

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010621\  
 Data File : VN065407.D  
 Acq On : 6 Jan 2021 18:07  
 Operator : JC/MD  
 Sample : M1022-09 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 30734

Quant Time: Jan 07 01:30:01 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

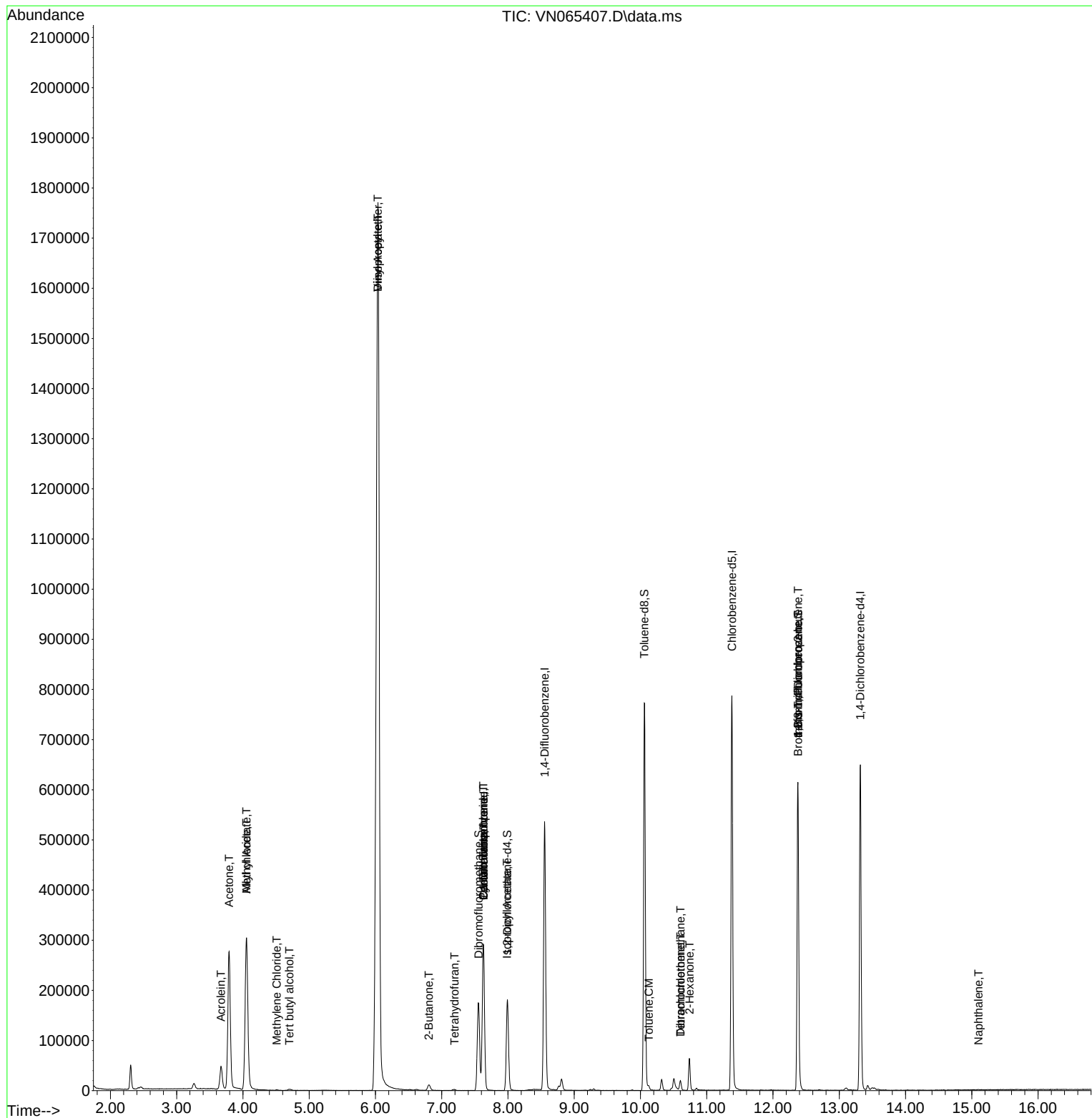
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 7.630          | 168  | 268409             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.553          | 114  | 456538             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.379         | 117  | 484602             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318         | 152  | 197647             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.991          | 65   | 153891             | 50.79  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 101.58% |        |        |          |
| 35) Dibromofluoromethane      | 7.556          | 113  | 135382             | 49.15  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 98.30%  |        |        |          |
| 50) Toluene-d8                | 10.058         | 98   | 560083             | 54.26  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 108.52% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.376         | 95   | 217271             | 52.89  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 105.78% |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        | Qvalue |          |
| 11) Tert butyl alcohol        | 4.701          | 59   | 1350               | 2.72   | ug/l # | 73       |
| 13) Acrolein                  | 3.669          | 56   | 1145               | 5.79   | ug/l # | 1        |
| 14) Allyl chloride            | 4.055          | 41   | 46081              | 10.60  | ug/l # | 62       |
| 16) Acetone                   | 3.791          | 43   | 452813             | 360.88 | ug/l   | 95       |
| 18) Methyl Acetate            | 4.052          | 43   | 119818             | 44.04  | ug/l # | 50       |
| 20) Methylene Chloride        | 4.512          | 84   | 773                | 0.26   | ug/l # | 79       |
| 22) Diisopropyl ether         | 6.036          | 45   | 152569             | 17.64  | ug/l # | 1        |
| 23) Vinyl Acetate             | 6.036          | 43   | 350015             | 48.01  | ug/l # | 71       |
| 25) 2-Butanone                | 6.804          | 43   | 4359               | 2.56   | ug/l   | 95       |
| 29) Tetrahydrofuran           | 7.193          | 42   | 516                | 0.47   | ug/l # | 32       |
| 31) Cyclohexane               | 7.630          | 56   | 4188               | 0.94   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.627          | 75   | 17022              | 4.10   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 22613              | 5.19   | ug/l # | 16       |
| 43) Isopropyl Acetate         | 7.987          | 43   | 4025               | 0.57   | ug/l # | 22       |
| 52) Toluene                   | 10.126         | 92   | 2409               | 0.31   | ug/l   | 90       |
| 59) 2-Hexanone                | 10.740         | 43   | 10055              | 3.43   | ug/l # | 50       |
| 60) Dibromochloromethane      | 10.605         | 129  | 4102               | 1.12   | ug/l # | 10       |
| 64) Tetrachloroethene         | 10.605         | 164  | 4558               | 0.97   | ug/l   | 95       |
| 71) Bromoform                 | 12.379         | 173  | 1283               | 0.39   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.376         | 75   | 105457             | 26.15  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376         | 75   | 105457             | 65.95  | ug/l # | 15       |
| 95) Naphthalene               | 15.103         | 128  | 820                | 3.45   | ug/l # | 69       |
| -----                         |                |      |                    |        |        |          |

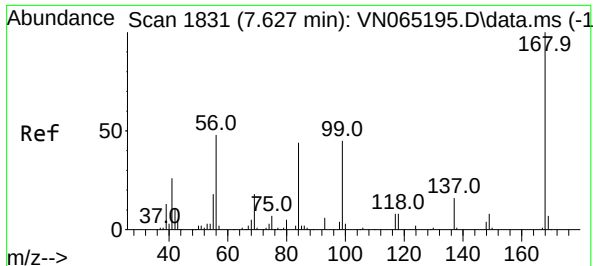
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010621\  
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Sample : M1022-09 50X  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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30734

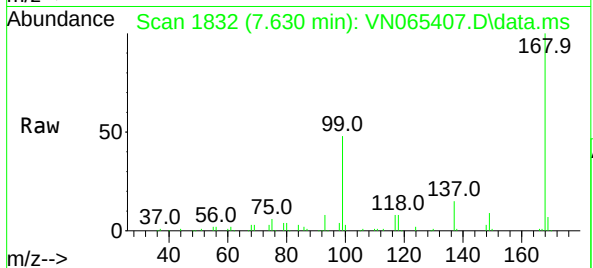
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 22 15:42:18 2020  
Response via : Initial Calibration



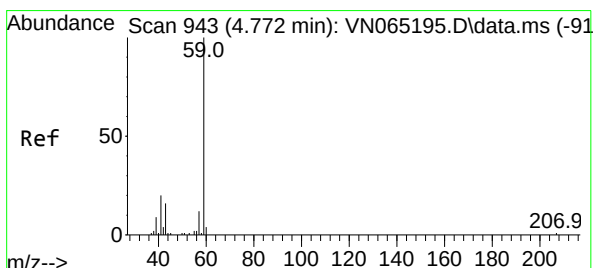
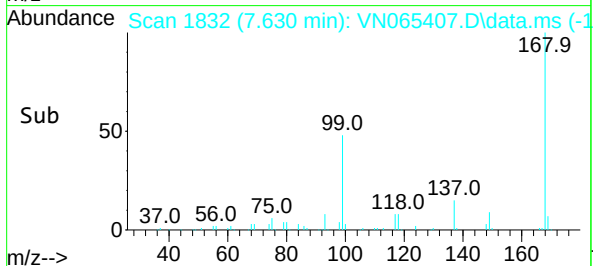
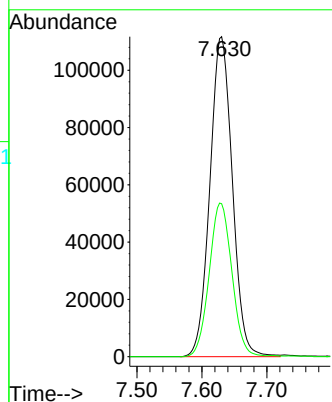


