

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022421\  
 Data File : VN066010.D  
 Acq On : 24 Feb 2021 17:40  
 Operator : JC/MD  
 Sample : M1474-06RE  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 25 02:16:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 17 15:48:13 2021  
 Response via : Initial Calibration

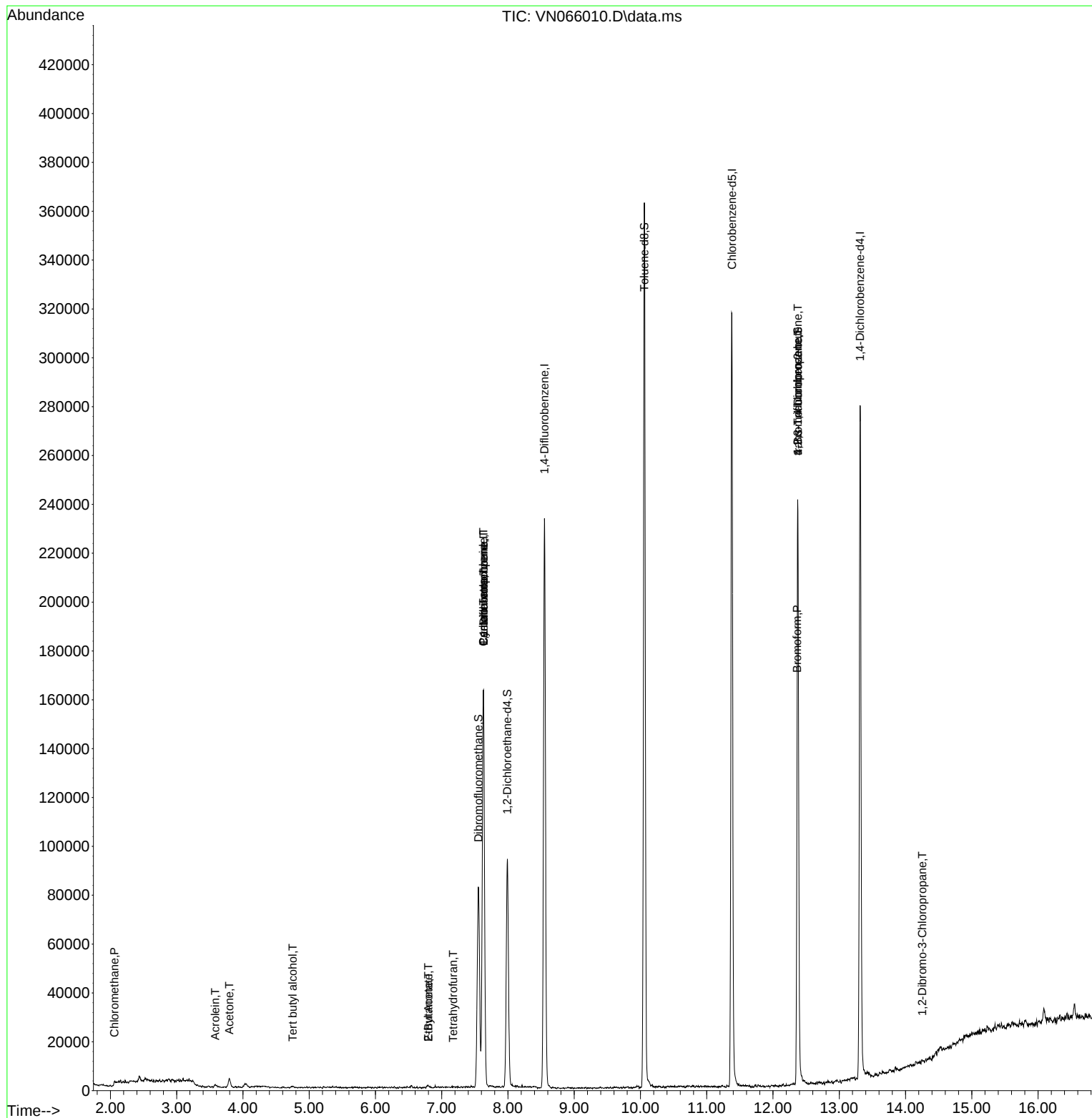
| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) Pentafluorobenzene         | 7.630          | 168  | 130328     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550          | 114  | 214829     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.379         | 117  | 196386     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.315         | 152  | 80120      | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.990          | 65   | 86120      | 47.25  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 94.50% |        |          |
| 35) Dibromofluoromethane      | 7.553          | 113  | 64212      | 48.30  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 96.60% |        |          |
| 50) Toluene-d8                | 10.058         | 98   | 259411     | 47.53  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 95.06% |        |          |
| 62) 4-Bromofluorobenzene      | 12.373         | 95   | 94984      | 46.36  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 92.72% |        |          |
| Target Compounds              |                |      |            |        |        |          |
|                               |                |      |            |        |        | Qvalue   |
| 3) Chloromethane              | 2.058          | 50   | 992        | 0.46   | ug/l   | 98       |
| 11) Tert butyl alcohol        | 4.753          | 59   | 1312       | 5.18   | ug/l # | 73       |
| 13) Acrolein                  | 3.582          | 56   | 1364       | 5.88   | ug/l # | 65       |
| 16) Acetone                   | 3.795          | 43   | 6429       | 9.69   | ug/l   | 95       |
| 25) 2-Butanone                | 6.798          | 43   | 663        | 0.73   | ug/l # | 46       |
| 29) Tetrahydrofuran           | 7.174          | 42   | 308        | 0.50   | ug/l # | 32       |
| 31) Cyclohexane               | 7.630          | 56   | 2455       | 0.90   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.630          | 75   | 10120      | 4.78   | ug/l # | 49       |
| 37) Ethyl Acetate             | 6.798          | 43   | 663        | 0.35   | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 13494      | 6.85   | ug/l # | 17       |
| 71) Bromoform                 | 12.363         | 173  | 144        | 2.63   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.373         | 75   | 49142      | 25.53  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.373         | 75   | 49142      | 81.37  | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.254         | 75   | 72         | 1.03   | ug/l # | 1        |
| -----                         |                |      |            |        |        |          |

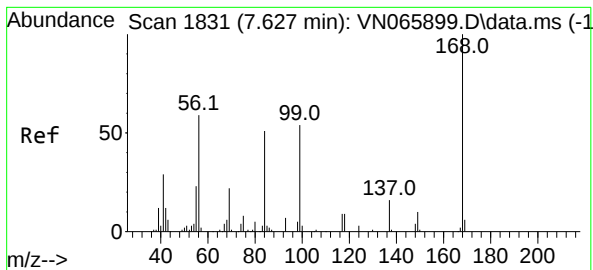
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Feb 25 02:16:07 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 17 15:48:13 2021  
Response via : Initial Calibration

