

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN040822\  
 Data File : VN071914.D  
 Acq On : 08 Apr 2022 14:55  
 Operator : JC\MD  
 Sample : N2341-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 09 05:21:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032422W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 24 12:03:44 2022  
 Response via : Initial Calibration

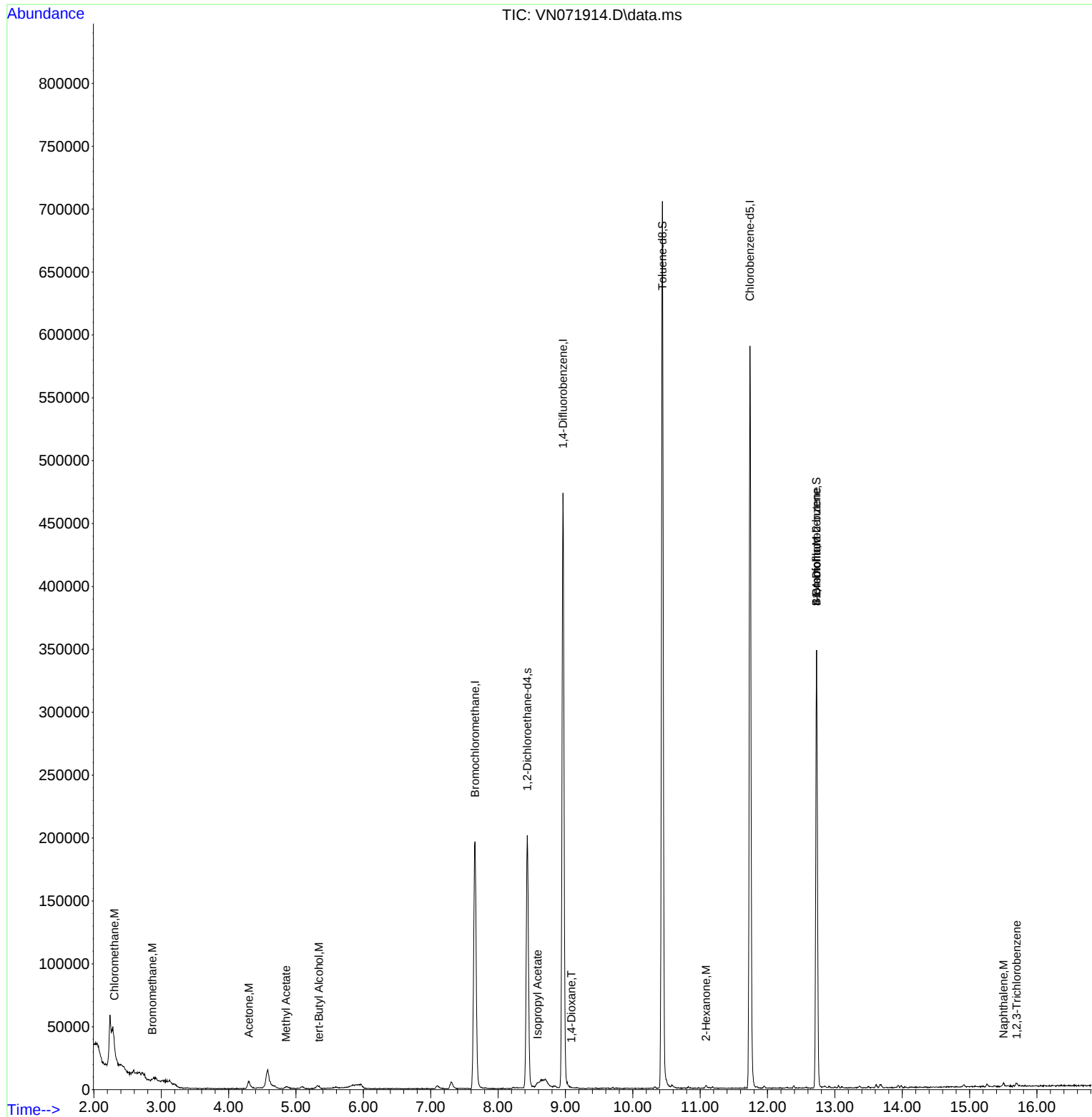
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.657  | 128   | 82581    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.963  | 114   | 449417   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.739 | 117   | 371813   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.434  | 65    | 167557   | 28.798   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 96.000%  |
| 60) 4-Bromofluorobenzene    | 12.727 | 95    | 125515   | 22.767   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 75.900%  |
| 63) Toluene-d8              | 10.439 | 98    | 514256   | 30.469   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 101.567% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 2.305  | 50    | 2833     | 0.468    | ug/l # | 74       |
| 5) Bromomethane             | 2.869  | 94    | 913      | 0.223    | ug/l # | 66       |
| 12) Methyl Acetate          | 4.851  | 43    | 1490     | 0.221    | ug/l   | 95       |
| 15) Acetone                 | 4.299  | 58    | 2102     | 2.392    | ug/l # | 13       |
| 23) tert-Butyl Alcohol      | 5.340  | 59    | 694      | 0.637    | ug/l # | 100      |
| 44) Isopropyl Acetate       | 8.586  | 43    | 3335     | 0.265    | ug/l # | 54       |
| 45) 1,4-Dioxane             | 9.086  | 88    | 58       | 0.456    | ug/l # | 4        |
| 56) Bromoform               | 12.727 | 173   | 1125     | 0.246    | ug/l # | 1        |
| 59) 2-Hexanone              | 11.086 | 43    | 2141     | 0.415    | ug/l # | 87       |
| 77) t-1,4-Dichloro-2-butene | 12.727 | 75    | 59234    | 25.375   | ug/l # | 8        |
| 91) Naphthalene             | 15.504 | 128   | 3936     | 7.117    | ug/l # | 91       |
| 92) 1,2,3-Trichlorobenzene  | 15.698 | 180   | 1144     | 0.275    | ug/l   | 79       |
| -----                       |        |       |          |          |        |          |

