

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031822\  
 Data File : VN071370.D  
 Acq On : 18 Mar 2022 14:17  
 Operator : JC\MD  
 Sample : N2009-06 100X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 19 07:06:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

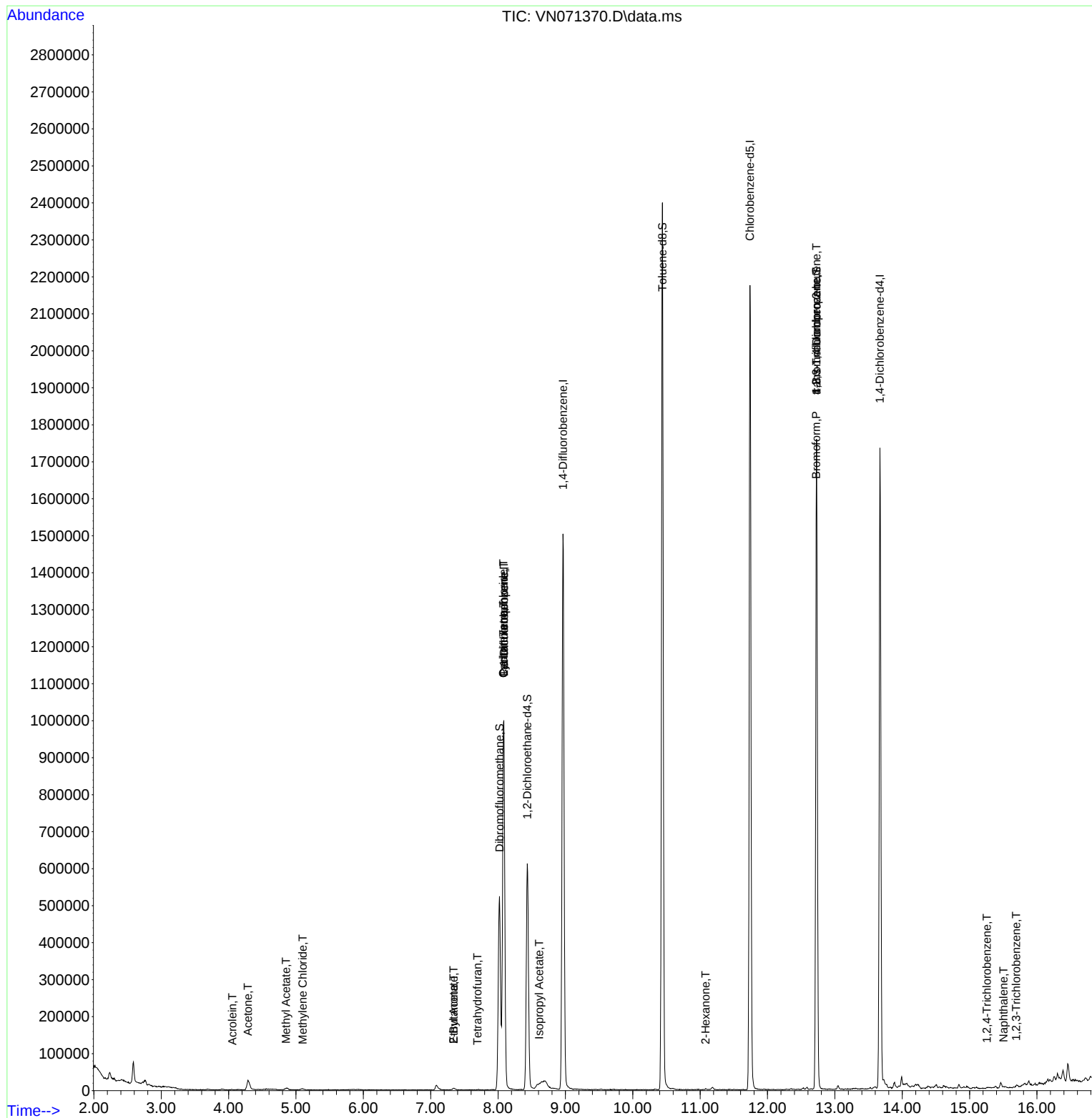
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.086  | 168   | 780994   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963  | 114   | 1307487  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739 | 117   | 1260137  | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.668 | 152   | 468039   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434  | 65    | 505647   | 47.240    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 94.480%  |
| 35) Dibromofluoromethane      | 8.022  | 113   | 386260   | 46.815    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 93.640%  |
| 50) Toluene-d8                | 10.439 | 98    | 1621488  | 48.811    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 97.620%  |
| 62) 4-Bromofluorobenzene      | 12.727 | 95    | 609313   | 54.166    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 108.340% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.846  | 94    | 1368     | Below Cal |        | 89       |
| 13) Acrolein                  | 4.057  | 56    | 646      | 0.290     | ug/l   | 92       |
| 16) Acetone                   | 4.287  | 43    | 47530    | 9.126     | ug/l   | 90       |
| 18) Methyl Acetate            | 4.851  | 43    | 10572    | 1.219     | ug/l   | 99       |
| 20) Methylene Chloride        | 5.098  | 84    | 2621     | 0.655     | ug/l # | 66       |
| 25) 2-Butanone                | 7.339  | 43    | 8872     | 1.057     | ug/l # | 88       |
| 29) Tetrahydrofuran           | 7.692  | 42    | 1204     | 0.207     | ug/l # | 45       |
| 31) Cyclohexane               | 8.081  | 56    | 16634    | 0.973     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 62214    | 4.706     | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.339  | 43    | 8872     | 0.488     | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.081  | 117   | 77047    | 6.026     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.610  | 43    | 20700    | 0.761     | ug/l # | 55       |
| 59) 2-Hexanone                | 11.080 | 43    | 2581     | 0.224     | ug/l   | 77       |
| 71) Bromoform                 | 12.721 | 173   | 2567     | 0.341     | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.733 | 83    | 396      | Below Cal | #      | 1        |
| 76) 1,2,3-Trichloropropane    | 12.727 | 75    | 315274   | 26.464    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727 | 75    | 315274   | 72.817    | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180   | 887      | 3.098     | ug/l # | 85       |
| 95) Naphthalene               | 15.504 | 128   | 3297     | 5.206     | ug/l # | 86       |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180   | 1049     | 2.867     | ug/l   | 78       |
| -----                         |        |       |          |           |        |          |

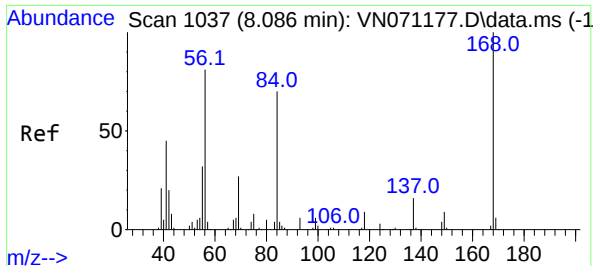
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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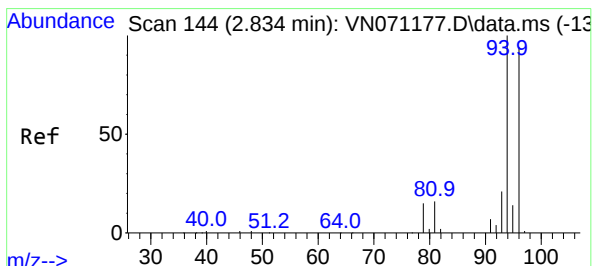
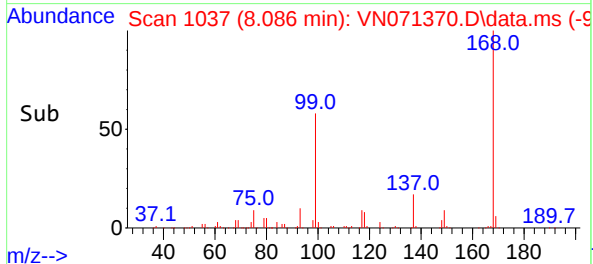
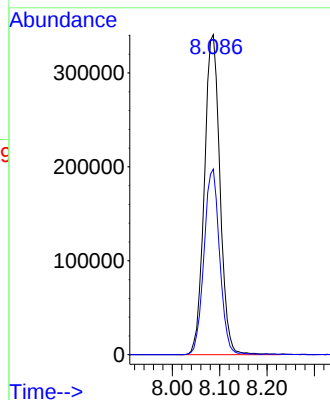
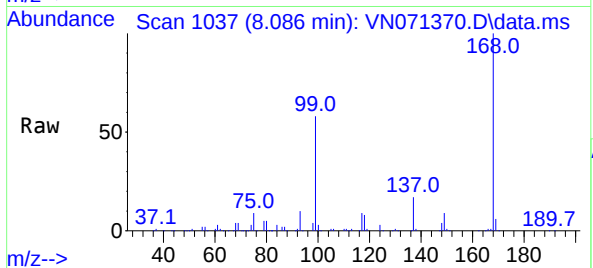




