    | 69             | 241      | 2.287      | ug/l # | 4        |
| 60) Dibromochloromethane      | 10.979    | 129            | 48810    | 5.003      | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.977    | 164            | 49472    | 2.959      | ug/l   | 93       |
| 71) Bromoform                 | 12.707    | 173            | 137      | 2.739      | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.731    | 75             | 643244   | 24.368     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731    | 75             | 643244   | 77.337     | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.263    | 180            | 2068     | 3.007      | ug/l   | 88       |
| 95) Naphthalene               | 15.509    | 128            | 8082     | 4.150      | ug/l # | 87       |
| 96) 1,2,3-Trichlorobenzene    | 15.702    | 180            | 2292     | 2.584      | ug/l   | 90       |

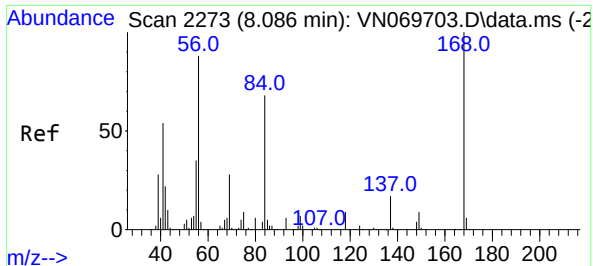
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

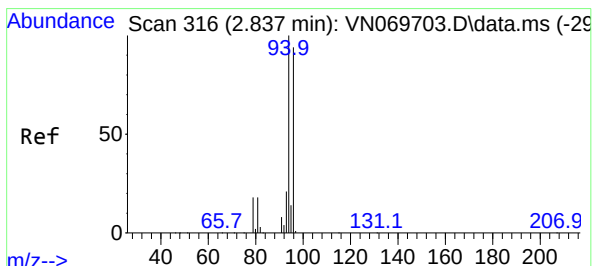
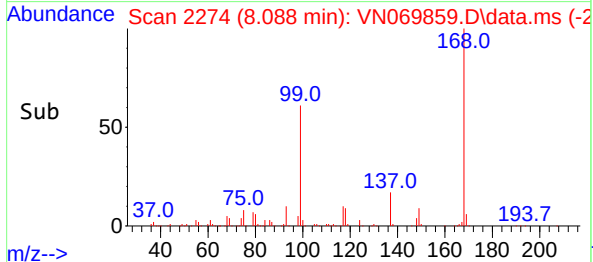
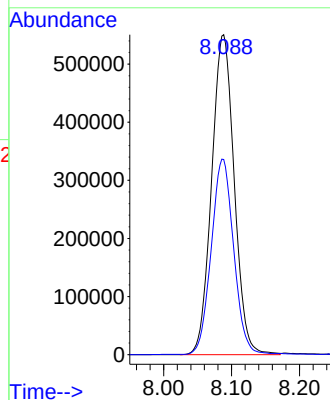
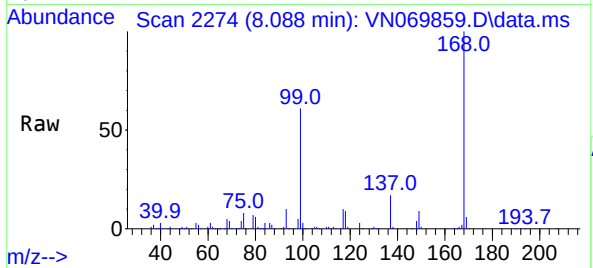




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

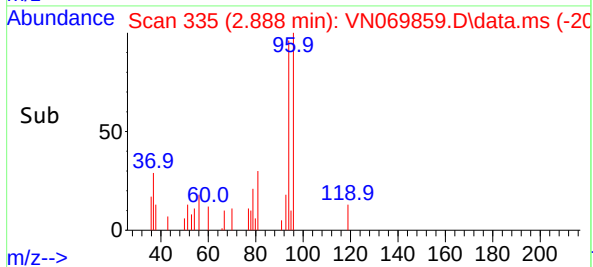
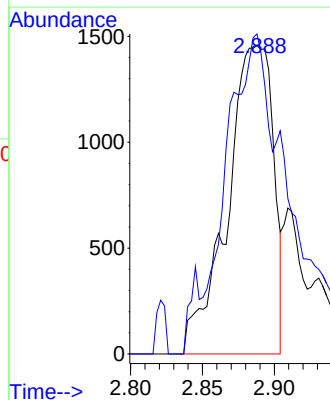
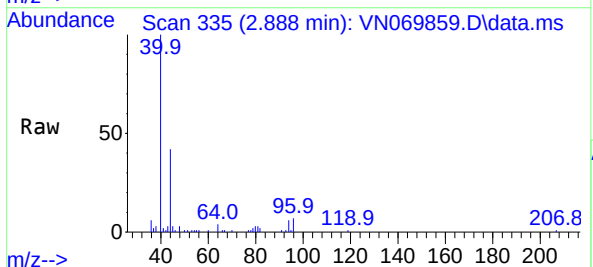
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

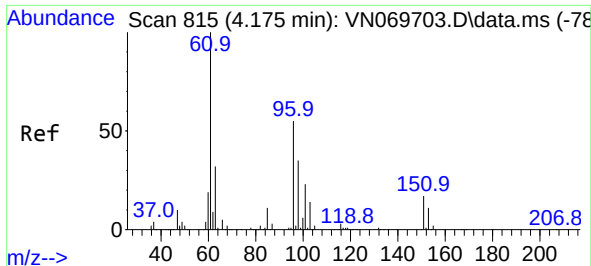
Tgt Ion:168 Resp: 1272819  
Ion Ratio Lower Upper  
168 100  
99 60.9 41.3 61.9



#5  
Bromomethane  
Concen: 0.349 ug/l  
RT: 2.888 min Scan# 335  
Delta R.T. 0.051 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion: 94 Resp: 3243  
Ion Ratio Lower Upper  
94 100  
96 103.8 73.8 110.8

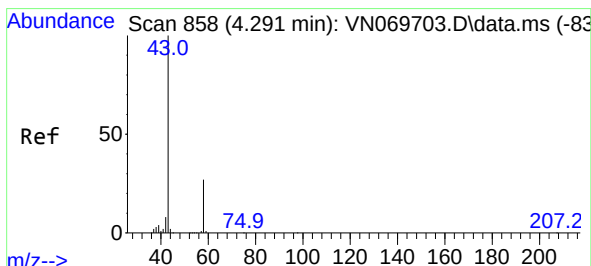
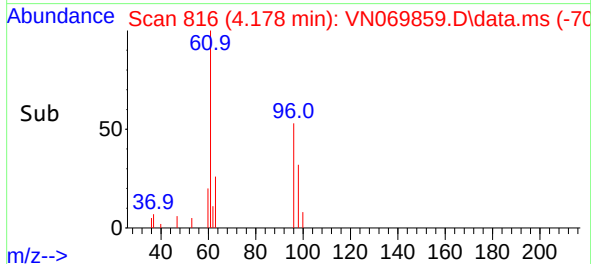
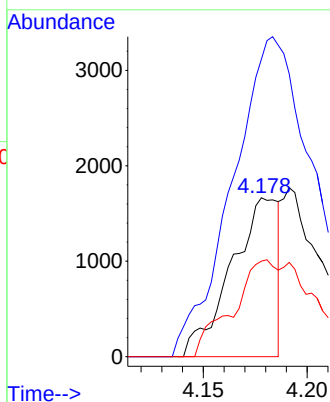
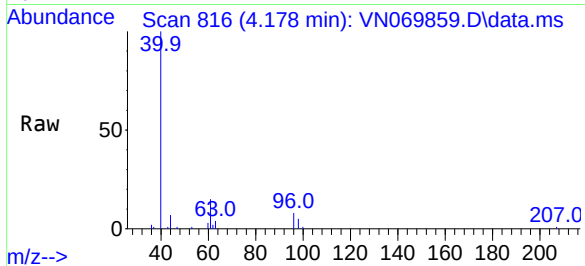