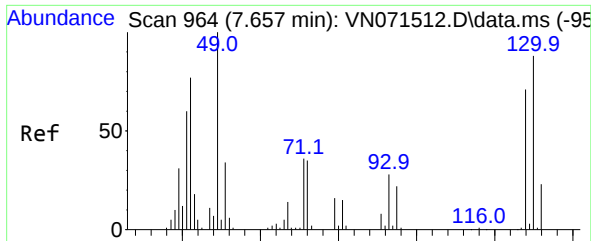
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN040822\  
Data File : VN071914.D  
Acq On : 08 Apr 2022 14:55  
Operator : JC\MD  
Sample : N2341-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

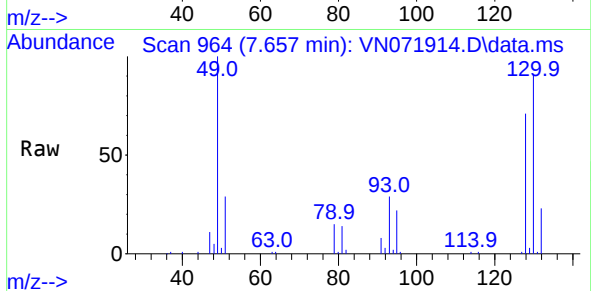
Quant Time: Apr 09 05:21:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032422W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Mar 24 12:03:44 2022  
Response via : Initial Calibration



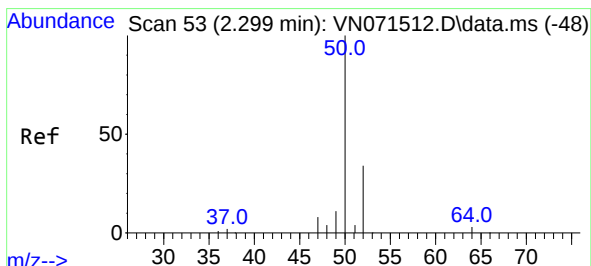
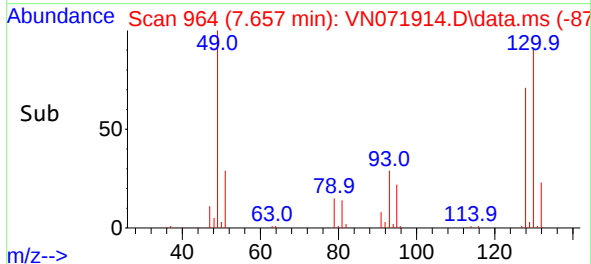
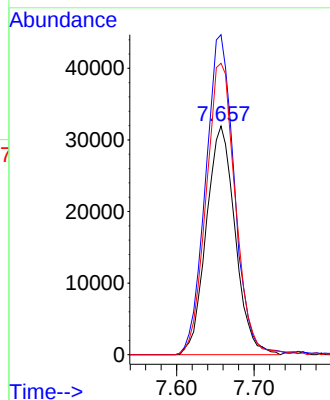


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.657 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Instrument :  
MSVOA\_N  
ClientSampleId :

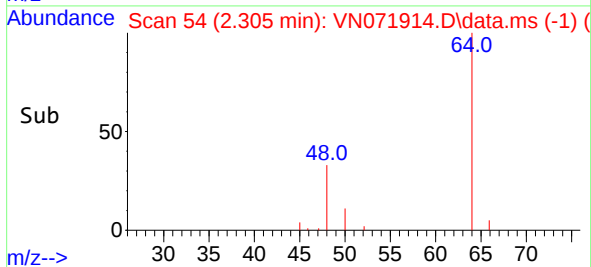
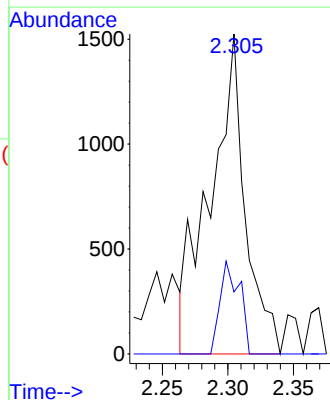
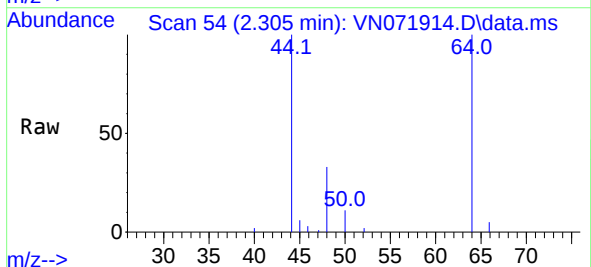


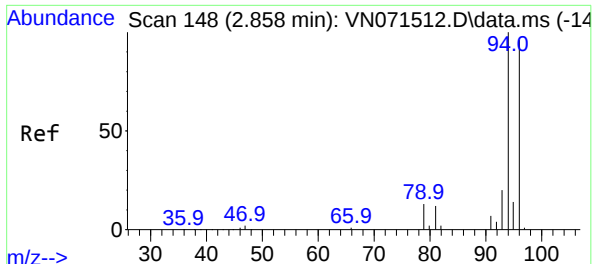
Tgt Ion:128 Resp: 82581  
Ion Ratio Lower Upper  
128 100  
49 139.6 0.0 392.3  
130 129.3 0.0 320.2



#3  
Chloromethane  
Concen: 0.468 ug/l  
RT: 2.305 min Scan# 54  
Delta R.T. 0.006 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Tgt Ion: 50 Resp: 2833  
Ion Ratio Lower Upper  
50 100  
52 19.4 27.8 41.6#