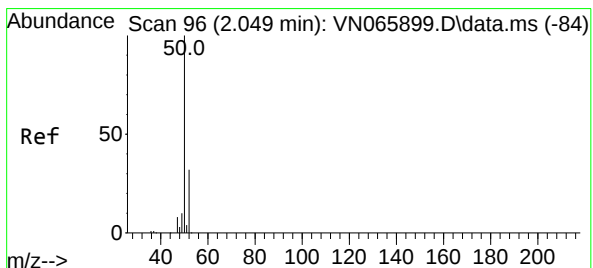
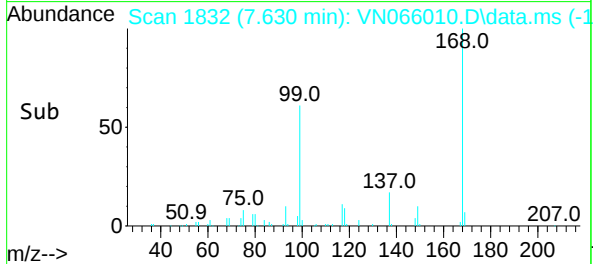
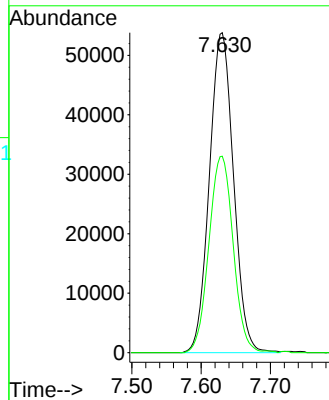
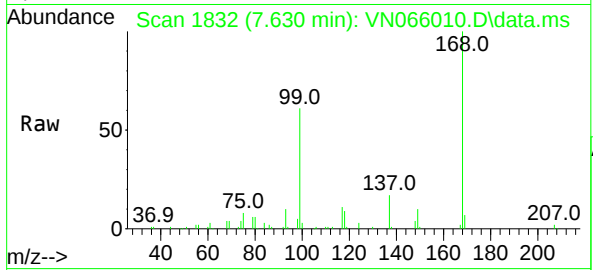




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.630 min Scan# 1832  
Delta R.T. 0.003 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

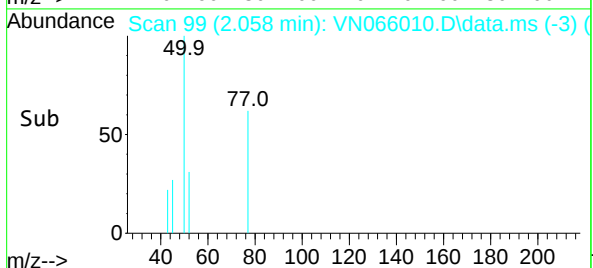
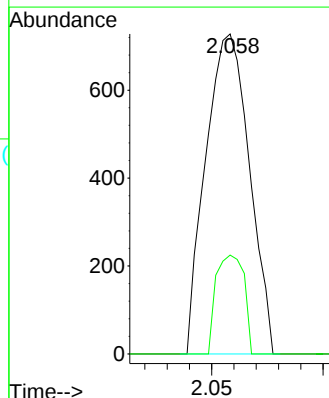
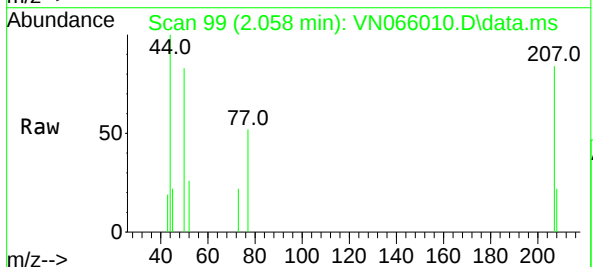
Instrument :  
MSVOA\_N  
ClientSampleId :

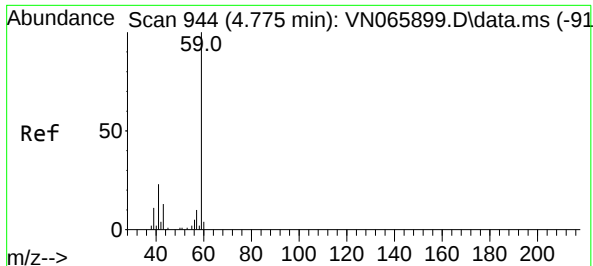
Tgt Ion:168 Resp: 130328  
Ion Ratio Lower Upper  
168 100  
99 61.4 42.6 63.8



#3  
Chloromethane  
Concen: 0.46 ug/l  
RT: 2.058 min Scan# 99  
Delta R.T. 0.009 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Tgt Ion: 50 Resp: 992  
Ion Ratio Lower Upper  
50 100  
52 30.9 25.8 38.8

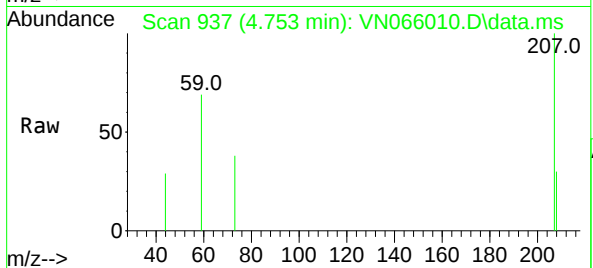




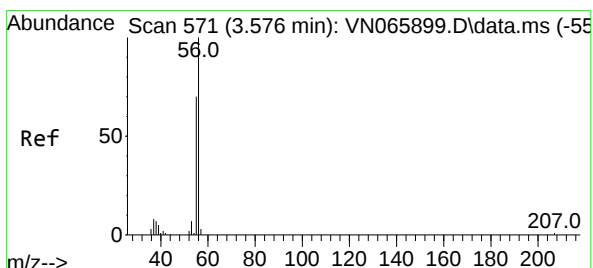
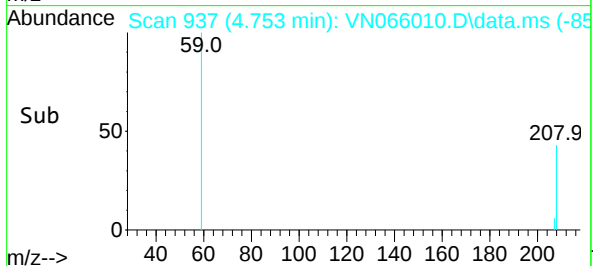
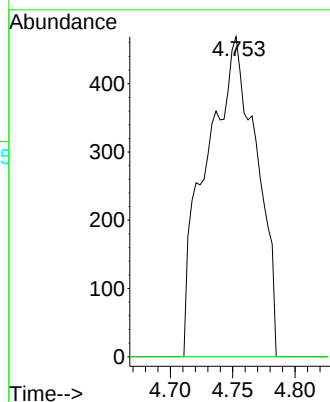
#11

Tert butyl alcohol  
Concen: 5.18 ug/l  
RT: 4.753 min Scan# 937  
Delta R.T. -0.022 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Instrument :  
MSVOA\_N  
ClientSampled :