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

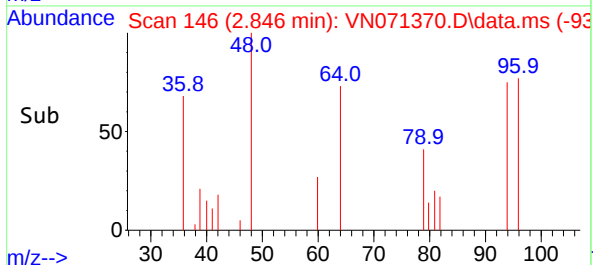
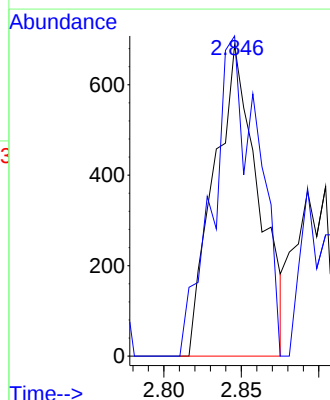
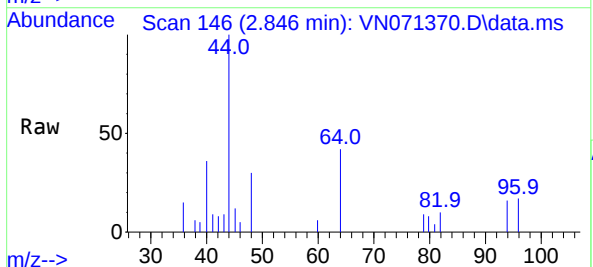
Instrument :  
MSVOA\_N  
ClientSampleId :

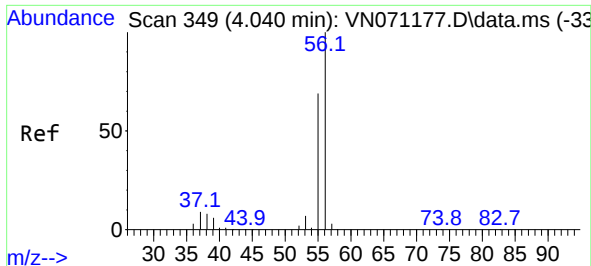
Tgt Ion:168 Resp: 780994  
Ion Ratio Lower Upper  
168 100  
99 58.0 41.3 61.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.846 min Scan# 146  
Delta R.T. 0.012 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

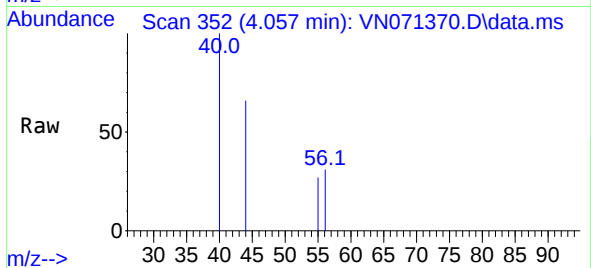
Tgt Ion: 94 Resp: 1368  
Ion Ratio Lower Upper  
94 100  
96 102.9 73.8 110.8



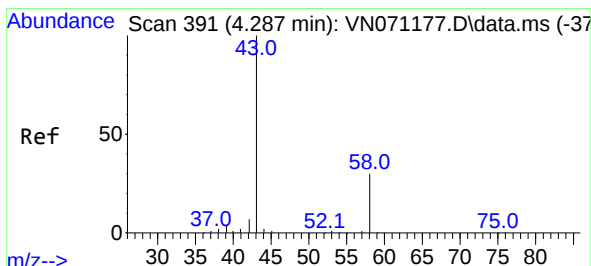
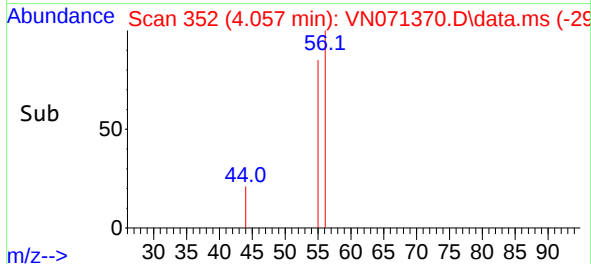
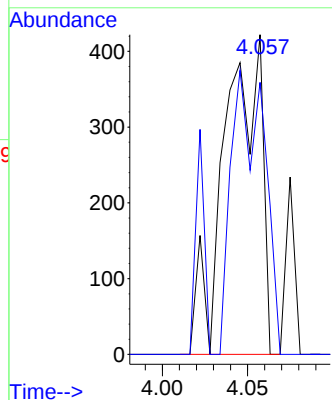


#13  
Acrolein  
Concen: 0.290 ug/l  
RT: 4.057 min Scan# 313  
Delta R.T. 0.018 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Instrument :  
MSVOA\_N  
ClientSampleId :

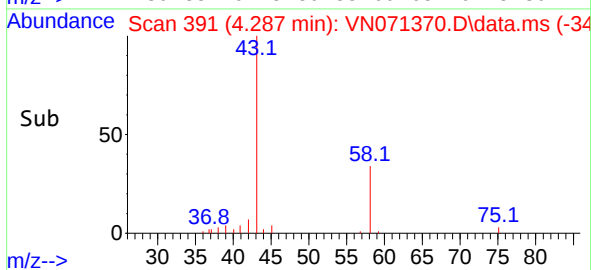
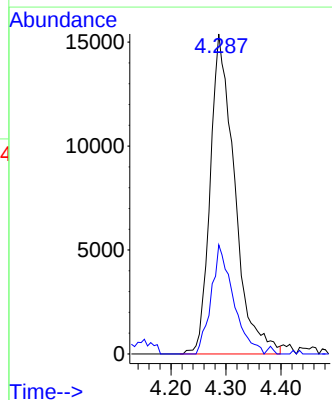
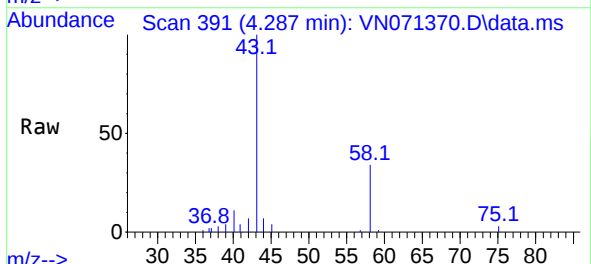


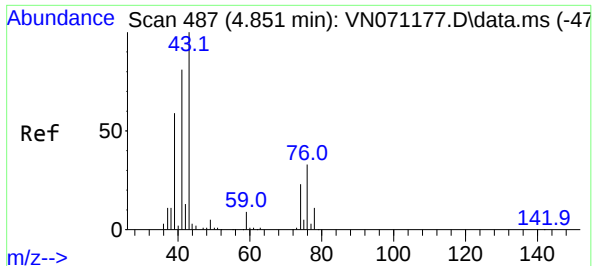
Tgt Ion: 56 Resp: 646  
Ion Ratio Lower Upper  
56 100  
55 77.7 56.6 85.0



#16  
Acetone  
Concen: 9.126 ug/l  
RT: 4.287 min Scan# 391  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

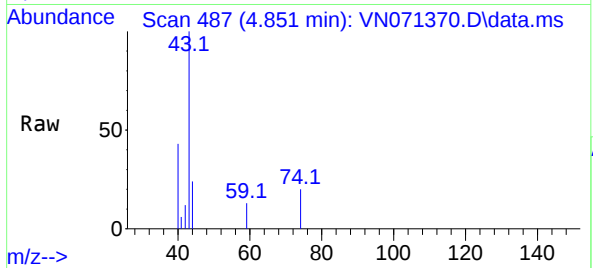
Tgt Ion: 43 Resp: 47530  
Ion Ratio Lower Upper  
43 100  
58 34.1 23.1 34.7



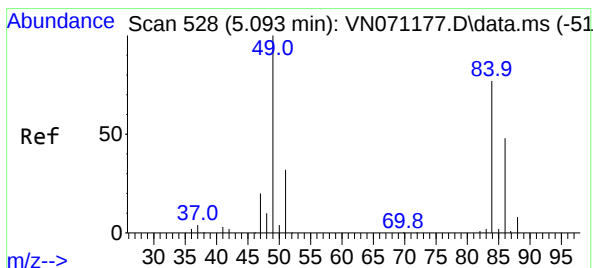
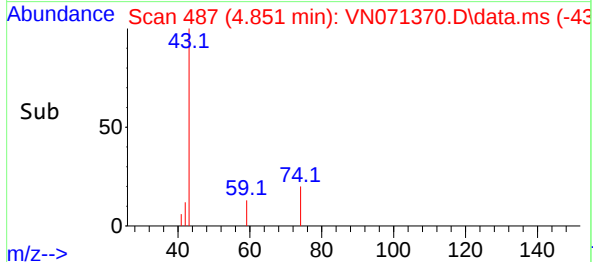
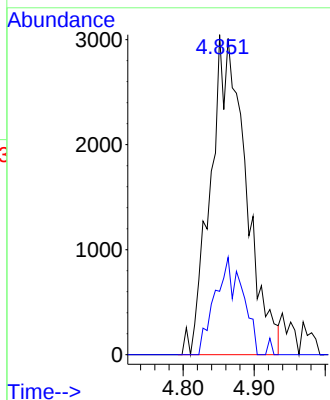


