

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071421\  
 Data File : VN067749.D  
 Acq On : 14 Jul 2021 17:33  
 Operator : JC/MD  
 Sample : M3004-02 5X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

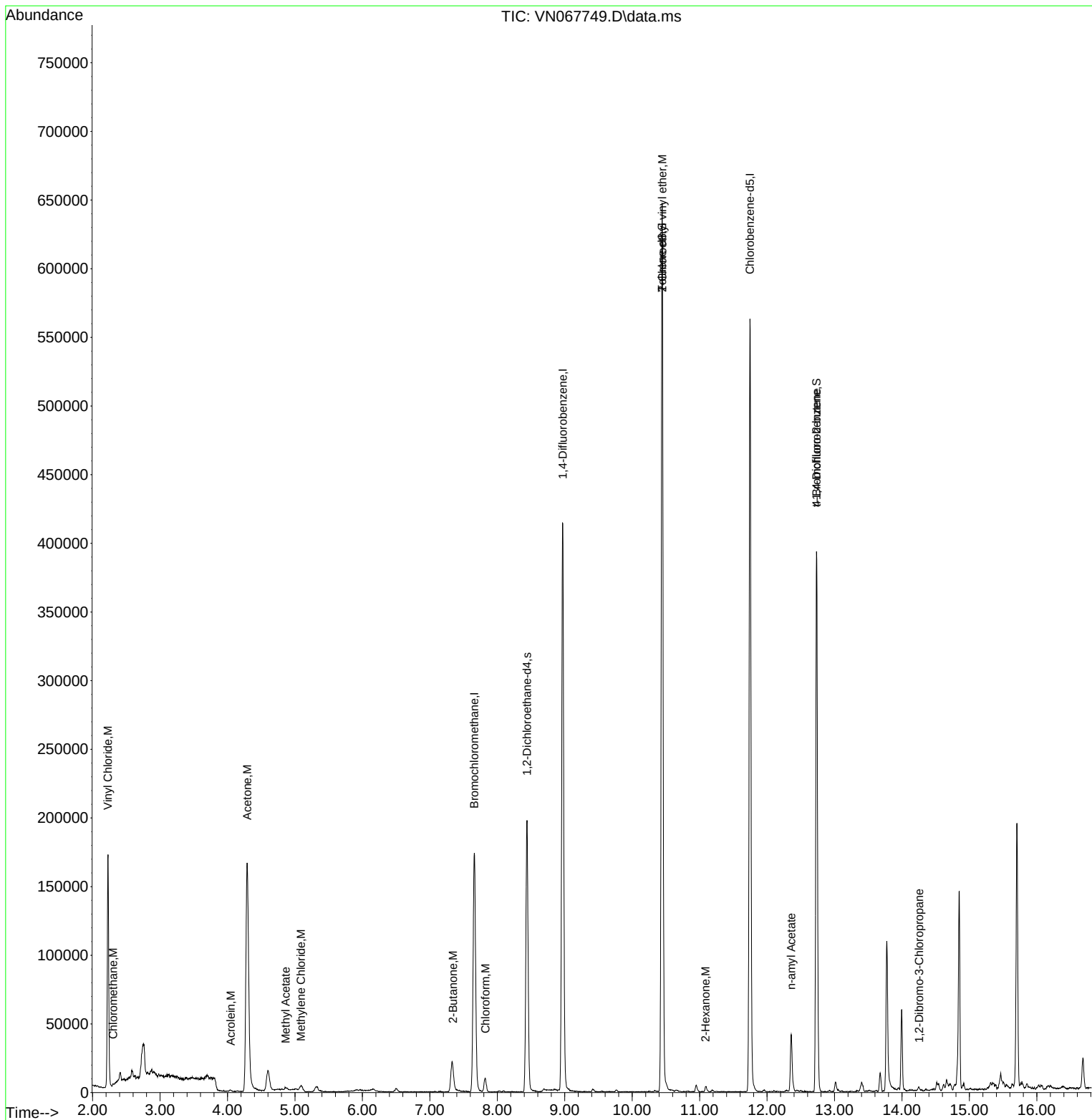
Instrument :  
 MSVOA\_N  
 ClientSampleId :

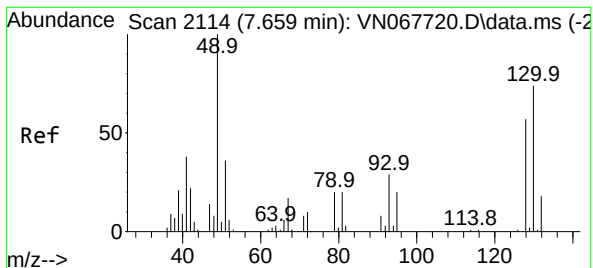
Quant Time: Jul 15 06:29:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N071421W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jul 14 01:19:19 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) Bromochloromethane         | 7.659  | 128   | 61425    | 30.000   | ug/l   | 0.00      |
| 28) 1,4-Difluorobenzene       | 8.971  | 114   | 359234   | 30.000   | ug/l   | 0.00      |
| 57) Chlorobenzene-d5          | 11.747 | 117   | 321725   | 30.000   | ug/l   | 0.00      |
|                               |        |       |          |          |        |           |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 27) 1,2-Dichloroethane-d4     | 8.440  | 65    | 166415   | 33.535   | ug/l   | 0.00      |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 111.767%# |
| 60) 4-Bromofluorobenzene      | 12.734 | 95    | 134797   | 25.799   | ug/l   | 0.00      |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 86.000%   |
| 63) Toluene-d8                | 10.443 | 98    | 450795   | 30.464   | ug/l   | 0.00      |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 101.533%  |
|                               |        |       |          |          |        |           |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 3) Chloromethane              | 2.303  | 50    | 1020     | 0.260    | ug/l   | 96        |
| 4) Vinyl Chloride             | 2.228  | 62    | 1818     | 0.298    | ug/l # | 1         |
| 12) Methyl Acetate            | 4.862  | 43    | 1070     | 0.263    | ug/l # | 51        |
| 13) Acrolein                  | 4.047  | 56    | 649      | 1.523    | ug/l # | 87        |
| 15) Acetone                   | 4.293  | 58    | 88868    | 200.468  | ug/l   | 96        |
| 18) Methylene Chloride        | 5.090  | 84    | 1889     | 0.458    | ug/l   | 93        |
| 25) Chloroform                | 7.823  | 83    | 10047    | 1.322    | ug/l   | 98        |
| 30) 2-Butanone                | 7.343  | 43    | 2138     | 0.819    | ug/l # | 63        |
| 47) n-amyl Acetate            | 12.358 | 43    | 30368    | 3.861    | ug/l # | 67        |
| 55) 2-Chloroethyl vinyl ether | 10.446 | 63    | 284      | 0.214    | ug/l # | 1         |
| 59) 2-Hexanone                | 11.087 | 43    | 1501     | 0.388    | ug/l   | 91        |
| 77) t-1,4-Dichloro-2-butene   | 12.734 | 75    | 75975    | 46.877   | ug/l # | 4         |
| 88) 1,2-Dibromo-3-Chloropr... | 14.254 | 75    | 346      | 0.335    | ug/l # | 7         |
| -----                         |        |       |          |          |        |           |