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.630 min Scan# 1832  
Delta R.T. 0.003 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
30734

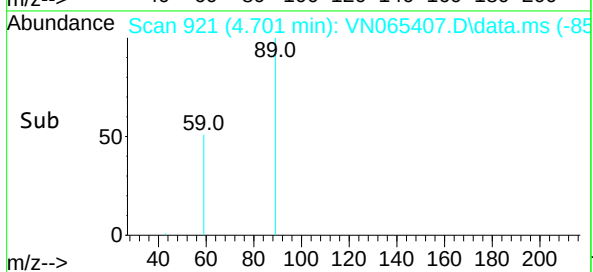
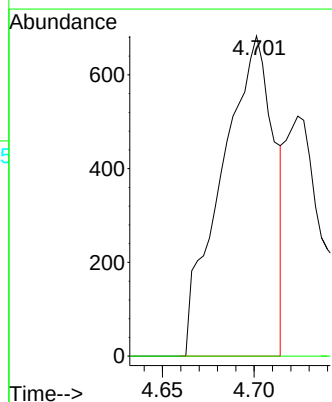
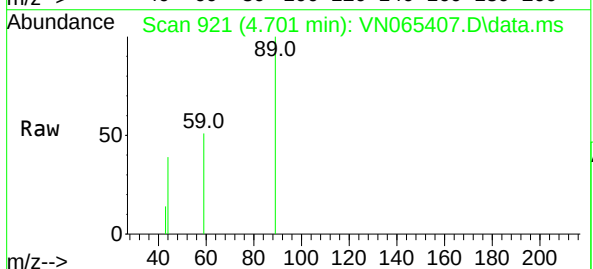


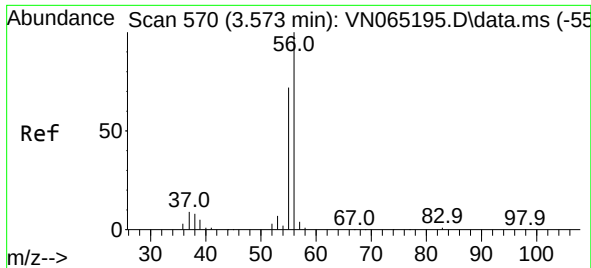
Tgt Ion:168 Resp: 268409  
Ion Ratio Lower Upper  
168 100  
99 47.8 43.0 64.4



#11  
Tert butyl alcohol  
Concen: 2.72 ug/l  
RT: 4.701 min Scan# 921  
Delta R.T. -0.071 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 59 Resp: 1350  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

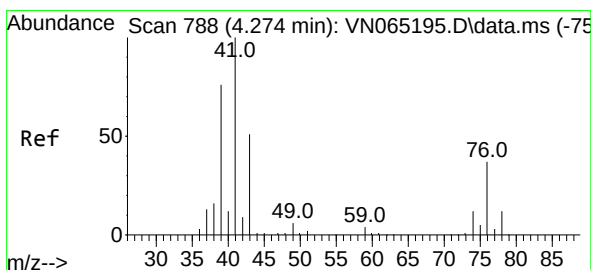
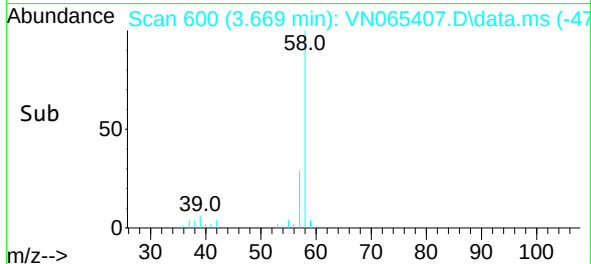
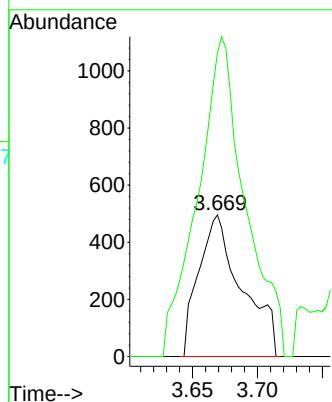
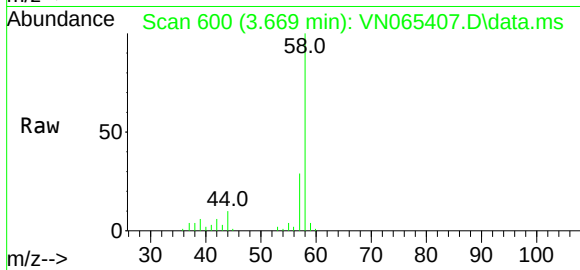




#13  
Acrolein  
Concen: 5.79 ug/l  
RT: 3.669 min Scan# 600  
Delta R.T. 0.096 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

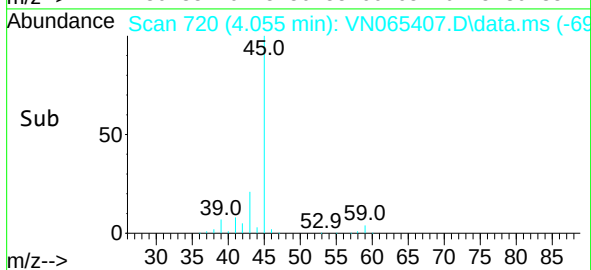
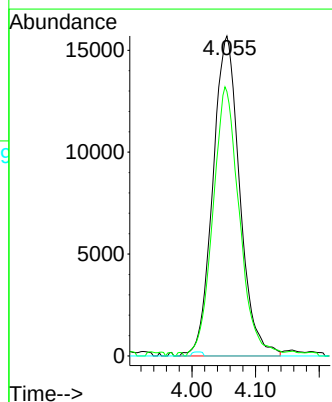
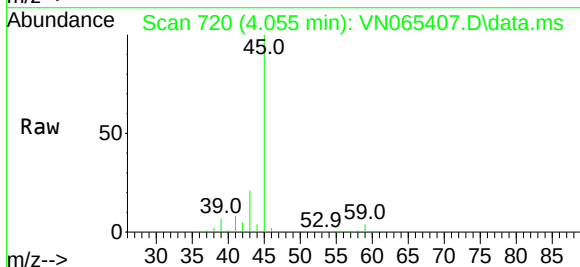
Instrument :  
MSVOA\_N  
ClientSampled :  
30734

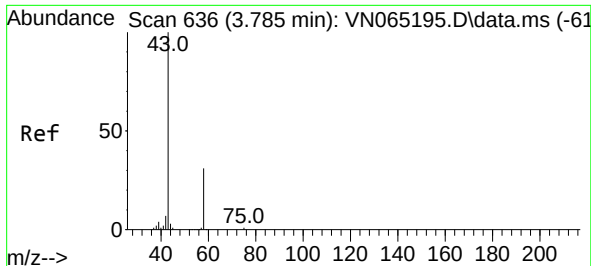
Tgt Ion: 56 Resp: 1145  
Ion Ratio Lower Upper  
56 100  
55 247.6 56.5 84.7#



#14  
Allyl chloride  
Concen: 10.60 ug/l  
RT: 4.055 min Scan# 720  
Delta R.T. -0.219 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 41 Resp: 46081  
Ion Ratio Lower Upper  
41 100  
39 83.0 50.9 76.3#  
76 0.0 29.0 43.4#

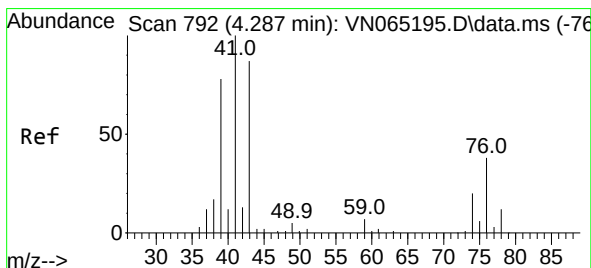
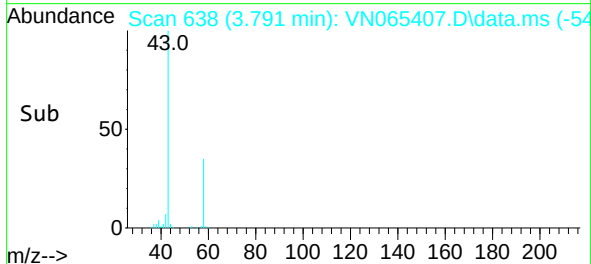
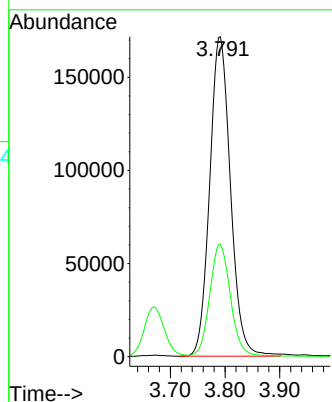
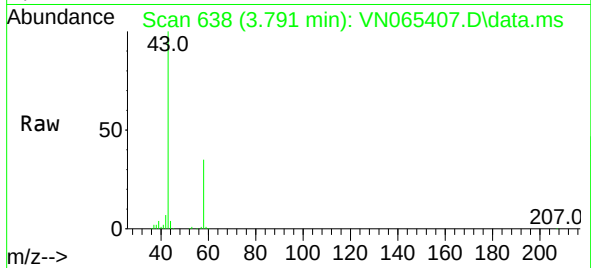




#16  
Acetone  
Concen: 360.88 ug/l  
RT: 3.791 min Scan# 638  
Delta R.T. 0.006 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

