

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110524\  
 Data File : VN084687.D  
 Acq On : 05 Nov 2024 14:59  
 Operator : JC\MD  
 Sample : PB164676TB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 06 00:31:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

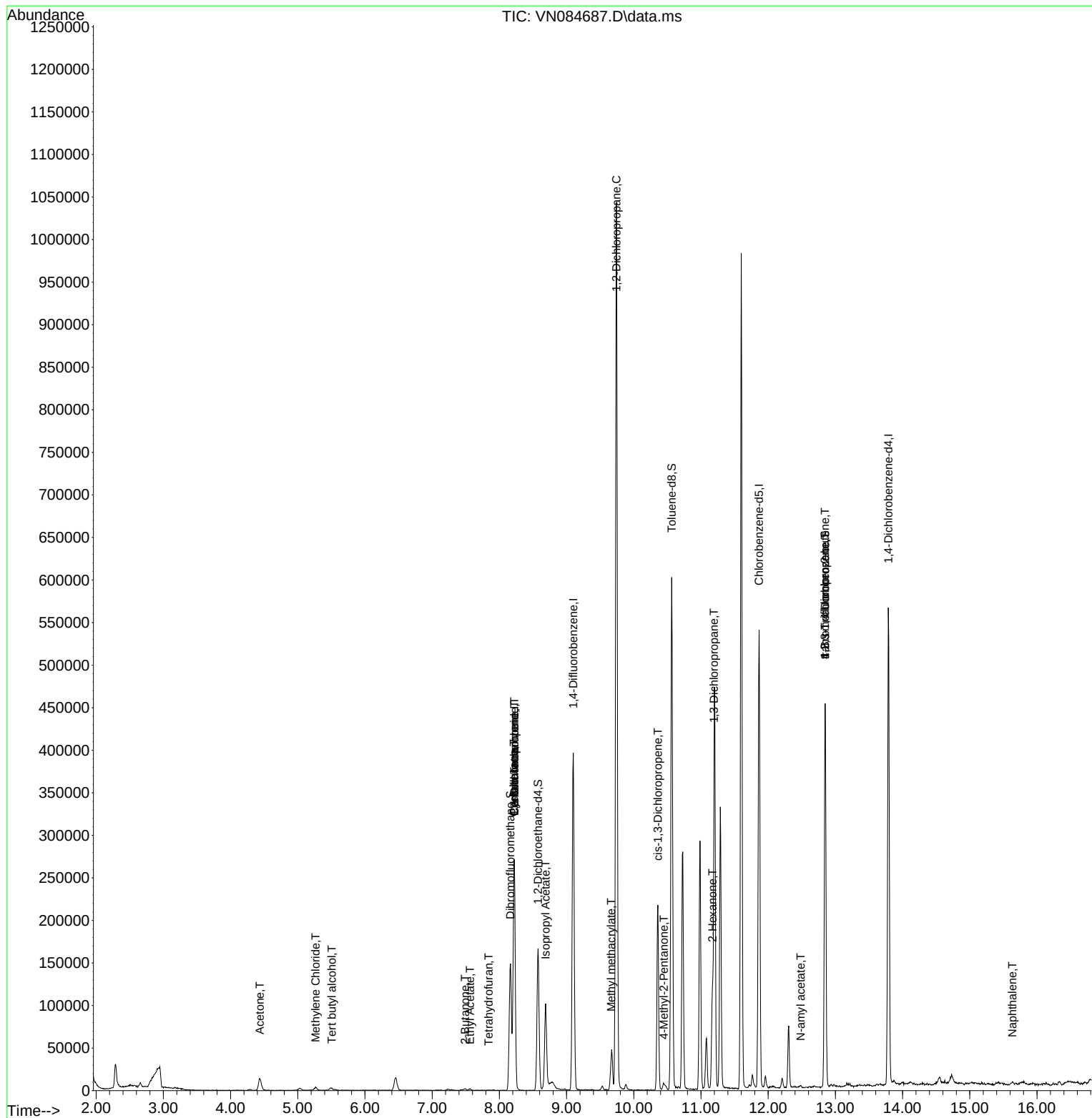
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 197070   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 344413   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 314716   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 150477   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 135857   | 47.730    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 95.460%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 110067   | 47.214    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 94.420%  |
| 50) Toluene-d8                | 10.565 | 98    | 415024   | 48.328    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 96.660%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 162914   | 50.760    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | =      | 101.520% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.371  | 50    | 550      | Below Cal | #      | 41       |
| 6) Chloroethane               | 3.171  | 64    | 616      | Below Cal | #      | 45       |
| 11) Tert butyl alcohol        | 5.506  | 59    | 2940     | 7.825     | ug/l # | 73       |
| 16) Acetone                   | 4.436  | 43    | 27578    | 31.043    | ug/l   | 98       |
| 18) Methyl Acetate            | 5.024  | 43    | 5231     | Below Cal |        | 93       |
| 20) Methylene Chloride        | 5.265  | 84    | 2568     | 1.026     | ug/l # | 76       |