#18  
Methyl Acetate  
Concen: 1.219 ug/l  
RT: 4.851 min Scan# 487  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Instrument :  
MSVOA\_N  
ClientSampleId :

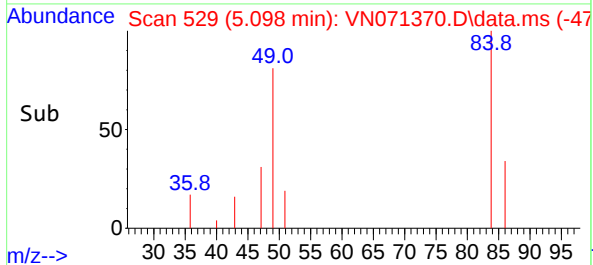
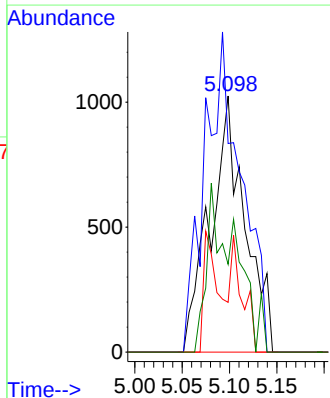
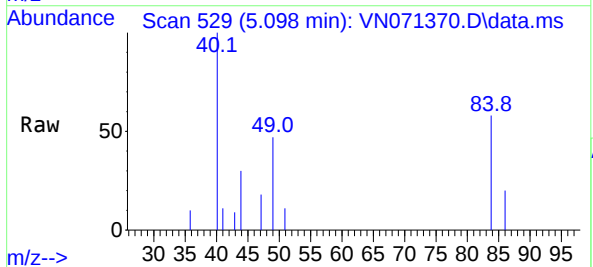


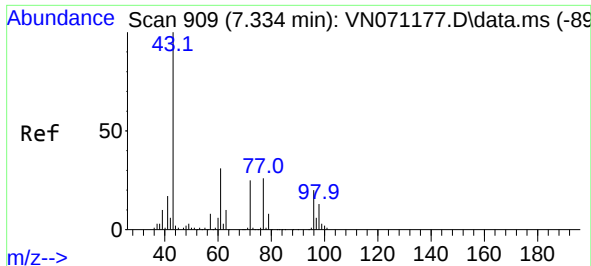
Tgt Ion: 43 Resp: 10572  
Ion Ratio Lower Upper  
43 100  
74 23.6 19.4 29.2



#20  
Methylene Chloride  
Concen: 0.655 ug/l  
RT: 5.098 min Scan# 529  
Delta R.T. 0.005 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion: 84 Resp: 2621  
Ion Ratio Lower Upper  
84 100  
49 81.5 93.5 140.3#  
51 19.4 29.4 44.2#  
86 34.2 53.0 79.4#

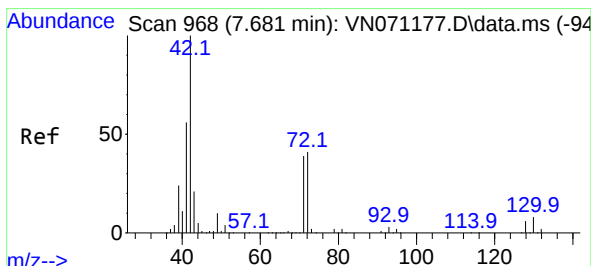
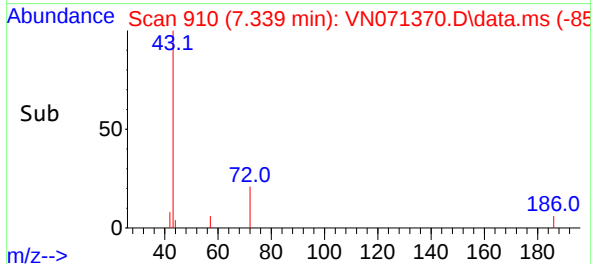
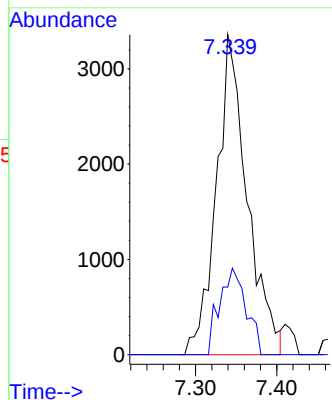
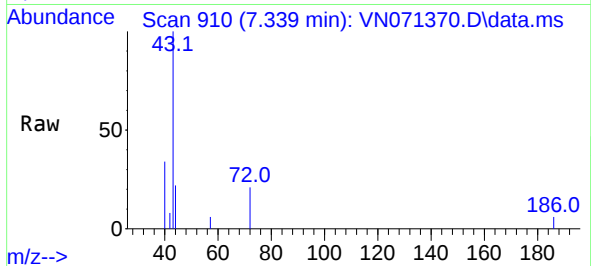




#25  
2-Butanone  
Concen: 1.057 ug/l  
RT: 7.339 min Scan# 910  
Delta R.T. 0.006 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

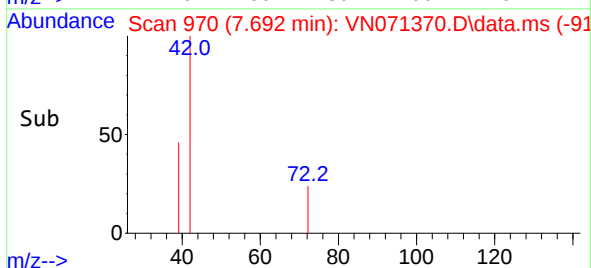
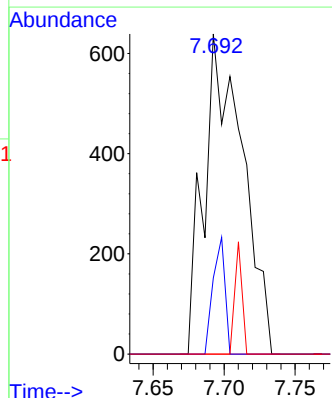
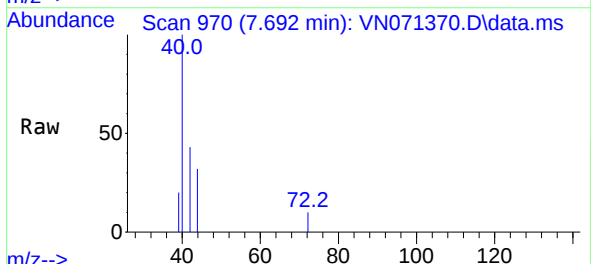
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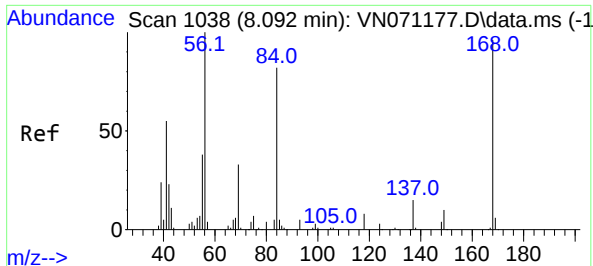
Tgt Ion: 43 Resp: 8872  
Ion Ratio Lower Upper  
43 100  
72 21.1 21.7 32.5#



#29  
Tetrahydrofuran  
Concen: 0.207 ug/l  
RT: 7.692 min Scan# 970  
Delta R.T. 0.012 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion: 42 Resp: 1204  
Ion Ratio Lower Upper  
42 100  
72 11.3 36.3 54.5#  
71 6.6 34.7 52.1#





#31

Cyclohexane

Concen: 0.973 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071370.D

Acq: 18 Mar 2022 14:17

Instrument :

MSVOA\_N

ClientSampleId :