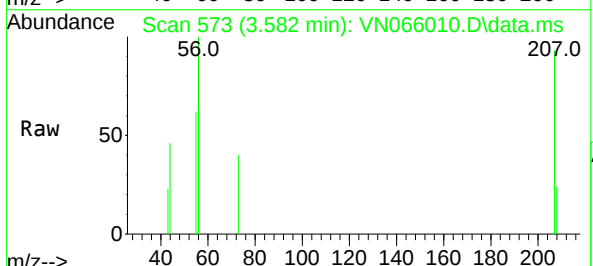


Tgt Ion: 59 Resp: 1312  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

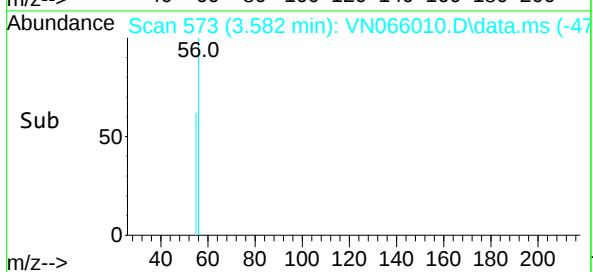
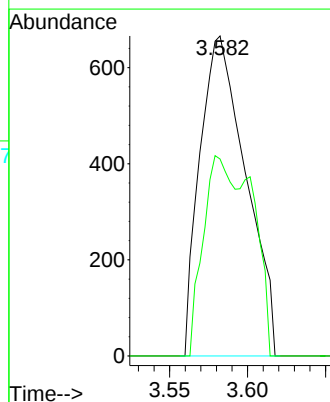


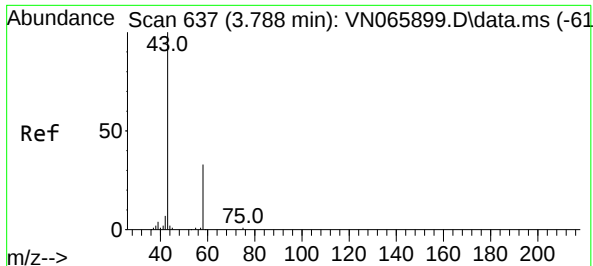
#13

Acrolein  
Concen: 5.88 ug/l  
RT: 3.582 min Scan# 573  
Delta R.T. 0.006 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40



Tgt Ion: 56 Resp: 1364  
Ion Ratio Lower Upper  
56 100  
55 41.0 56.0 84.0#

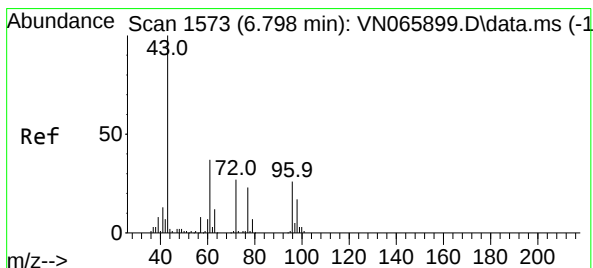
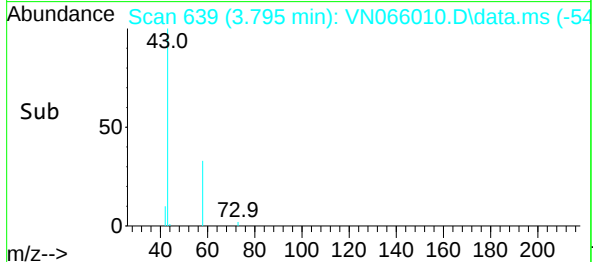
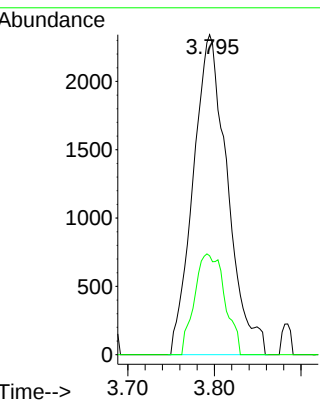
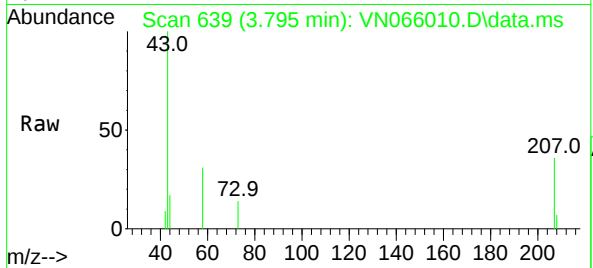




#16  
Acetone  
Concen: 9.69 ug/l  
RT: 3.795 min Scan# 639  
Delta R.T. 0.007 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

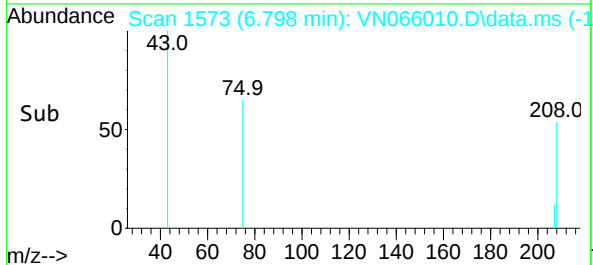
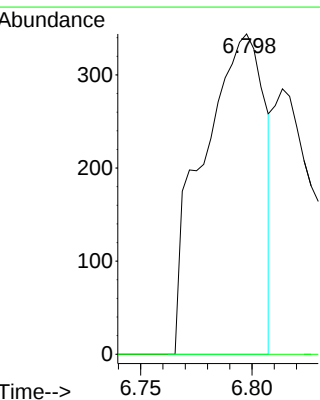
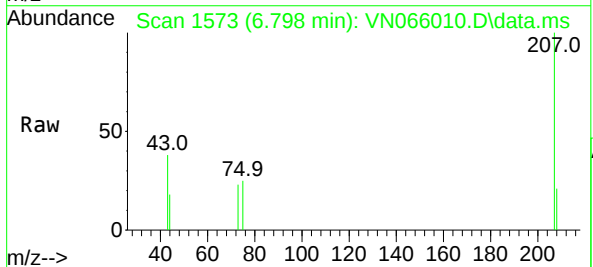
Instrument :  
MSVOA\_N  
ClientSampleId :

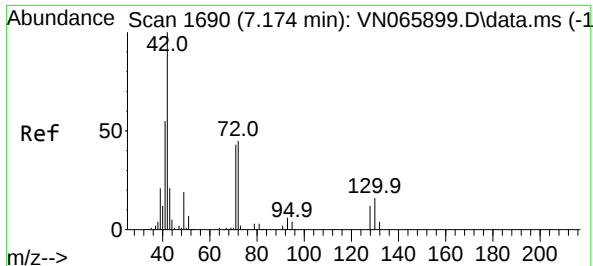
Tgt Ion: 43 Resp: 6429  
Ion Ratio Lower Upper  
43 100  
58 30.9 27.0 40.6



#25  
2-Butanone  
Concen: 0.73 ug/l  
RT: 6.798 min Scan# 1573  
Delta R.T. -0.000 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Tgt Ion: 43 Resp: 663  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.1 34.7#