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

Quant Time: Jul 15 06:29:21 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N071421W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jul 14 01:19:19 2021  
Response via : Initial Calibration



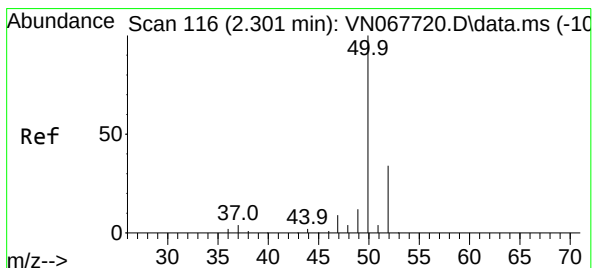
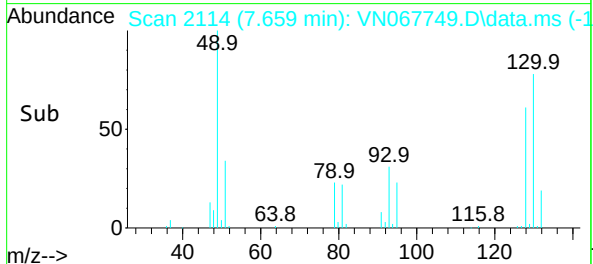
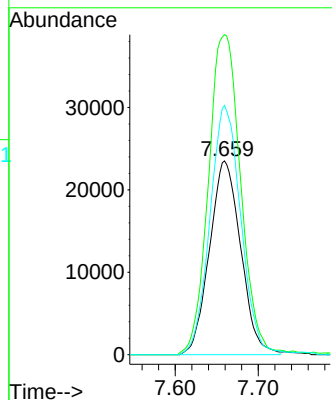
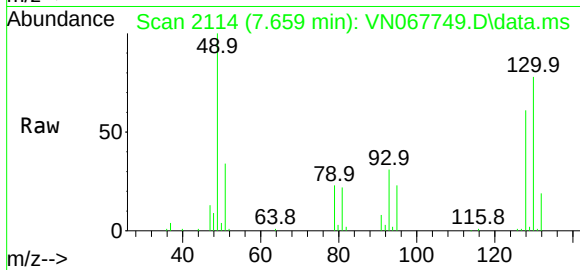


#1

Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.659 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Instrument :  
MSVOA\_N  
ClientSampleId :

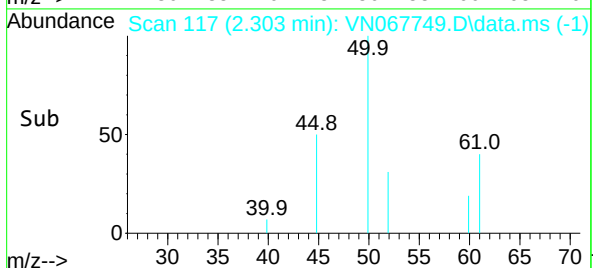
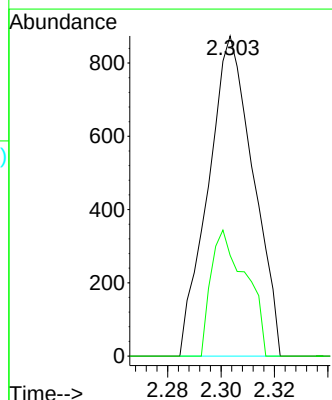
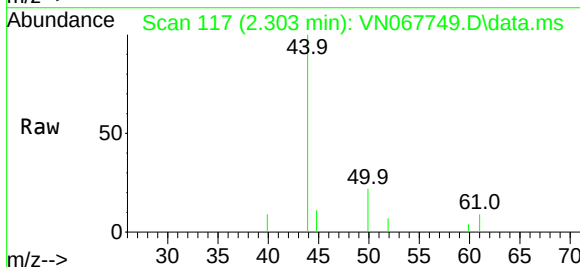
Tgt Ion:128 Resp: 61425  
Ion Ratio Lower Upper  
128 100  
49 170.0 0.0 433.0  
130 127.2 0.0 323.8

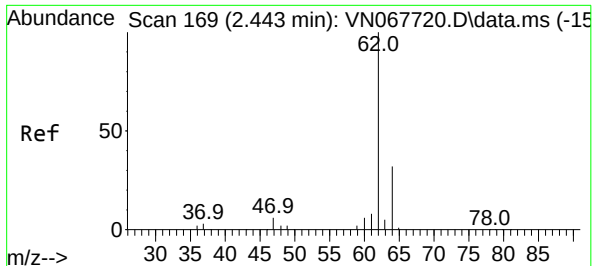


#3

Chloromethane  
Concen: 0.260 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Tgt Ion: 50 Resp: 1020  
Ion Ratio Lower Upper  
50 100  
52 31.5 27.2 40.8