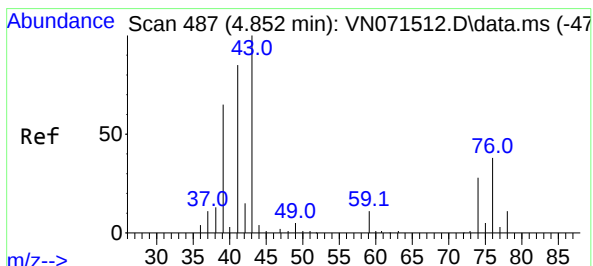
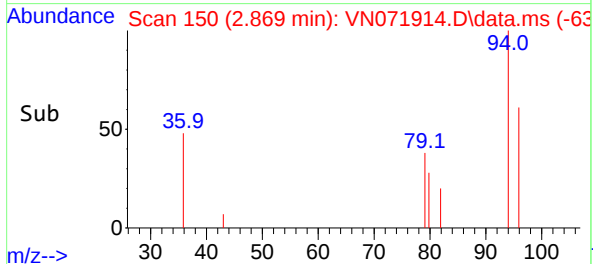
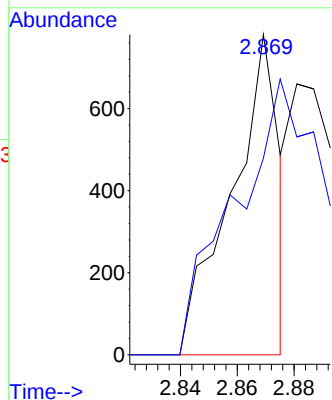
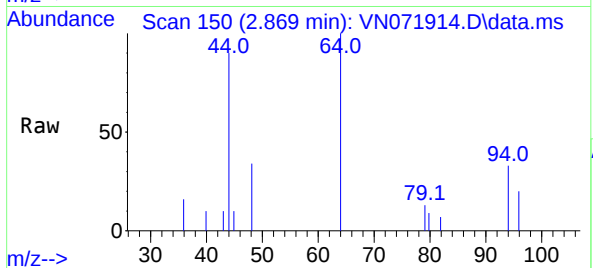




#5  
Bromomethane  
Concen: 0.223 ug/l  
RT: 2.869 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

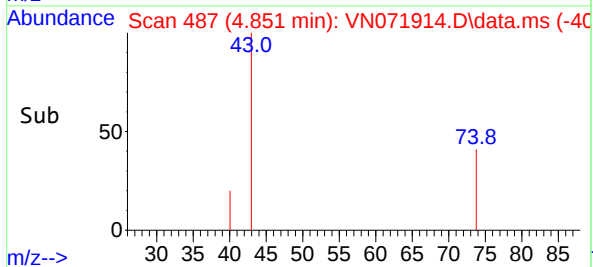
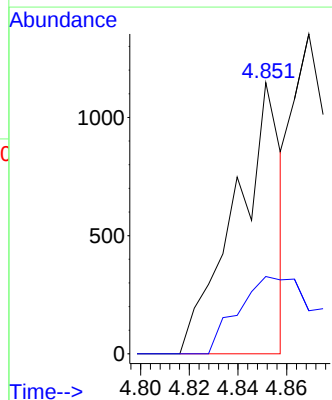
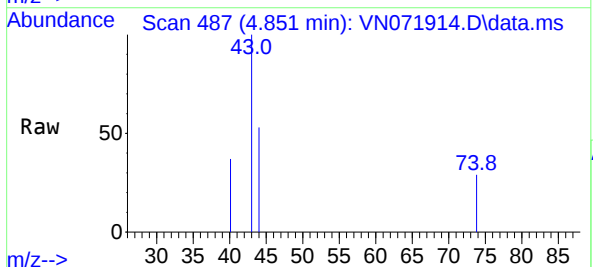
Instrument :  
MSVOA\_N  
ClientSampleId :

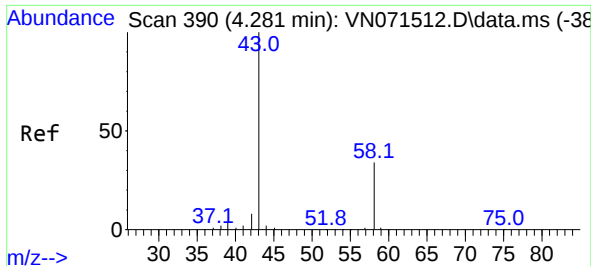
Tgt Ion: 94 Resp: 913  
Ion Ratio Lower Upper  
94 100  
96 61.4 75.2 112.8#



#12  
Methyl Acetate  
Concen: 0.221 ug/l  
RT: 4.851 min Scan# 487  
Delta R.T. -0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Tgt Ion: 43 Resp: 1490  
Ion Ratio Lower Upper  
43 100  
74 23.7 20.8 31.2





#15

Acetone

Concen: 2.392 ug/l

RT: 4.299 min Scan# 390

Delta R.T. 0.018 min

Lab File: VN071914.D

Acq: 08 Apr 2022 14:55

Instrument :

MSVOA\_N

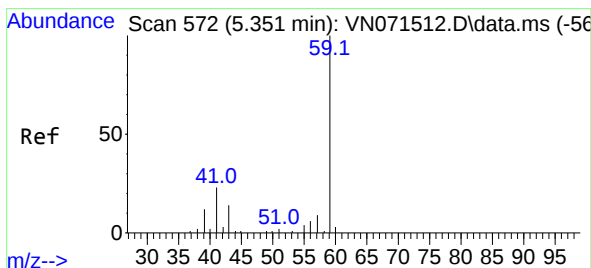
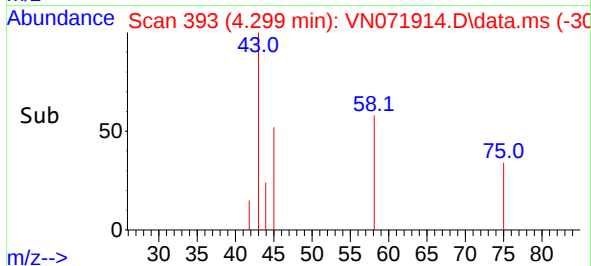
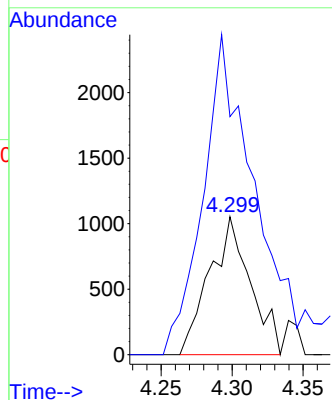
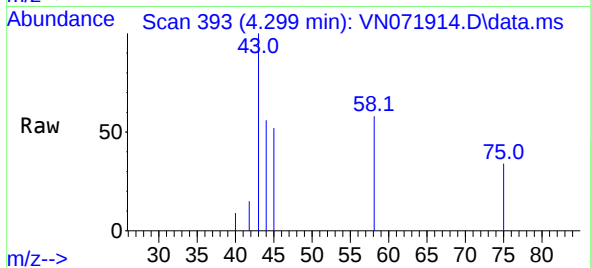
ClientSampleId :