#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 7.174 min Scan# 1690

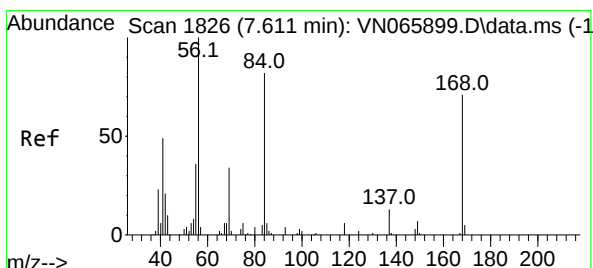
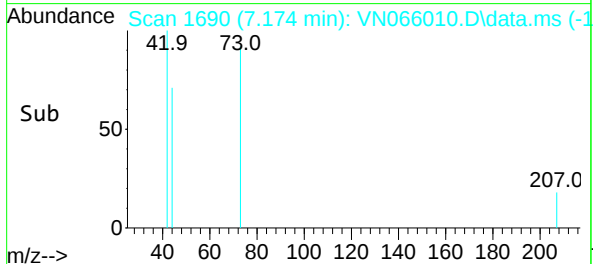
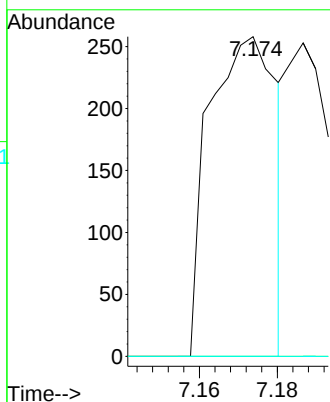
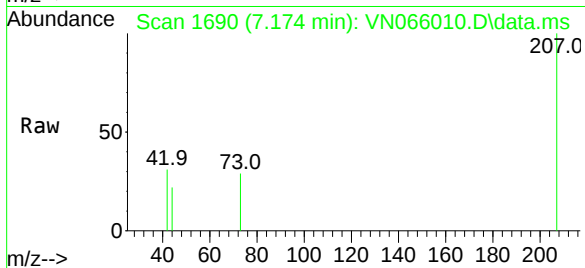
Delta R.T. -0.000 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 308   |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 0.0      | 36.6 55.0#  |
| 71 0.0      | 34.3 51.5#  |

Instrument :  
MSVOA\_N  
ClientSampled :



#31

Cyclohexane

Concen: 0.90 ug/l

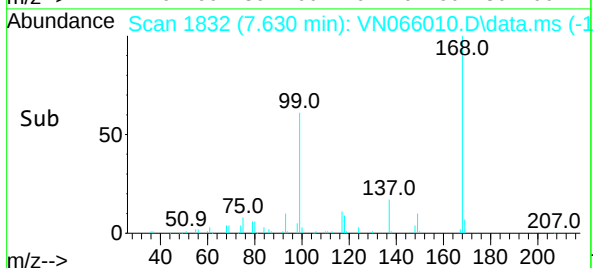
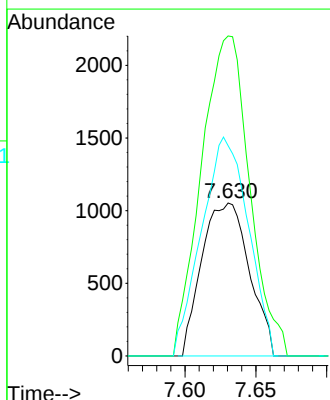
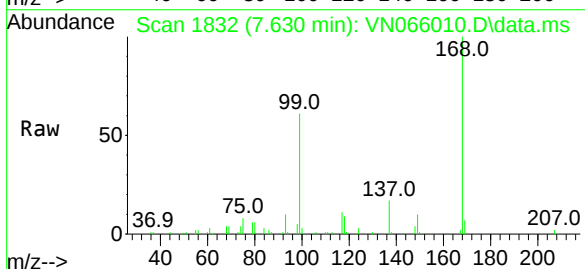
RT: 7.630 min Scan# 1832

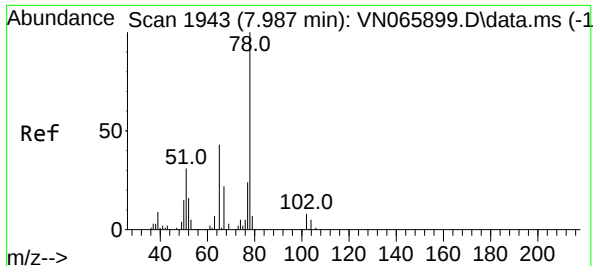
Delta R.T. 0.019 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

|             |            |       |        |
|-------------|------------|-------|--------|
| Tgt Ion: 56 | Resp: 2455 |       |        |
| Ion Ratio   | Lower      | Upper |        |
| 56          | 100        |       |        |
| 69          | 188.5      | 26.6  | 39.8#  |
| 84          | 137.4      | 70.4  | 105.6# |





#33

1,2-Dichloroethane-d4

Concen: 47.25 ug/l

RT: 7.990 min Scan# 1944

Delta R.T. 0.003 min

Lab File: VN066010.D

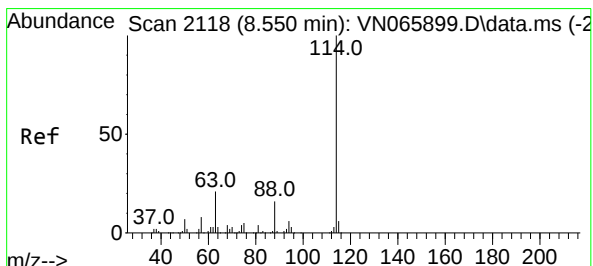
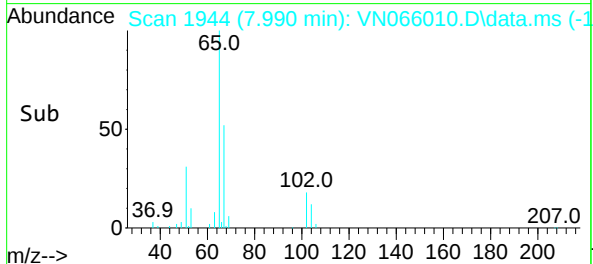
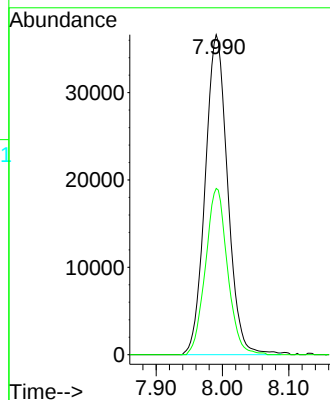
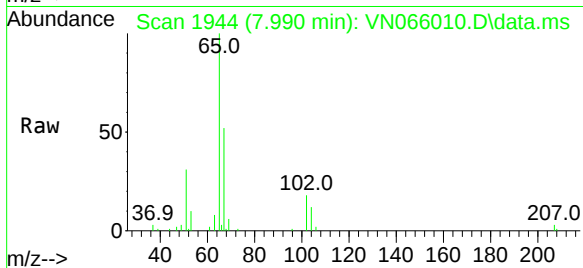
Acq: 24 Feb 2021 17:40