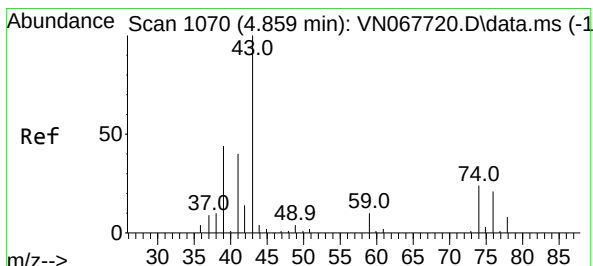
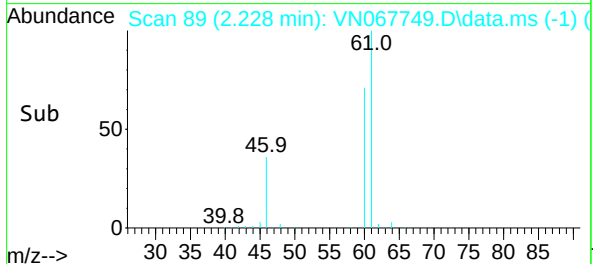
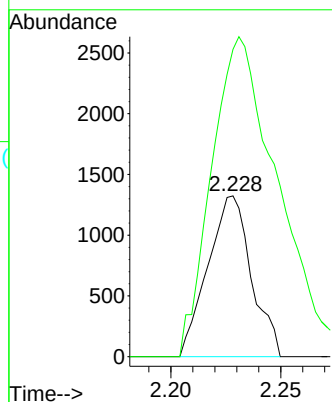
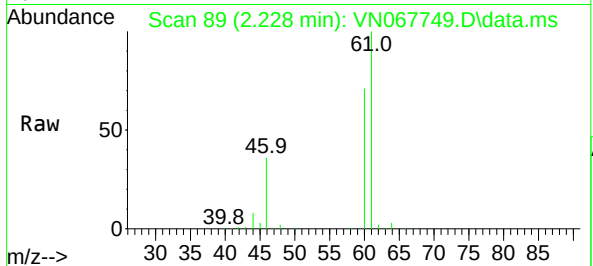




#4  
 Vinyl Chloride  
 Concen: 0.298 ug/l  
 RT: 2.228 min Scan# 89  
 Delta R.T. -0.215 min  
 Lab File: VN067749.D  
 Acq: 14 Jul 2021 17:33

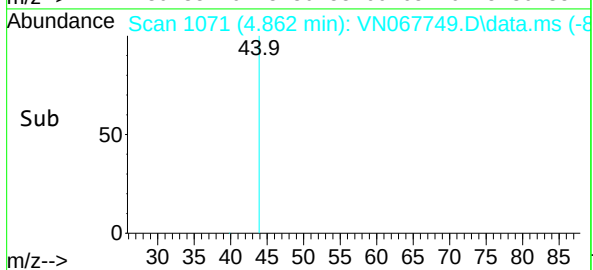
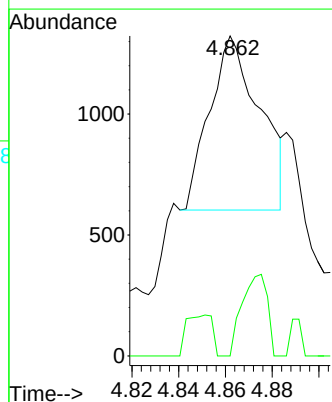
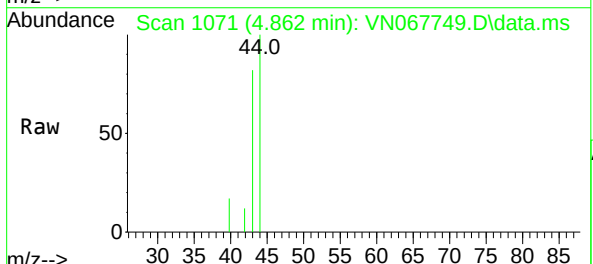
Instrument :  
 MSVOA\_N  
 ClientSampled :

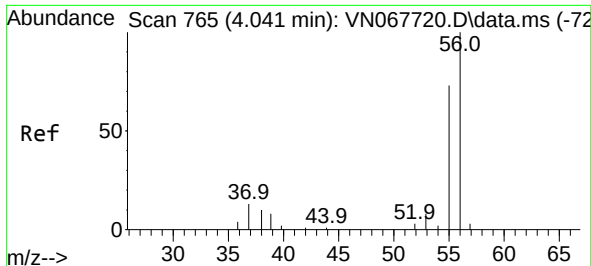
Tgt Ion: 62 Resp: 1818  
 Ion Ratio Lower Upper  
 62 100  
 64 191.2 25.9 38.9#



#12  
 Methyl Acetate  
 Concen: 0.263 ug/l  
 RT: 4.862 min Scan# 1071  
 Delta R.T. 0.003 min  
 Lab File: VN067749.D  
 Acq: 14 Jul 2021 17:33

Tgt Ion: 43 Resp: 1070  
 Ion Ratio Lower Upper  
 43 100  
 74 0.0 19.8 29.6#

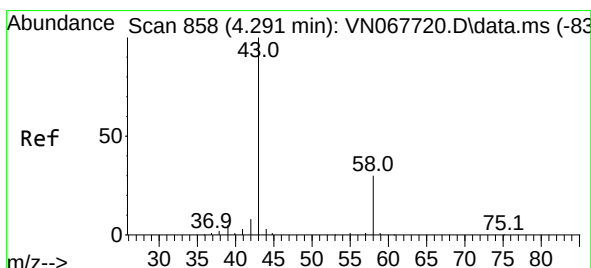
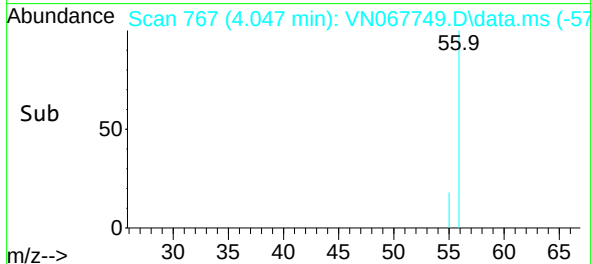
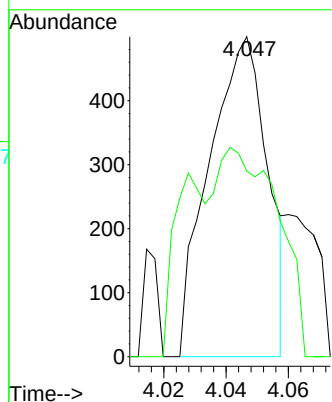
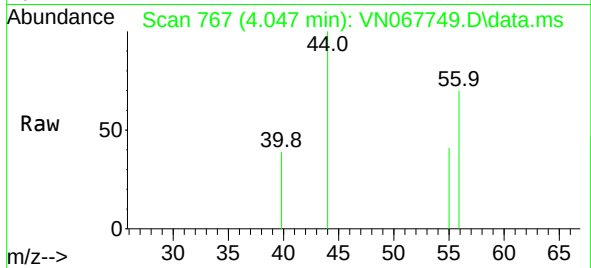




#13  
Acrolein  
Concen: 1.523 ug/l  
RT: 4.047 min Scan# 767  
Delta R.T. 0.005 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