| 25) 2-Butanone                | 7.488  | 43    | 3174     | 2.390     | ug/l # | 83       |
| 29) Tetrahydrofuran           | 7.841  | 42    | 240      | 0.272     | ug/l # | 34       |
| 31) Cyclohexane               | 8.218  | 56    | 4048     | 1.030     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 15922    | 4.925     | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.565  | 43    | 2888     | 0.985     | ug/l # | 77       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 21256    | 5.882     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 118063   | 21.230    | ug/l # | 90       |
| 45) 1,2-Dichloropropane       | 9.741  | 63    | 1221     | 0.501     | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.665  | 41    | 2955     | 1.294     | ug/l # | 44       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 8893     | 3.180     | ug/l # | 70       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 40472    | 10.197    | ug/l # | 58       |
| 57) 1,3-Dichloropropane       | 11.194 | 76    | 5343     | 1.361     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.171 | 43    | 97172    | 47.739    | ug/l # | 24       |
| 74) N-amyl acetate            | 12.482 | 43    | 1471     | 0.328     | ug/l # | 64       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 83346    | 27.708    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 83346    | 65.736    | ug/l # | 11       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146   | 377      | Below Cal | #      | 24       |
| 95) Naphthalene               | 15.635 | 128   | 2793     | 0.321     | ug/l # | 87       |
| -----                         |        |       |          |           |        |          |