Tgt Ion: 65 Resp: 86120

Ion Ratio Lower Upper

65 100

67 50.8 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.550 min Scan# 2118

Delta R.T. -0.000 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

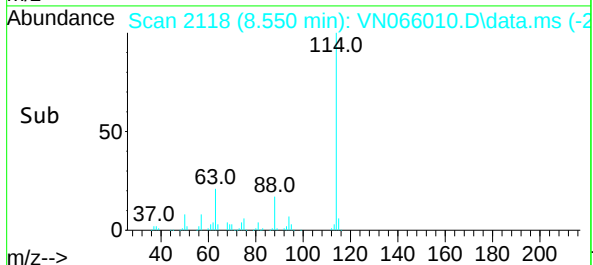
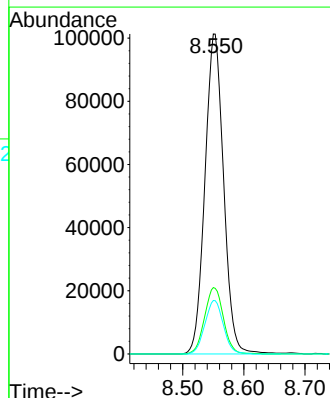
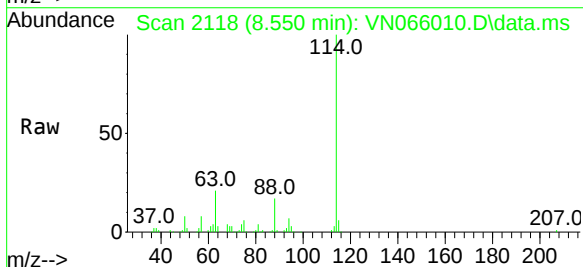
Tgt Ion: 114 Resp: 214829

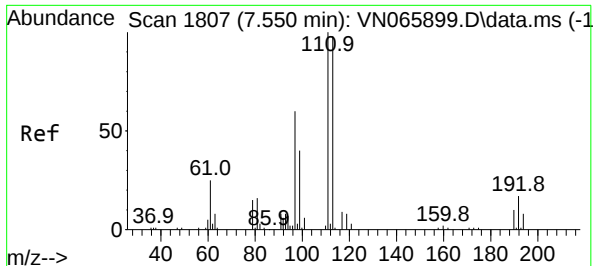
Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.6

88 16.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.30 ug/l

RT: 7.553 min Scan# 1808

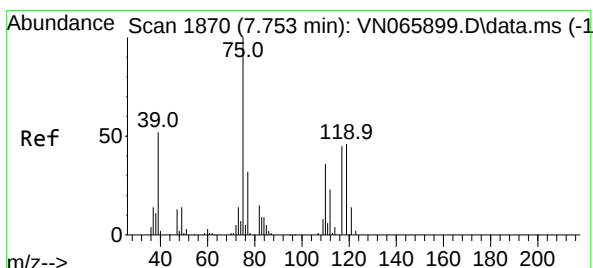
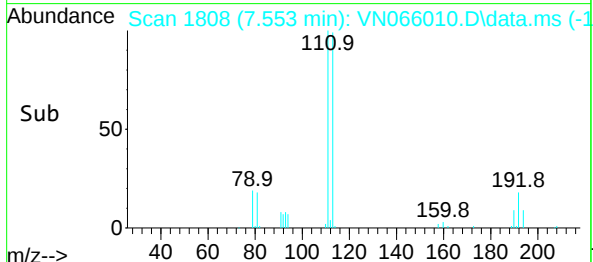
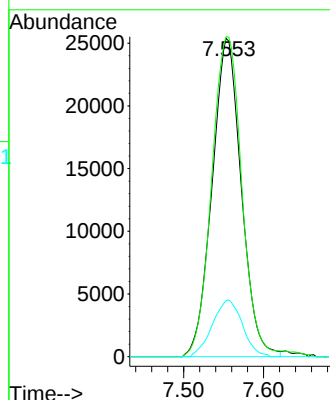
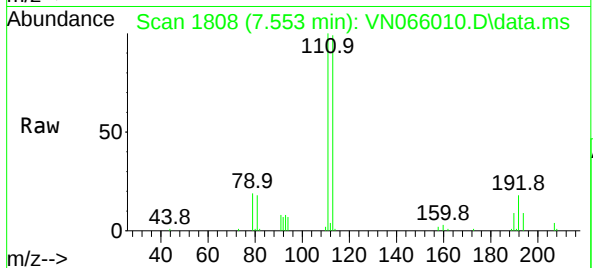
Delta R.T. 0.003 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 64212 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 104.6 | 82.2  | 123.2 |
| 192      | 18.4  | 15.4  | 23.0  |

Instrument :  
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#36

1,1-Dichloropropene

Concen: 4.78 ug/l

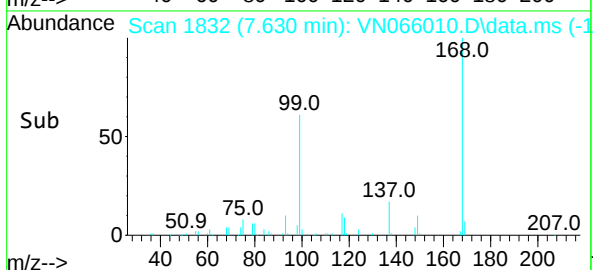
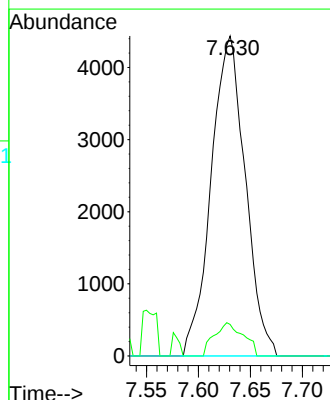
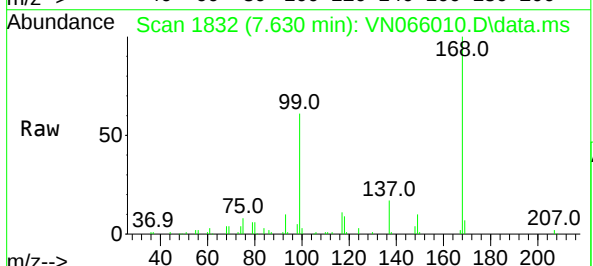
RT: 7.630 min Scan# 1832

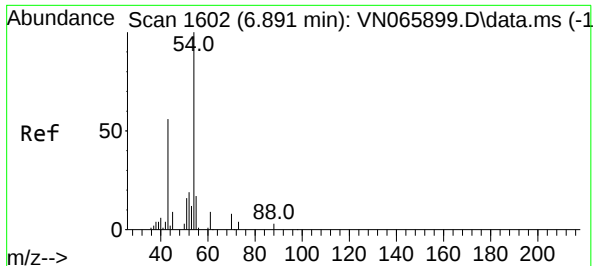
Delta R.T. -0.123 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 10120 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.9   | 18.2  | 54.6# |
| 77       | 0.0   | 24.9  | 37.3# |