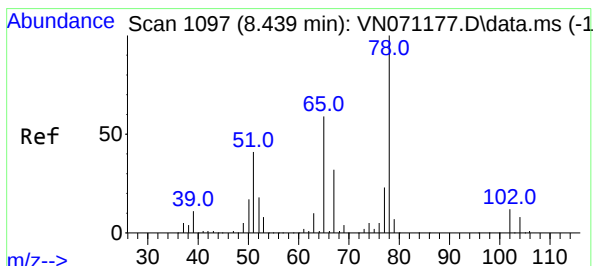
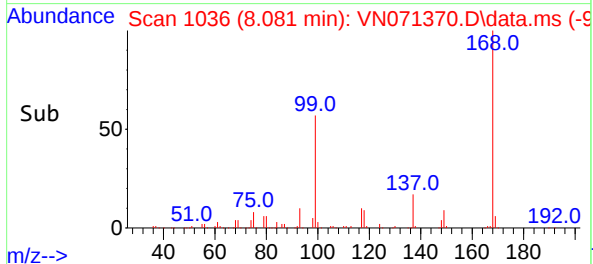
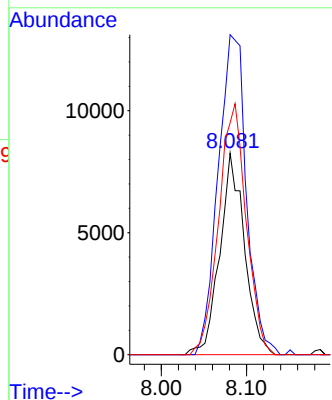
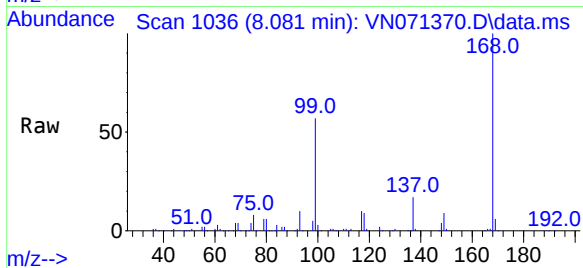
Tgt Ion: 56 Resp: 16634

Ion Ratio Lower Upper

56 100

69 158.8 27.1 40.7#

84 115.0 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 47.240 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071370.D

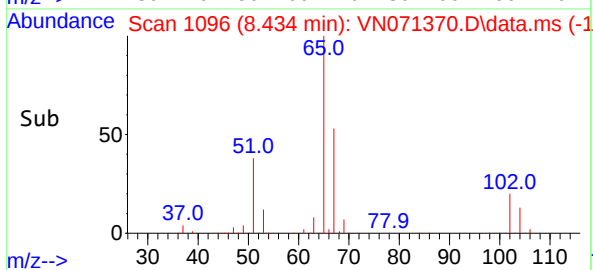
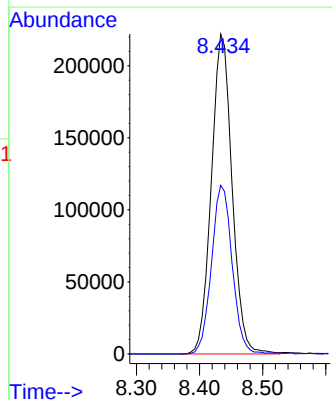
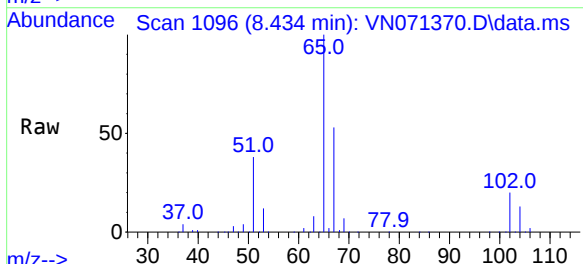
Acq: 18 Mar 2022 14:17

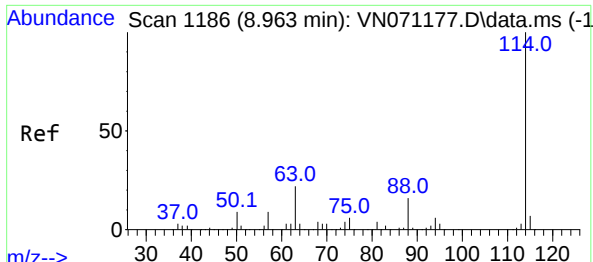
Tgt Ion: 65 Resp: 505647

Ion Ratio Lower Upper

65 100

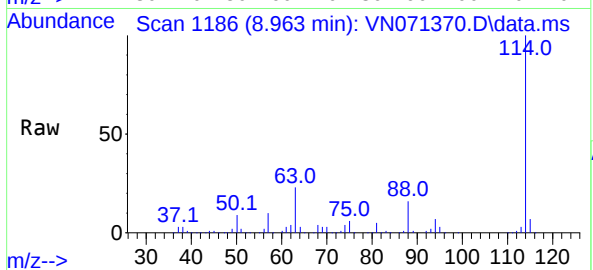
67 52.8 0.0 103.0



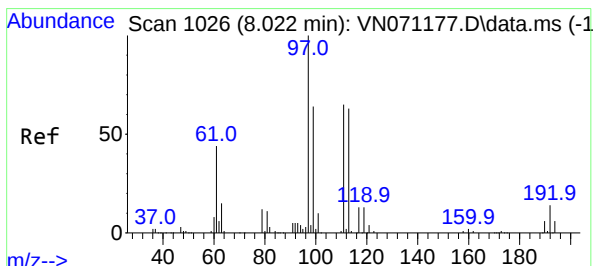
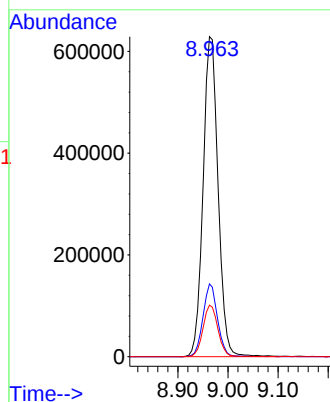
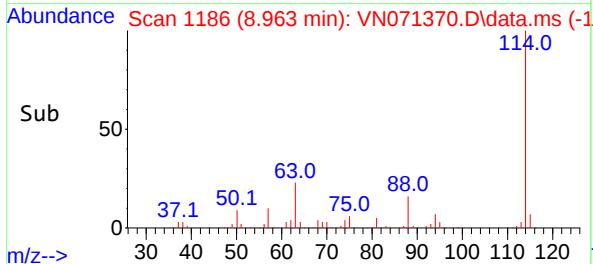


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Instrument :  
MSVOA\_N  
ClientSampleId :

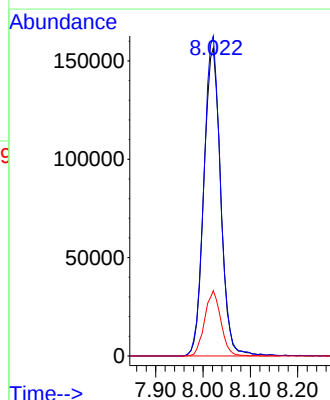
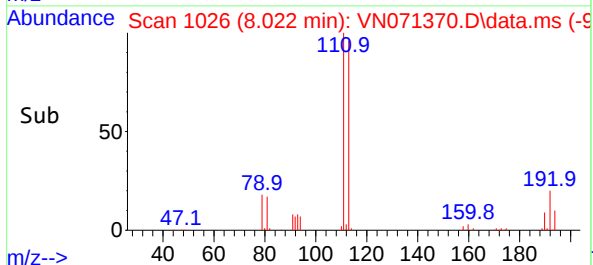
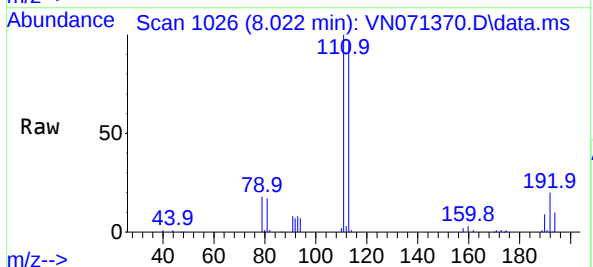


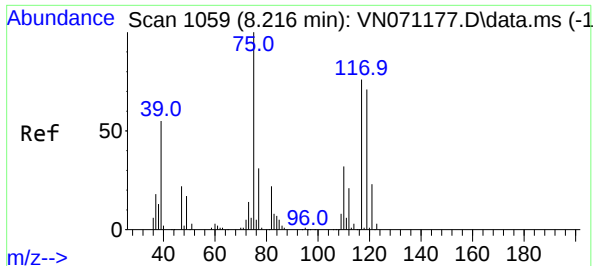
Tgt Ion:114 Resp: 1307487  
Ion Ratio Lower Upper  
114 100  
63 22.8 0.0 37.8  
88 16.1 0.0 27.4



#35  
Dibromofluoromethane  
Concen: 46.815 ug/l  
RT: 8.022 min Scan# 1026  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion:113 Resp: 386260  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.2 123.2  
192 20.3 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.706 ug/l