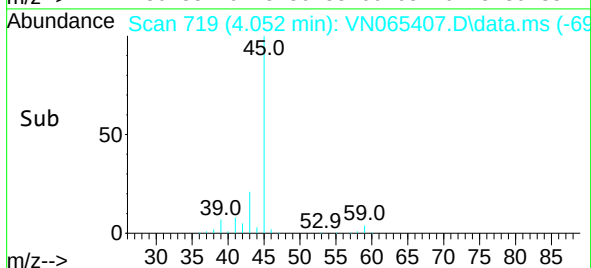
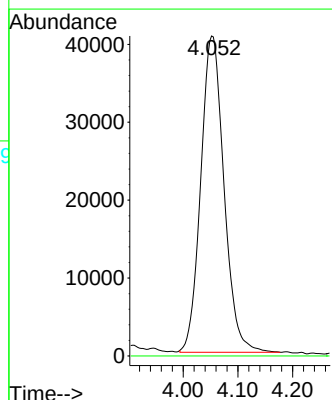
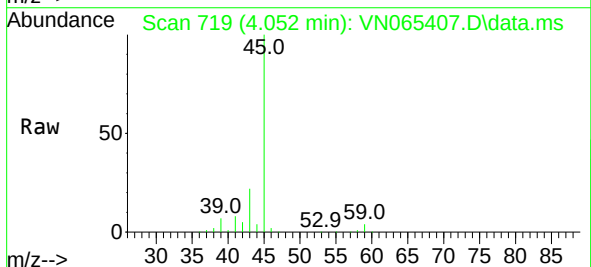
Instrument :  
MSVOA\_N  
ClientSampled :  
30734

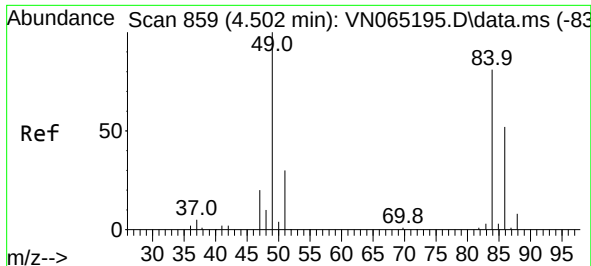
Tgt Ion: 43 Resp: 452813  
Ion Ratio Lower Upper  
43 100  
58 34.8 25.7 38.5



#18  
Methyl Acetate  
Concen: 44.04 ug/l  
RT: 4.052 min Scan# 719  
Delta R.T. -0.235 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 43 Resp: 119818  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.2#



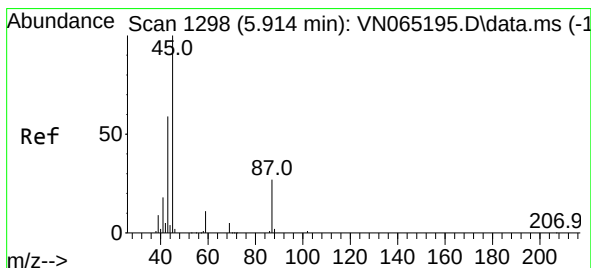
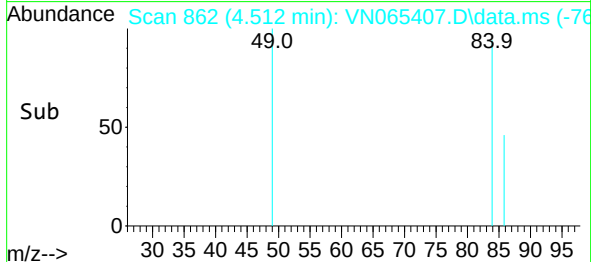
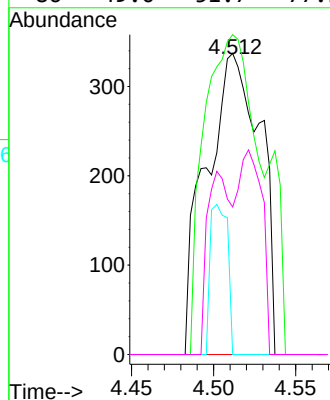
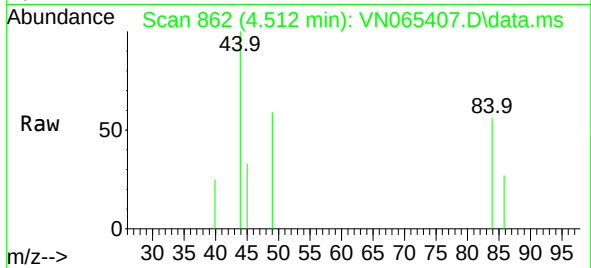


#20  
Methylene Chloride  
Concen: 0.26 ug/l  
RT: 4.512 min Scan# 862  
Delta R.T. 0.010 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Instrument :  
MSVOA\_N  
ClientSampled :  
30734

Tgt Ion: 84 Resp: 773

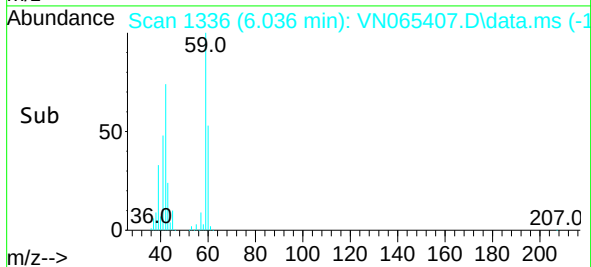
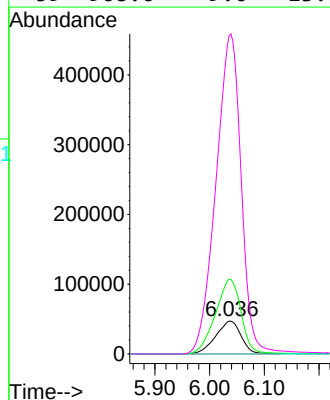
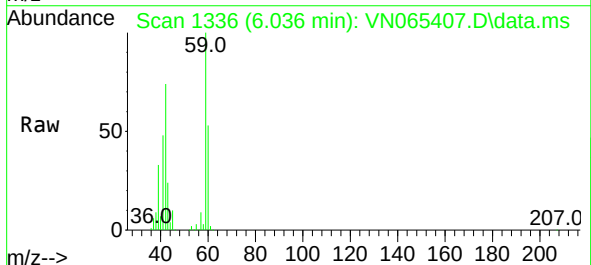
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 106.2 | 93.4  | 140.0 |
| 51  | 0.0   | 28.2  | 42.4# |
| 86  | 49.0  | 51.7  | 77.5# |

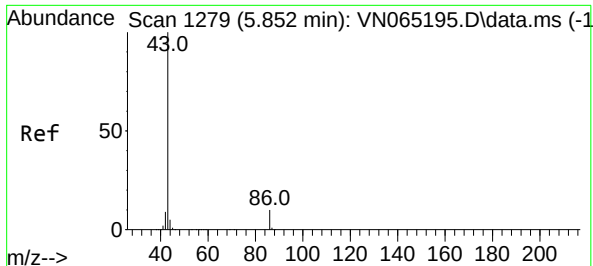


#22  
Diisopropyl ether  
Concen: 17.64 ug/l  
RT: 6.036 min Scan# 1336  
Delta R.T. 0.122 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 45 Resp: 152569

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 228.1 | 46.2  | 69.2# |
| 87  | 0.0   | 24.1  | 36.1# |
| 59  | 968.6 | 9.0   | 13.4# |

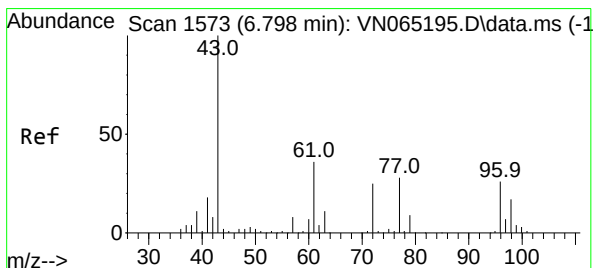
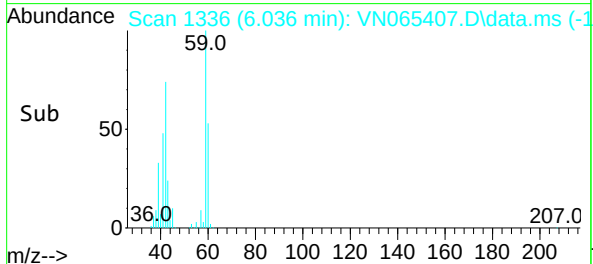
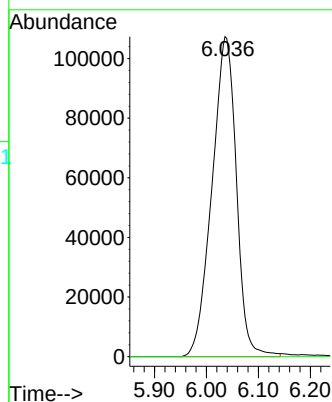
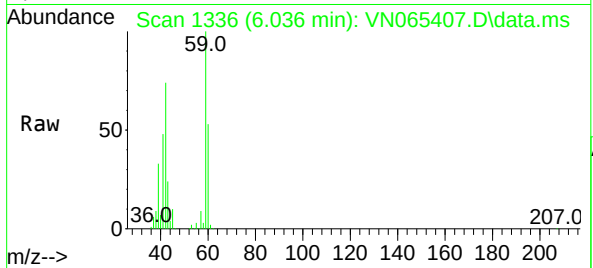




#23  
 Vinyl Acetate  
 Concen: 48.01 ug/l  
 RT: 6.036 min Scan# 1336  
 Delta R.T. 0.184 min  
 Lab File: VN065407.D  
 Acq: 6 Jan 2021 18:07

