

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011121\  
 Data File : VN065470.D  
 Acq On : 11 Jan 2021 16:05  
 Operator : JC/MD  
 Sample : PB134024TB  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 12 00:09:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 Response via : Initial Calibration

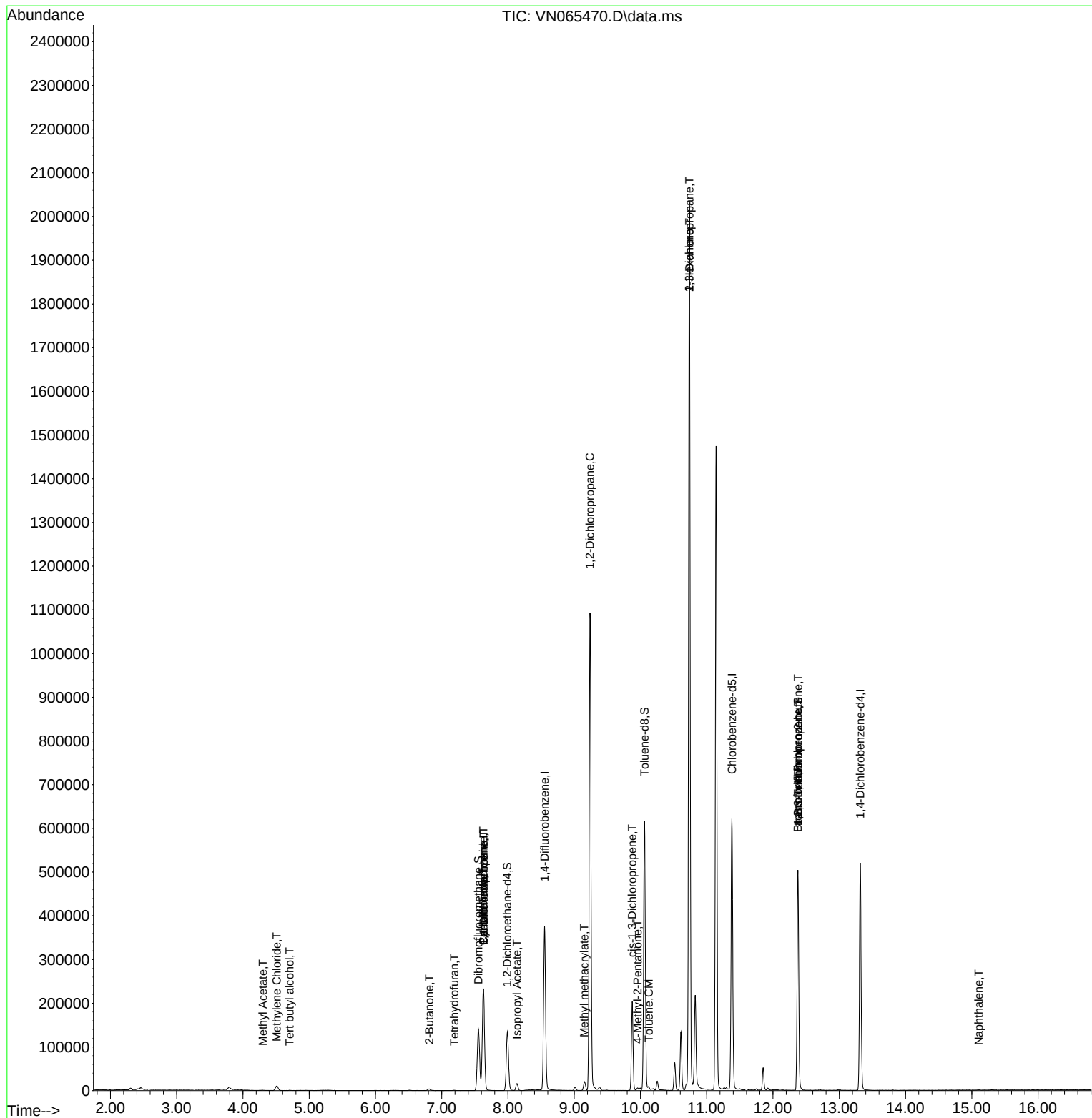
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.631          | 168  | 216800     | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.553          | 114  | 361437     | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.380         | 117  | 389538     | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318         | 152  | 159188     | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.991          | 65   | 119474     | 48.81     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 97.62%    |        |          |
| 35) Dibromofluoromethane      | 7.553          | 113  | 109529     | 50.23     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 100.46%   |        |          |
| 50) Toluene-d8                | 10.061         | 98   | 448271     | 54.85     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 109.70%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.376         | 95   | 174191     | 53.49     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 106.98%   |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.705          | 59   | 186        | 0.46      | ug/l # | 73       |
| 16) Acetone                   | 3.788          | 43   | 8428       | Below Cal |        | 92       |
| 18) Methyl Acetate            | 4.303          | 43   | 1747       | 0.79      | ug/l # | 53       |
| 20) Methylene Chloride        | 4.512          | 84   | 8322       | 3.49      | ug/l   | 95       |
| 25) 2-Butanone                | 6.811          | 43   | 3761       | 2.74      | ug/l   | 95       |
| 29) Tetrahydrofuran           | 7.190          | 42   | 784        | 0.88      | ug/l # | 35       |
| 31) Cyclohexane               | 7.627          | 56   | 3394       | 0.94      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.631          | 75   | 13158      | 4.00      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 17776      | 5.15      | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.135          | 43   | 19517      | 3.48      | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.238          | 63   | 1485       | 0.58      | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.151          | 41   | 4822       | 1.77      | ug/l # | 12       |
| 51) 4-Methyl-2-Pentanone      | 9.955          | 43   | 4515       | 1.43      | ug/l   | 89       |
| 52) Toluene                   | 10.126         | 92   | 3075       | 0.50      | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.875          | 75   | 37477      | 8.60      | ug/l # | 61       |
| 57) 1,3-Dichloropropane       | 10.737         | 76   | 21801      | 5.42      | ug/l # | 42       |
| 59) 2-Hexanone                | 10.737         | 43   | 291421     | 125.58    | ug/l # | 49       |
| 71) Bromoform                 | 12.373         | 173  | 769        | 0.29      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.376         | 75   | 82482      | 25.40     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376         | 75   | 82482      | 64.04     | ug/l # | 15       |
| 95) Naphthalene               | 15.106         | 128  | 405        | 3.42      | ug/l # | 69       |
| -----                         |                |      |            |           |        |          |

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

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Sample : PB134024TB  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 22 15:42:18 2020  
Response via : Initial Calibration

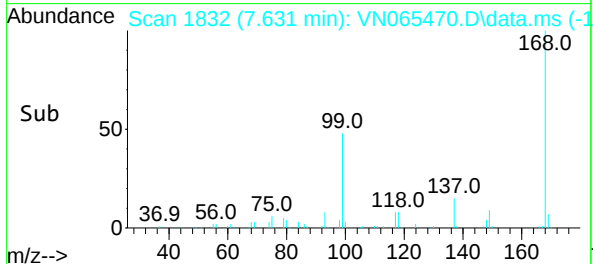
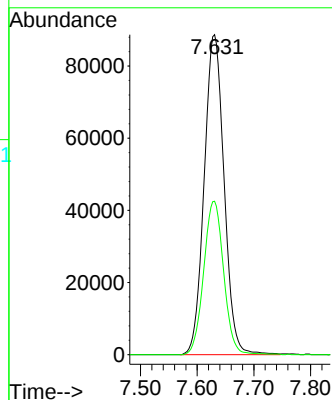
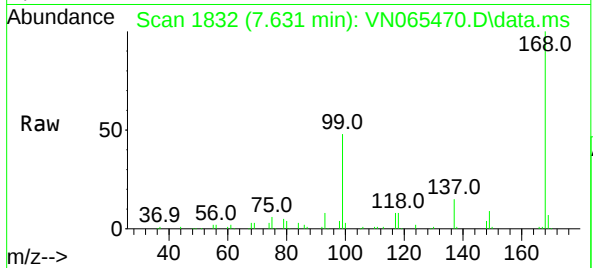




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.631 min Scan# 1832  
Delta R.T. 0.004 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

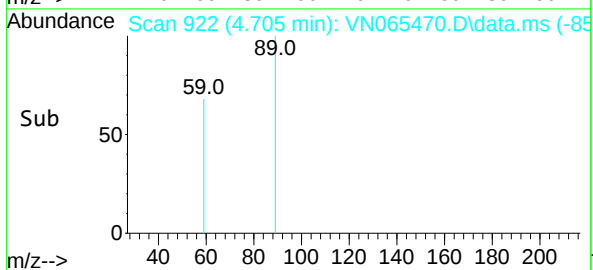
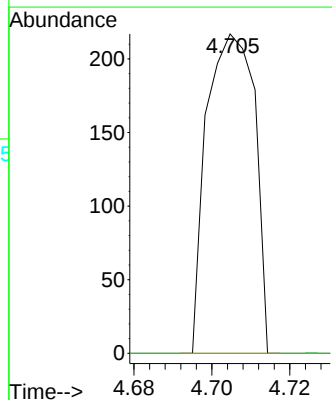
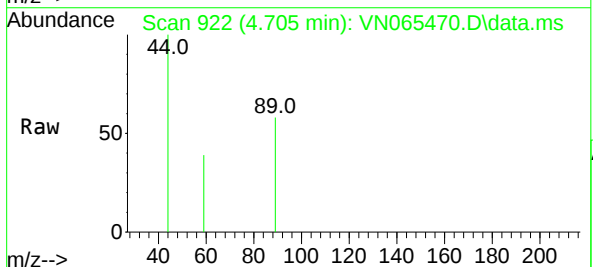
Instrument :  
MSVOA\_N  
ClientSampleId :