#12  
1,1-Dichloroethene  
Concen: 0.215 ug/l  
RT: 4.178 min Scan# 815  
Delta R.T. 0.003 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

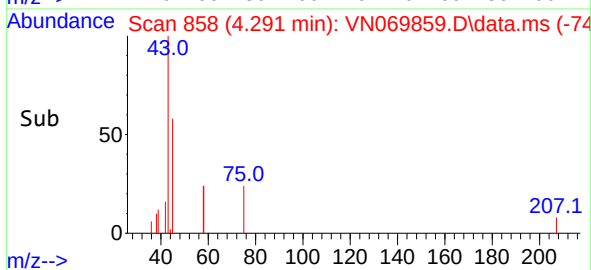
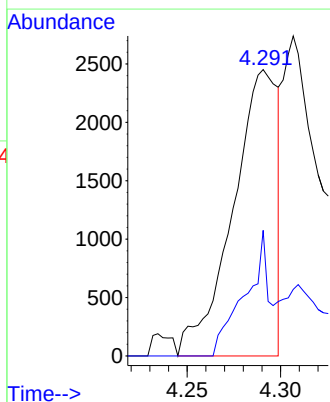
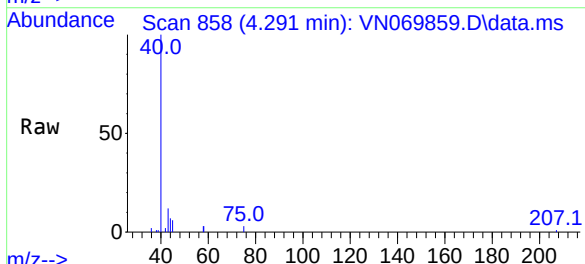
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

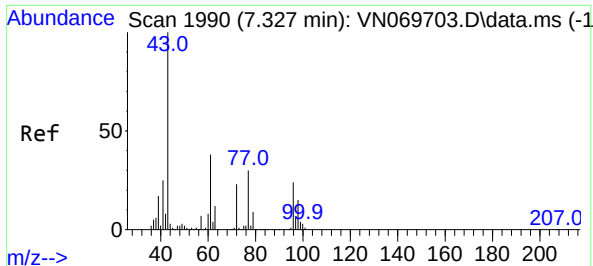
Tgt Ion: 96 Resp: 2606  
Ion Ratio Lower Upper  
96 100  
61 175.9 131.0 196.6  
98 60.1 52.4 78.6



#16  
Acetone  
Concen: 0.345 ug/l  
RT: 4.291 min Scan# 858  
Delta R.T. 0.000 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion: 43 Resp: 4079  
Ion Ratio Lower Upper  
43 100  
58 43.8 23.1 34.7#

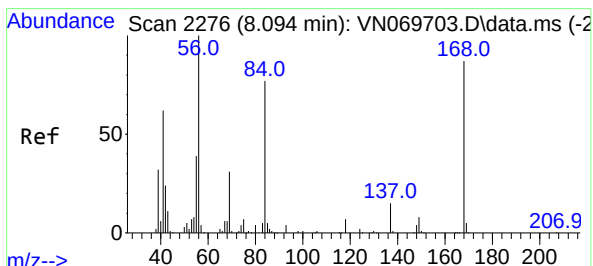
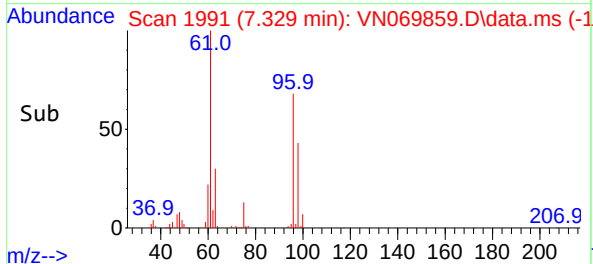
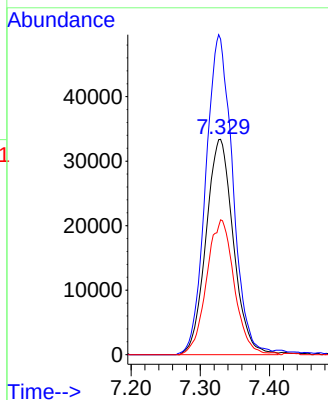
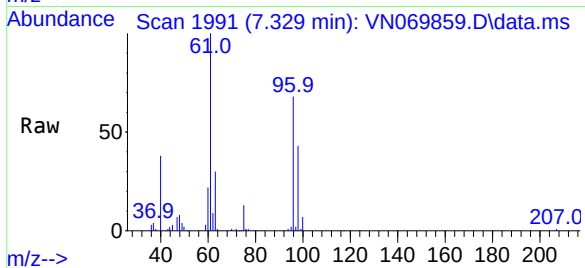




#27  
 cis-1,2-Dichloroethene  
 Concen: 5.768 ug/l  
 RT: 7.329 min Scan# 1991  
 Delta R.T. 0.003 min  
 Lab File: VN069859.D  
 Acq: 8 Dec 2021 14:22

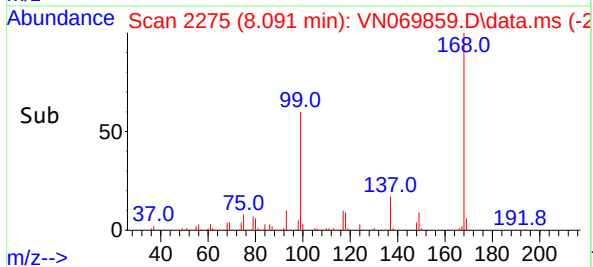
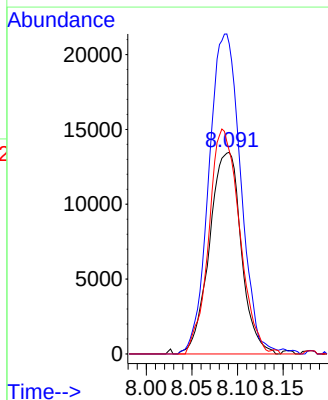
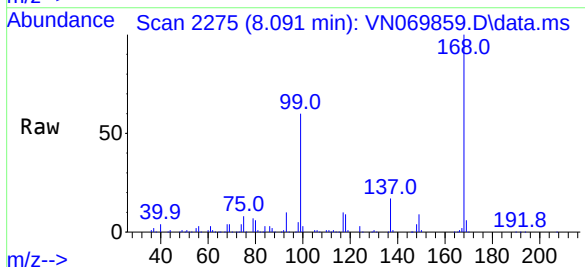
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW179D2-20211206DL

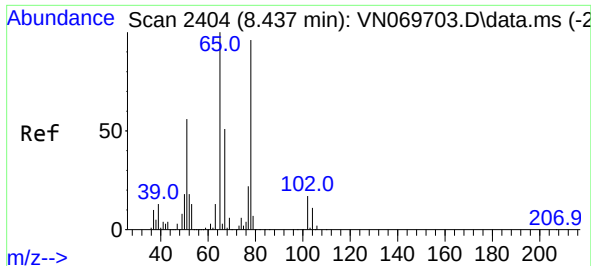
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 91765 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 145.9 | 0.0   | 275.0 |
| 98       | 63.1  | 0.0   | 129.6 |



#31  
 Cyclohexane  
 Concen: 1.190 ug/l  
 RT: 8.091 min Scan# 2275  
 Delta R.T. -0.003 min  
 Lab File: VN069859.D  
 Acq: 8 Dec 2021 14:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 32554 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 153.8 | 27.1  | 40.7# |
| 84       | 100.8 | 73.4  | 110.0 |





#33

1,2-Dichloroethane-d4

Concen: 51.141 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. 0.000 min

Lab File: VN069859.D

Acq: 8 Dec 2021 14:22

Instrument :

MSVOA\_N

ClientSampleId :