#37

Ethyl Acetate

Concen: 0.35 ug/l

RT: 6.798 min Scan# 1573

Delta R.T. -0.093 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

Tgt Ion: 43 Resp: 663

Ion Ratio Lower Upper

43 100

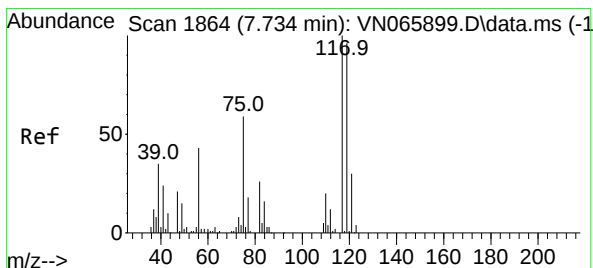
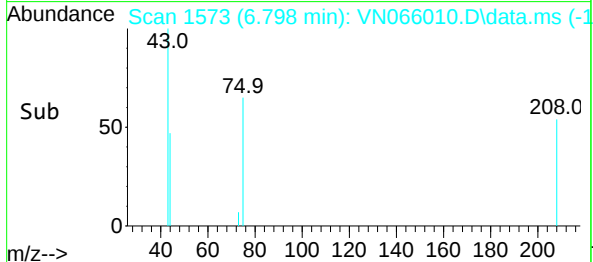
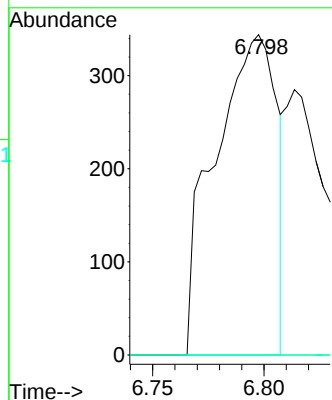
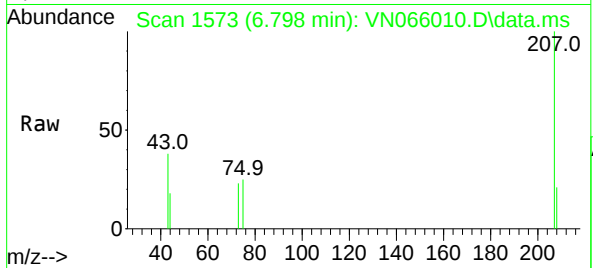
61 0.0 11.6 17.4#

70 0.0 8.6 13.0#

Instrument :

MSVOA\_N

ClientSampleId :



#38

Carbon Tetrachloride

Concen: 6.85 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. -0.107 min

Lab File: VN066010.D

Acq: 24 Feb 2021 17:40

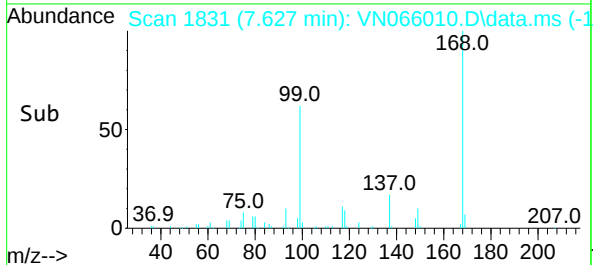
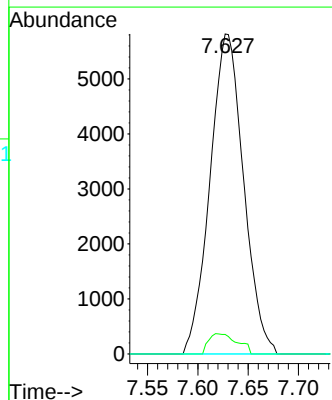
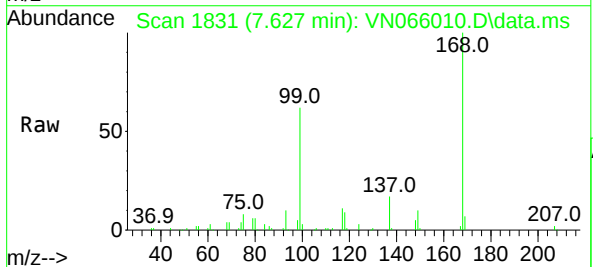
Tgt Ion: 117 Resp: 13494

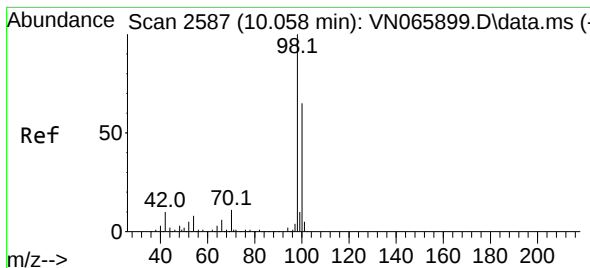
Ion Ratio Lower Upper

117 100

119 6.1 76.0 114.0#

121 0.0 24.5 36.7#

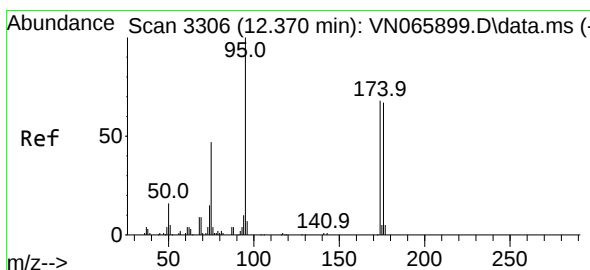
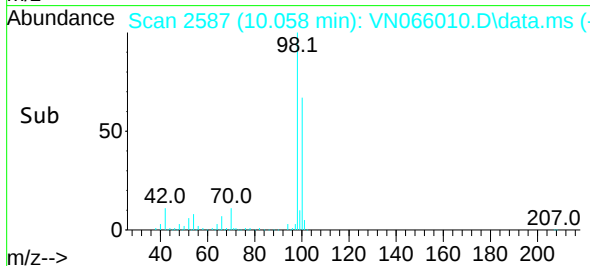
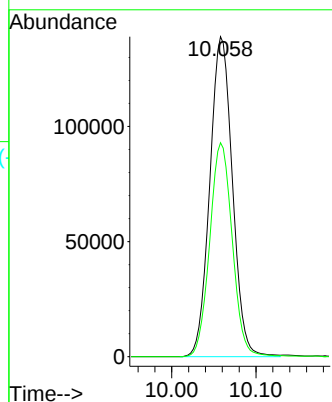
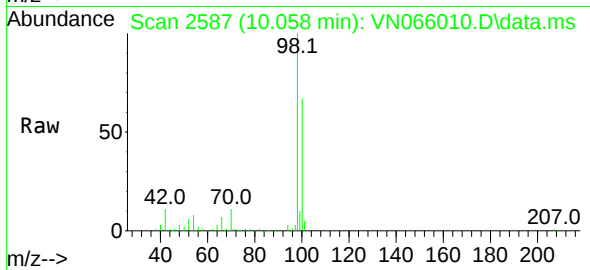




#50  
Toluene-d8  
Concen: 47.53 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. -0.000 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