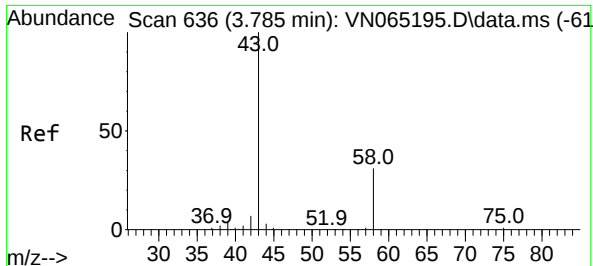
Tgt Ion:168 Resp: 216800  
Ion Ratio Lower Upper  
168 100  
99 48.0 43.0 64.4



#11  
Tert butyl alcohol  
Concen: 0.46 ug/l  
RT: 4.705 min Scan# 922  
Delta R.T. -0.067 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 59 Resp: 186  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

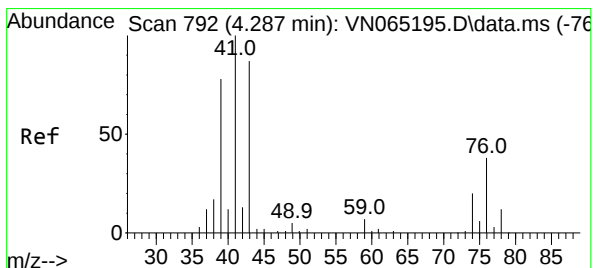
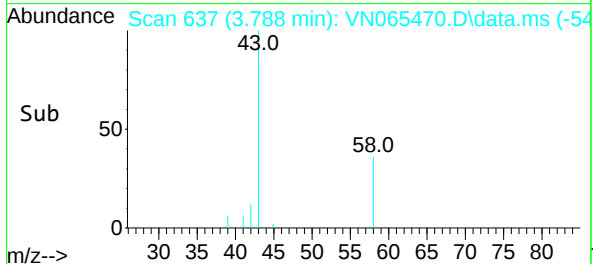
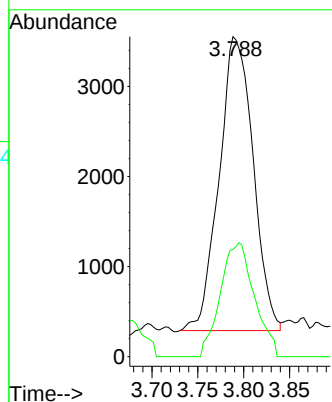
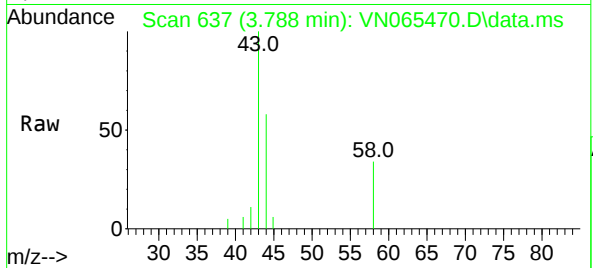




#16  
Acetone  
Concen: Below Cal  
RT: 3.788 min Scan# 637  
Delta R.T. 0.003 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

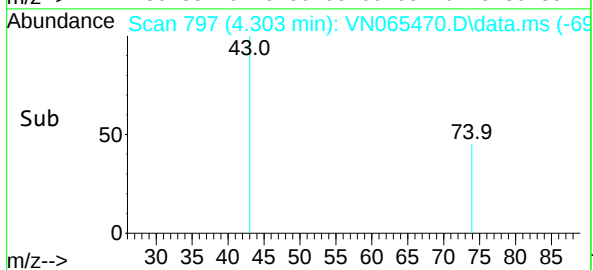
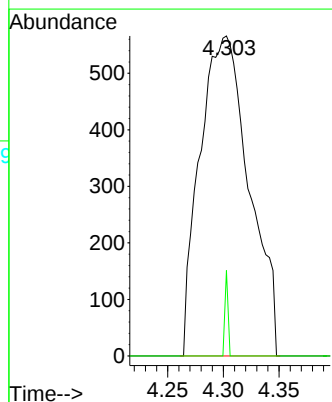
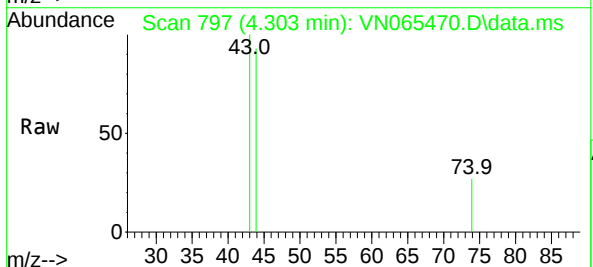
Instrument :  
MSVOA\_N  
ClientSampled :

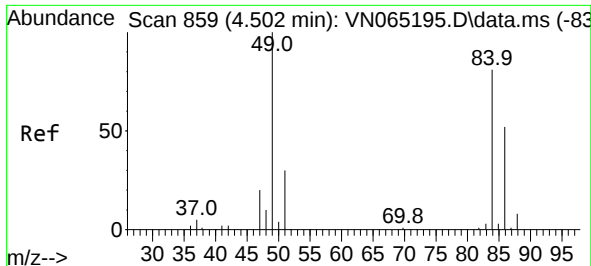
Tgt Ion: 43 Resp: 8428  
Ion Ratio Lower Upper  
43 100  
58 36.5 25.7 38.5



#18  
Methyl Acetate  
Concen: 0.79 ug/l  
RT: 4.303 min Scan# 797  
Delta R.T. 0.016 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

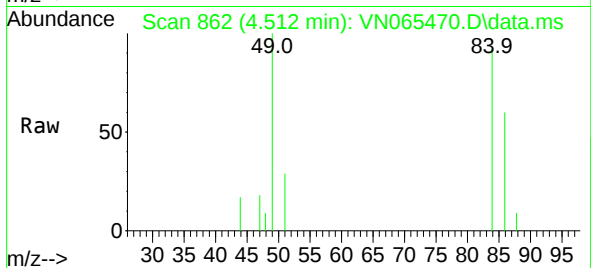
Tgt Ion: 43 Resp: 1747  
Ion Ratio Lower Upper  
43 100  
74 1.7 20.2 30.2#





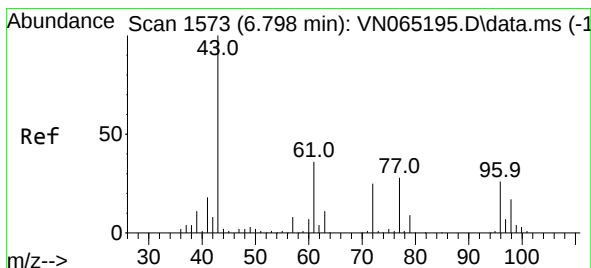
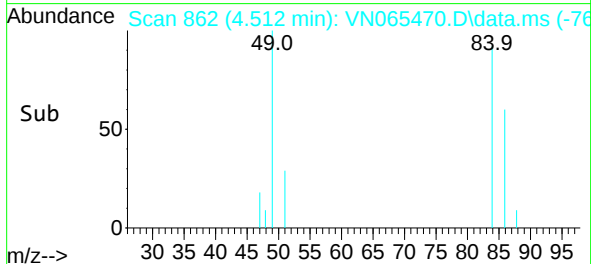
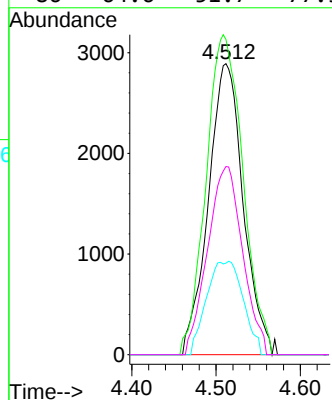
#20  
Methylene Chloride  
Concen: 3.49 ug/l  
RT: 4.512 min Scan# 862  
Delta R.T. 0.010 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Instrument :  
MSVOA\_N  
ClientSampleId :