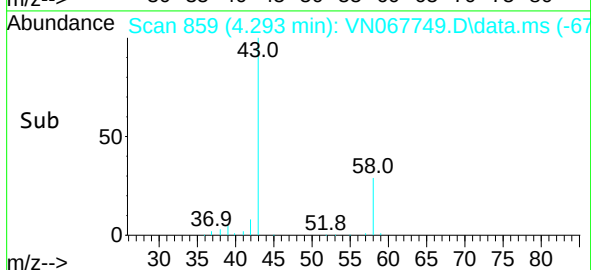
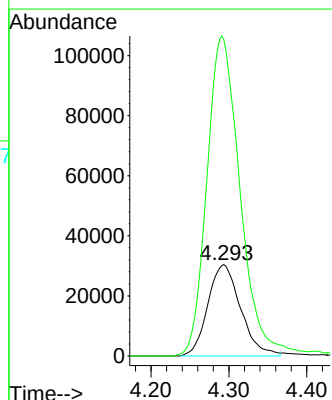
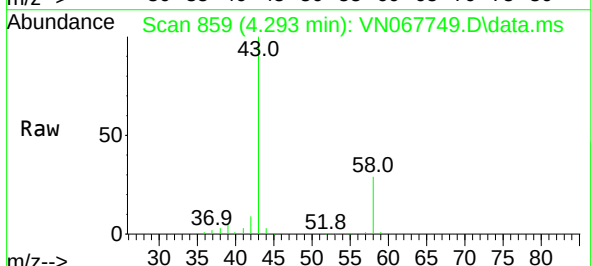
Instrument :  
MSVOA\_N  
ClientSampled :

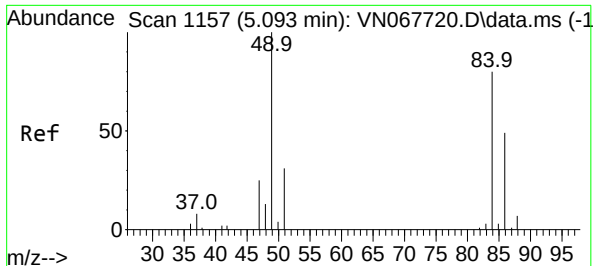
Tgt Ion: 56 Resp: 649  
Ion Ratio Lower Upper  
56 100  
55 16.8 0.2 0.2#



#15  
Acetone  
Concen: 200.468 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.003 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Tgt Ion: 58 Resp: 88868  
Ion Ratio Lower Upper  
58 100  
43 344.7 268.2 402.4





#18

Methylene Chloride

Concen: 0.458 ug/l

RT: 5.090 min Scan# 1156

Delta R.T. -0.003 min

Lab File: VN067749.D

Acq: 14 Jul 2021 17:33

Tgt Ion: 84 Resp: 1889

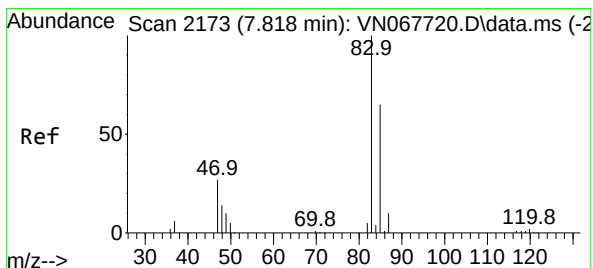
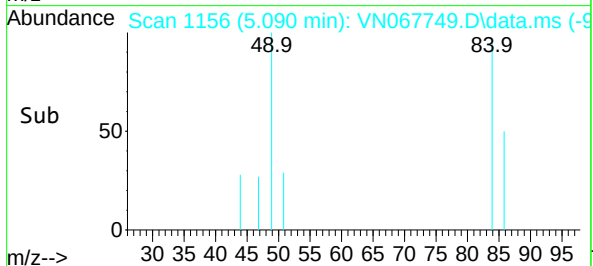
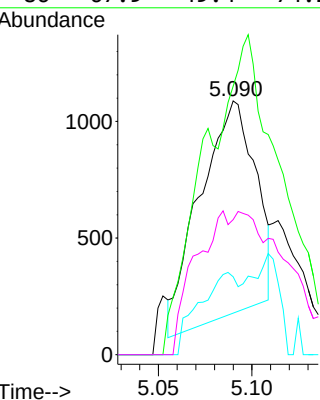
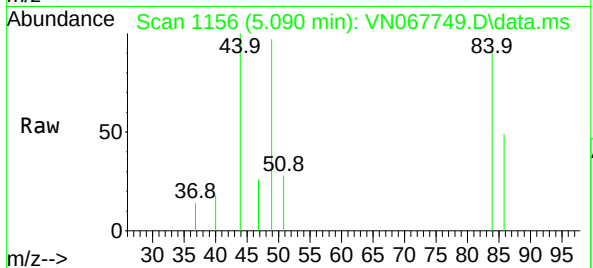
Ion Ratio Lower Upper

84 100

49 115.2 100.5 150.7

51 39.2 30.7 46.1

86 67.9 49.4 74.2



#25

Chloroform

Concen: 1.322 ug/l

RT: 7.823 min Scan# 2175

Delta R.T. 0.005 min

Lab File: VN067749.D

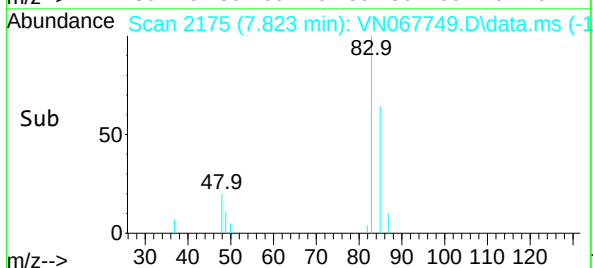
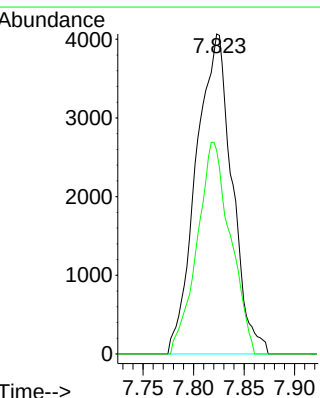
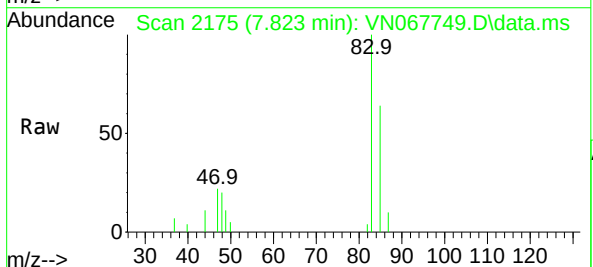
Acq: 14 Jul 2021 17:33