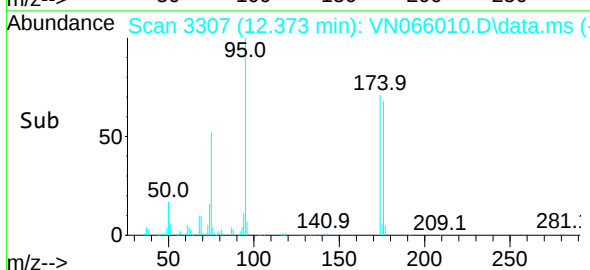
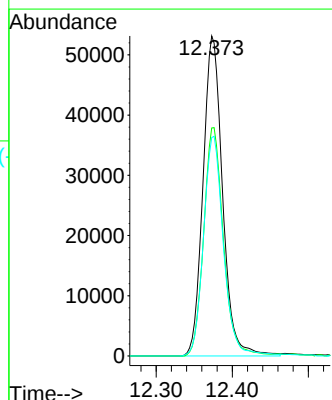
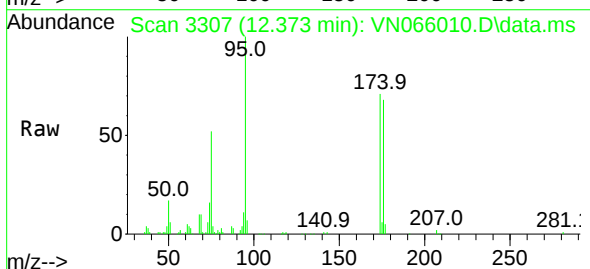
Instrument :  
MSVOA\_N  
ClientSampled :

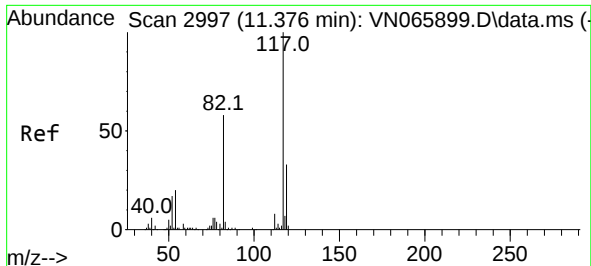
Tgt Ion: 98 Resp: 259411  
Ion Ratio Lower Upper  
98 100  
100 66.6 50.5 75.7



#62  
4-Bromofluorobenzene  
Concen: 46.36 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.003 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Tgt Ion: 95 Resp: 94984  
Ion Ratio Lower Upper  
95 100  
174 71.8 0.0 169.0  
176 69.8 0.0 162.4

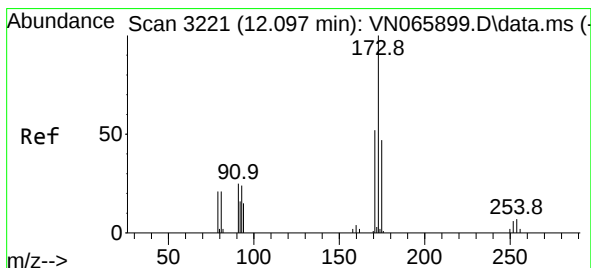
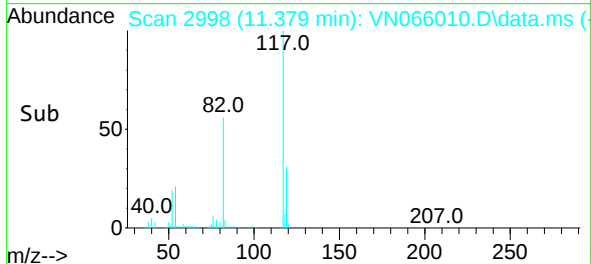
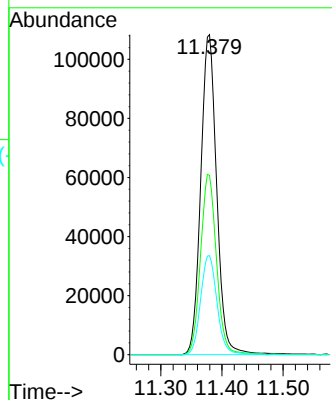
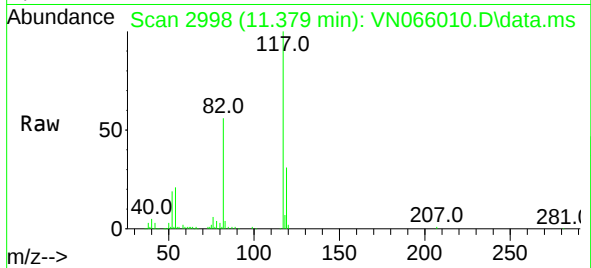




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. 0.003 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

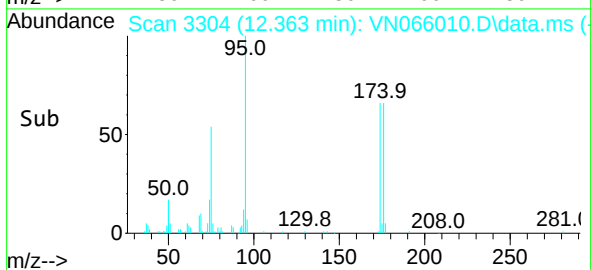
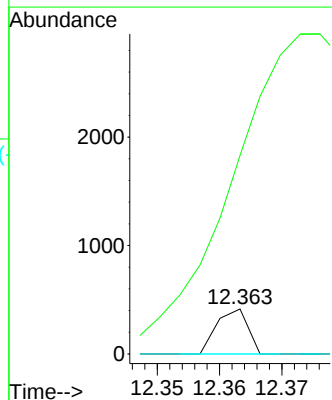
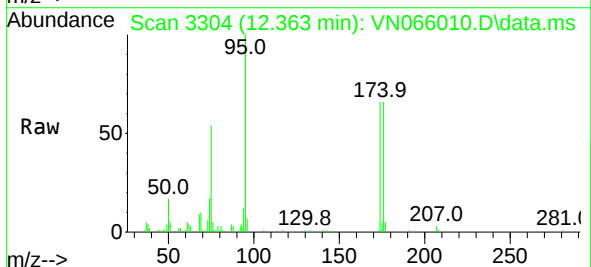
Instrument :  
MSVOA\_N  
ClientSampleId :

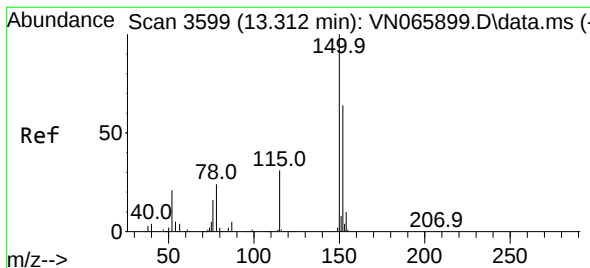
Tgt Ion:117 Resp: 196386  
Ion Ratio Lower Upper  
117 100  
82 56.0 43.7 65.5  
119 30.9 26.1 39.1



#71  
Bromoform  
Concen: 2.63 ug/l  
RT: 12.363 min Scan# 3304  
Delta R.T. 0.266 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Tgt Ion:173 Resp: 144  
Ion Ratio Lower Upper  
173 100  
175 2816.0 23.8 71.2#  
254 0.0 0.0 0.0