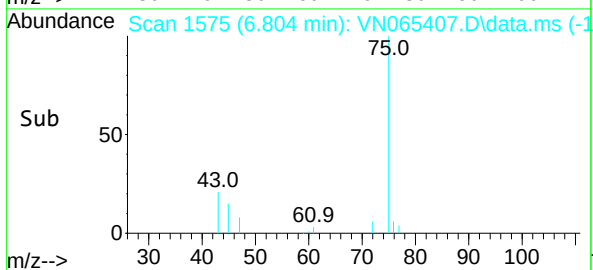
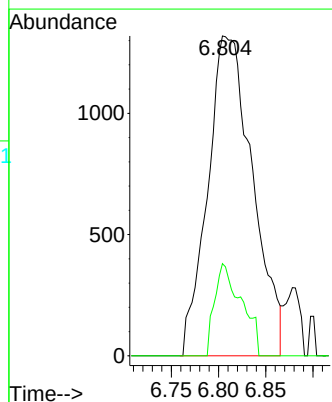
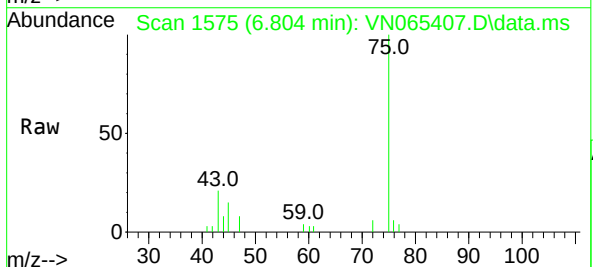
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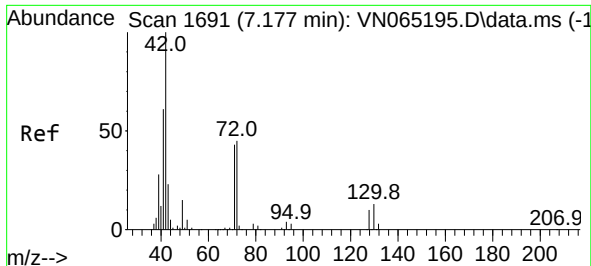
Tgt Ion: 43 Resp: 350015  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.9 13.3#



#25  
 2-Butanone  
 Concen: 2.56 ug/l  
 RT: 6.804 min Scan# 1575  
 Delta R.T. 0.006 min  
 Lab File: VN065407.D  
 Acq: 6 Jan 2021 18:07

Tgt Ion: 43 Resp: 4359  
 Ion Ratio Lower Upper  
 43 100  
 72 28.8 21.0 31.6





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 7.193 min Scan# 1696

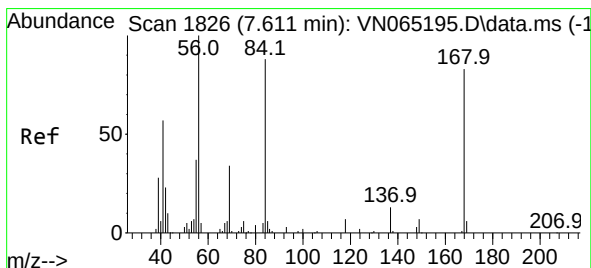
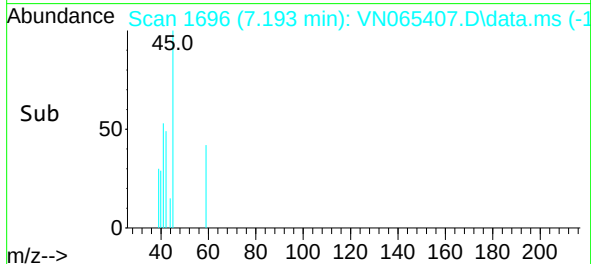
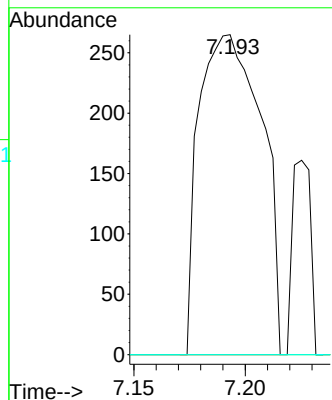
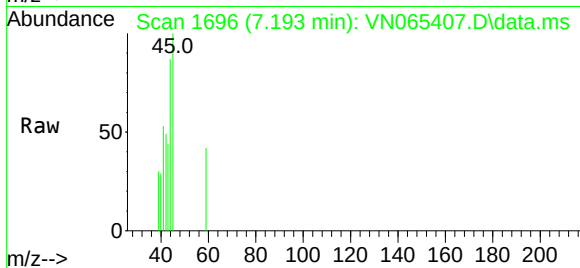
Delta R.T. 0.016 min

Lab File: VN065407.D

Acq: 6 Jan 2021 18:07

Instrument :  
MSVOA\_N  
ClientSampled :  
30734

|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 516      |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 0.0 36.6 54.8# |
| 71          | 0.0 33.6 50.4# |



#31

Cyclohexane

Concen: 0.94 ug/l

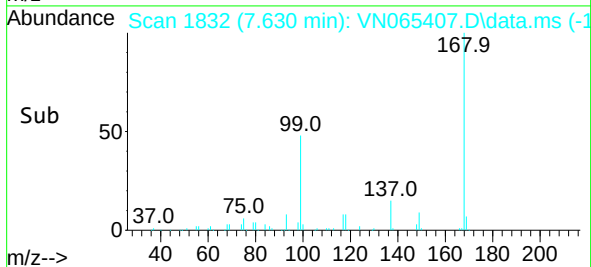
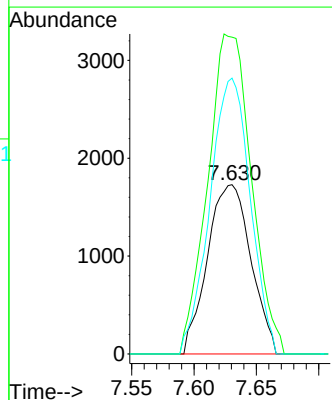
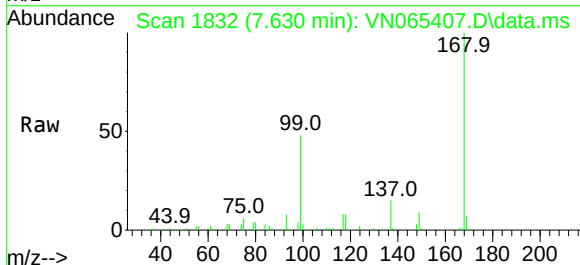
RT: 7.630 min Scan# 1832

Delta R.T. 0.019 min

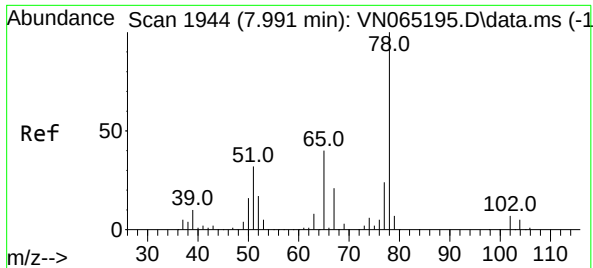
Lab File: VN065407.D

Acq: 6 Jan 2021 18:07

|             |                   |
|-------------|-------------------|
| Tgt Ion: 56 | Resp: 4188        |
| Ion Ratio   | Lower Upper       |
| 56          | 100               |
| 69          | 187.2 27.5 41.3#  |
| 84          | 162.9 73.9 110.9# |



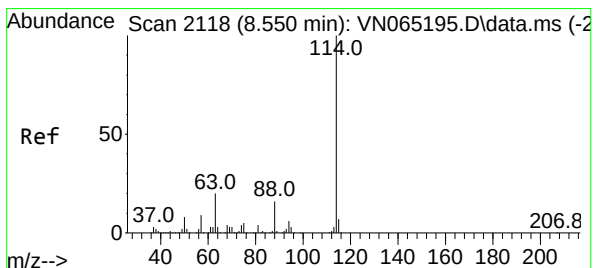
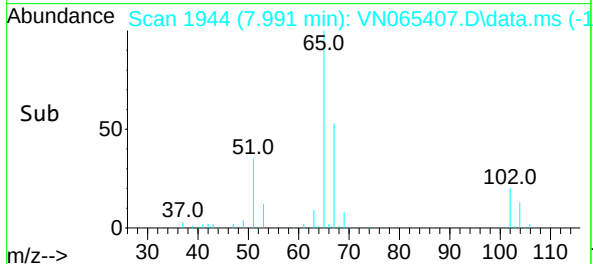
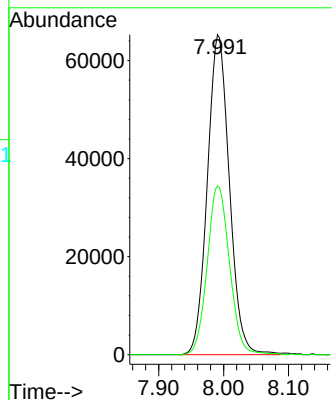
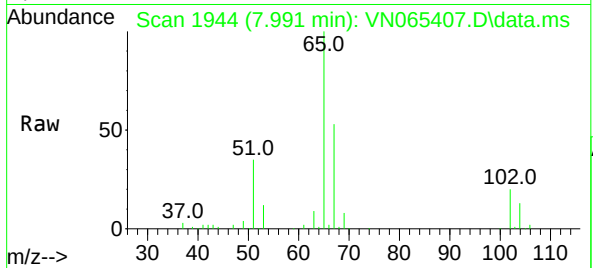




#33  
1,2-Dichloroethane-d4  
Concen: 50.79 ug/l  
RT: 7.991 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