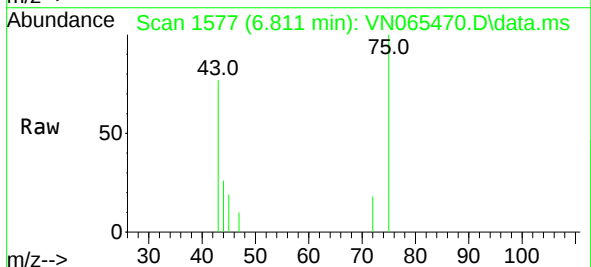


Tgt Ion: 84 Resp: 8322

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 108.3 | 93.4  | 140.0 |
| 51  | 31.5  | 28.2  | 42.4  |
| 86  | 64.6  | 51.7  | 77.5  |

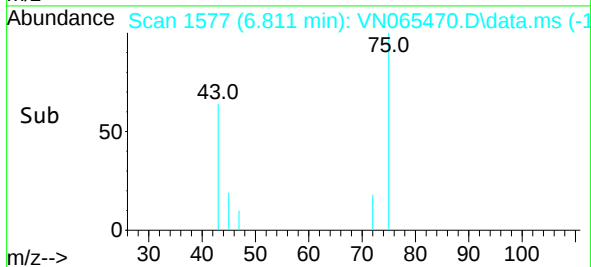
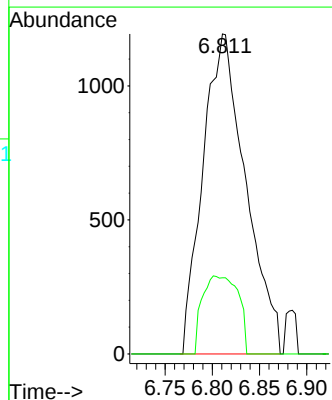


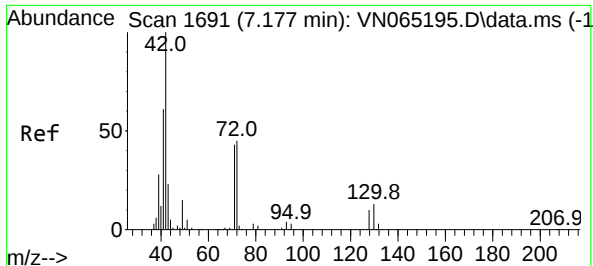
#25  
2-Butanone  
Concen: 2.74 ug/l  
RT: 6.811 min Scan# 1577  
Delta R.T. 0.013 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05



Tgt Ion: 43 Resp: 3761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.8  | 21.0  | 31.6  |





#29

Tetrahydrofuran

Concen: 0.88 ug/l

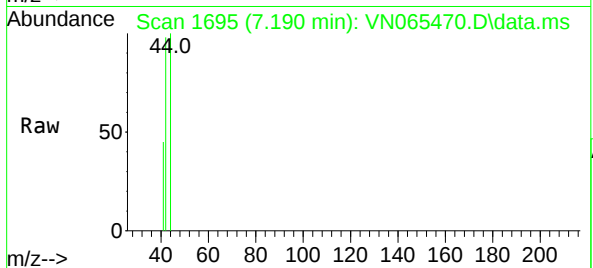
RT: 7.190 min Scan# 1695

Delta R.T. 0.013 min

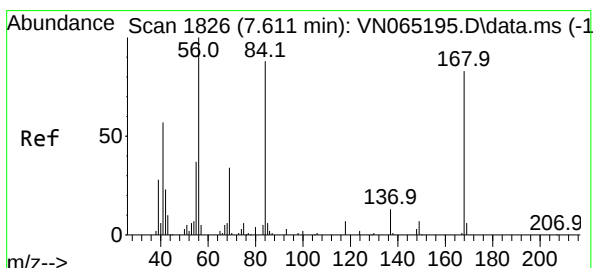
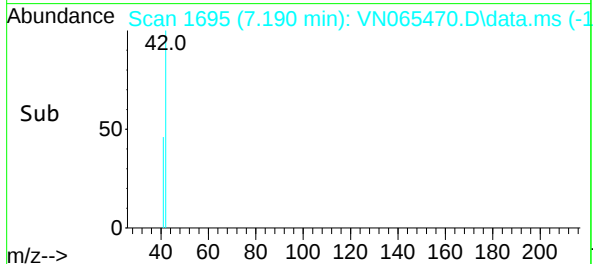
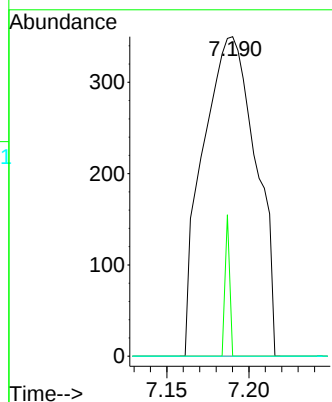
Lab File: VN065470.D

Acq: 11 Jan 2021 16:05

Instrument :  
MSVOA\_N  
ClientSampled :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 784   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 3.8   | 36.6  | 54.8# |
| 71       | 0.0   | 33.6  | 50.4# |



#31

Cyclohexane

Concen: 0.94 ug/l

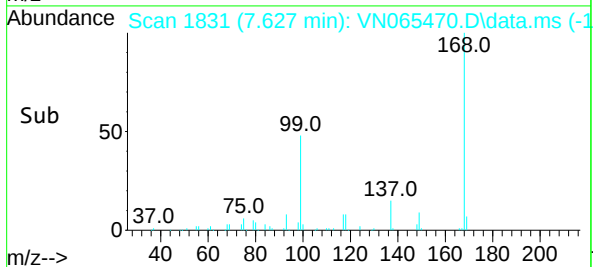
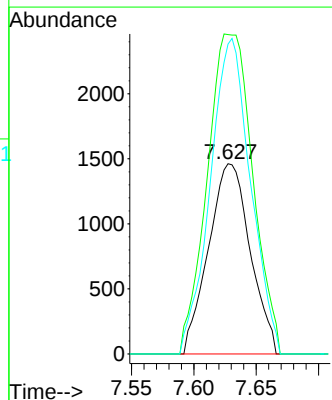
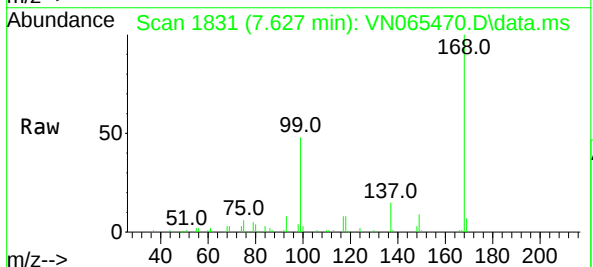
RT: 7.627 min Scan# 1831

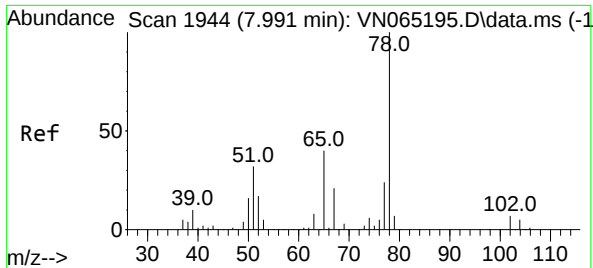
Delta R.T. 0.016 min

Lab File: VN065470.D

Acq: 11 Jan 2021 16:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3394   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 167.8 | 27.5  | 41.3#  |
| 84       | 162.8 | 73.9  | 110.9# |

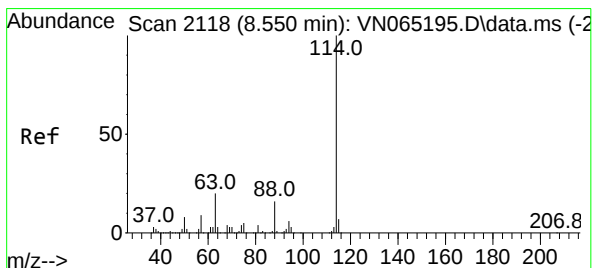
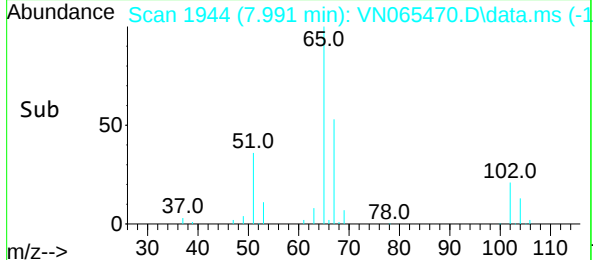
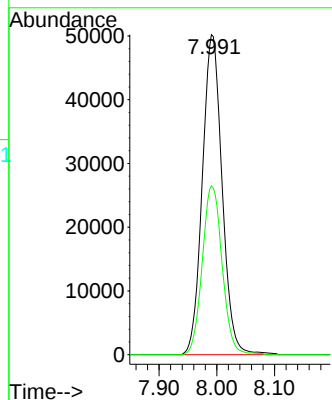
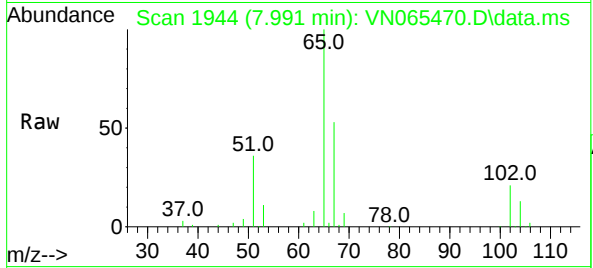