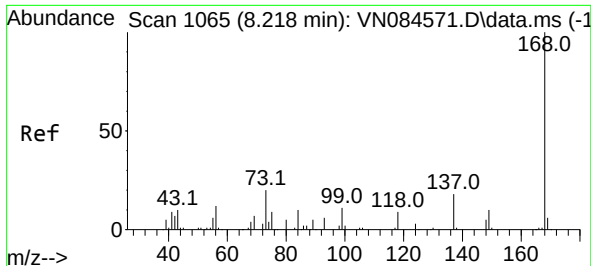
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Oct 31 18:45:38 2024  
Response via : Initial Calibration

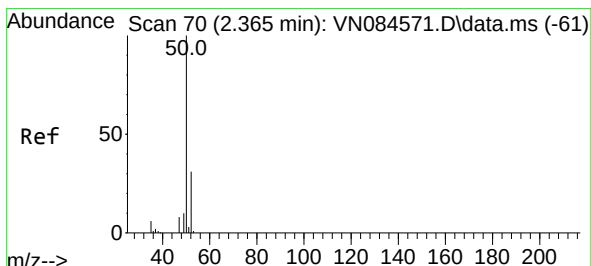
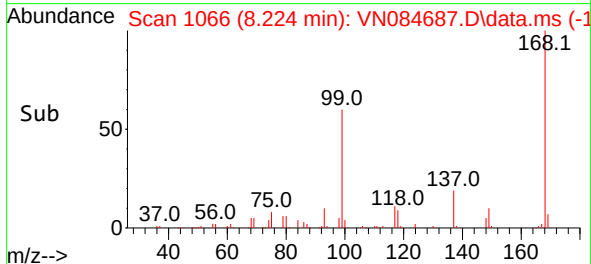
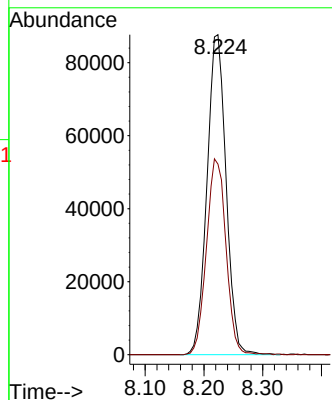
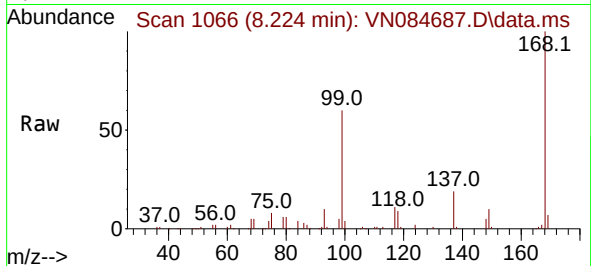




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

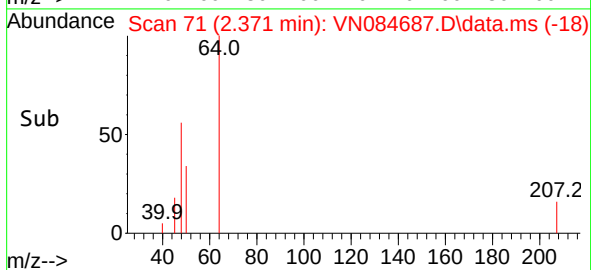
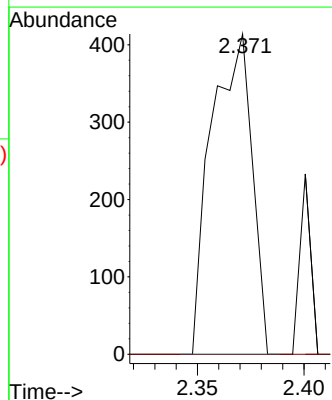
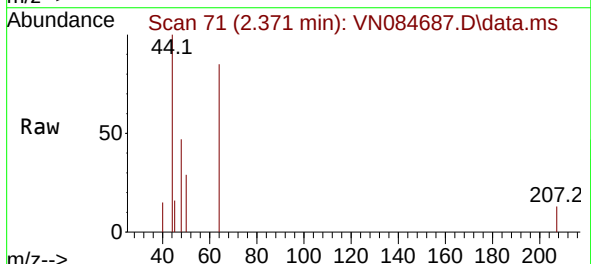
Instrument :  
MSVOA\_N  
ClientSampleId :

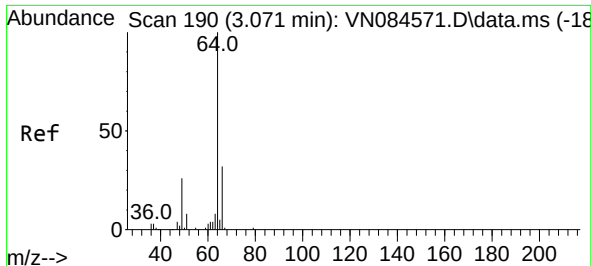
Tgt Ion:168 Resp: 197070  
Ion Ratio Lower Upper  
168 100  
99 59.5 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.371 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