Tgt Ion: 58 Resp: 2102

Ion Ratio Lower Upper

58 100

43 142.6 256.6 384.8#



#23

tert-Butyl Alcohol

Concen: 0.637 ug/l

RT: 5.340 min Scan# 570

Delta R.T. -0.012 min

Lab File: VN071914.D

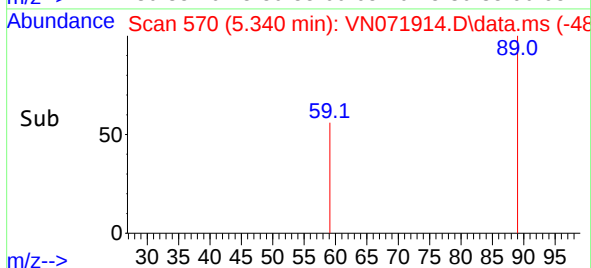
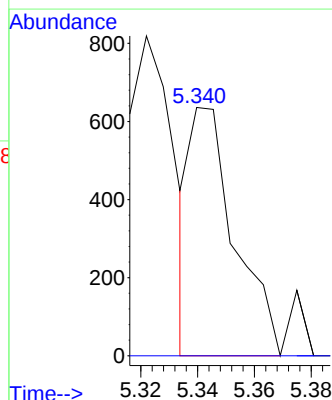
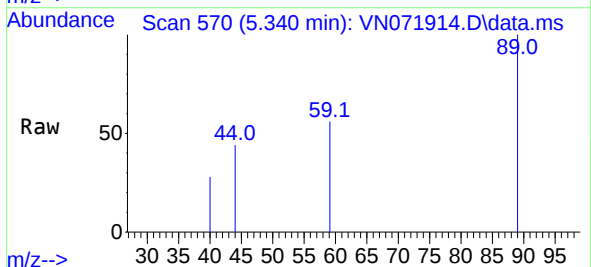
Acq: 08 Apr 2022 14:55

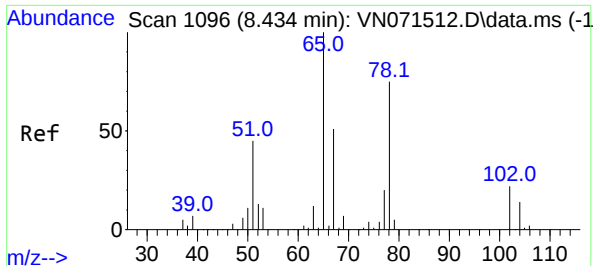
Tgt Ion: 59 Resp: 694

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

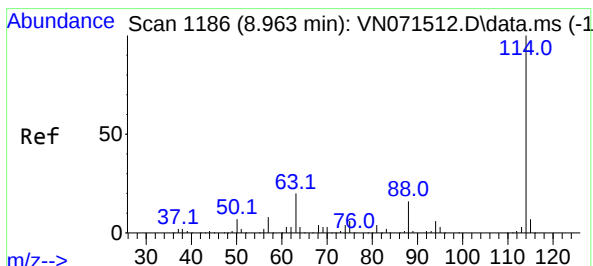
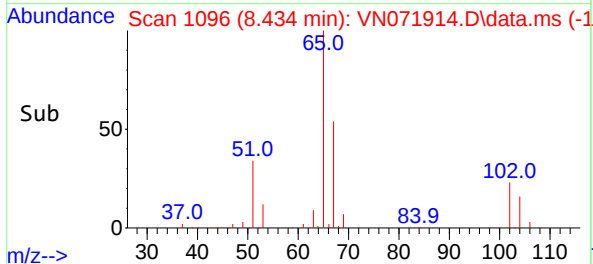
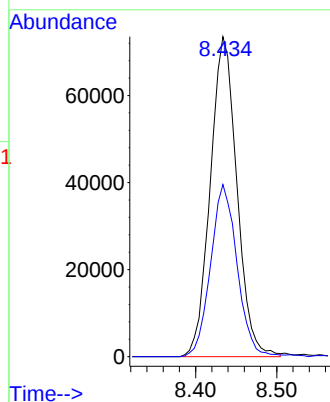
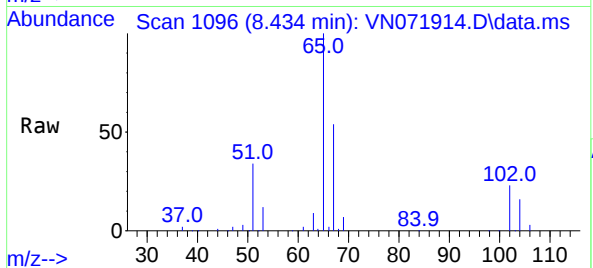




#27  
1,2-Dichloroethane-d4  
Concen: 28.798 ug/l  
RT: 8.434 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