#33  
1,2-Dichloroethane-d4  
Concen: 48.81 ug/l  
RT: 7.991 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

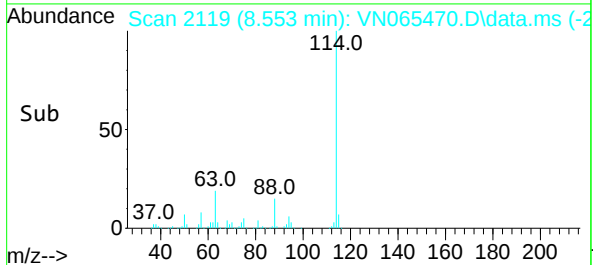
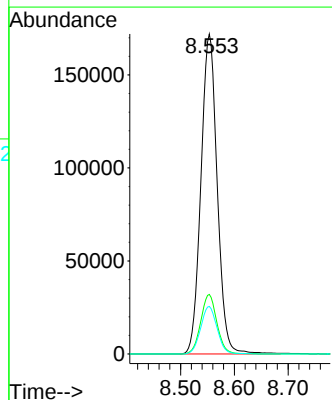
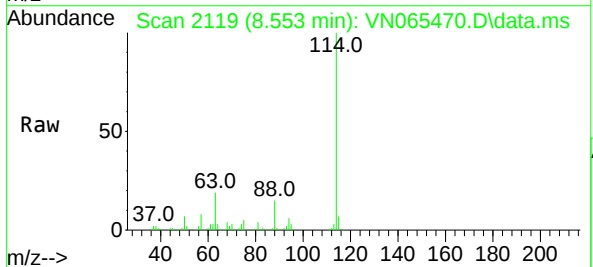
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 65 Resp: 119474  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 108.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.553 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 114 Resp: 361437  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 38.6  
88 14.9 0.0 32.6

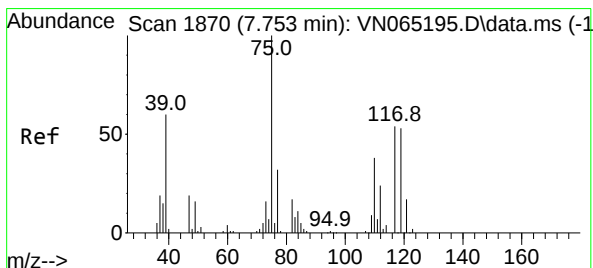
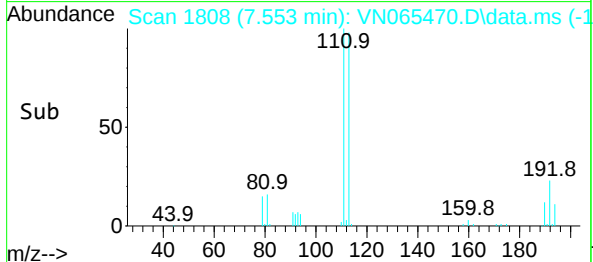
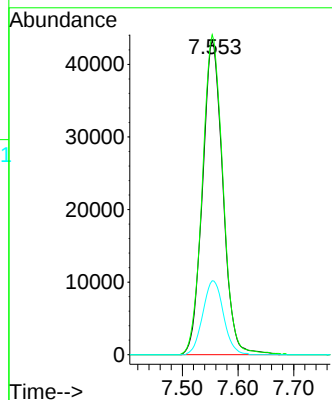
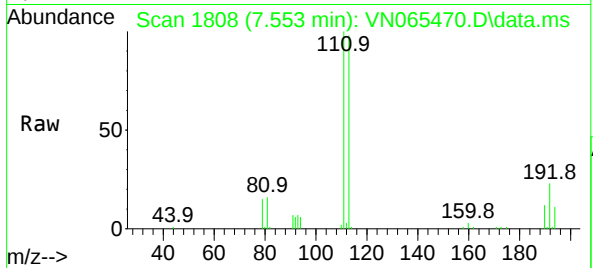




#35  
Dibromofluoromethane  
Concen: 50.23 ug/l  
RT: 7.553 min Scan# 1808  
Delta R.T. 0.003 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

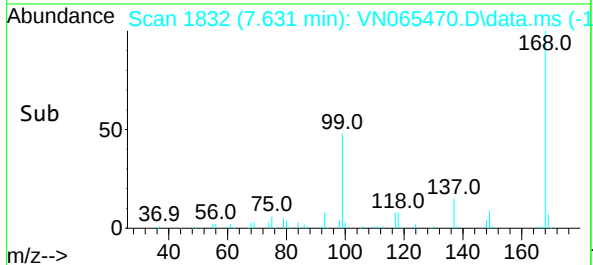
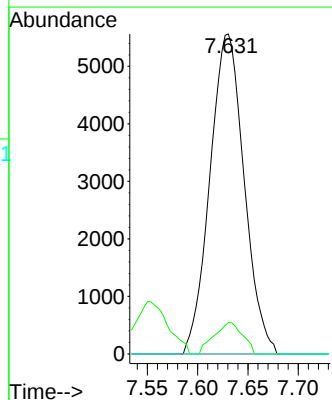
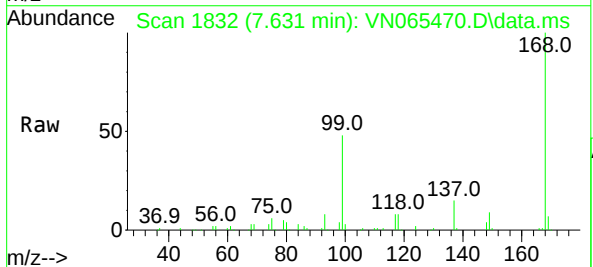
Instrument :  
MSVOA\_N  
ClientSampleId :

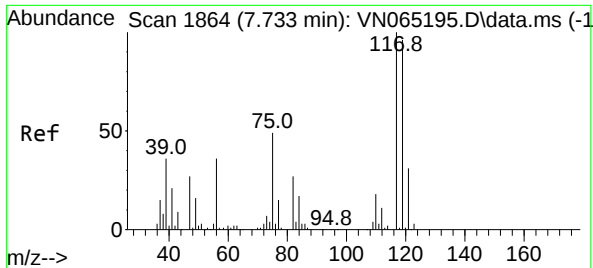
Tgt Ion:113 Resp: 109529  
Ion Ratio Lower Upper  
113 100  
111 102.9 81.6 122.4  
192 24.0 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 4.00 ug/l  
RT: 7.631 min Scan# 1832  
Delta R.T. -0.122 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

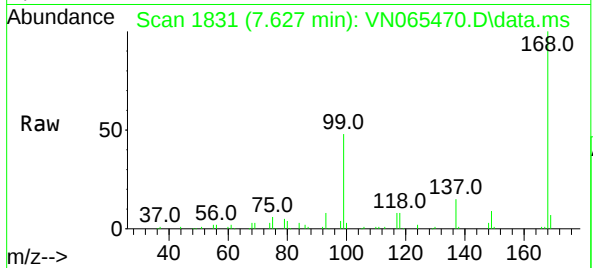
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Ion Ratio Lower Upper  
75 100  
110 8.2 17.8 53.3#  
77 0.0 25.0 37.4#



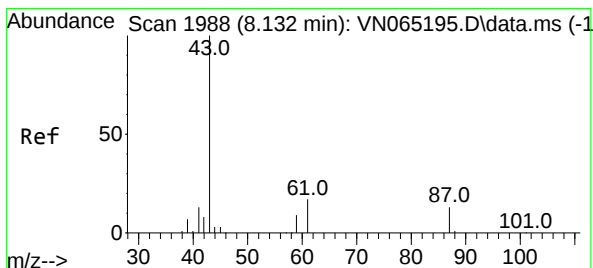
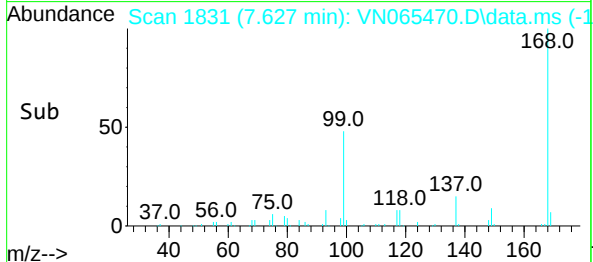
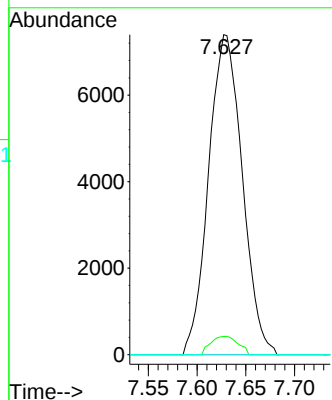