RT: 8.086 min Scan# 1

Delta R.T. -0.129 min

Lab File: VN071370.D

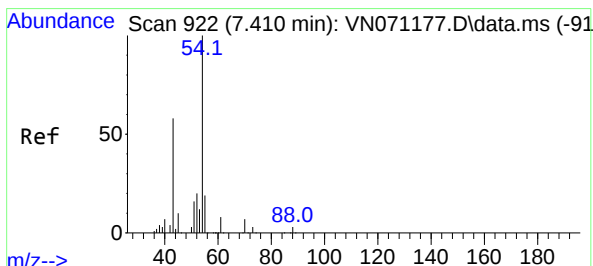
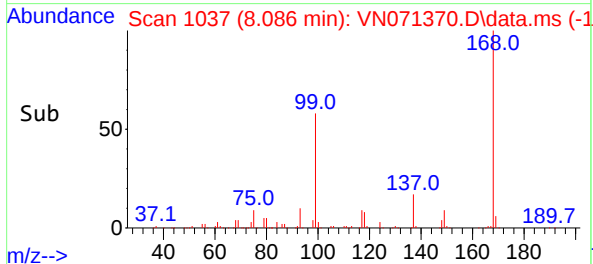
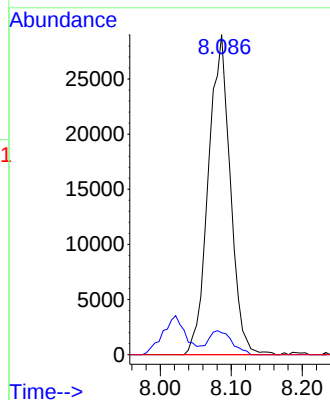
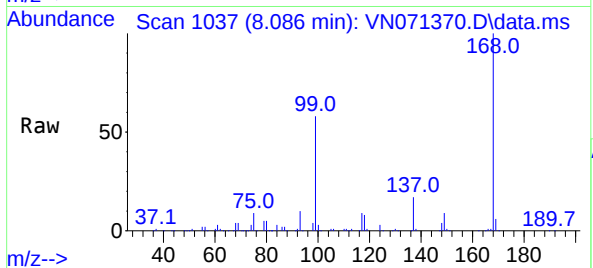
Acq: 18 Mar 2022 14:17

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 62214 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.0   | 18.4  | 55.2# |
| 77       | 0.0   | 24.4  | 36.6# |



#37

Ethyl Acetate

Concen: 0.488 ug/l

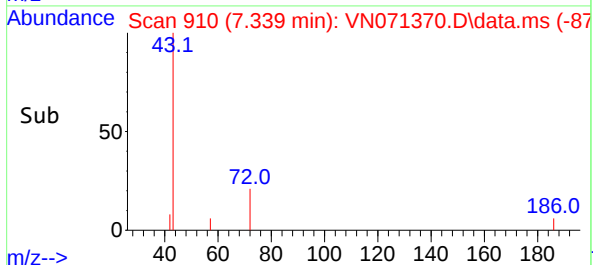
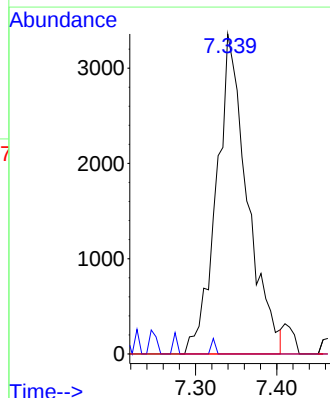
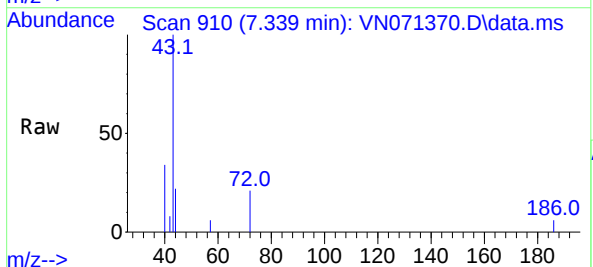
RT: 7.339 min Scan# 910

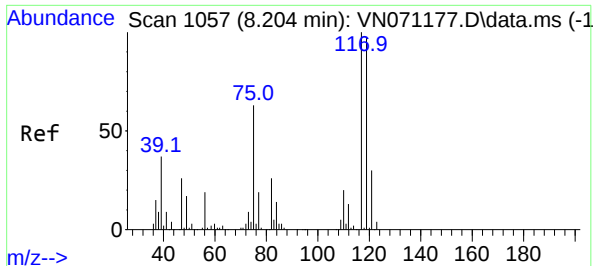
Delta R.T. -0.071 min

Lab File: VN071370.D

Acq: 18 Mar 2022 14:17

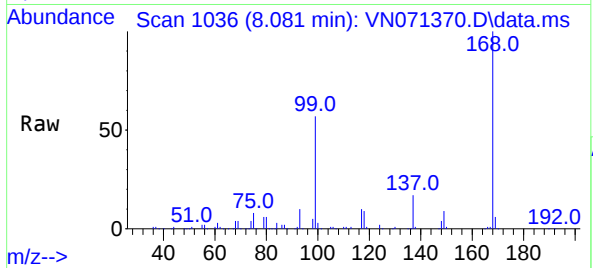
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8872  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 11.5  | 17.3# |
| 70       | 0.0   | 7.9   | 11.9# |



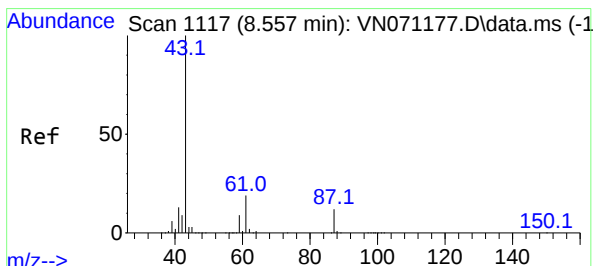
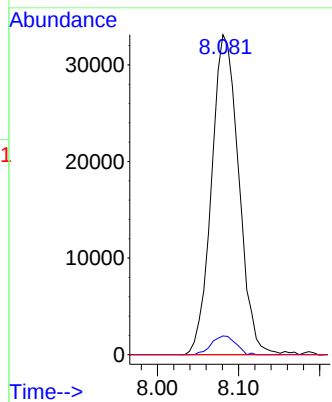
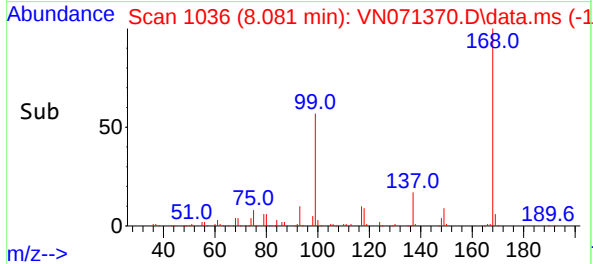


#38  
Carbon Tetrachloride  
Concen: 6.026 ug/l  
RT: 8.081 min Scan# 1107  
Delta R.T. -0.123 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

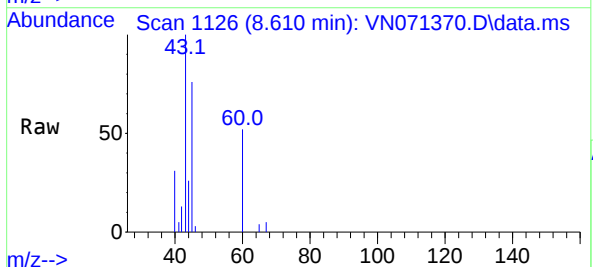
Instrument :  
MSVOA\_N  
ClientSampleId :



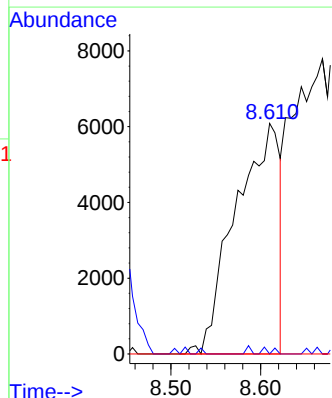
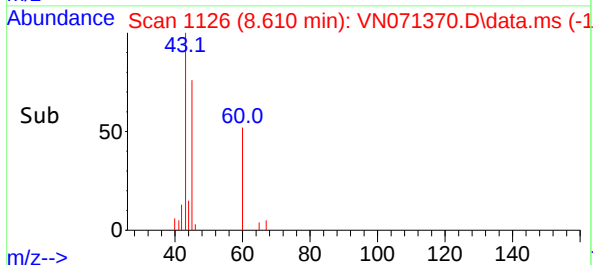
Tgt Ion:117 Resp: 77047  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.1 114.1#  
121 0.0 24.2 36.2#

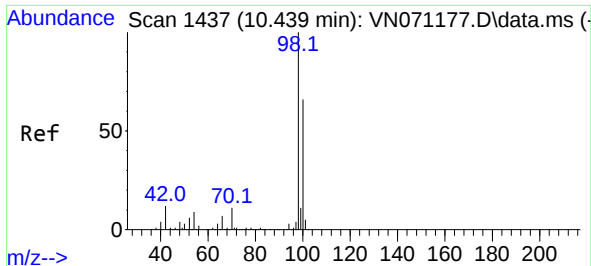


#43  
Isopropyl Acetate  
Concen: 0.761 ug/l  
RT: 8.610 min Scan# 1126  
Delta R.T. 0.053 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17