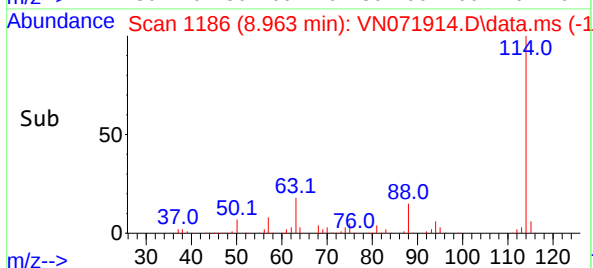
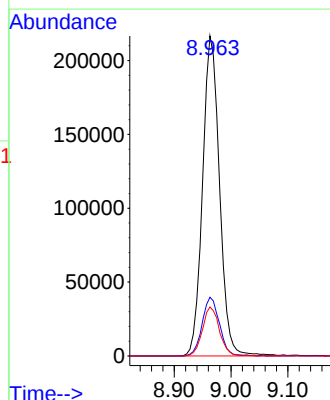
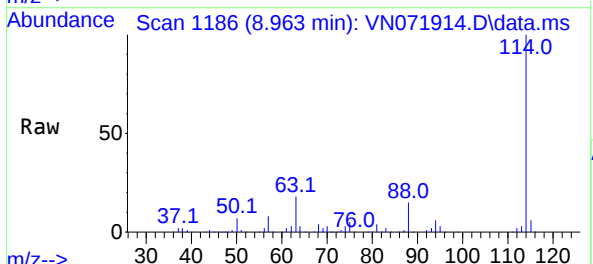
Instrument :  
MSVOA\_N  
ClientSampleId :

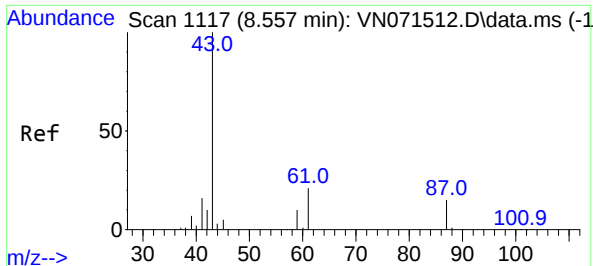
Tgt Ion: 65 Resp: 167557  
Ion Ratio Lower Upper  
65 100  
67 53.5 40.2 60.2



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Tgt Ion: 114 Resp: 449417  
Ion Ratio Lower Upper  
114 100  
63 18.5 15.8 23.6  
88 15.3 11.6 17.4

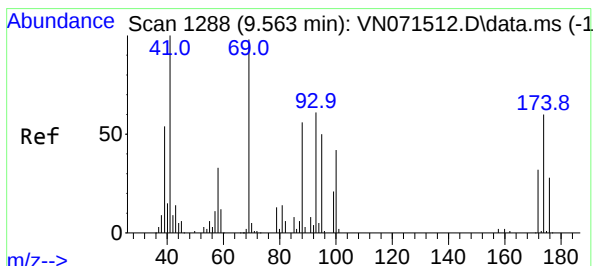
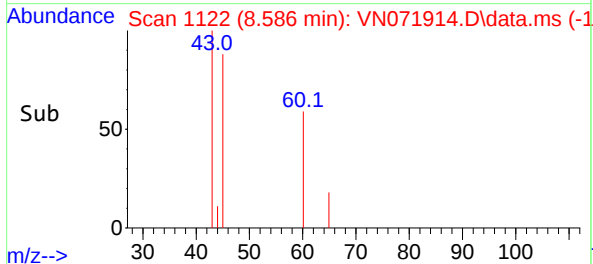
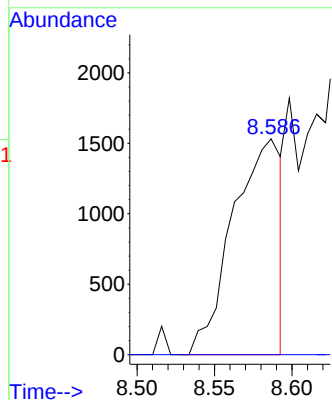
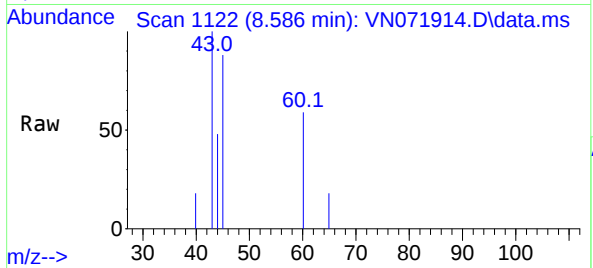




#44  
Isopropyl Acetate  
Concen: 0.265 ug/l  
RT: 8.586 min Scan# 1117  
Delta R.T. 0.029 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

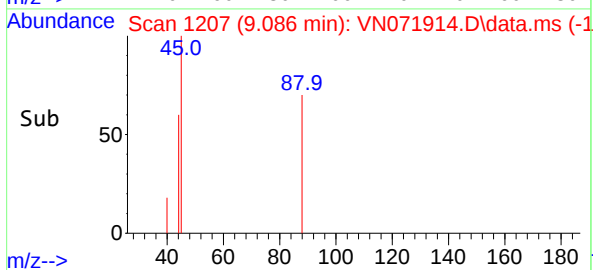
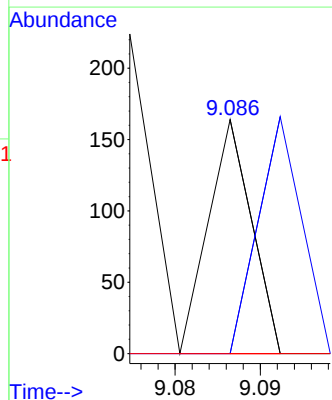
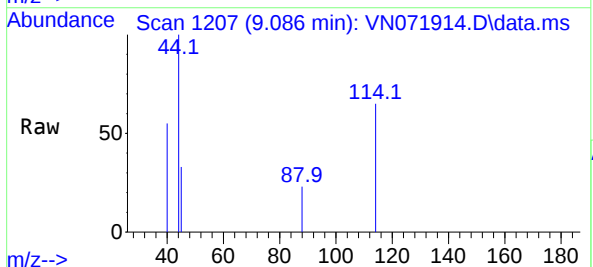
Instrument :  
MSVOA\_N  
ClientSampleId :