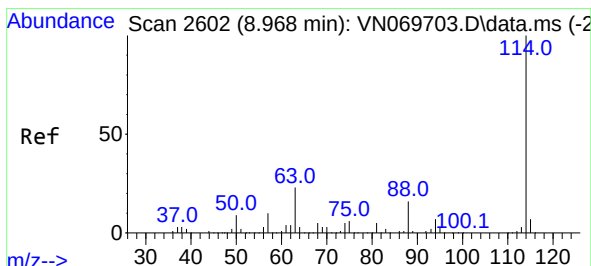
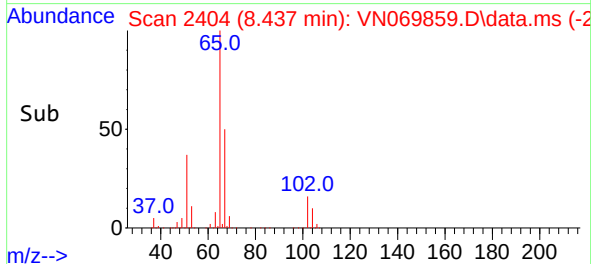
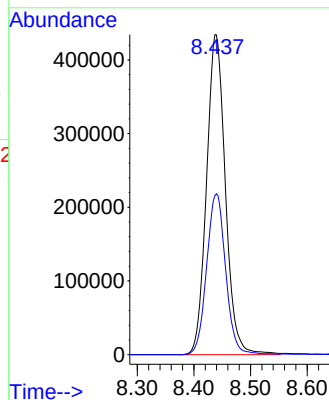
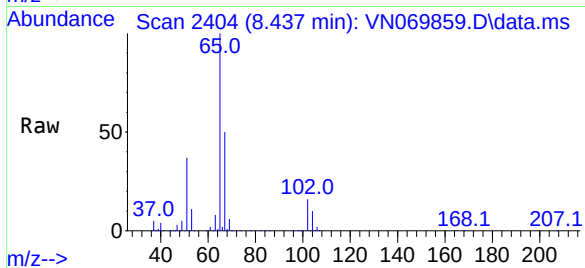
MW179D2-20211206DL

Tgt Ion: 65 Resp: 1005035

Ion Ratio Lower Upper

65 100

67 50.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN069859.D

Acq: 8 Dec 2021 14:22

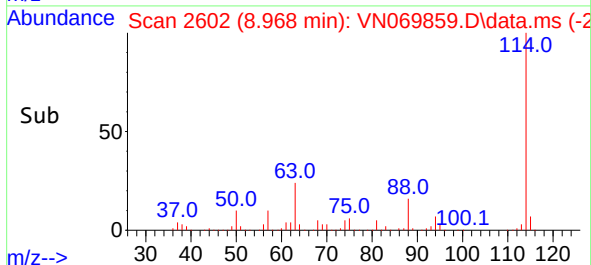
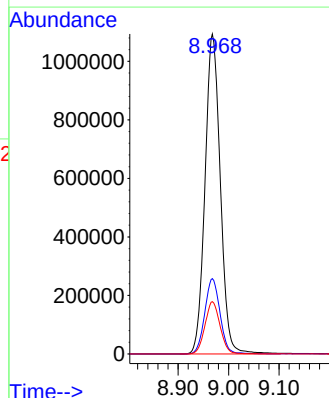
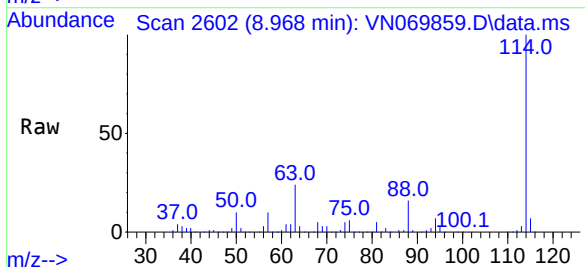
Tgt Ion: 114 Resp: 2304370

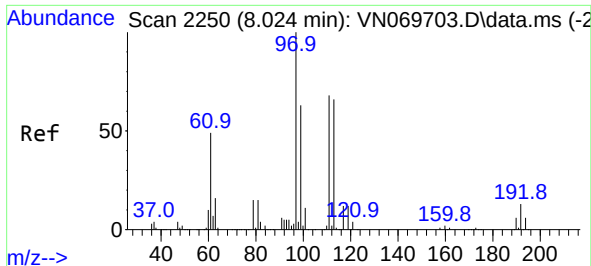
Ion Ratio Lower Upper

114 100

63 23.6 0.0 37.8

88 16.4 0.0 27.4

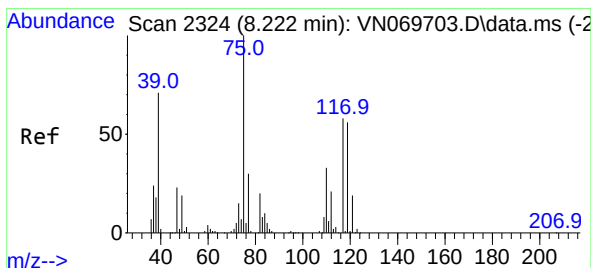
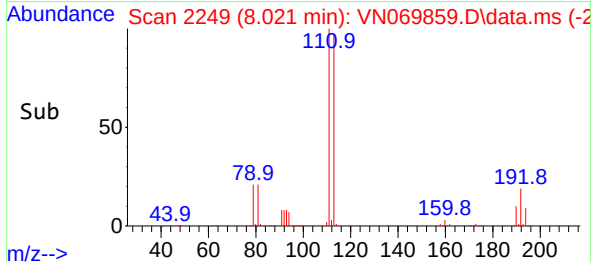
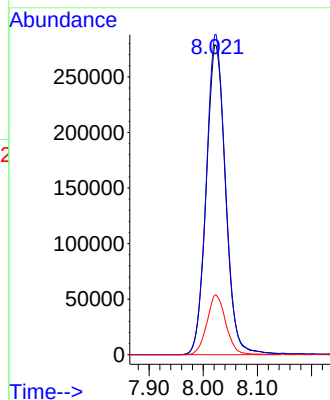
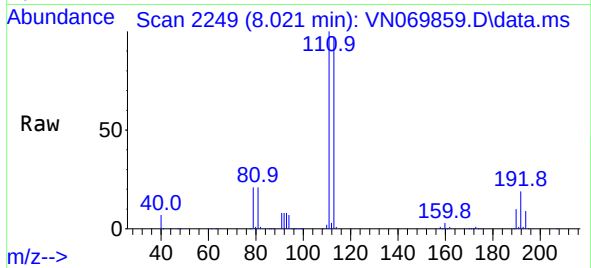




#35  
Dibromofluoromethane  
Concen: 47.858 ug/l  
RT: 8.021 min Scan# 2113  
Delta R.T. -0.003 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

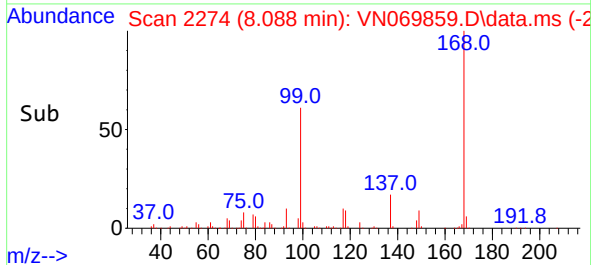
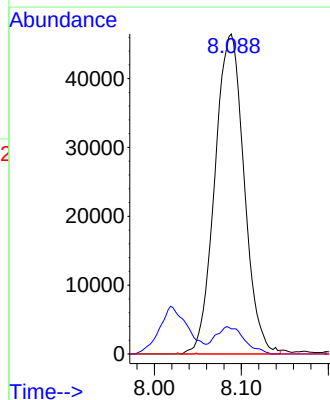
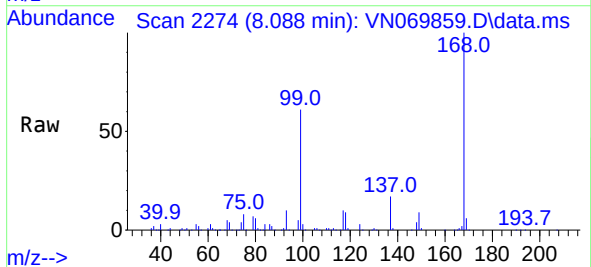
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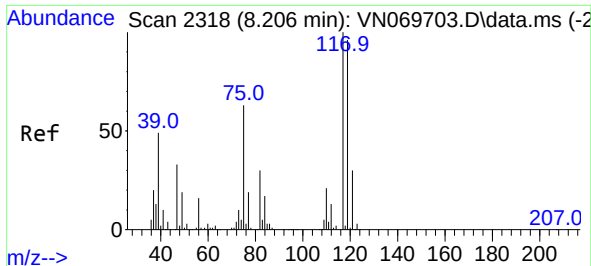
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Ion Ratio Lower Upper  
113 100  
111 103.1 82.2 123.2  
192 18.9 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.954 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