Tgt Ion: 43 Resp: 20700  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#

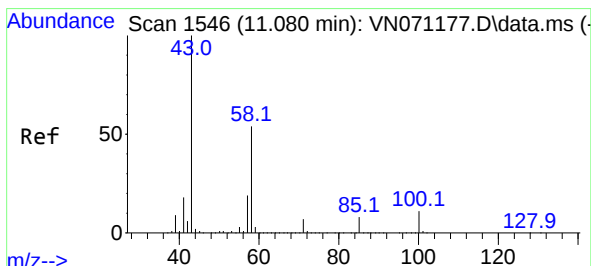
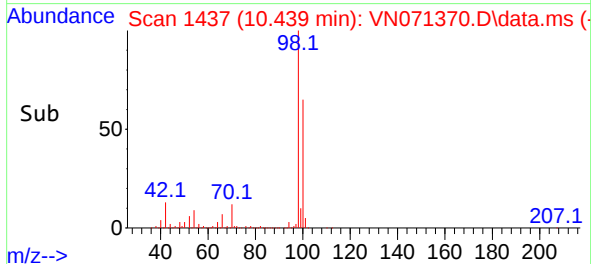
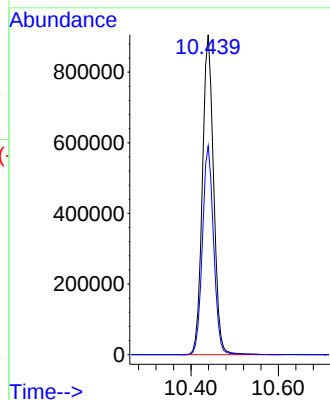
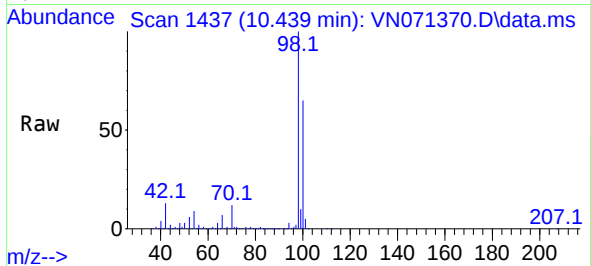




#50  
Toluene-d8  
Concen: 48.811 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

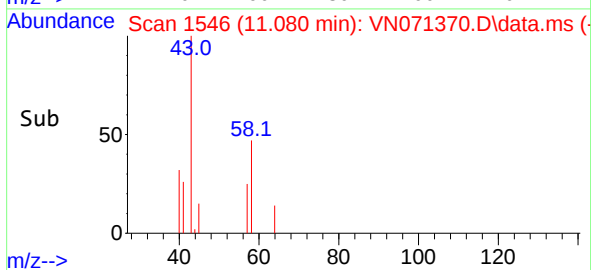
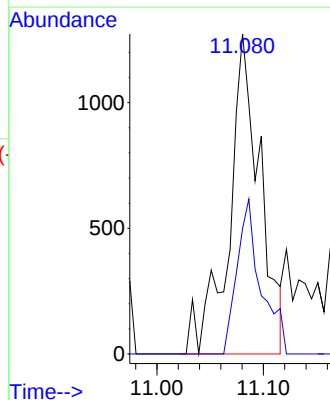
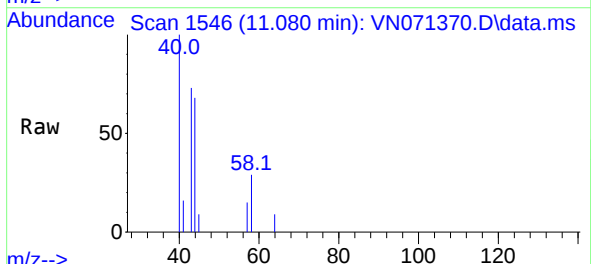
Instrument :  
MSVOA\_N  
ClientSampleId :

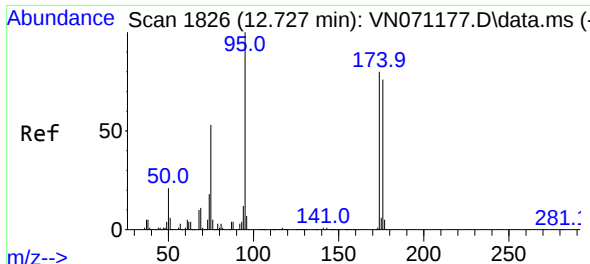
Tgt Ion: 98 Resp: 1621488  
Ion Ratio Lower Upper  
98 100  
100 65.2 50.4 75.6



#59  
2-Hexanone  
Concen: 0.224 ug/l  
RT: 11.080 min Scan# 1546  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion: 43 Resp: 2581  
Ion Ratio Lower Upper  
43 100  
58 37.2 26.9 80.7

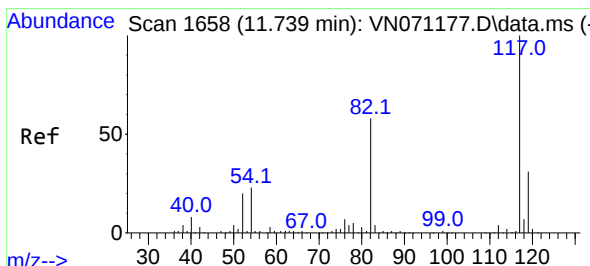
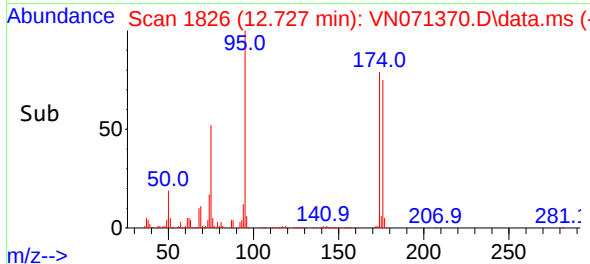
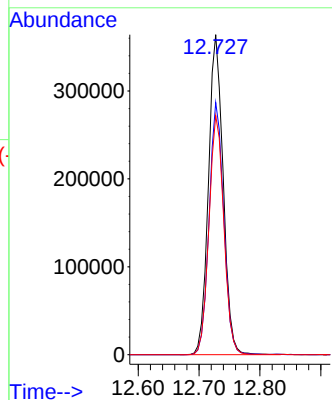
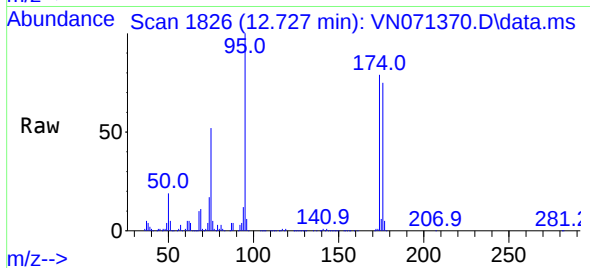




#62  
4-Bromofluorobenzene  
Concen: 54.166 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

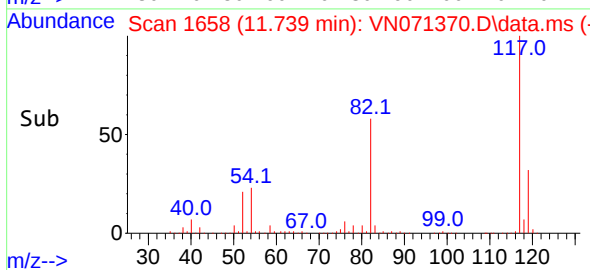
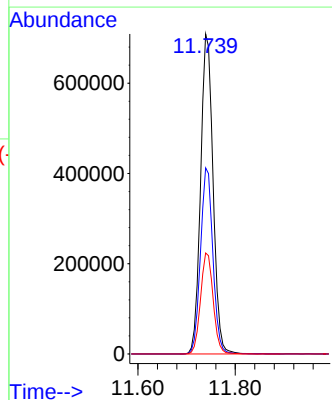
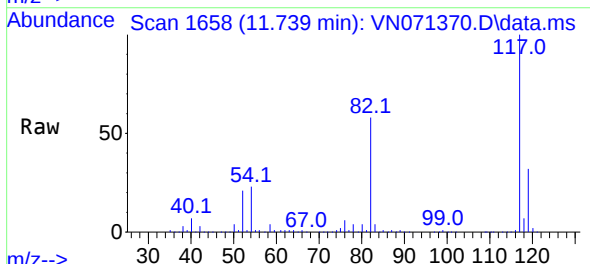
Instrument :  
MSVOA\_N  
ClientSampleId :