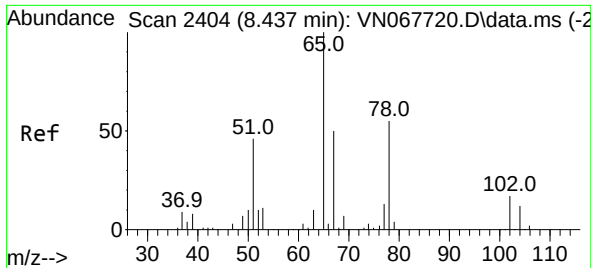
Tgt Ion: 83 Resp: 10047

Ion Ratio Lower Upper

83 100

85 63.6 52.3 78.5



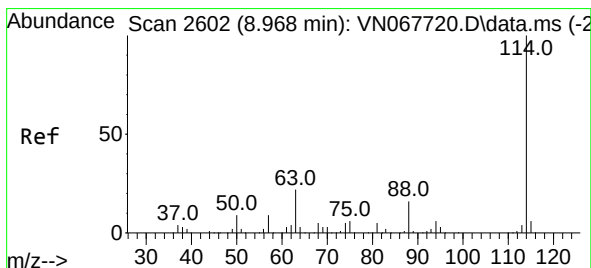
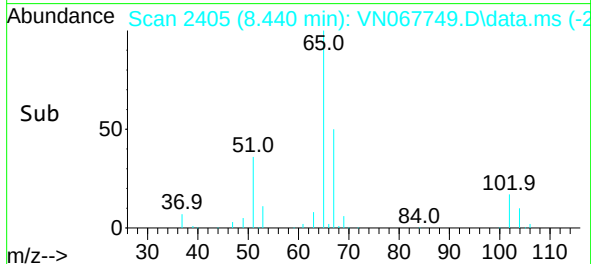
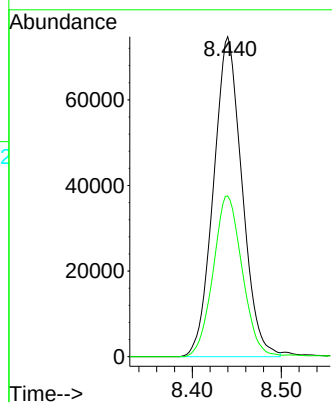
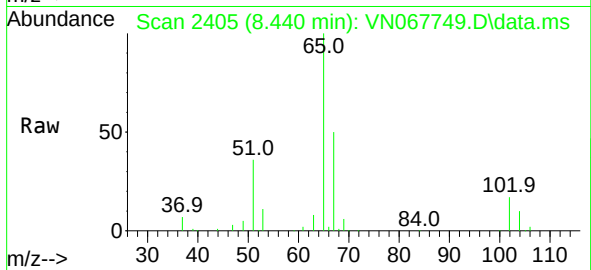


#27

1,2-Dichloroethane-d4  
Concen: 33.535 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Instrument :  
MSVOA\_N  
ClientSampled :

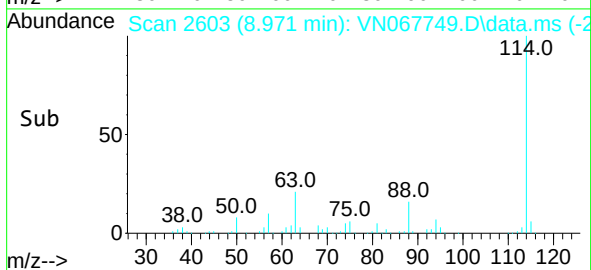
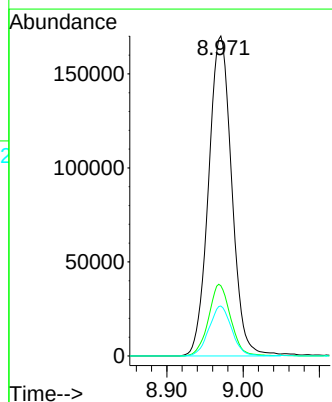
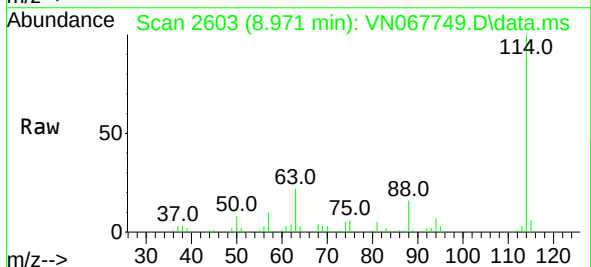
Tgt Ion: 65 Resp: 166415  
Ion Ratio Lower Upper  
65 100  
67 51.1 40.6 60.8

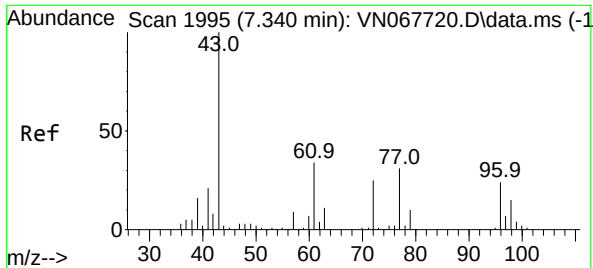


#28

1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Tgt Ion: 114 Resp: 359234  
Ion Ratio Lower Upper  
114 100  
63 21.4 17.2 25.8  
88 15.2 12.4 18.6