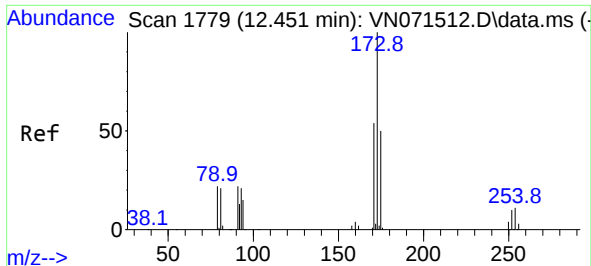
Tgt Ion: 43 Resp: 3335  
Ion Ratio Lower Upper  
43 100  
61 2.1 20.1 30.1#



#45  
1,4-Dioxane  
Concen: 0.456 ug/l  
RT: 9.086 min Scan# 1207  
Delta R.T. -0.477 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Tgt Ion: 88 Resp: 58  
Ion Ratio Lower Upper  
88 100  
43 101.7 25.0 37.6#  
58 0.0 49.4 74.2#

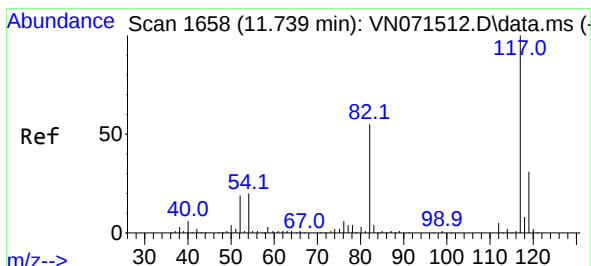
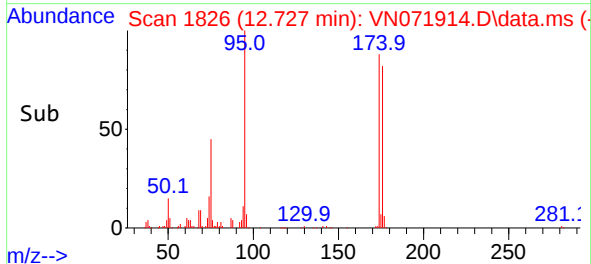
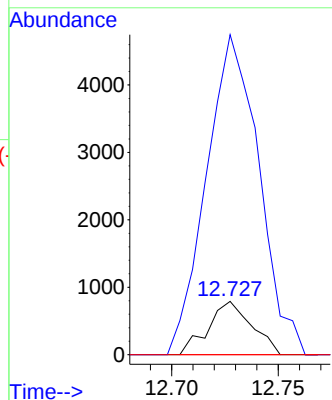
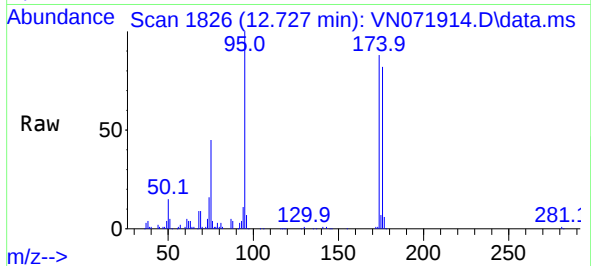




#56  
Bromoform  
Concen: 0.246 ug/l  
RT: 12.727 min Scan# 11  
Delta R.T. 0.276 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

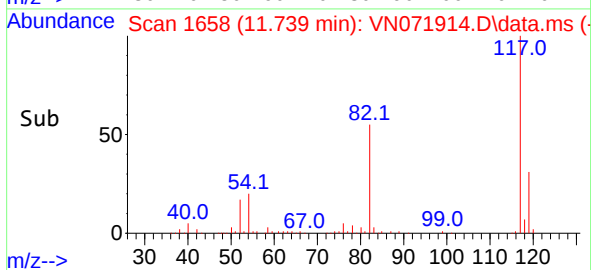
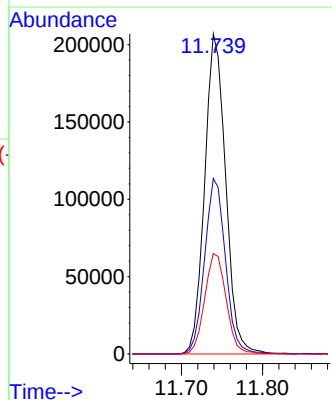
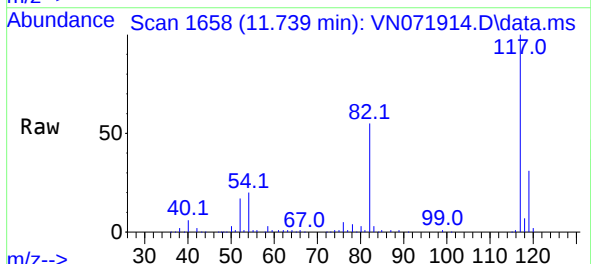
Instrument :  
MSVOA\_N  
ClientSampleId :

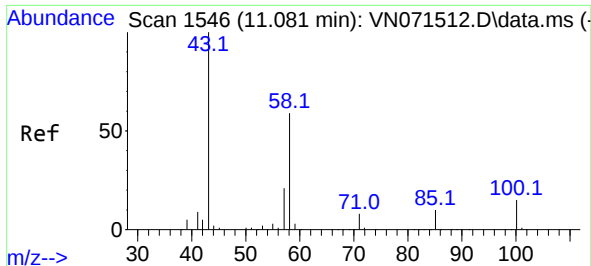
Tgt Ion:173 Resp: 1125  
Ion Ratio Lower Upper  
173 100  
175 725.7 38.6 58.0#  
254 0.0 0.0 0.0



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Tgt Ion:117 Resp: 371813  
Ion Ratio Lower Upper  
117 100  
82 54.5 43.6 65.4  
119 32.0 25.8 38.6





#59

2-Hexanone

Concen: 0.415 ug/l

RT: 11.086 min Scan# 1546

Delta R.T. 0.006 min

Lab File: VN071914.D

Acq: 08 Apr 2022 14:55

Instrument :

MSVOA\_N

ClientSampleId :