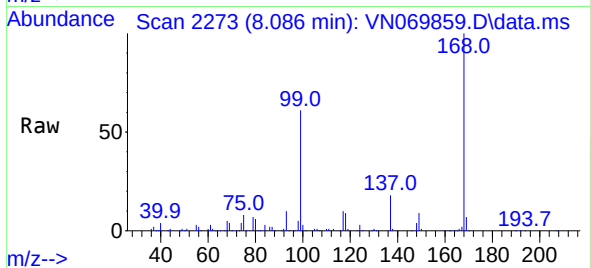
Tgt Ion: 75 Resp: 108685  
Ion Ratio Lower Upper  
75 100  
110 8.6 18.4 55.2#  
77 0.0 24.4 36.6#



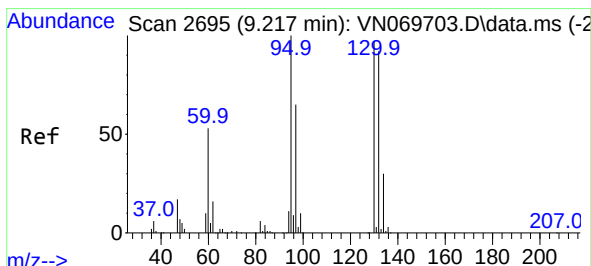
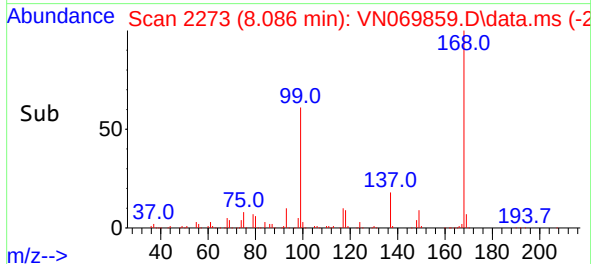
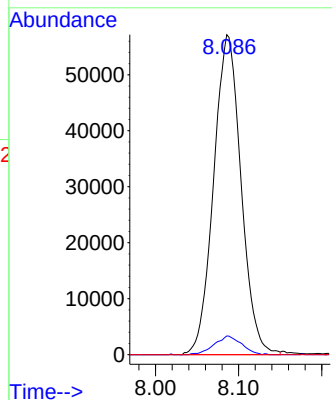


#38  
Carbon Tetrachloride  
Concen: 6.100 ug/l  
RT: 8.086 min Scan# 211  
Delta R.T. -0.121 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

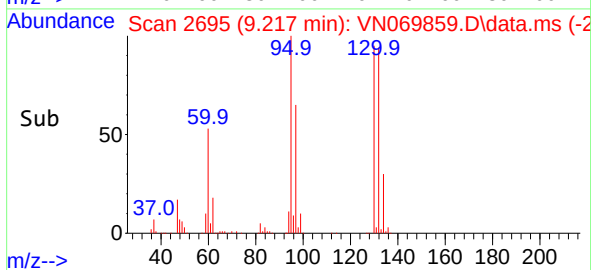
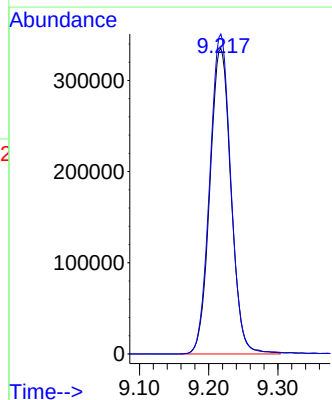
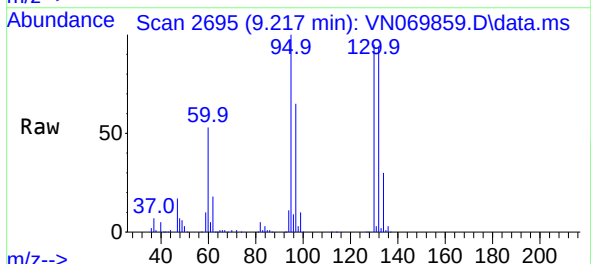


Tgt Ion:117 Resp: 131221  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.1 114.1#  
121 0.0 24.2 36.2#

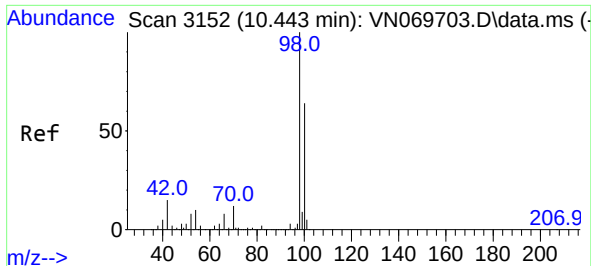


#44  
Trichloroethene  
Concen: 44.309 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. 0.000 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion:130 Resp: 709131  
Ion Ratio Lower Upper  
130 100  
95 104.8 0.0 191.2



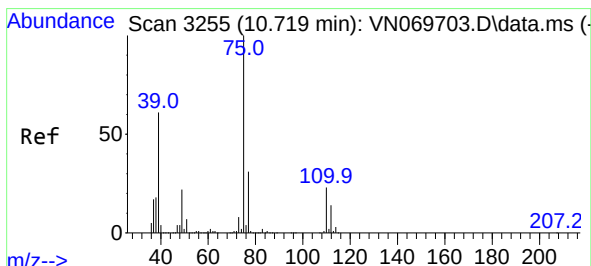
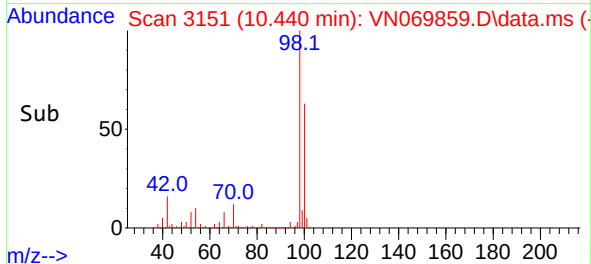
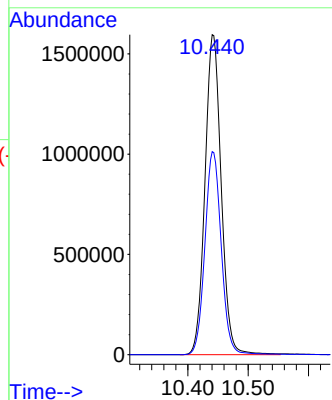
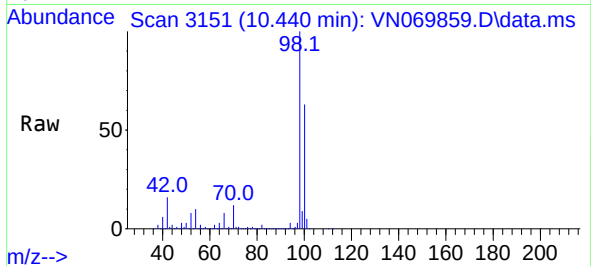