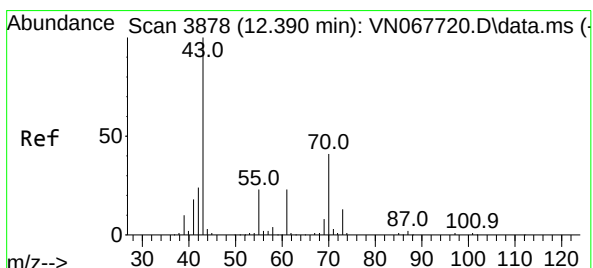
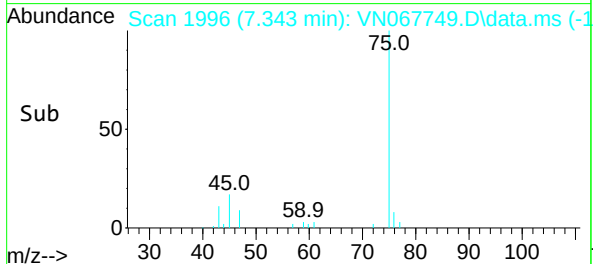
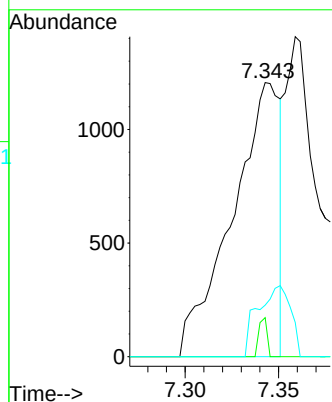
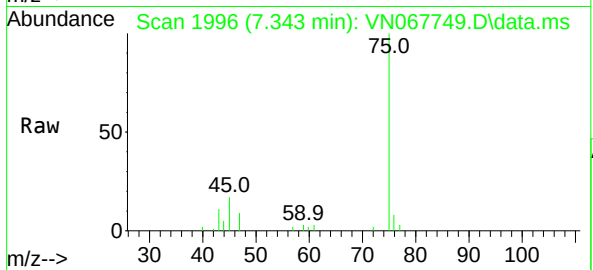




#30  
2-Butanone  
Concen: 0.819 ug/l  
RT: 7.343 min Scan# 1996  
Delta R.T. 0.003 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

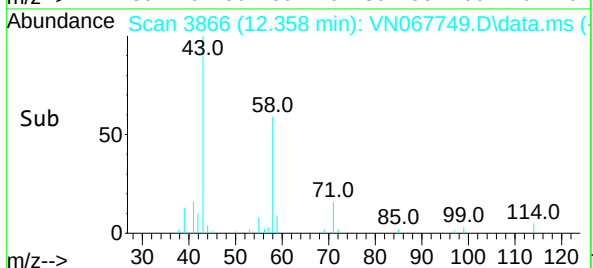
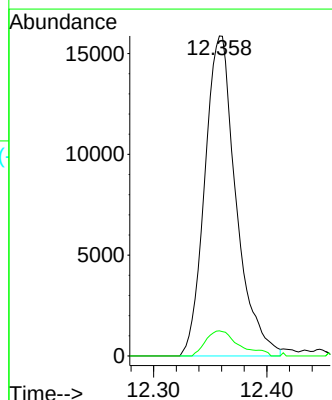
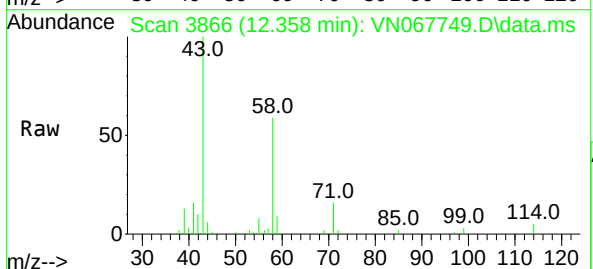
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 43 Resp: 2138  
Ion Ratio Lower Upper  
43 100  
57 2.4 6.6 9.8#  
72 4.7 21.8 32.6#

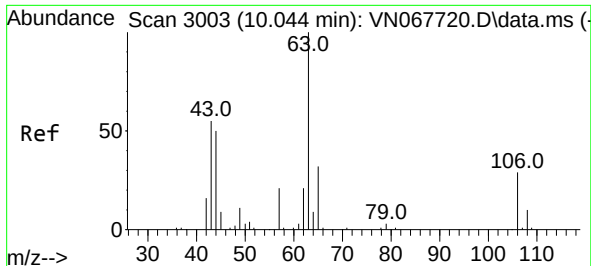


#47  
n-amyl Acetate  
Concen: 3.861 ug/l  
RT: 12.358 min Scan# 3866  
Delta R.T. -0.032 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Tgt Ion: 43 Resp: 30368  
Ion Ratio Lower Upper  
43 100  
55 7.8 19.0 28.6#



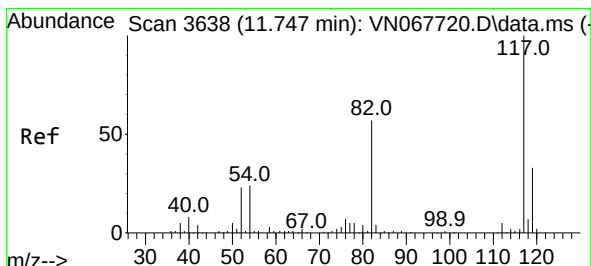
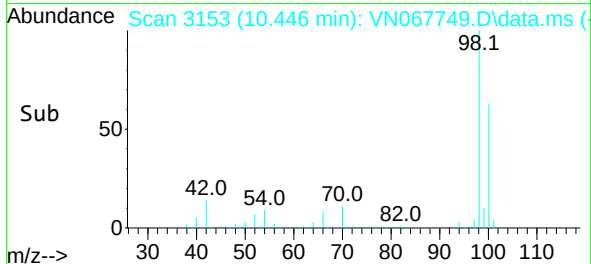
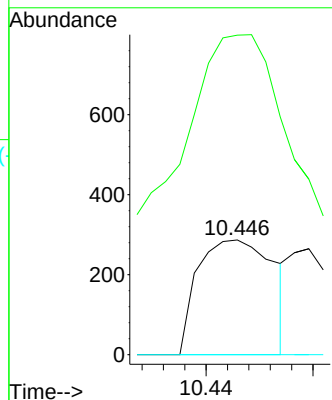
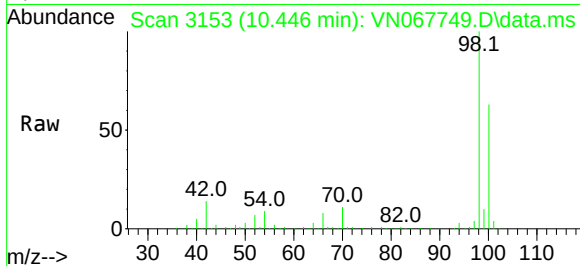




#55  
2-Chloroethyl vinyl ether  
Concen: 0.214 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.402 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