#38  
Carbon Tetrachloride  
Concen: 5.15 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.106 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Instrument :  
MSVOA\_N  
ClientSampleId :

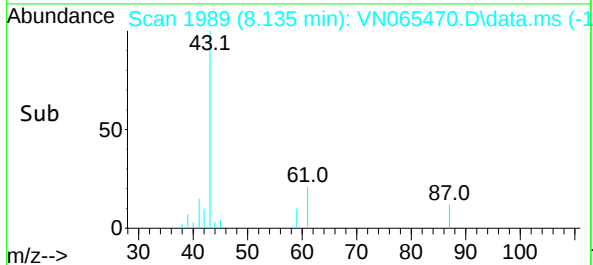
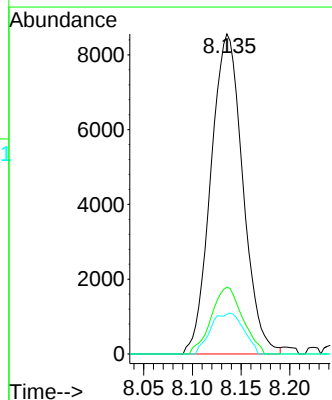
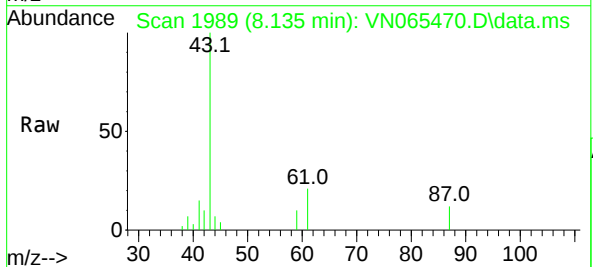


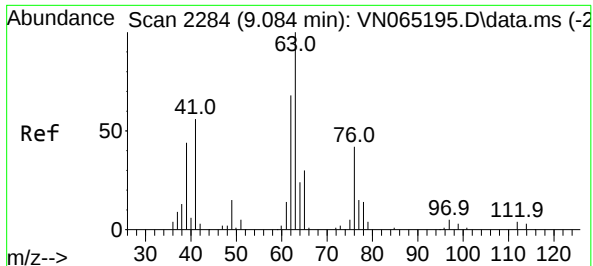
Tgt Ion:117 Resp: 17776  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.7 115.1#  
121 0.0 25.4 38.2#



#43  
Isopropyl Acetate  
Concen: 3.48 ug/l  
RT: 8.135 min Scan# 1989  
Delta R.T. 0.003 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 43 Resp: 19517  
Ion Ratio Lower Upper  
43 100  
61 20.4 17.2 25.8  
87 13.1 11.4 17.0

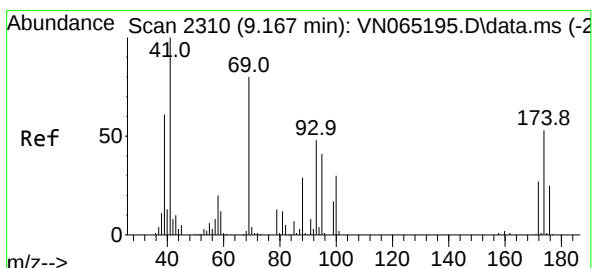
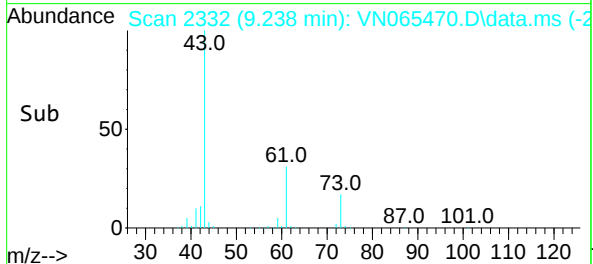
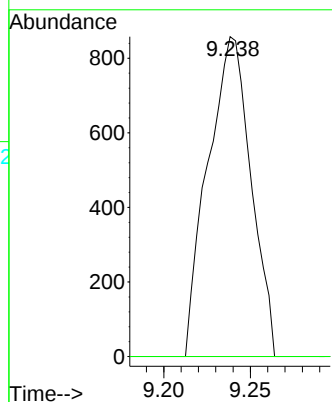
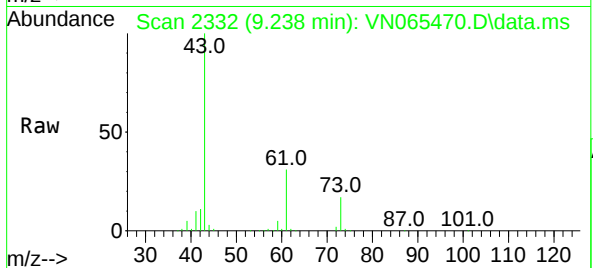




#45  
1,2-Dichloropropane  
Concen: 0.58 ug/l  
RT: 9.238 min Scan# 2332  
Delta R.T. 0.154 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

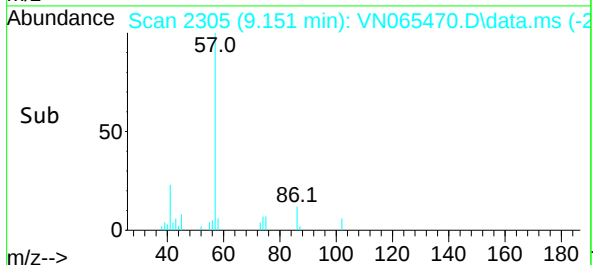
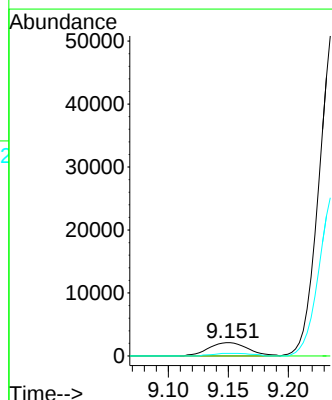
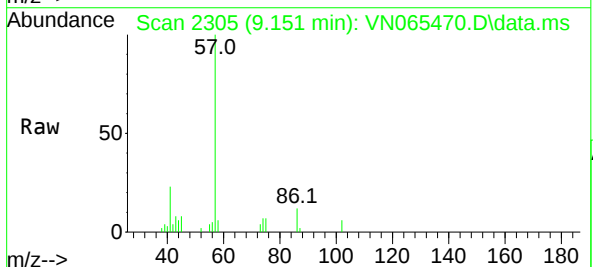
Instrument :  
MSVOA\_N  
ClientSampled :

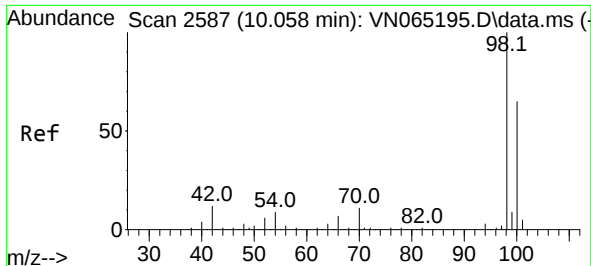
Tgt Ion: 63 Resp: 1485  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.0 37.4#



#48  
Methyl methacrylate  
Concen: 1.77 ug/l  
RT: 9.151 min Scan# 2305  
Delta R.T. -0.016 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 41 Resp: 4822  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.8 107.8#  
39 0.0 44.1 66.1#

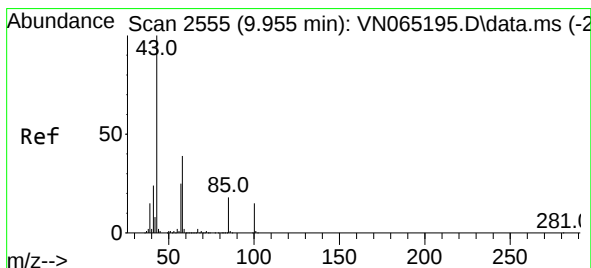
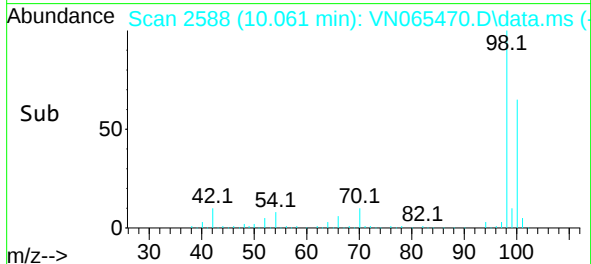
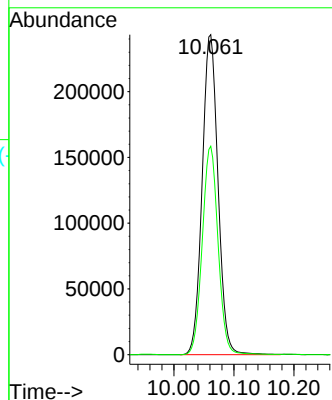
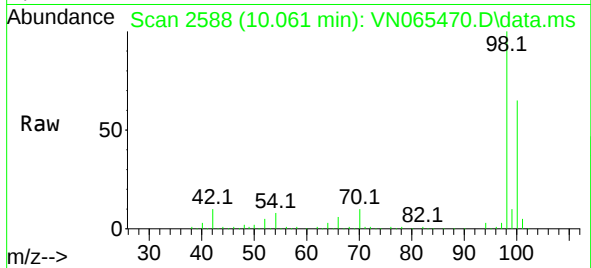