#50  
Toluene-d8  
Concen: 51.585 ug/l  
RT: 10.440 min Scan# 3152  
Delta R.T. -0.003 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

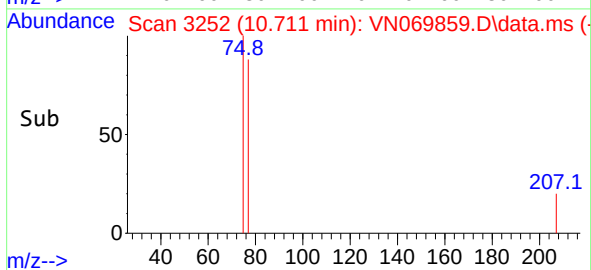
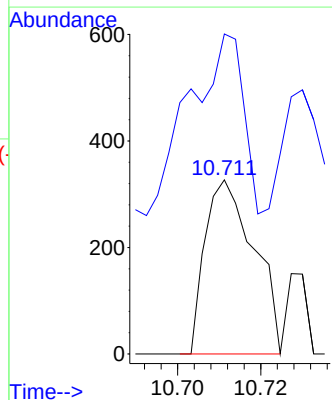
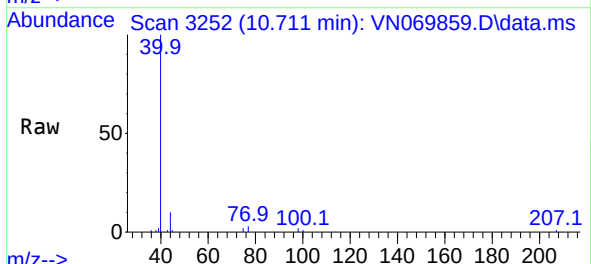
Instrument :  
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ClientSampleId :  
MW179D2-20211206DL

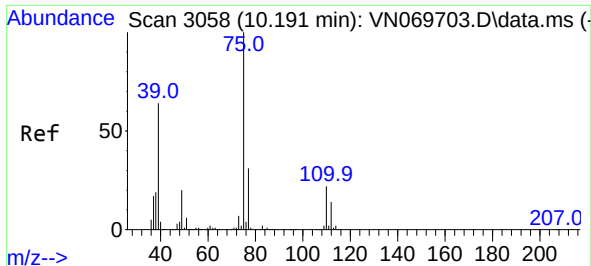
Tgt Ion: 98 Resp: 2989766  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.4 75.6



#53  
t-1,3-Dichloropropene  
Concen: 2.804 ug/l  
RT: 10.711 min Scan# 3252  
Delta R.T. -0.008 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion: 75 Resp: 268  
Ion Ratio Lower Upper  
75 100  
77 68.8 25.6 38.4#

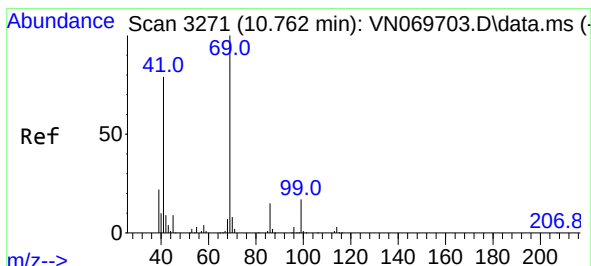
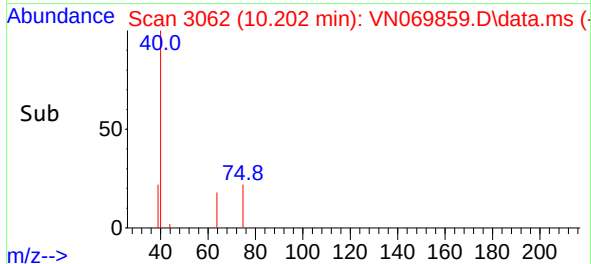
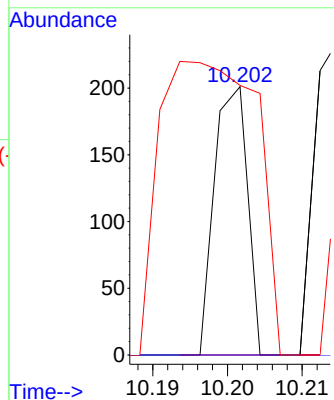
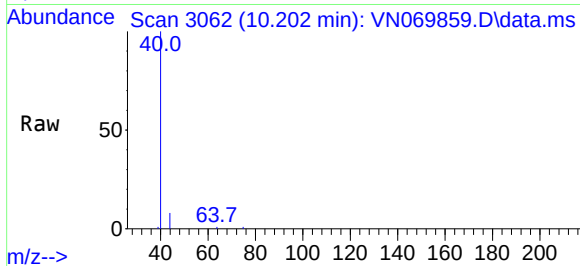




#54  
cis-1,3-Dichloropropene  
Concen: 2.001 ug/l  
RT: 10.202 min Scan# 3062  
Delta R.T. 0.011 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

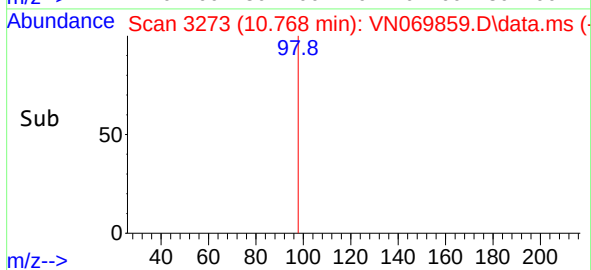
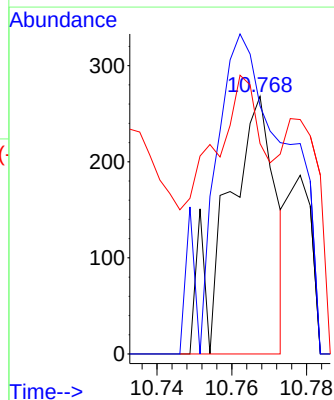
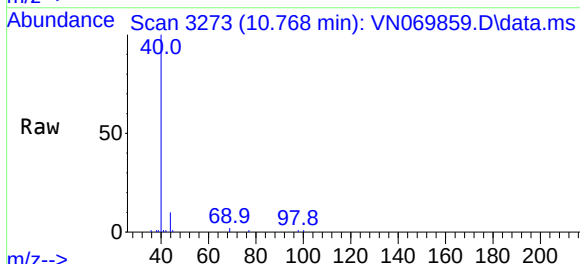
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

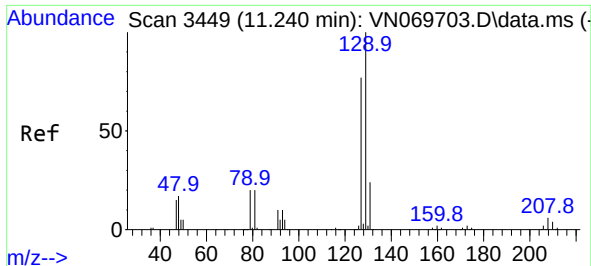
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 62    |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 26.4  | 39.6# |
| 39       | 100.5 | 42.5  | 63.7# |



#56  
Ethyl methacrylate  
Concen: 2.287 ug/l  
RT: 10.768 min Scan# 3273  
Delta R.T. 0.006 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 241   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 188.8 | 51.4  | 77.0# |
| 39       | 44.4  | 34.6  | 52.0  |