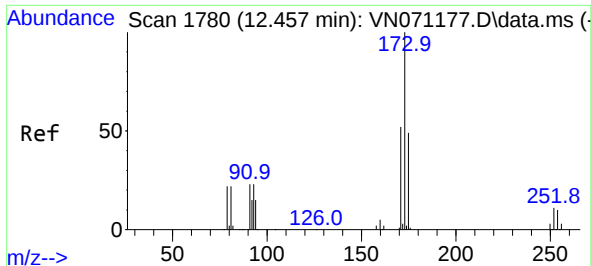
Tgt Ion: 95 Resp: 609313  
Ion Ratio Lower Upper  
95 100  
174 78.5 0.0 187.2  
176 75.6 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion: 117 Resp: 1260137  
Ion Ratio Lower Upper  
117 100  
82 58.2 42.4 63.6  
119 31.6 25.4 38.2

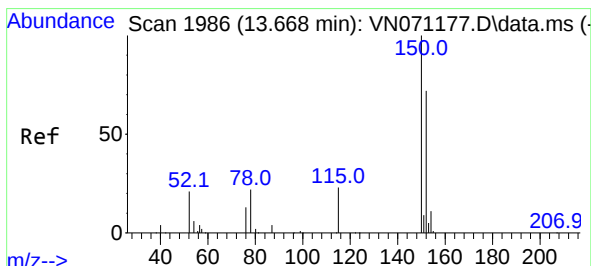
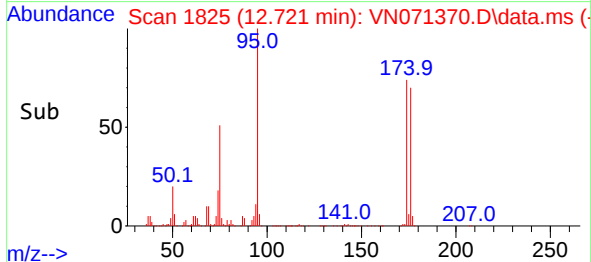
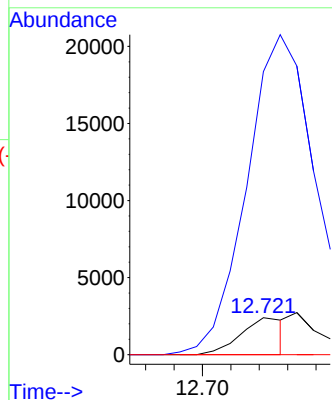
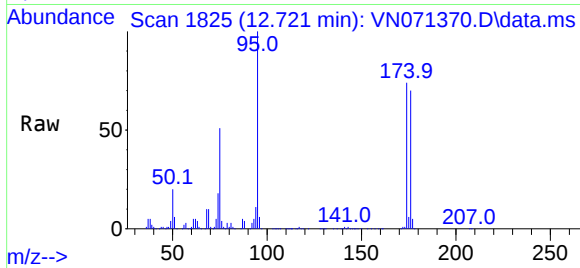




#71  
Bromoform  
Concen: 0.341 ug/l  
RT: 12.721 min Scan# 1825  
Delta R.T. 0.264 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

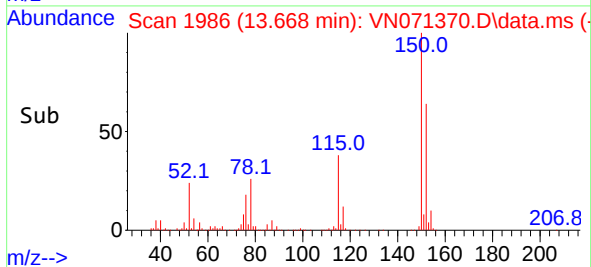
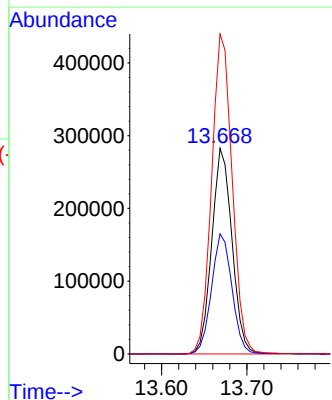
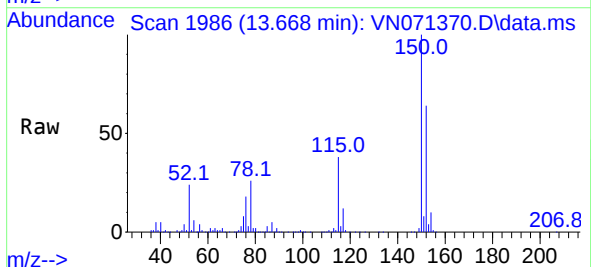
Instrument :  
MSVOA\_N  
ClientSampleId :

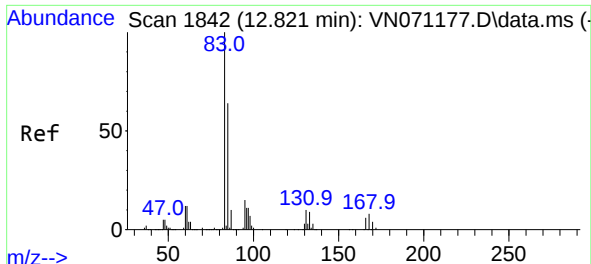
Tgt Ion:173 Resp: 2567  
Ion Ratio Lower Upper  
173 100  
175 1053.8 24.2 72.6#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.668 min Scan# 1986  
Delta R.T. 0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion:152 Resp: 468039  
Ion Ratio Lower Upper  
152 100  
115 59.1 27.5 82.5  
150 157.8 0.0 344.4

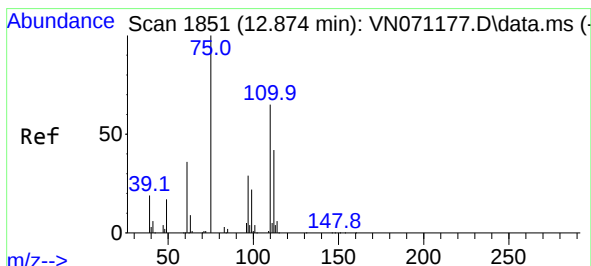
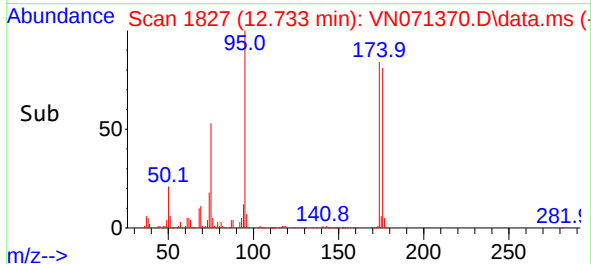
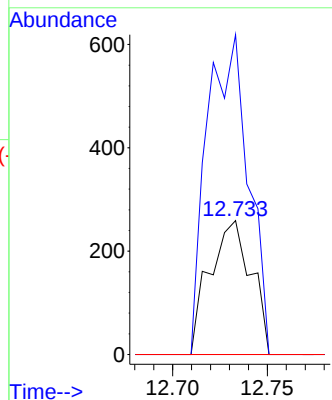
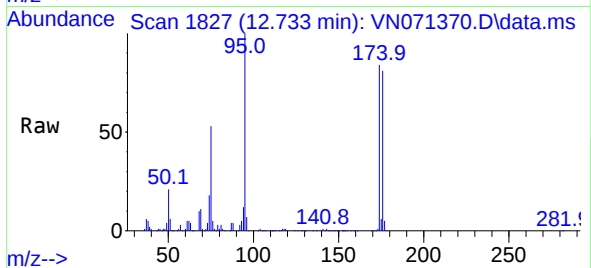




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.733 min Scan# 1827  
Delta R.T. -0.088 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

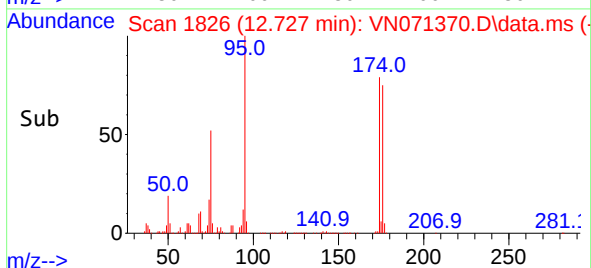
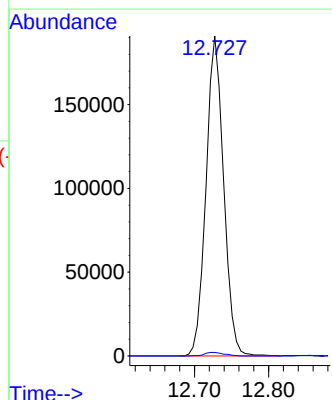
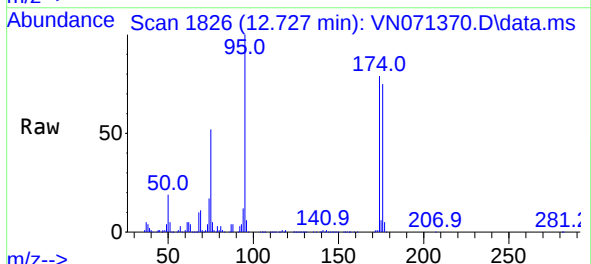
Instrument :  
MSVOA\_N  
ClientSampleId :