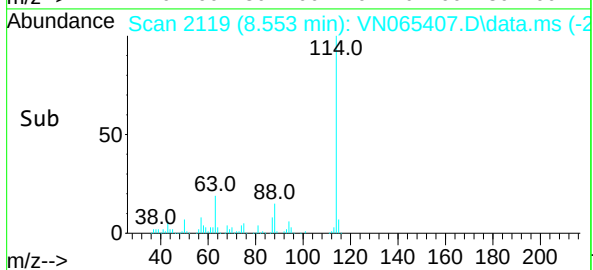
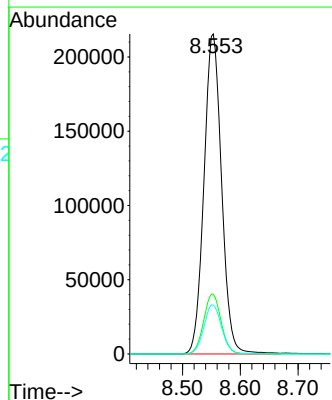
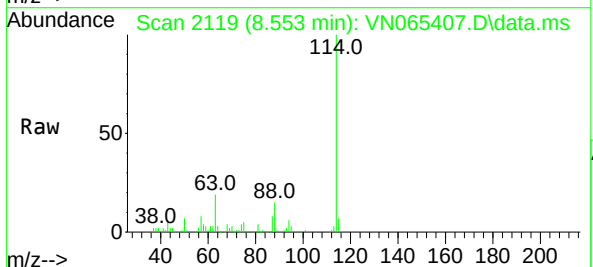
Instrument :  
MSVOA\_N  
ClientSampleId :  
30734

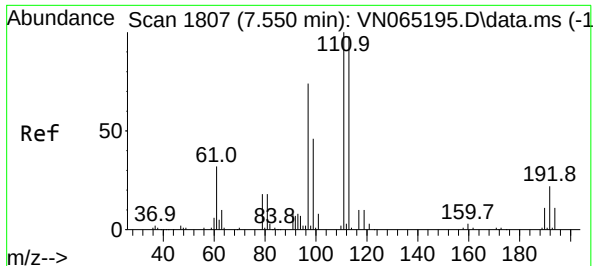
Tgt Ion: 65 Resp: 153891  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 108.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.553 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

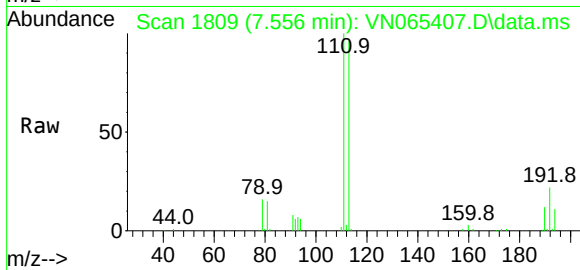
Tgt Ion: 114 Resp: 456538  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 38.6  
88 15.2 0.0 32.6



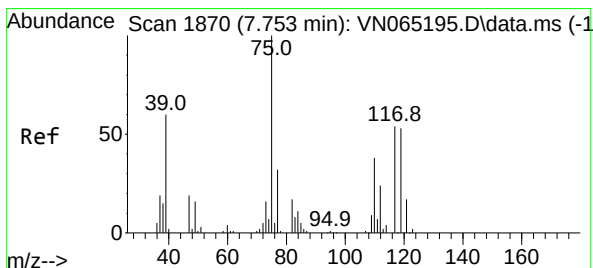
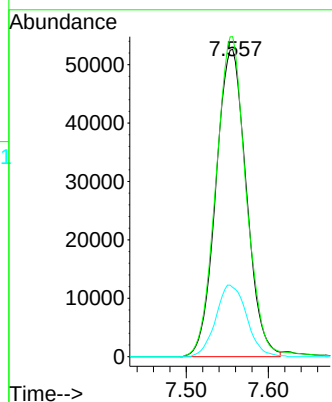
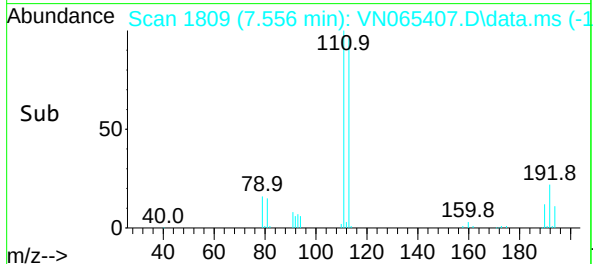


#35  
Dibromofluoromethane  
Concen: 49.15 ug/l  
RT: 7.556 min Scan# 1809  
Delta R.T. 0.006 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

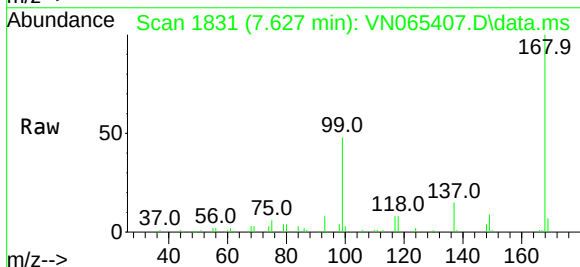
Instrument :  
MSVOA\_N  
ClientSampled :  
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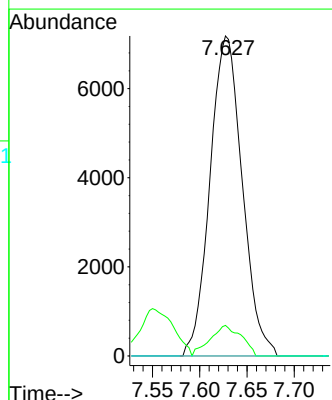
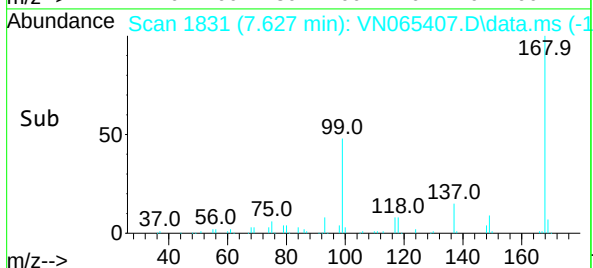
Tgt Ion:113 Resp: 135382  
Ion Ratio Lower Upper  
113 100  
111 104.0 81.6 122.4  
192 23.7 16.2 24.2

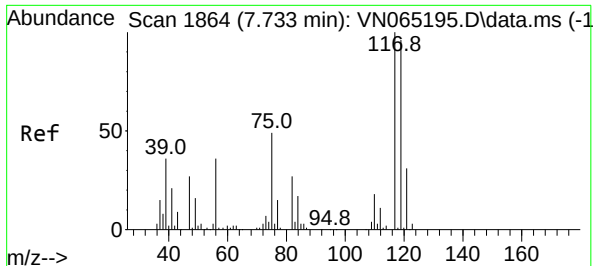


#36  
1,1-Dichloropropene  
Concen: 4.10 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.126 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07



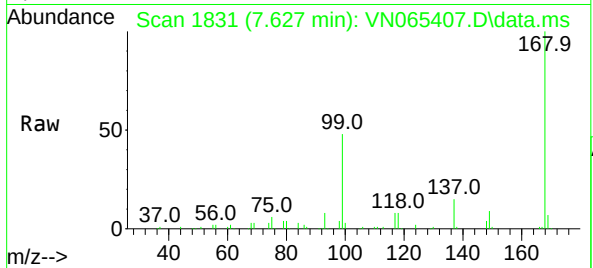
Tgt Ion: 75 Resp: 17022  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.8 53.3#  
77 0.0 25.0 37.4#



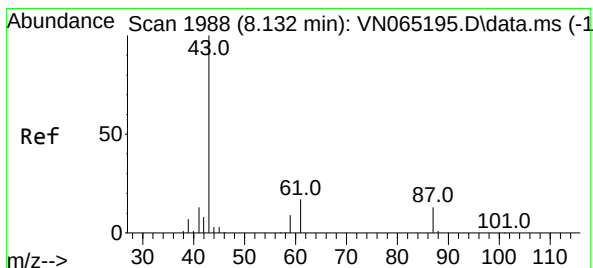
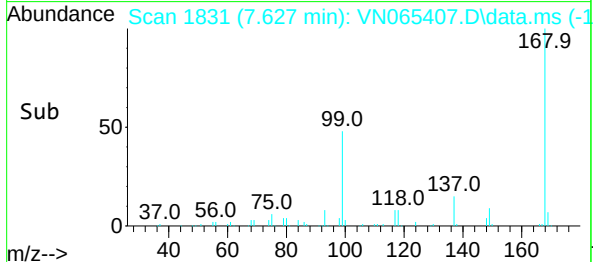
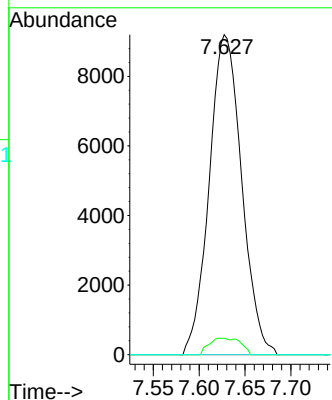


#38  
Carbon Tetrachloride  
Concen: 5.19 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.106 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Instrument :  
MSVOA\_N  
ClientSampled :  
30734