#50  
Toluene-d8  
Concen: 54.85 ug/l  
RT: 10.061 min Scan# 2588  
Delta R.T. 0.003 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

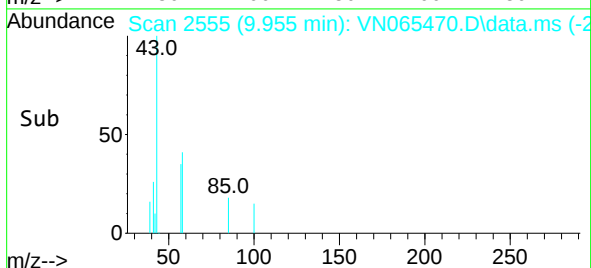
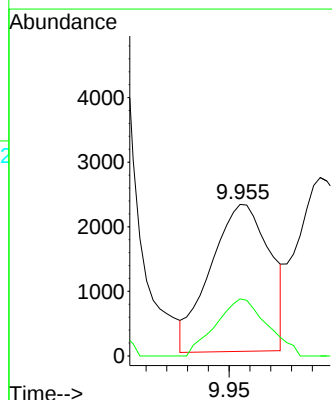
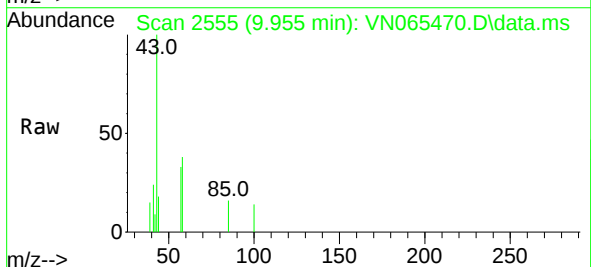
Instrument :  
MSVOA\_N  
ClientSampled :

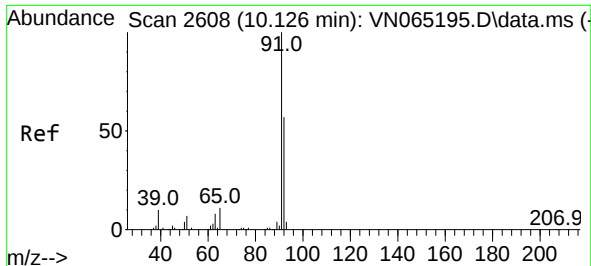
Tgt Ion: 98 Resp: 448271  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 1.43 ug/l  
RT: 9.955 min Scan# 2555  
Delta R.T. 0.000 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 43 Resp: 4515  
Ion Ratio Lower Upper  
43 100  
58 33.6 32.4 48.6

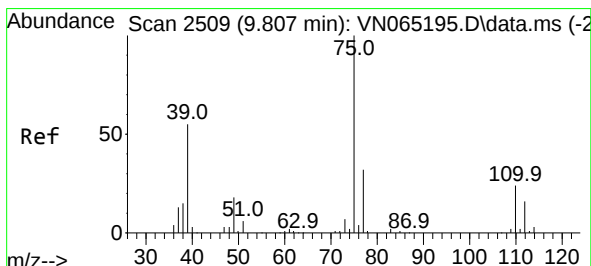
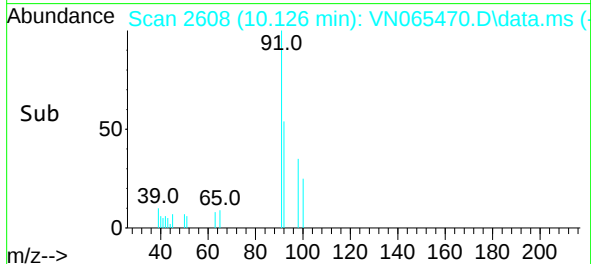
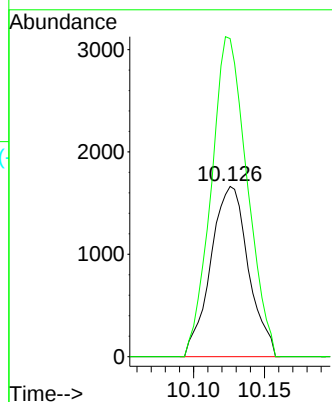
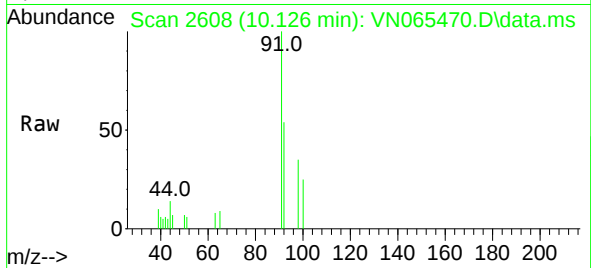




#52  
Toluene  
Concen: 0.50 ug/l  
RT: 10.126 min Scan# 2608  
Delta R.T. -0.000 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

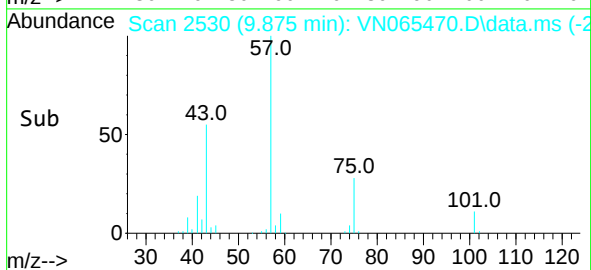
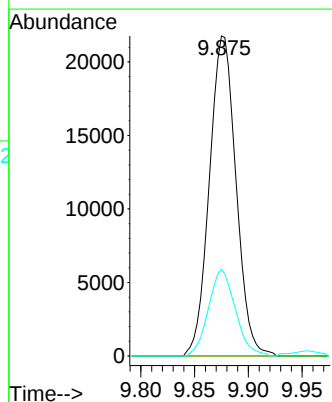
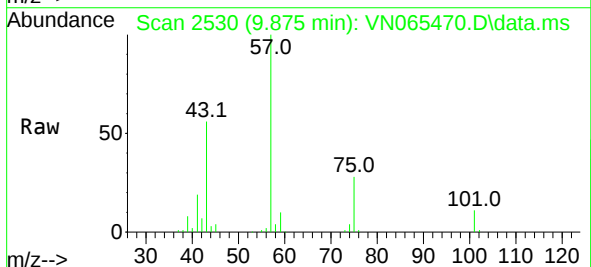
Instrument :  
MSVOA\_N  
ClientSampled :

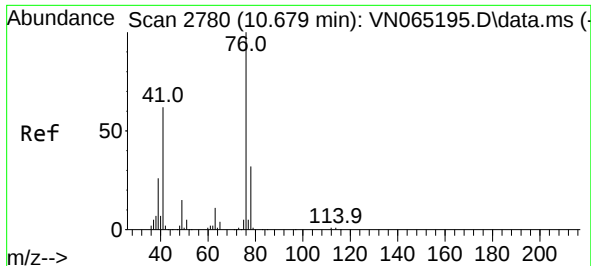
Tgt Ion: 92 Resp: 3075  
Ion Ratio Lower Upper  
92 100  
91 179.0 139.1 208.7



#54  
cis-1,3-Dichloropropene  
Concen: 8.60 ug/l  
RT: 9.875 min Scan# 2530  
Delta R.T. 0.068 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 75 Resp: 37477  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.5 38.3#  
39 27.1 35.6 53.4#