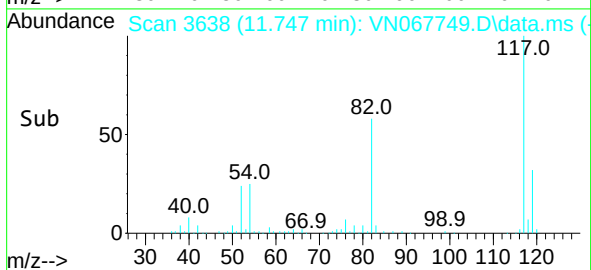
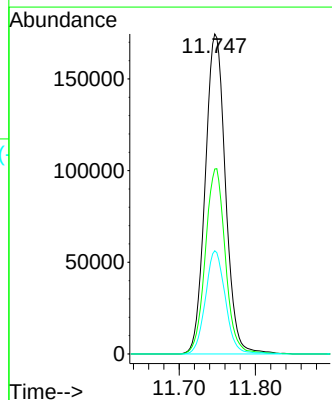
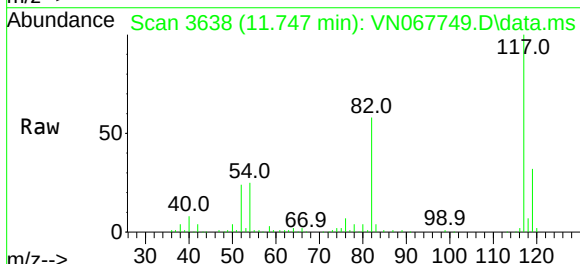
Instrument :  
MSVOA\_N  
ClientSampleId :

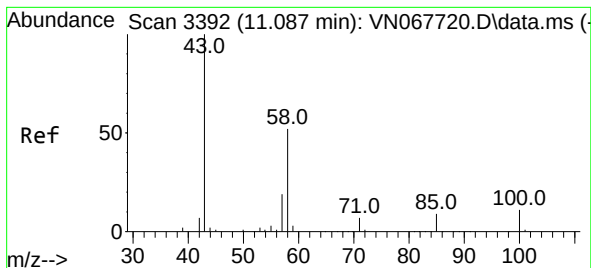
Tgt Ion: 63 Resp: 284  
Ion Ratio Lower Upper  
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65 490.5 25.5 38.3#  
106 0.0 22.1 33.1#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Tgt Ion: 117 Resp: 321725  
Ion Ratio Lower Upper  
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82 57.4 45.4 68.0  
119 31.6 25.7 38.5

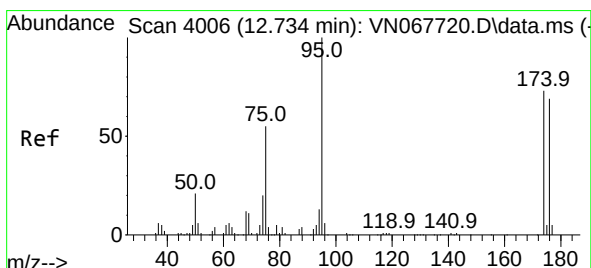
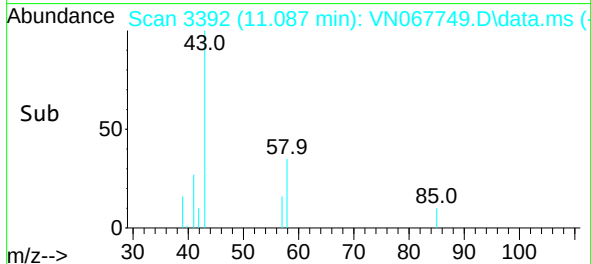
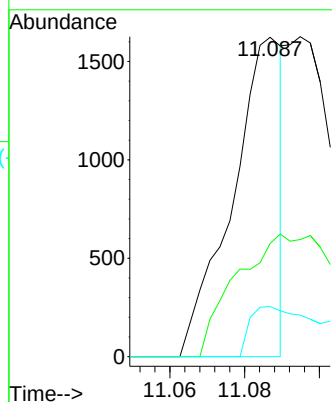
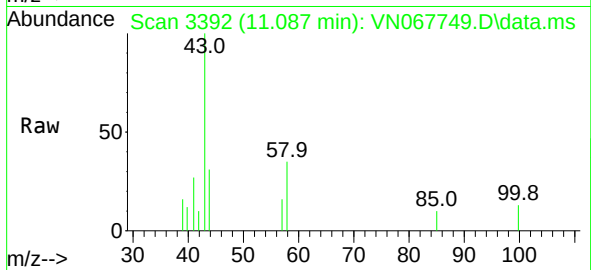




#59  
2-Hexanone  
Concen: 0.388 ug/l  
RT: 11.087 min Scan# 3392  
Delta R.T. -0.000 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

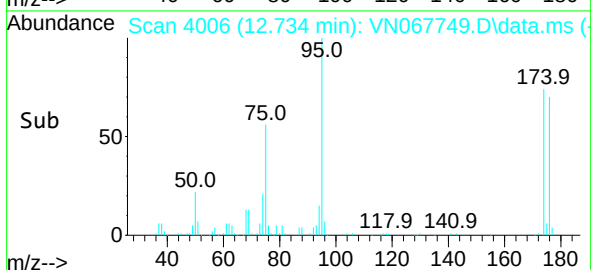
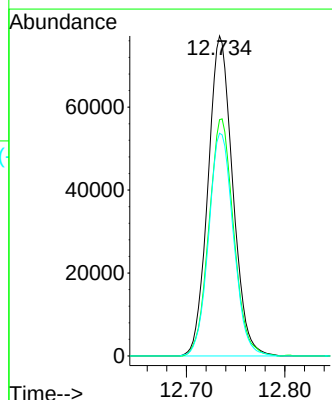
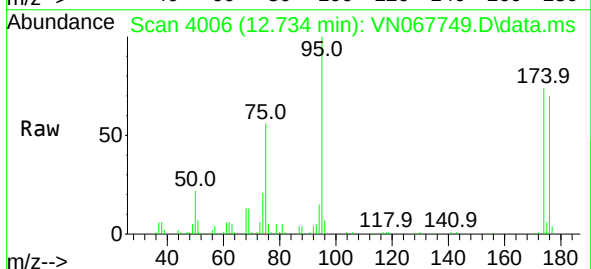
Instrument :  
MSVOA\_N  
ClientSampleId :