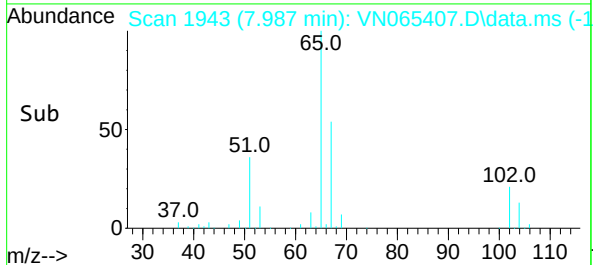
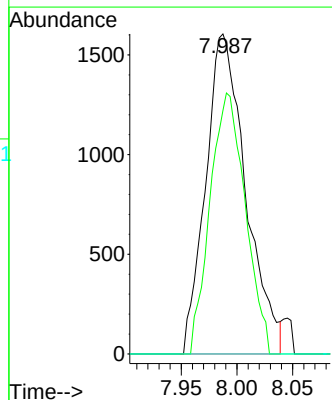
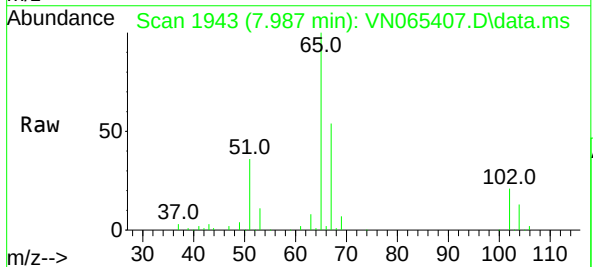


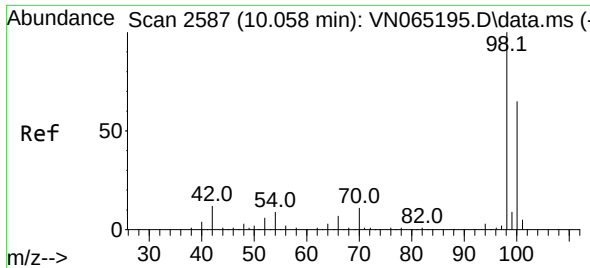
Tgt Ion:117 Resp: 22613  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.7 115.1#  
121 0.0 25.4 38.2#



#43  
Isopropyl Acetate  
Concen: 0.57 ug/l  
RT: 7.987 min Scan# 1943  
Delta R.T. -0.145 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 43 Resp: 4025  
Ion Ratio Lower Upper  
43 100  
61 71.5 17.2 25.8#  
87 0.0 11.4 17.0#

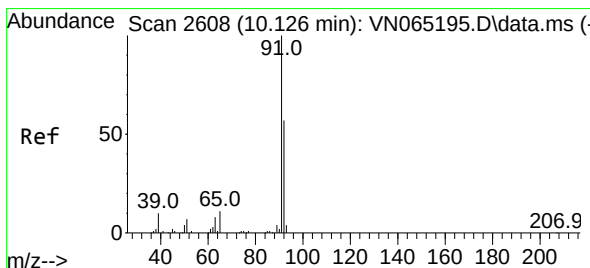
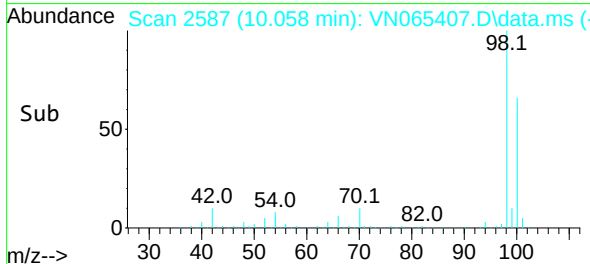
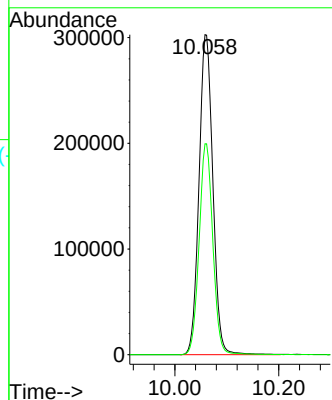
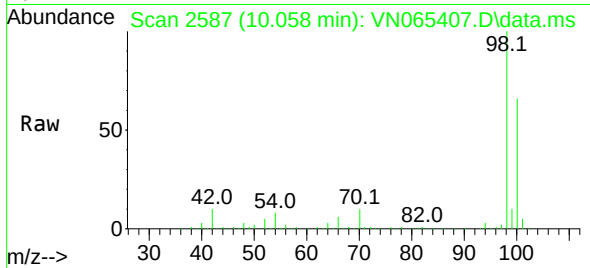




#50  
Toluene-d8  
Concen: 54.26 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

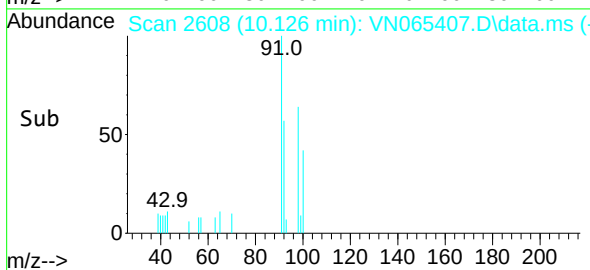
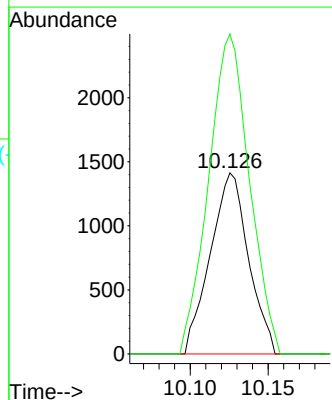
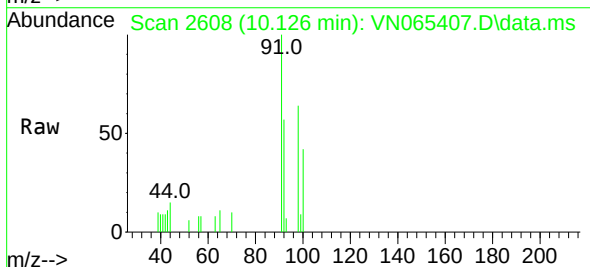
Instrument :  
MSVOA\_N  
ClientSampleId :  
30734

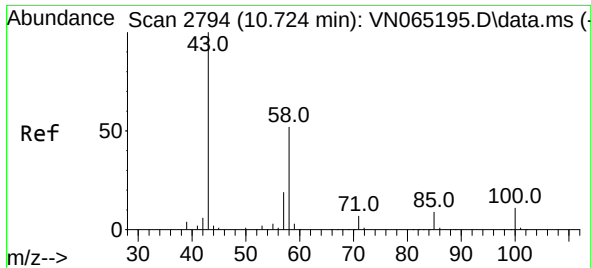
Tgt Ion: 98 Resp: 560083  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.7 77.5



#52  
Toluene  
Concen: 0.31 ug/l  
RT: 10.126 min Scan# 2608  
Delta R.T. -0.000 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 92 Resp: 2409  
Ion Ratio Lower Upper  
92 100  
91 188.2 139.1 208.7

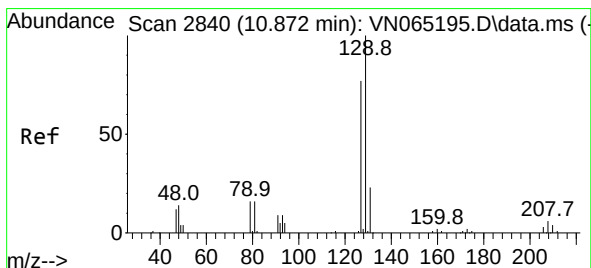
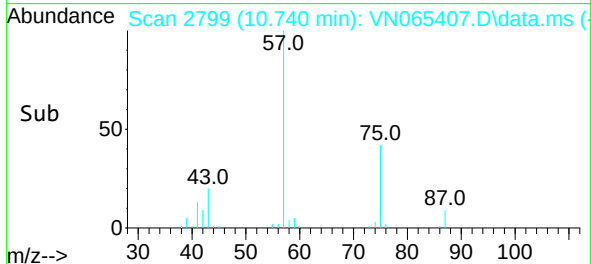
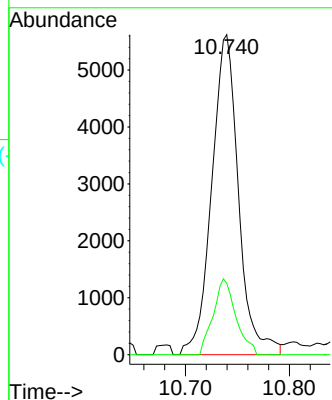
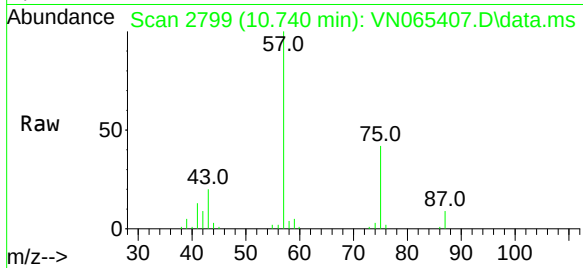




#59  
2-Hexanone  
Concen: 3.43 ug/l  
RT: 10.740 min Scan# 2799  
Delta R.T. 0.016 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