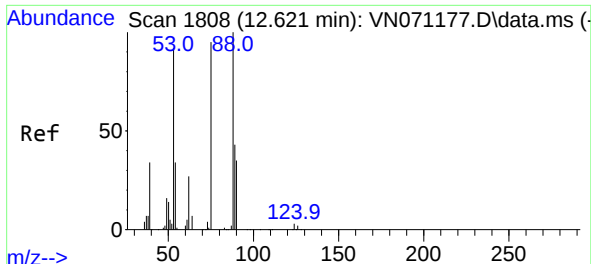
Tgt Ion: 83 Resp: 396  
Ion Ratio Lower Upper  
83 100  
131 237.4 5.5 16.5#  
85 0.0 32.4 97.2#



#76  
1,2,3-Trichloropropane  
Concen: 26.464 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

Tgt Ion: 75 Resp: 315274  
Ion Ratio Lower Upper  
75 100  
77 1.3 82.6 247.8#

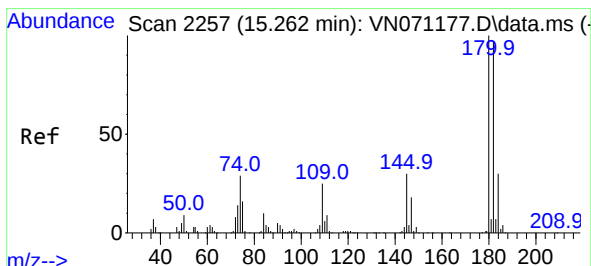
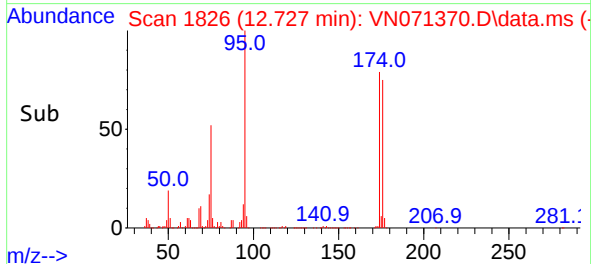
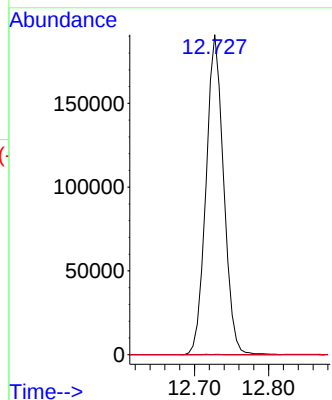
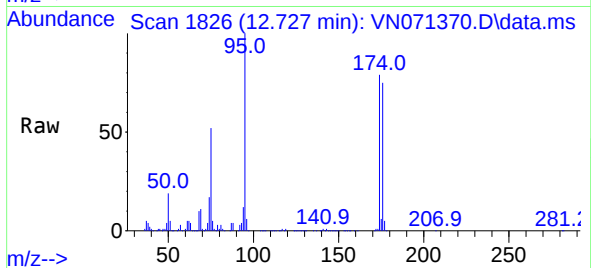




#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.817 ug/l  
RT: 12.727 min Scan# 1808  
Delta R.T. 0.106 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

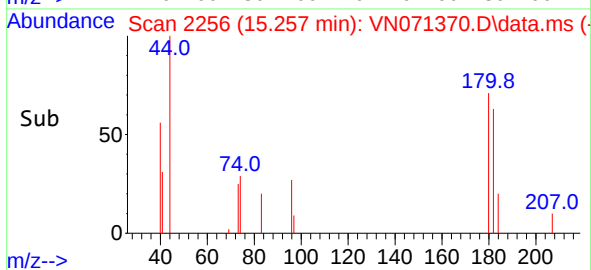
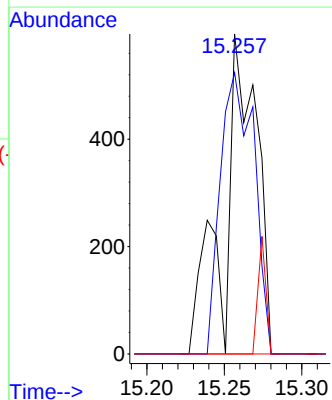
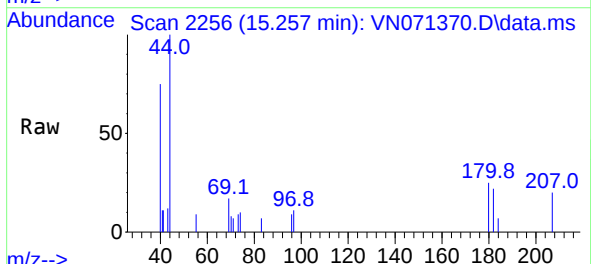
Instrument :  
MSVOA\_N  
ClientSampleId :

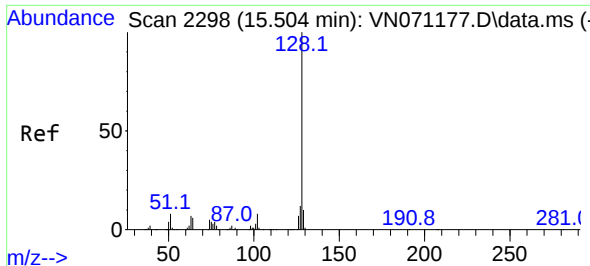
Tgt Ion: 75 Resp: 315274  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#



#93  
1,2,4-Trichlorobenzene  
Concen: 3.098 ug/l  
RT: 15.257 min Scan# 2256  
Delta R.T. -0.005 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

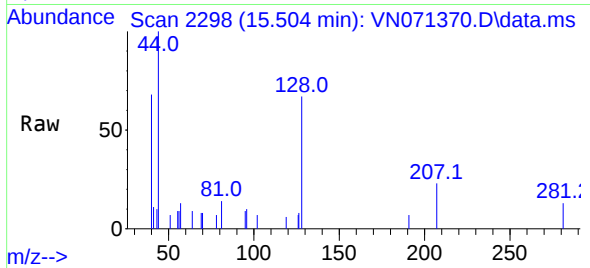
Tgt Ion:180 Resp: 887  
Ion Ratio Lower Upper  
180 100  
182 89.2 48.3 144.9  
145 8.7 14.5 43.5#



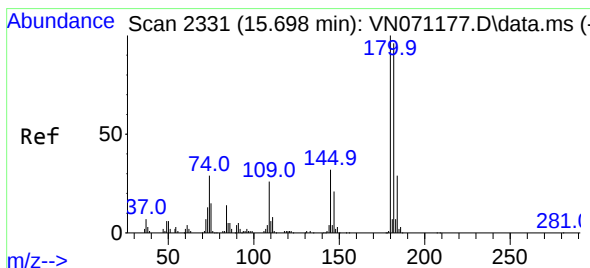
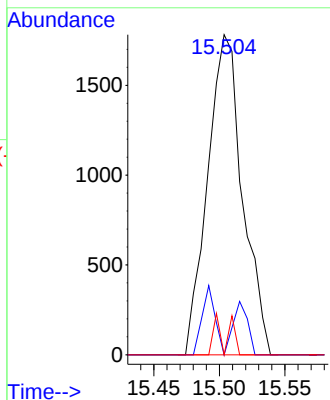
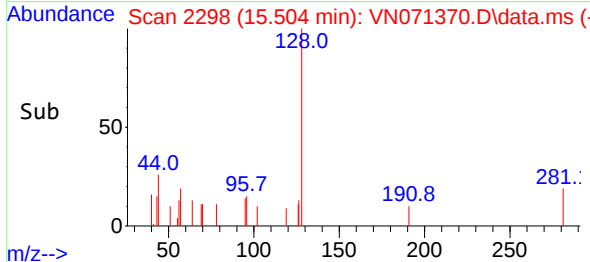


#95  
Naphthalene  
Concen: 5.206 ug/l  
RT: 15.504 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17

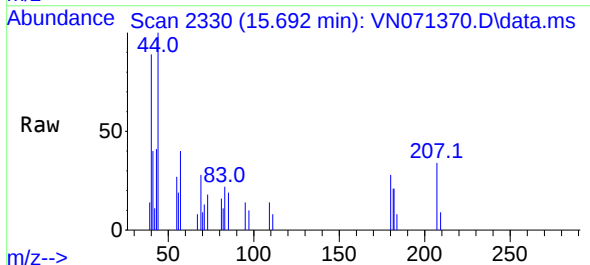
Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 3297  
Ion Ratio Lower Upper  
128 100  
127 8.0 10.5 15.7#  
129 4.8 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.867 ug/l  
RT: 15.692 min Scan# 2330  
Delta R.T. -0.006 min  
Lab File: VN071370.D  
Acq: 18 Mar 2022 14:17



Tgt Ion:180 Resp: 1049  
Ion Ratio Lower Upper  
180 100  
182 114.6 47.4 142.2  
145 15.3 15.0 45.1