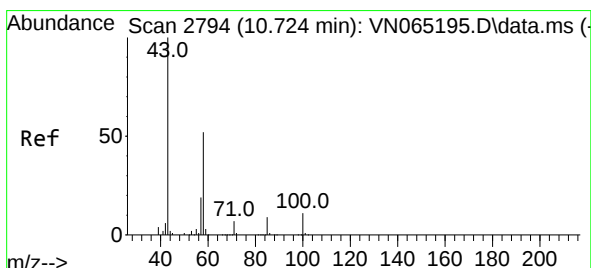
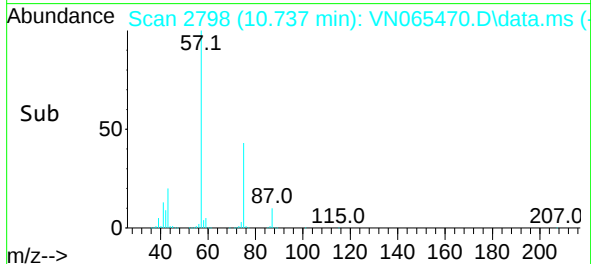
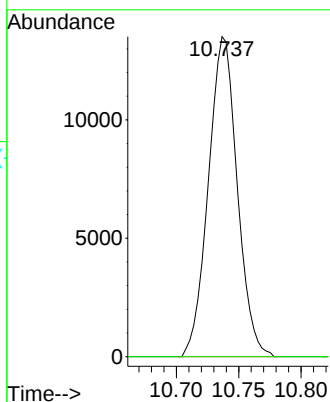
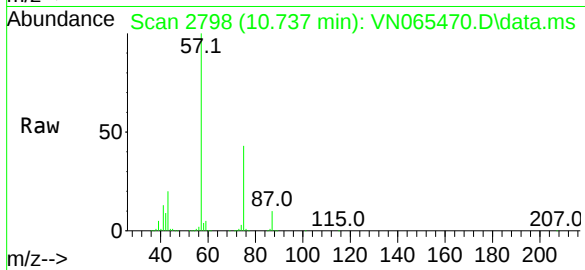




#57  
1,3-Dichloropropane  
Concen: 5.42 ug/l  
RT: 10.737 min Scan# 2798  
Delta R.T. 0.058 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

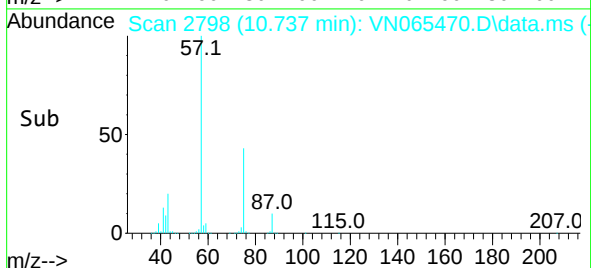
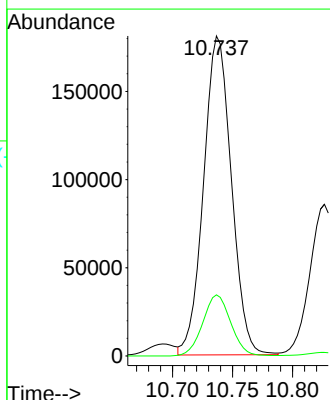
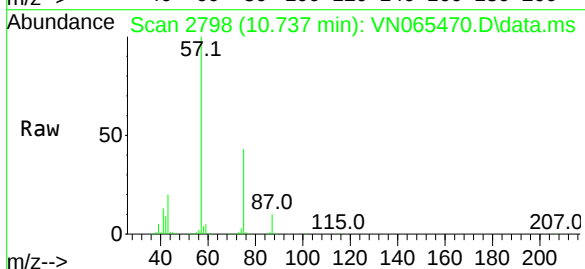
Instrument :  
MSVOA\_N  
ClientSampleId :

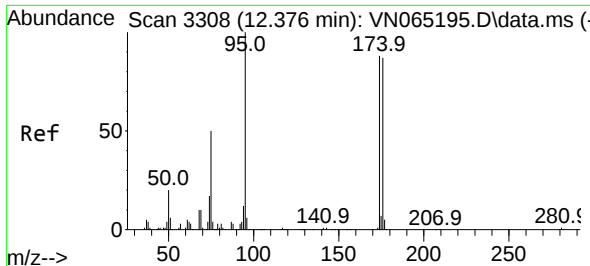
Tgt Ion: 76 Resp: 21801  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#



#59  
2-Hexanone  
Concen: 125.58 ug/l  
RT: 10.737 min Scan# 2798  
Delta R.T. 0.013 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 43 Resp: 291421  
Ion Ratio Lower Upper  
43 100  
58 19.4 28.3 84.9#

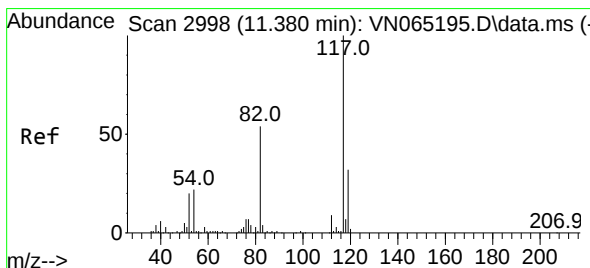
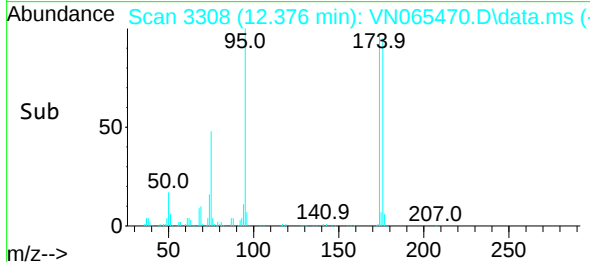
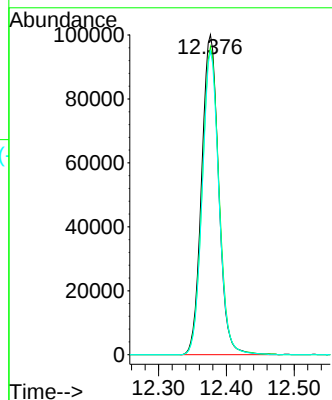
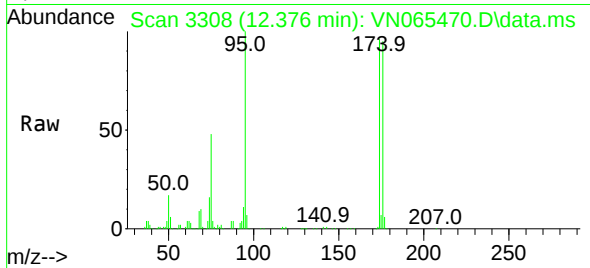




#62  
4-Bromofluorobenzene  
Concen: 53.49 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

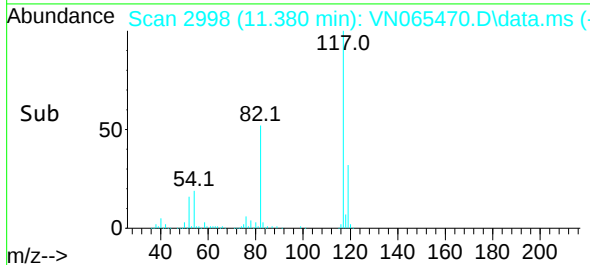
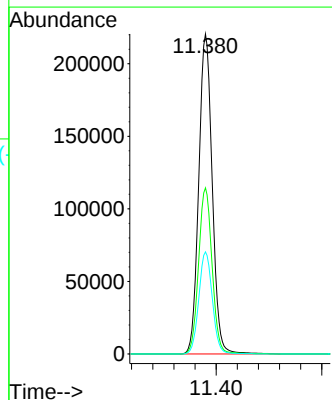
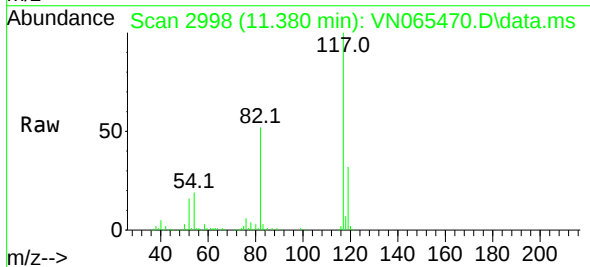
Instrument :  
MSVOA\_N  
ClientSampled :

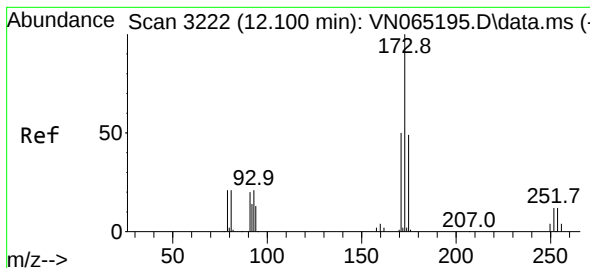
Tgt Ion: 95 Resp: 174191  
Ion Ratio Lower Upper  
95 100  
174 95.6 0.0 160.4  
176 92.8 0.0 158.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. -0.000 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 117 Resp: 389538  
Ion Ratio Lower Upper  
117 100  
82 51.9 44.2 66.2  
119 31.9 25.8 38.6