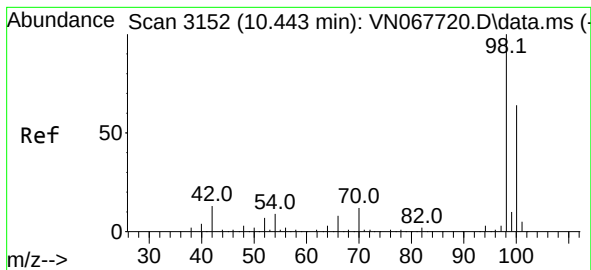
Tgt Ion: 43 Resp: 1501  
Ion Ratio Lower Upper  
43 100  
58 43.0 41.5 62.3  
57 18.5 15.1 22.7



#60  
4-Bromofluorobenzene  
Concen: 25.799 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

Tgt Ion: 95 Resp: 134797  
Ion Ratio Lower Upper  
95 100  
174 74.0 57.1 85.7  
176 69.9 54.6 81.8

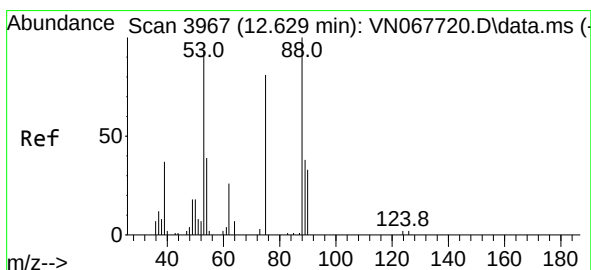
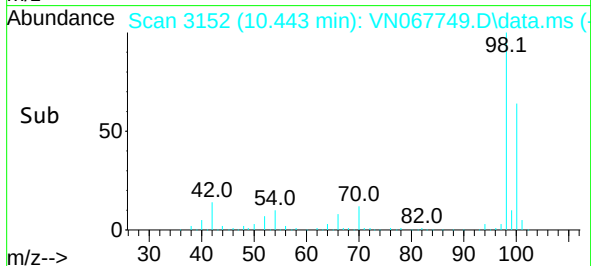
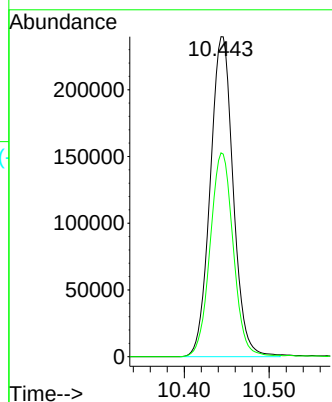
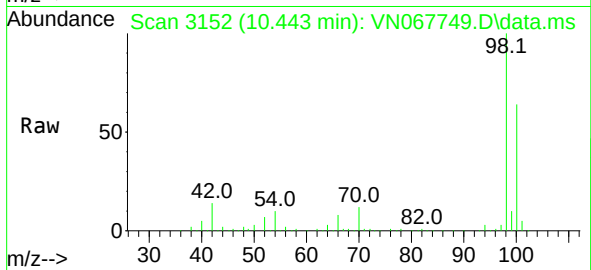




#63  
Toluene-d8  
Concen: 30.464 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

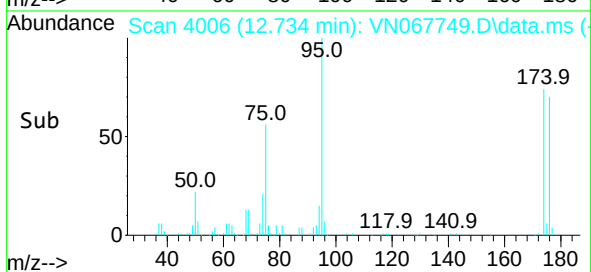
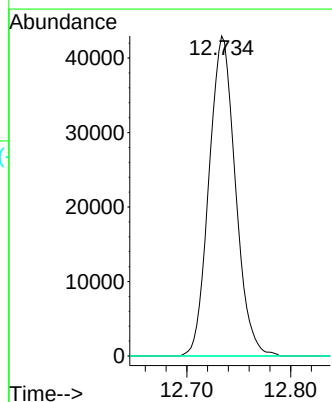
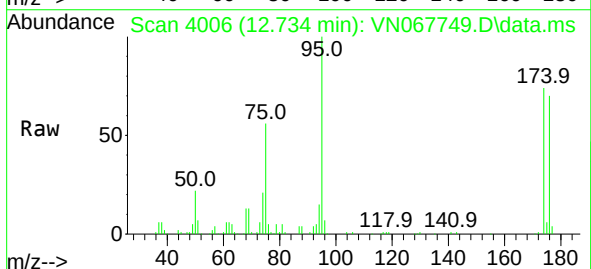
Instrument :  
MSVOA\_N  
ClientSampled :

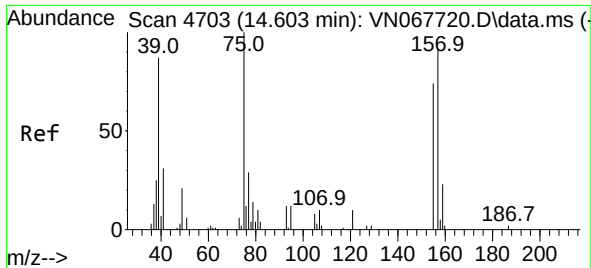
Tgt Ion: 98 Resp: 450795  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.0 76.4



#77  
t-1,4-Dichloro-2-butene  
Concen: 46.877 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN067749.D  
Acq: 14 Jul 2021 17:33

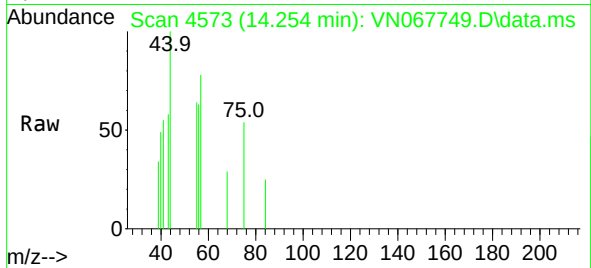
Tgt Ion: 75 Resp: 75975  
Ion Ratio Lower Upper  
75 100  
53 0.0 57.0 171.0#  
89 0.0 24.7 74.1#





#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.335 ug/l  
 RT: 14.254 min Scan# 4573  
 Delta R.T. -0.349 min  
 Lab File: VN067749.D  
 Acq: 14 Jul 2021 17:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 346  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 59.2 88.8#  
 157 0.0 75.4 113.2#