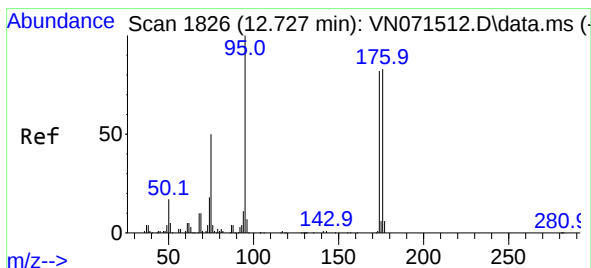
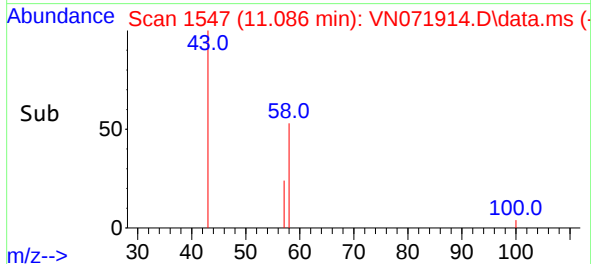
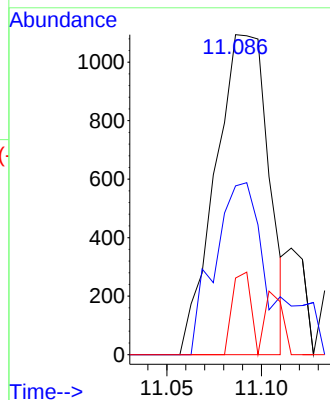
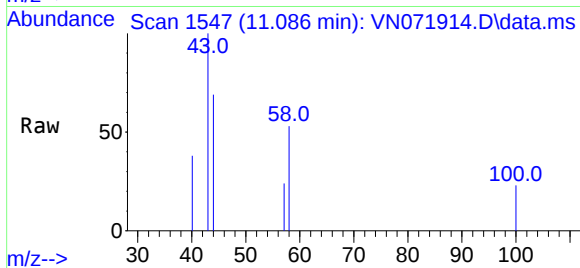
Tgt Ion: 43 Resp: 2141

Ion Ratio Lower Upper

43 100

58 45.9 42.2 63.2

57 9.0 15.0 22.4#



#60

4-Bromofluorobenzene

Concen: 22.767 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN071914.D

Acq: 08 Apr 2022 14:55

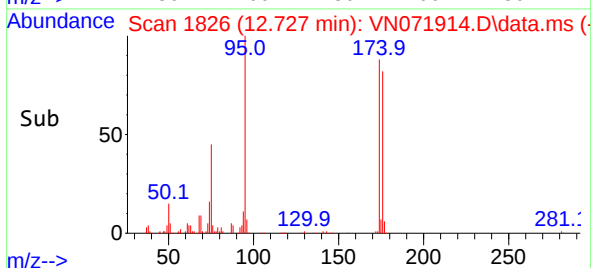
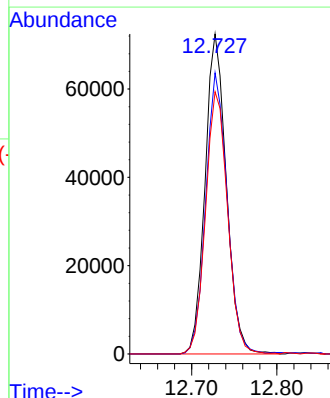
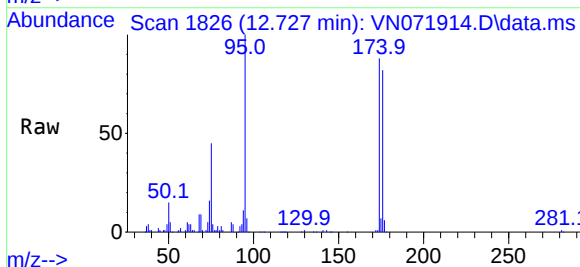
Tgt Ion: 95 Resp: 125515

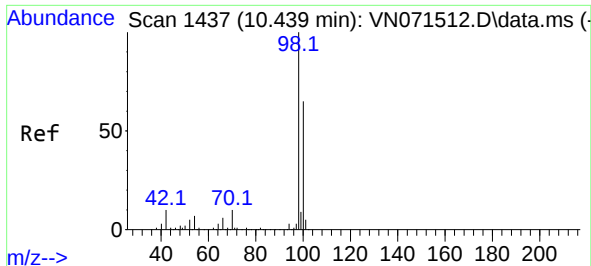
Ion Ratio Lower Upper

95 100

174 88.7 62.9 94.3

176 84.7 61.0 91.4

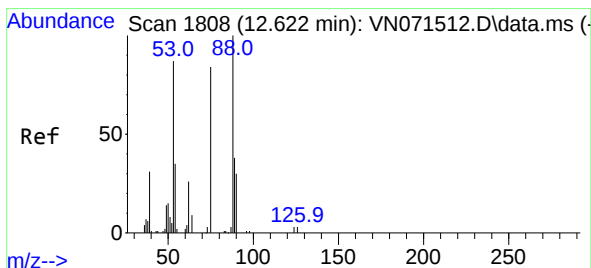
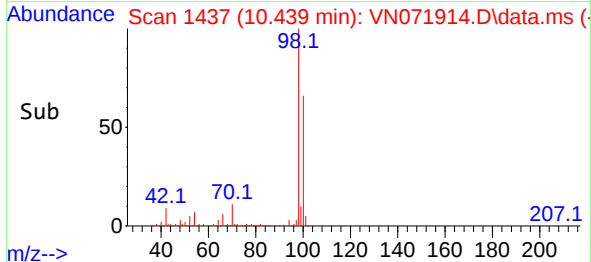
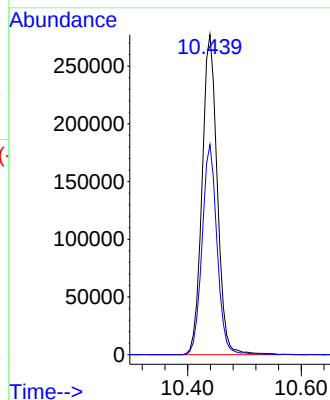
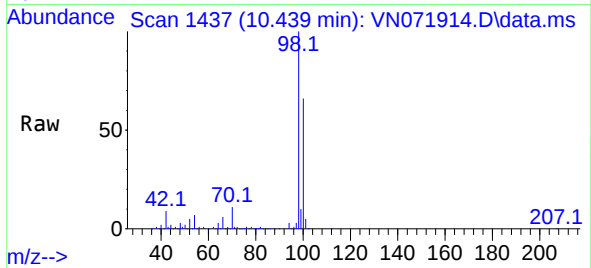