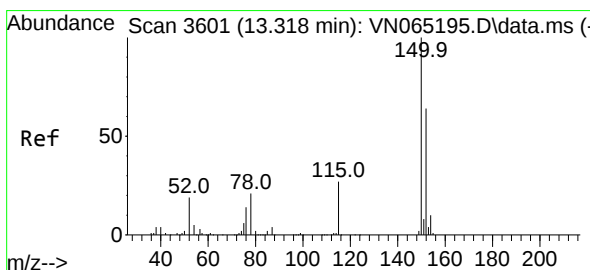
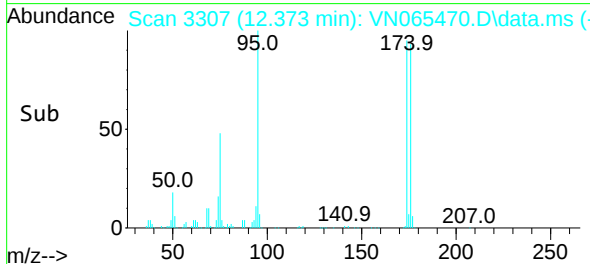
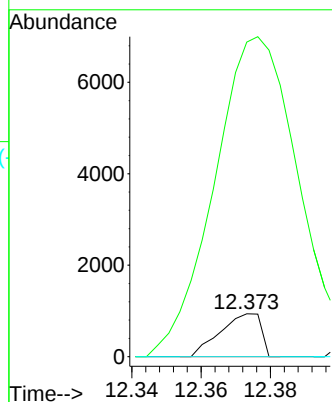
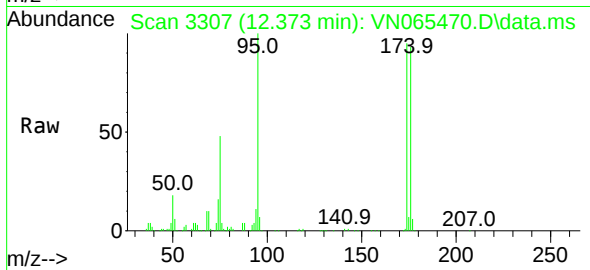




#71  
Bromoform  
Concen: 0.29 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.273 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

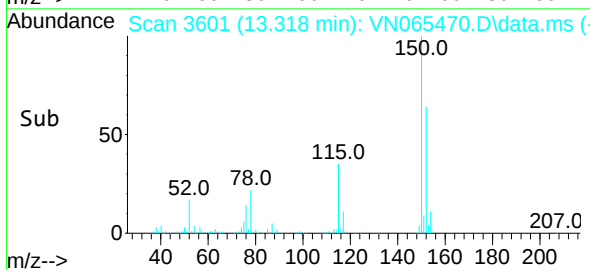
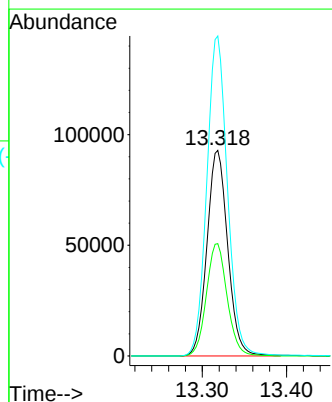
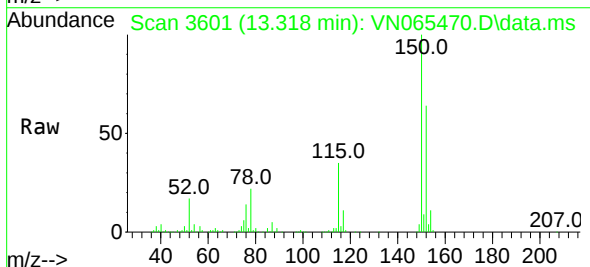
Instrument :  
MSVOA\_N  
ClientSampleId :

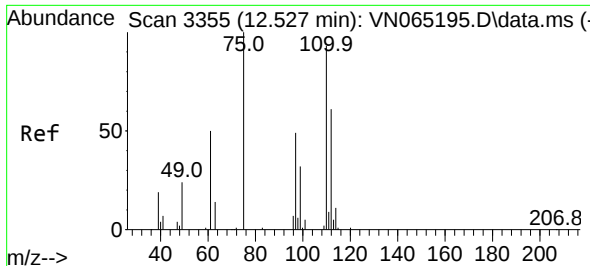
Tgt Ion:173 Resp: 769  
Ion Ratio Lower Upper  
173 100  
175 1307.5 24.3 72.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion:152 Resp: 159188  
Ion Ratio Lower Upper  
152 100  
115 54.5 29.7 89.1  
150 155.2 0.0 350.6

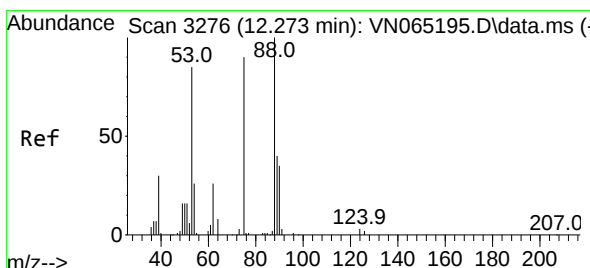
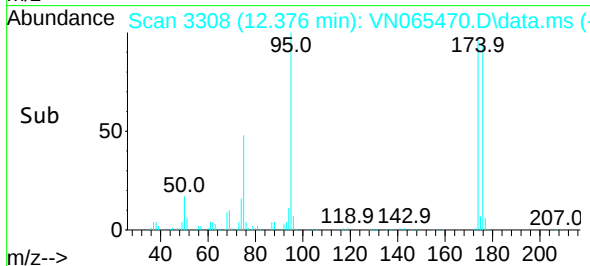
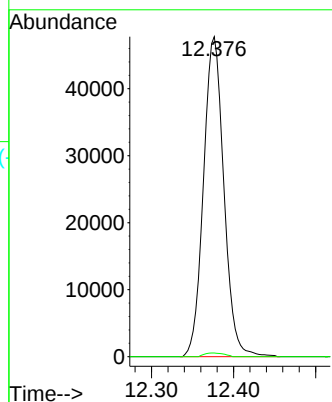
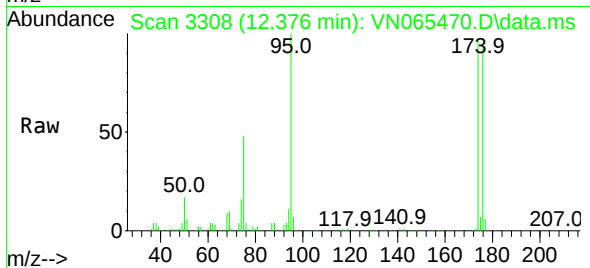




#76  
1,2,3-Trichloropropane  
Concen: 25.40 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. -0.151 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

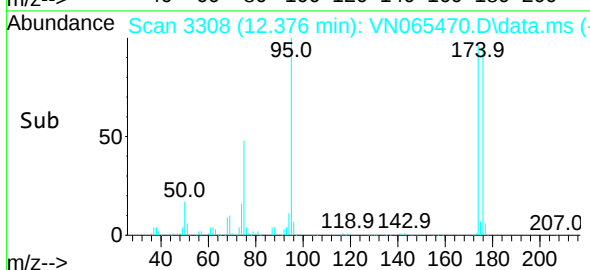
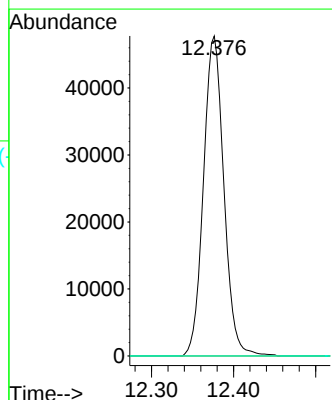
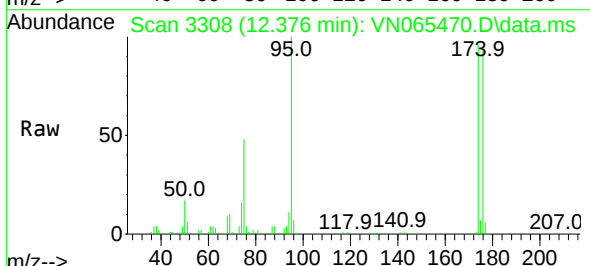
Instrument :  
MSVOA\_N  
ClientSampleId :

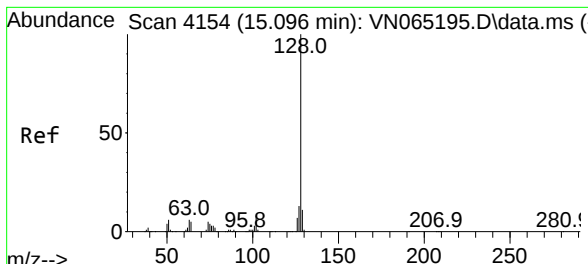
Tgt Ion: 75 Resp: 82482  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.04 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.103 min  
Lab File: VN065470.D  
Acq: 11 Jan 2021 16:05

Tgt Ion: 75 Resp: 82482  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.0 100.4#  
89 0.0 39.6 59.4#





#95  
 Naphthalene  
 Concen: 3.42 ug/l  
 RT: 15.106 min Scan# 4157  
 Delta R.T. 0.010 min  
 Lab File: VN065470.D  
 Acq: 11 Jan 2021 16:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 405         |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 0.0   | 10.3 15.5#  |
| 129         | 0.0   | 8.7 13.1#   |