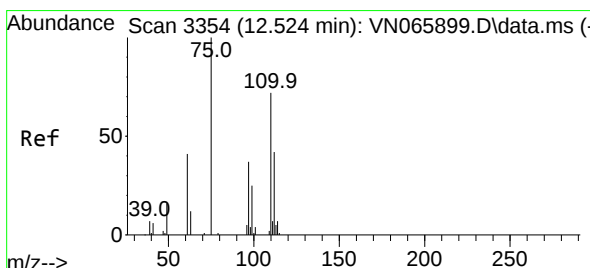
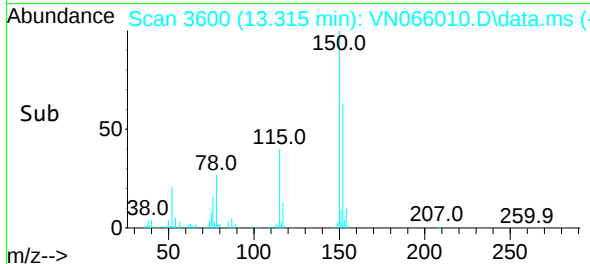
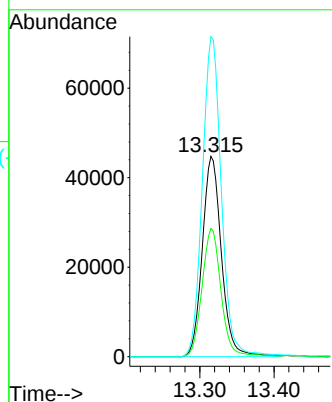
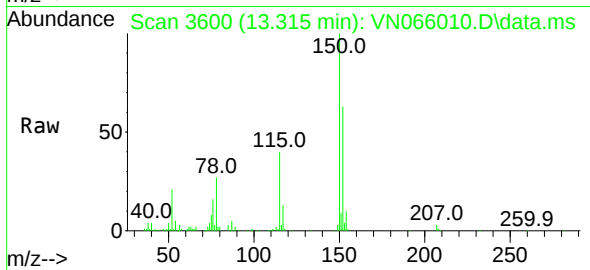




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.315 min Scan# 3600  
 Delta R.T. 0.003 min  
 Lab File: VN066010.D  
 Acq: 24 Feb 2021 17:40

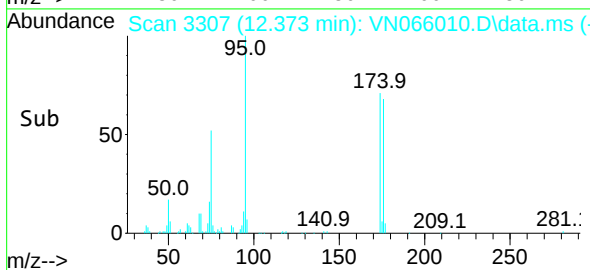
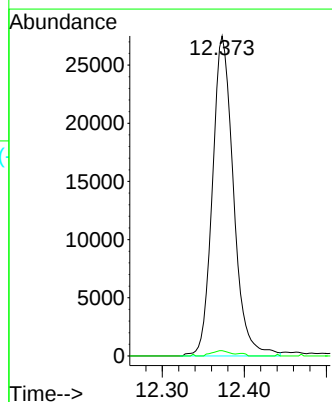
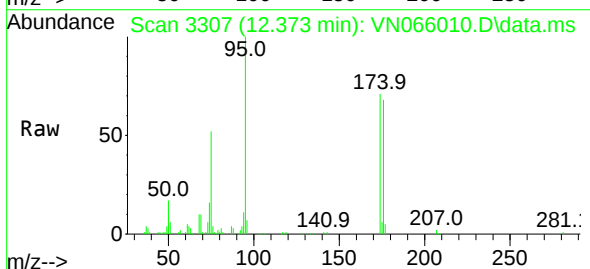
Instrument :  
 MSVOA\_N  
 ClientSampleId :

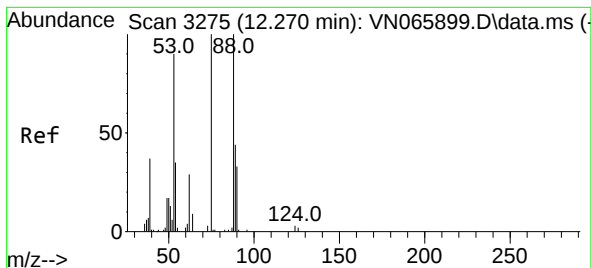
Tgt Ion:152 Resp: 80120  
 Ion Ratio Lower Upper  
 152 100  
 115 62.8 28.5 85.6  
 150 159.7 0.0 347.6



#76  
 1,2,3-Trichloropropane  
 Concen: 25.53 ug/l  
 RT: 12.373 min Scan# 3307  
 Delta R.T. -0.151 min  
 Lab File: VN066010.D  
 Acq: 24 Feb 2021 17:40

Tgt Ion: 75 Resp: 49142  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#

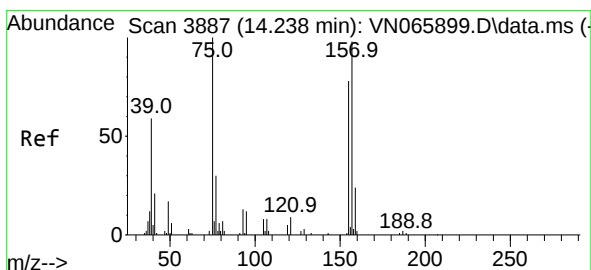
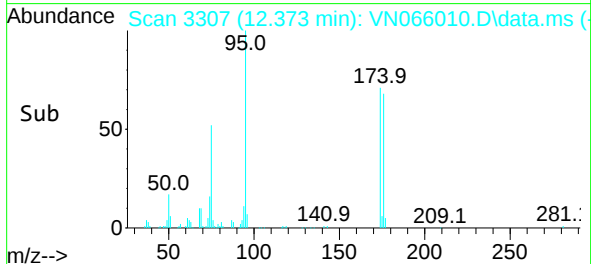
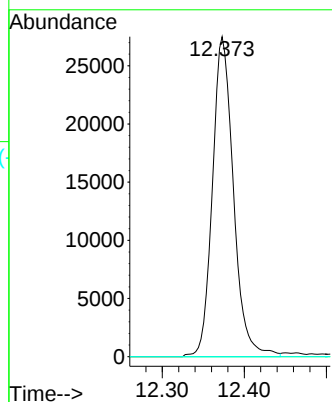
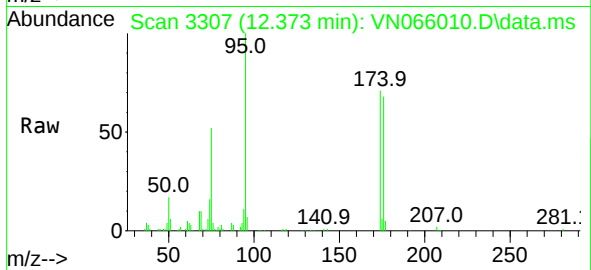




#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.37 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.103 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 49142  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.6 111.8#  
89 0.0 35.8 53.8#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.03 ug/l  
RT: 14.254 min Scan# 3892  
Delta R.T. 0.016 min  
Lab File: VN066010.D  
Acq: 24 Feb 2021 17:40

Tgt Ion: 75 Resp: 72  
Ion Ratio Lower Upper  
75 100  
155 0.0 44.1 132.4#  
157 0.0 56.0 168.2#