#63  
Toluene-d8  
Concen: 30.469 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

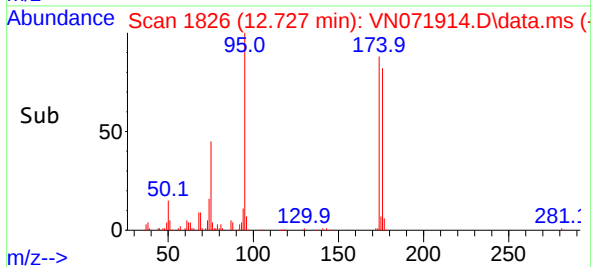
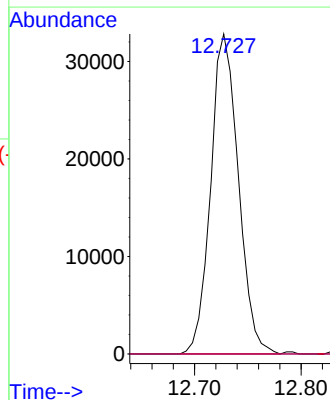
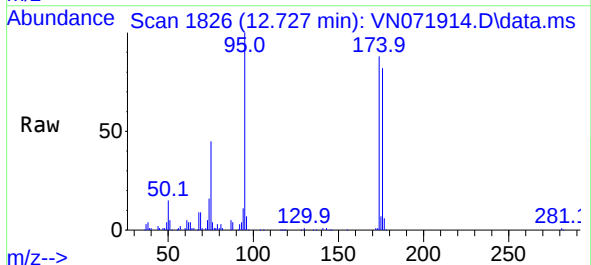
Instrument :  
MSVOA\_N  
ClientSampleId :

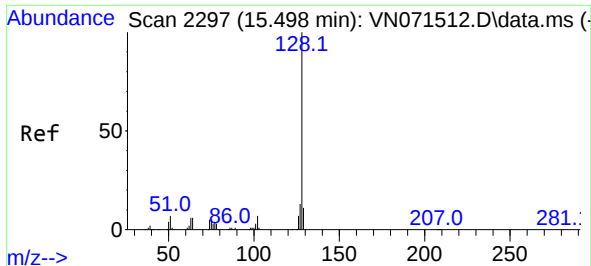
Tgt Ion: 98 Resp: 514256  
Ion Ratio Lower Upper  
98 100  
100 64.1 50.6 76.0



#77  
t-1,4-Dichloro-2-butene  
Concen: 25.375 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

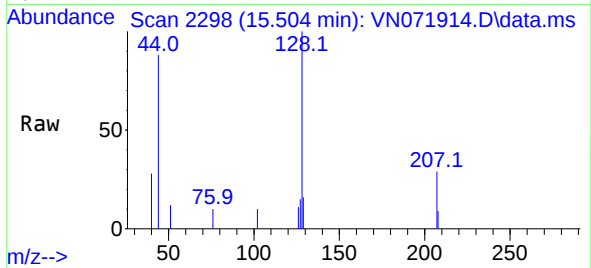
Tgt Ion: 75 Resp: 59234  
Ion Ratio Lower Upper  
75 100  
53 0.0 51.8 155.5#  
89 0.0 22.9 68.7#



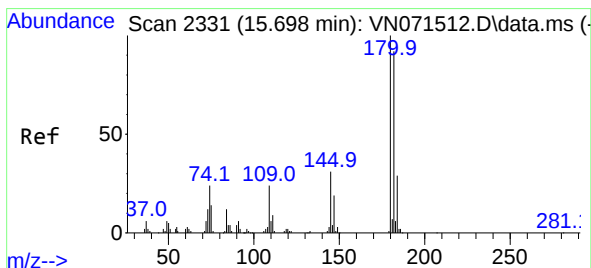
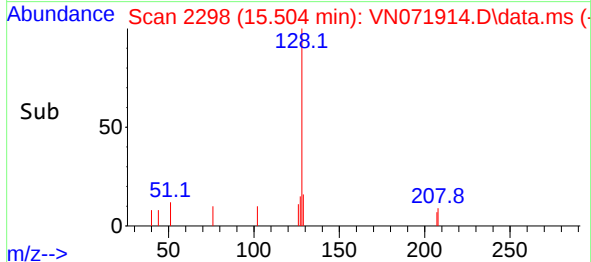
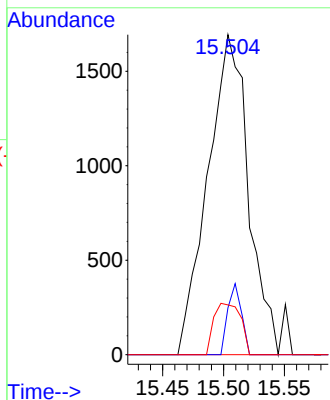


#91  
Naphthalene  
Concen: 7.117 ug/l  
RT: 15.504 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 3936  
Ion Ratio Lower Upper  
128 100  
127 7.4 10.7 16.1#  
129 10.5 9.0 13.6



#92  
1,2,3-Trichlorobenzene  
Concen: 0.275 ug/l  
RT: 15.698 min Scan# 2331  
Delta R.T. -0.000 min  
Lab File: VN071914.D  
Acq: 08 Apr 2022 14:55

Tgt Ion:180 Resp: 1144  
Ion Ratio Lower Upper  
180 100  
182 117.2 0.0 190.0  
145 24.5 0.0 67.8