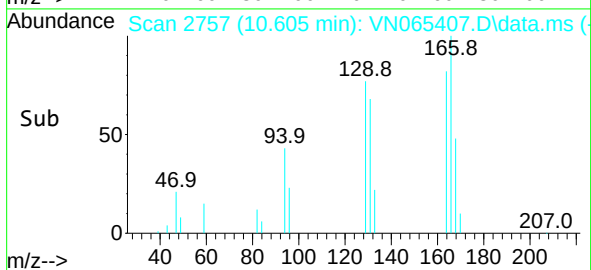
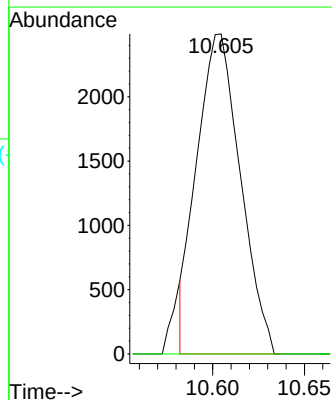
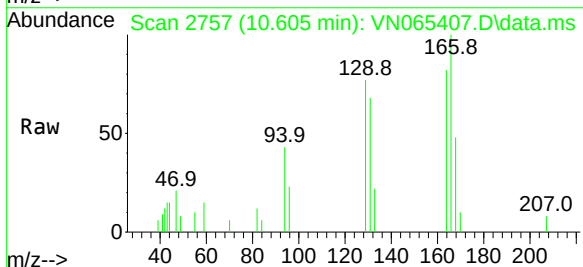
Instrument :  
MSVOA\_N  
ClientSampled :  
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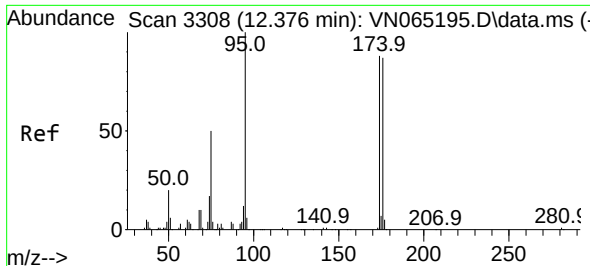
Tgt Ion: 43 Resp: 10055  
Ion Ratio Lower Upper  
43 100  
58 20.0 28.3 84.9#



#60  
Dibromochloromethane  
Concen: 1.12 ug/l  
RT: 10.605 min Scan# 2757  
Delta R.T. -0.267 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion:129 Resp: 4102  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.1 117.2#

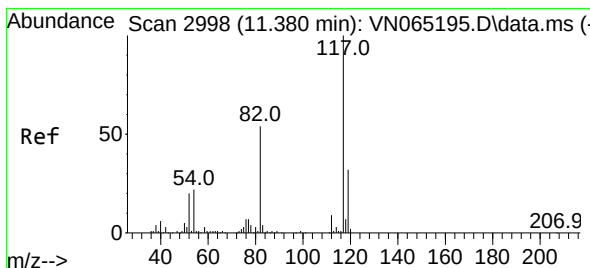
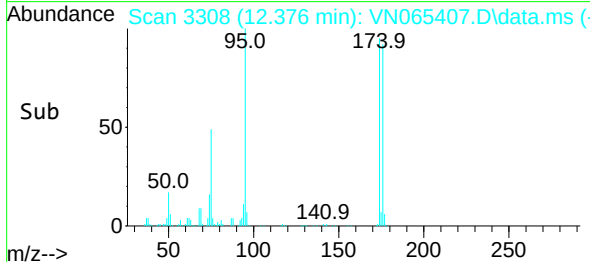
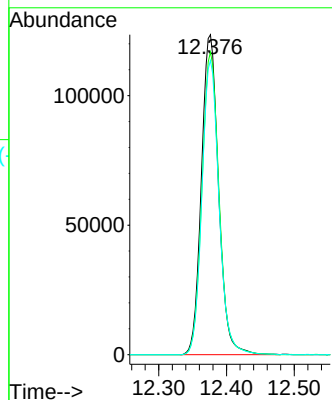
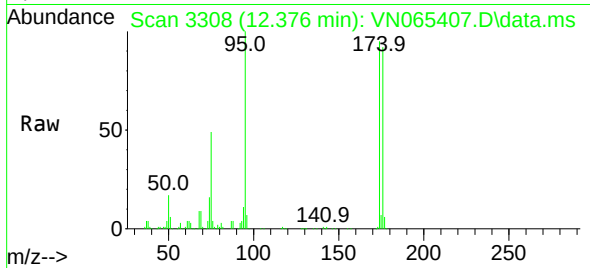




#62  
4-Bromofluorobenzene  
Concen: 52.89 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

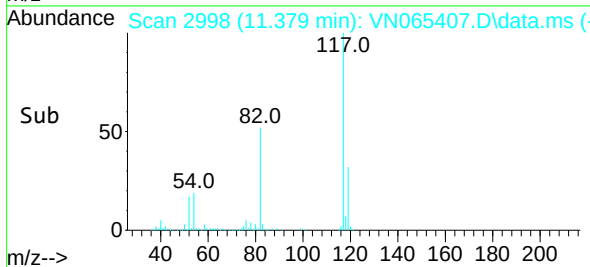
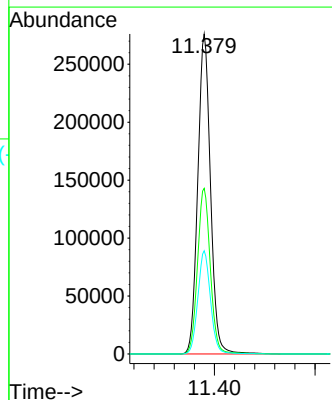
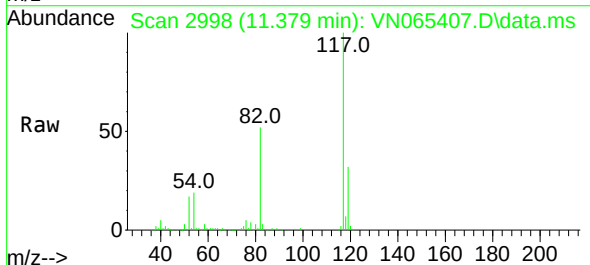
Instrument :  
MSVOA\_N  
ClientSampleId :  
30734

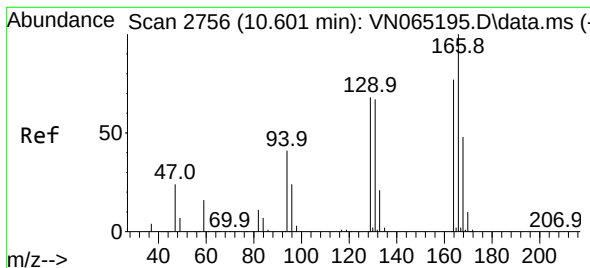
Tgt Ion: 95 Resp: 217271  
Ion Ratio Lower Upper  
95 100  
174 94.4 0.0 160.4  
176 91.4 0.0 158.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. -0.001 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 117 Resp: 484602  
Ion Ratio Lower Upper  
117 100  
82 51.8 44.2 66.2  
119 32.3 25.8 38.6





#64

Tetrachloroethene

Concen: 0.97 ug/l

RT: 10.605 min Scan# 2757

Delta R.T. 0.004 min

Lab File: VN065407.D

Acq: 6 Jan 2021 18:07

Tgt Ion:164 Resp: 4558

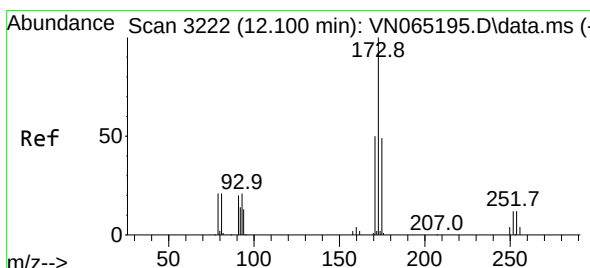
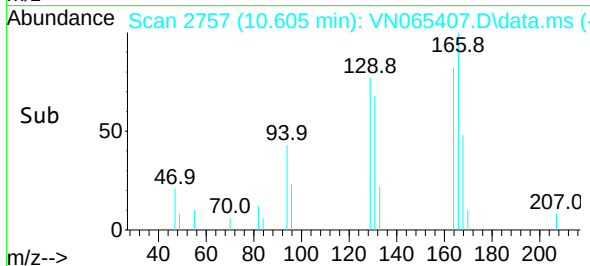
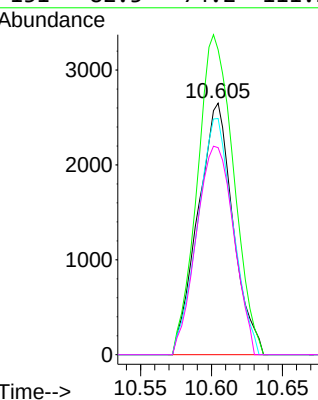
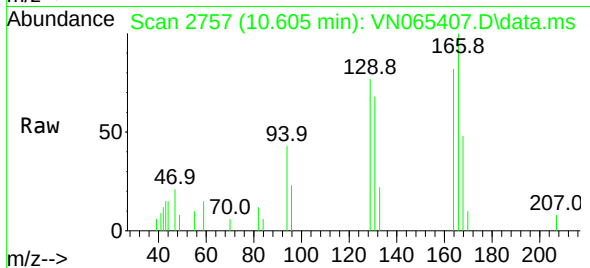
Ion Ratio Lower Upper