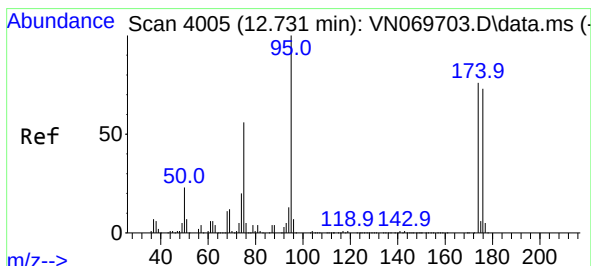
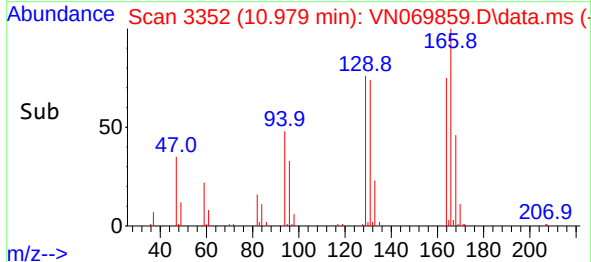
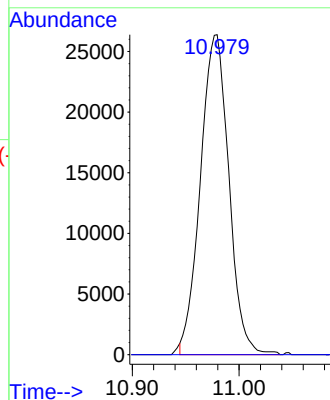
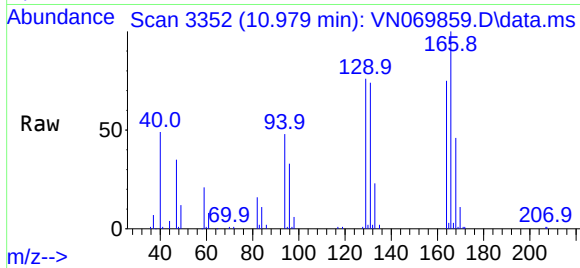




#60  
Dibromochloromethane  
Concen: 5.003 ug/l  
RT: 10.979 min Scan# 31  
Delta R.T. -0.261 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

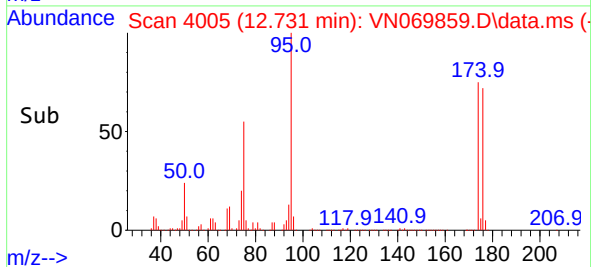
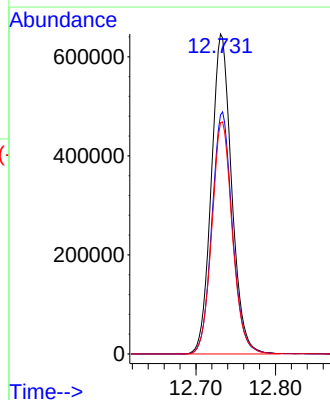
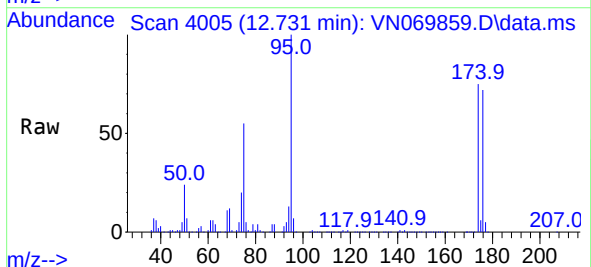
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

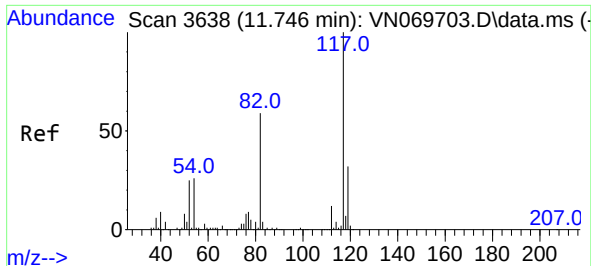
Tgt Ion:129 Resp: 48810  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#



#62  
4-Bromofluorobenzene  
Concen: 54.751 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

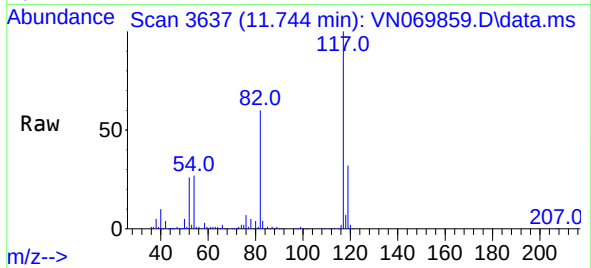
Tgt Ion: 95 Resp: 1149586  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 187.2  
176 73.3 0.0 181.4





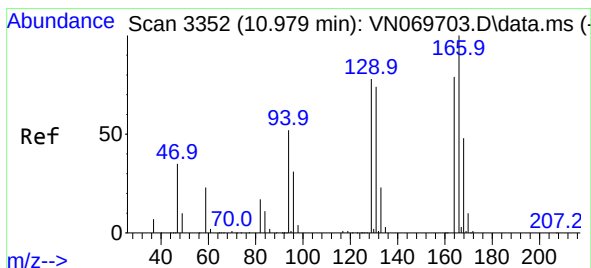
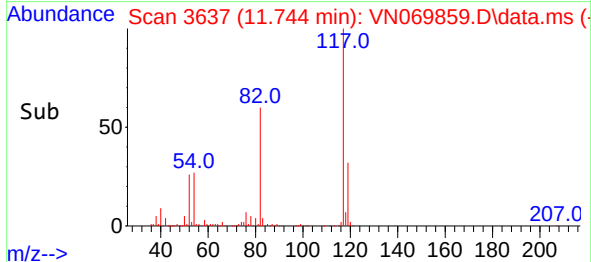
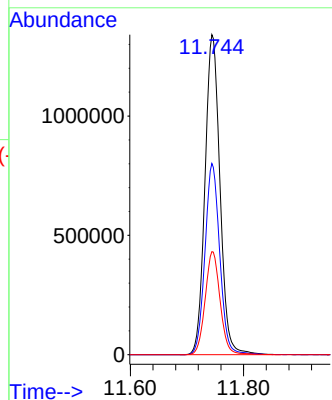
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3638  
Delta R.T. -0.002 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL



Tgt Ion:117 Resp: 2465577

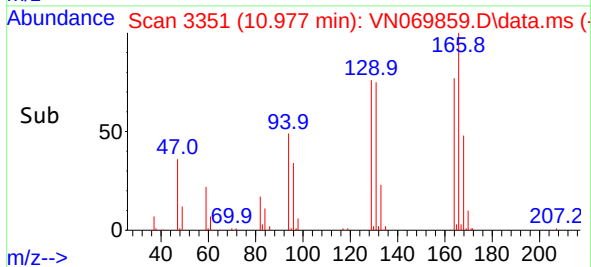
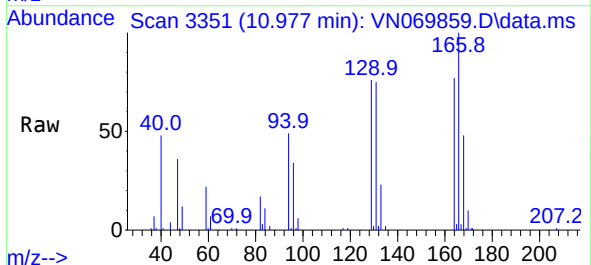
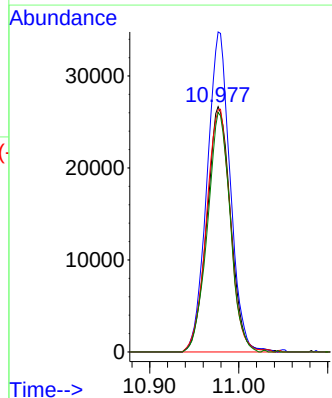
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 59.7  | 42.4  | 63.6  |
| 119 | 32.2  | 25.4  | 38.2  |

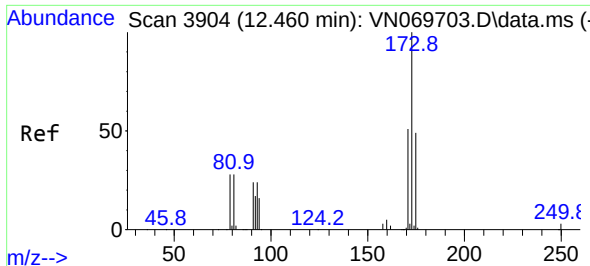


#64  
Tetrachloroethene  
Concen: 2.959 ug/l  
RT: 10.977 min Scan# 3351  
Delta R.T. -0.002 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion:164 Resp: 49472

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 130.5 | 101.9 | 152.9 |
| 129 | 98.7  | 72.0  | 108.0 |
| 131 | 97.7  | 70.9  | 106.3 |

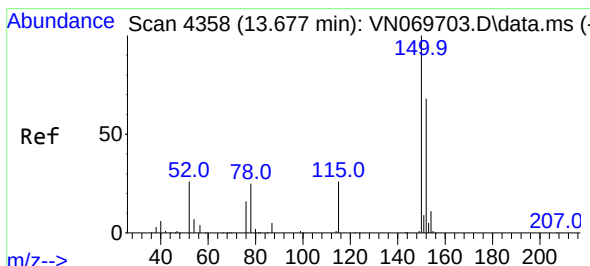
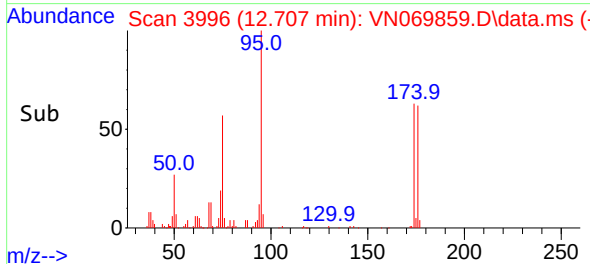
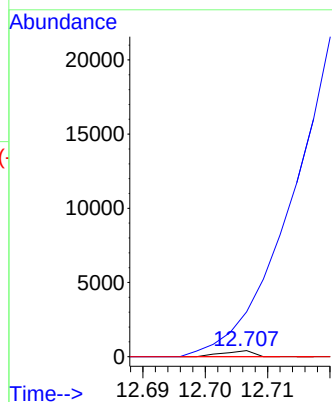
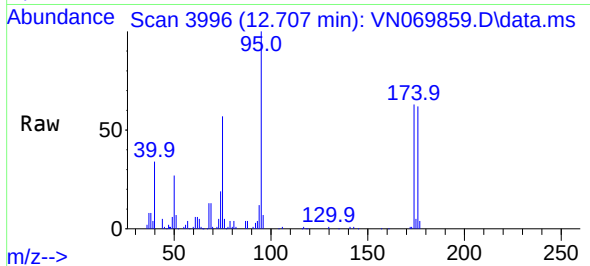




#71  
Bromoform  
Concen: 2.739 ug/l  
RT: 12.707 min Scan# 3904  
Delta R.T. 0.247 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

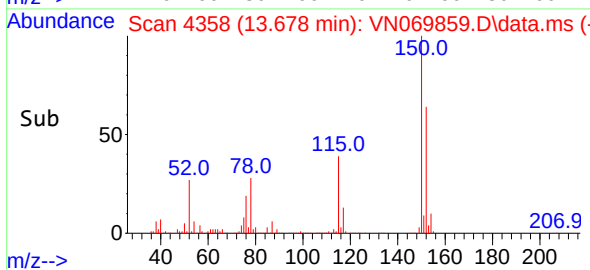
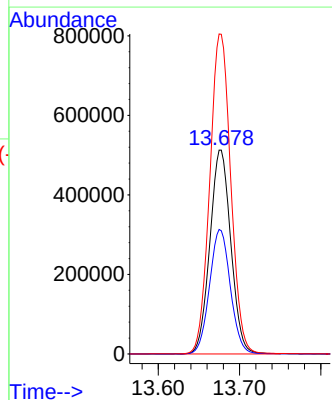
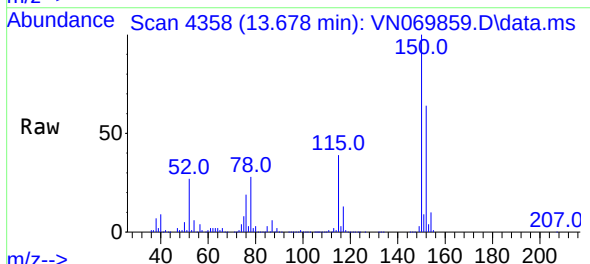
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

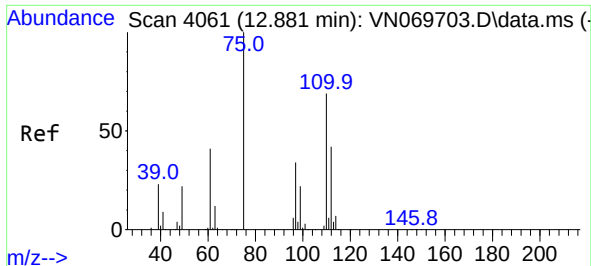
Tgt Ion:173 Resp: 137  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.000 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion:152 Resp: 920470  
Ion Ratio Lower Upper  
152 100  
115 60.7 27.5 82.5  
150 157.0 0.0 344.4

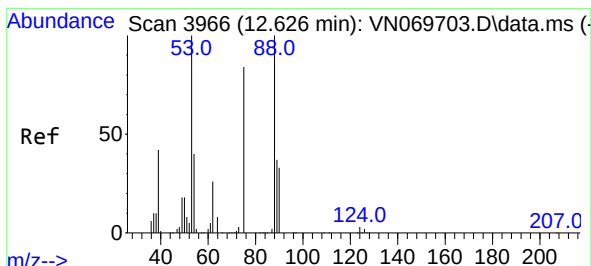
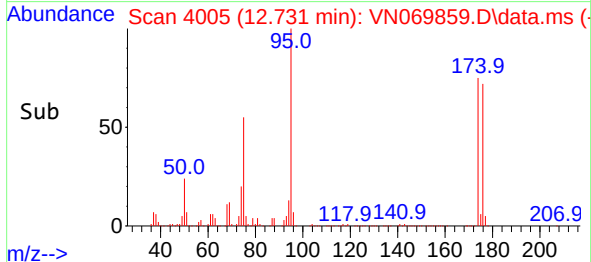
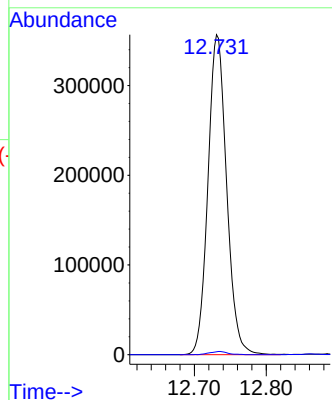
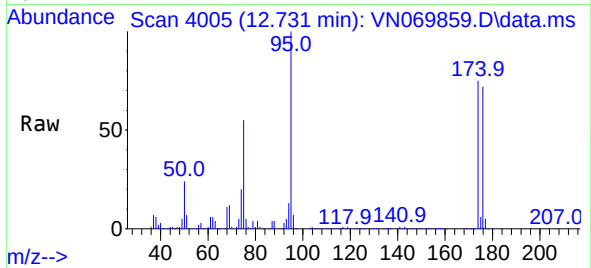




#76  
1,2,3-Trichloropropane  
Concen: 24.368 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