164 100

166 121.2 101.4 152.0

129 93.9 76.1 114.1

131 82.3 74.2 111.2



#71

Bromoform

Concen: 0.39 ug/l

RT: 12.379 min Scan# 3309

Delta R.T. 0.279 min

Lab File: VN065407.D

Acq: 6 Jan 2021 18:07

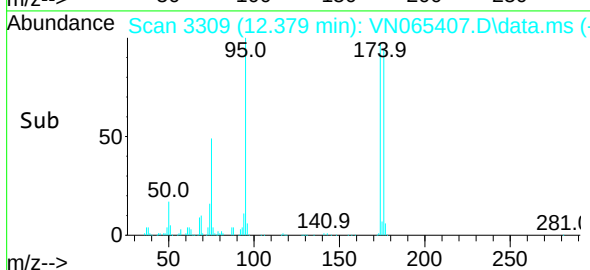
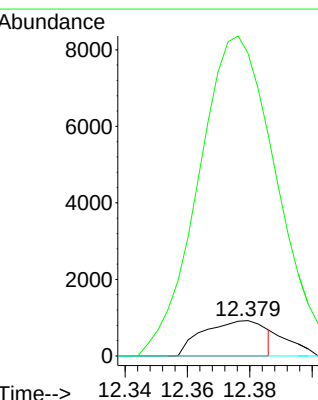
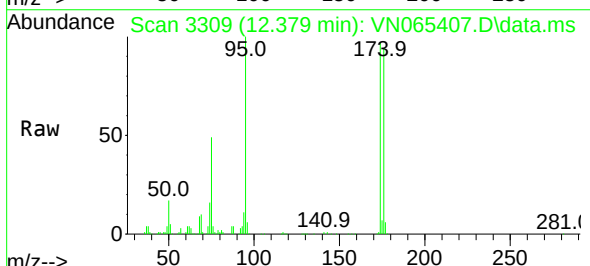
Tgt Ion:173 Resp: 1283

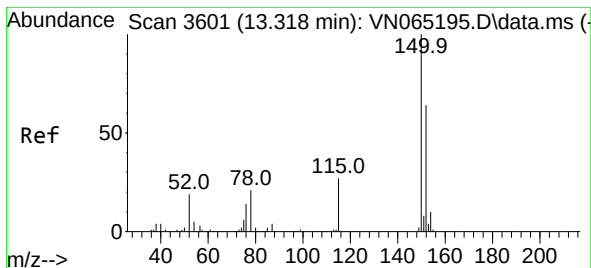
Ion Ratio Lower Upper

173 100

175 941.8 24.3 72.8#

254 0.0 0.0 0.0

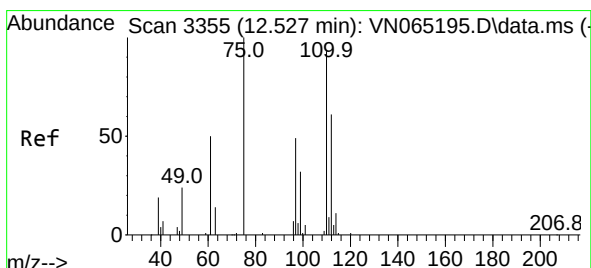
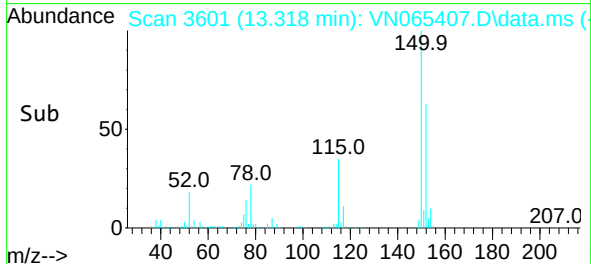
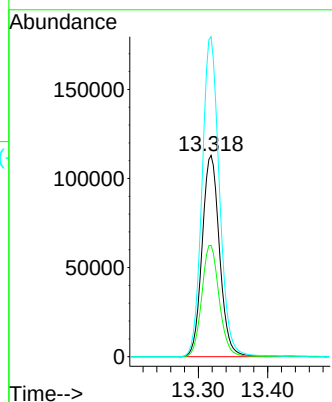
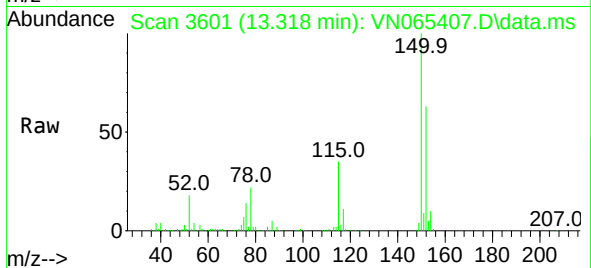




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

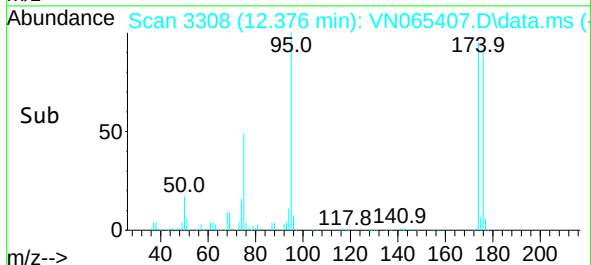
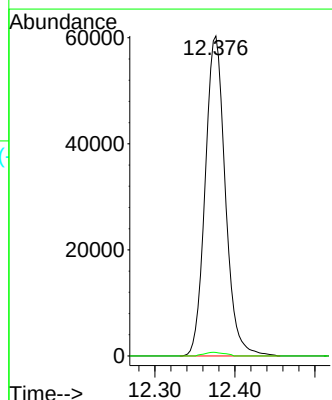
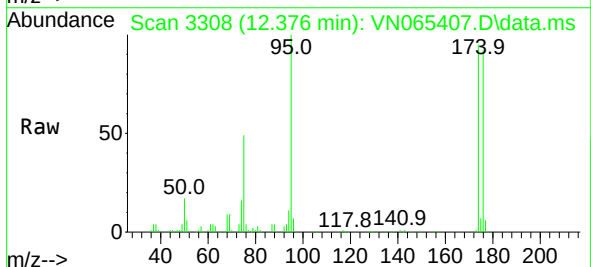
Instrument :  
MSVOA\_N  
ClientSampled :  
30734

Tgt Ion:152 Resp: 197647  
Ion Ratio Lower Upper  
152 100  
115 55.3 29.7 89.1  
150 158.2 0.0 350.6

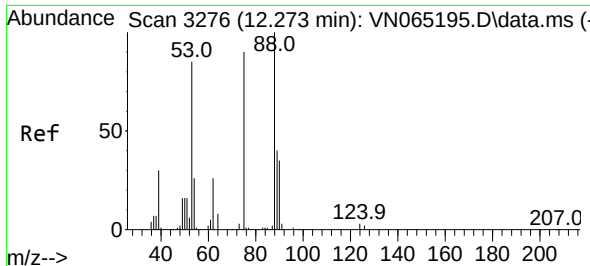


#76  
1,2,3-Trichloropropane  
Concen: 26.15 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. -0.151 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

Tgt Ion: 75 Resp: 105457  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#

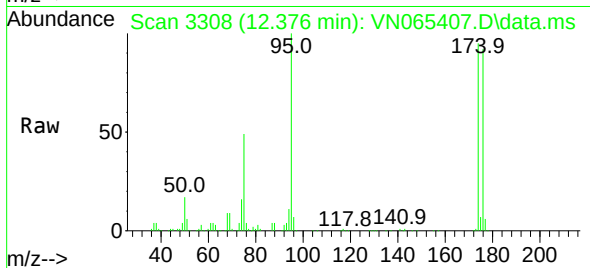




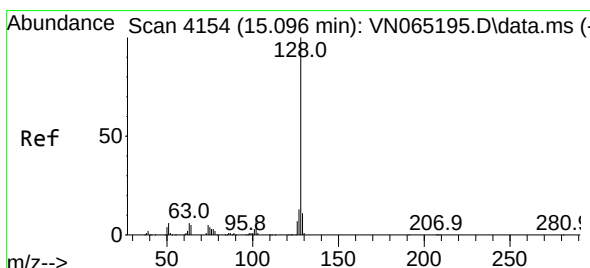
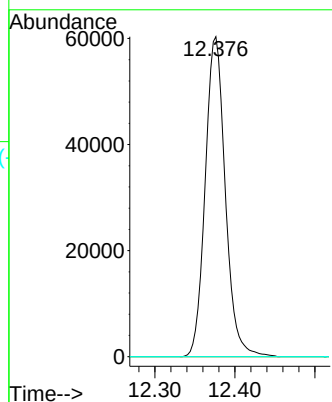
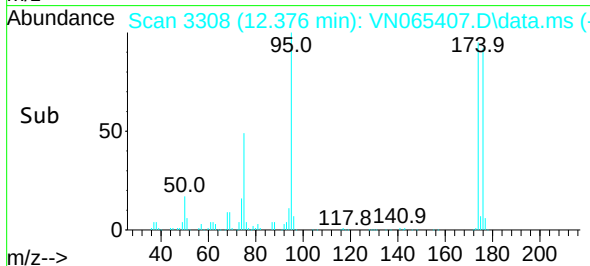


#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.95 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.103 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07

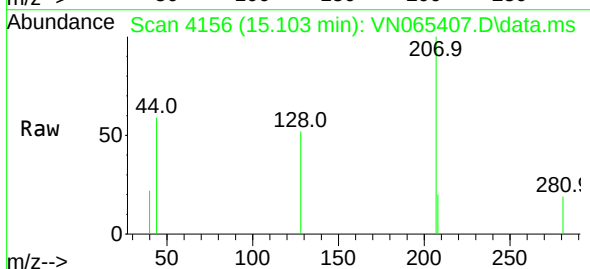
Instrument :  
MSVOA\_N  
ClientSampleId :  
30734



Tgt Ion: 75 Resp: 105457  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.0 100.4#  
89 0.0 39.6 59.4#



#95  
Naphthalene  
Concen: 3.45 ug/l  
RT: 15.103 min Scan# 4156  
Delta R.T. 0.007 min  
Lab File: VN065407.D  
Acq: 6 Jan 2021 18:07



Tgt Ion: 128 Resp: 820  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.7 13.1#