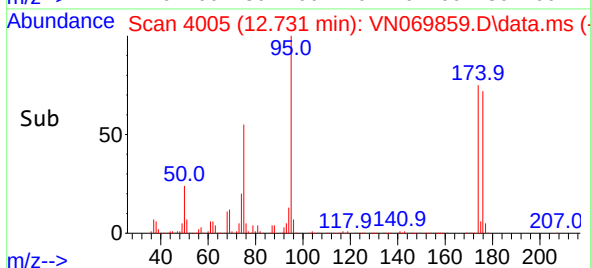
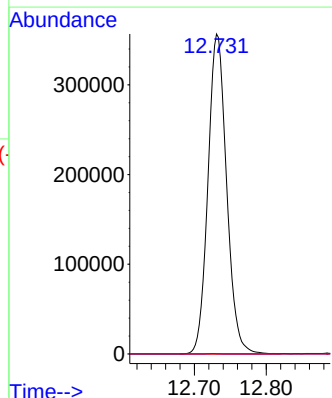
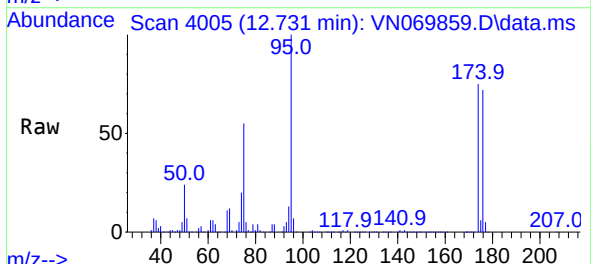
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

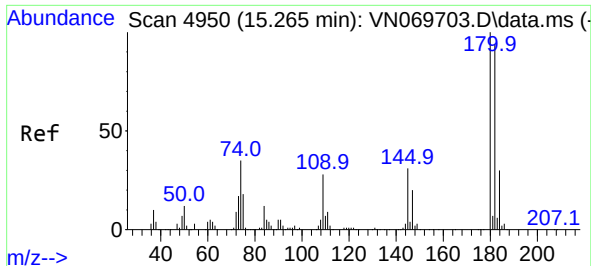
Tgt Ion: 75 Resp: 643244  
Ion Ratio Lower Upper  
75 100  
77 1.0 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.337 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

Tgt Ion: 75 Resp: 643244  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#

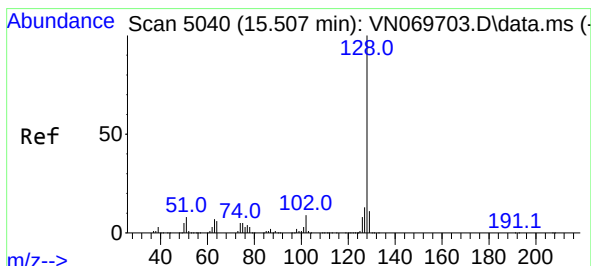
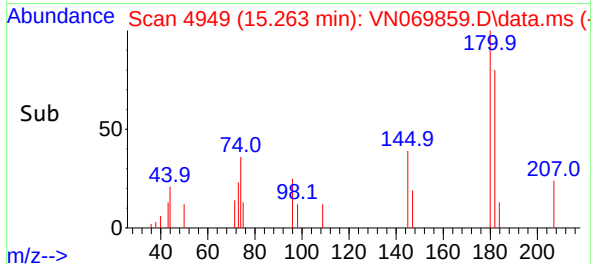
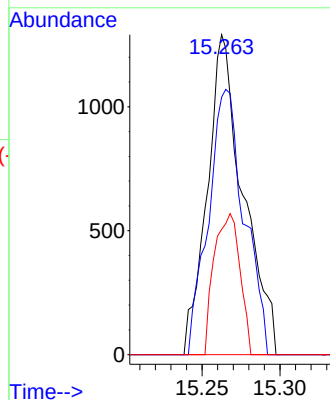
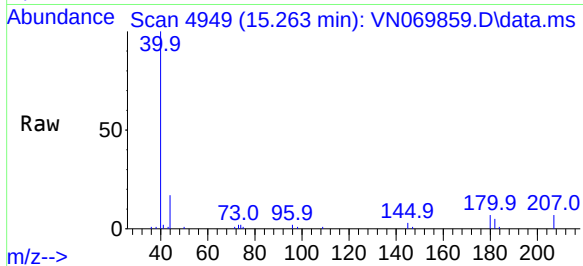




#93  
1,2,4-Trichlorobenzene  
Concen: 3.007 ug/l  
RT: 15.263 min Scan# 4950  
Delta R.T. -0.002 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

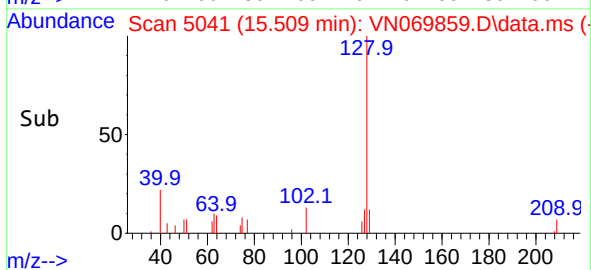
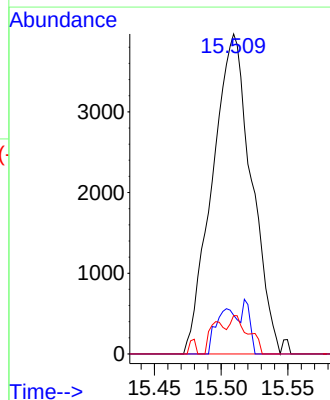
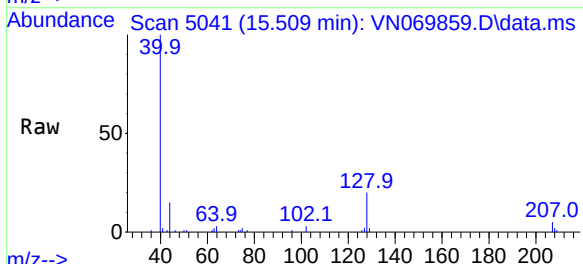
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW179D2-20211206DL

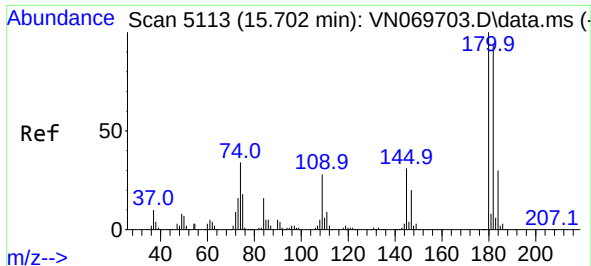
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:180 | Resp: | 2068  |       |
| Ion         | Ratio | Lower | Upper |
| 180         | 100   |       |       |
| 182         | 82.7  | 48.3  | 144.9 |
| 145         | 31.6  | 14.5  | 43.5  |



#95  
Naphthalene  
Concen: 4.150 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069859.D  
Acq: 8 Dec 2021 14:22

|             |       |       |  |
|-------------|-------|-------|--|
| Tgt Ion:128 | Resp: | 8082  |  |
| Ion Ratio   | Lower | Upper |  |
| 128 100     |       |       |  |
| 127 8.1     | 10.5  | 15.7# |  |
| 129 5.7     | 8.7   | 13.1# |  |





#96

1,2,3-Trichlorobenzene

Concen: 2.584 ug/l

RT: 15.702 min Scan# 5113

Delta R.T. 0.000 min

Lab File: VN069859.D

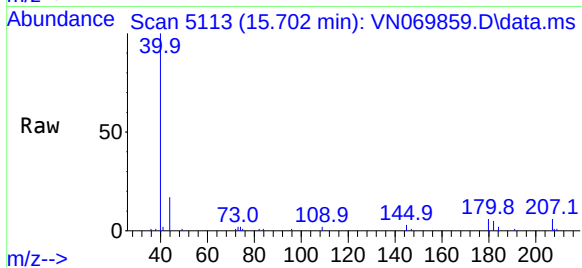
Acq: 8 Dec 2021 14:22

Instrument :

MSVOA\_N

ClientSampleId :

MW179D2-20211206DL



Tgt Ion:180 Resp: 2292

Ion Ratio Lower Upper

180 100

182 85.6 47.4 142.2

145 24.1 15.0 45.1