Tgt Ion: 50 Resp: 550  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

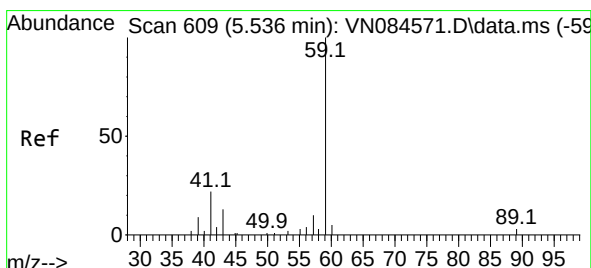
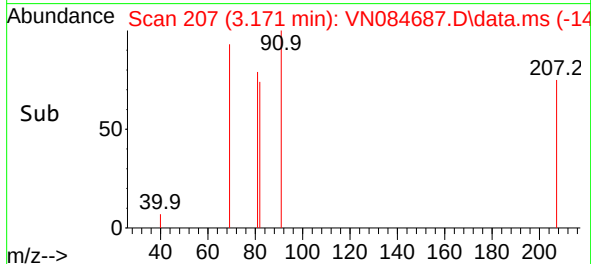
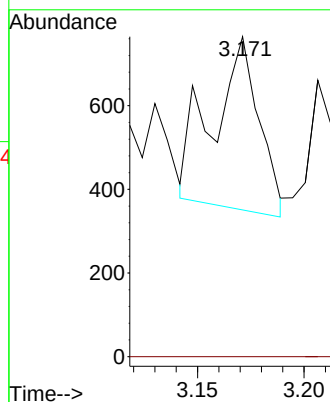
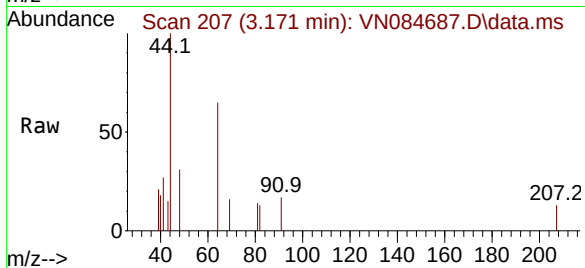




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.171 min Scan# 207  
Delta R.T. 0.053 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

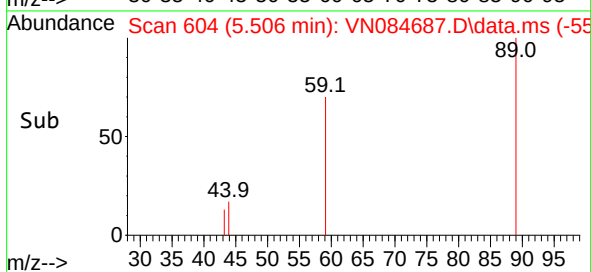
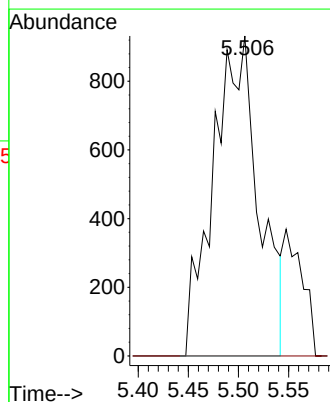
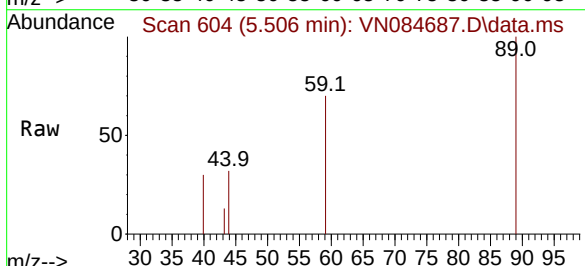
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MSVOA\_N  
ClientSampleId :

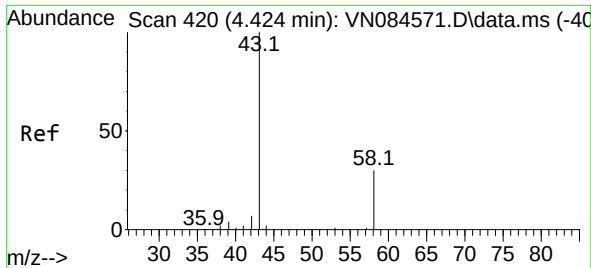
Tgt Ion: 64 Resp: 616  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#11  
Tert butyl alcohol  
Concen: 7.825 ug/l  
RT: 5.506 min Scan# 604  
Delta R.T. -0.018 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

Tgt Ion: 59 Resp: 2940  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

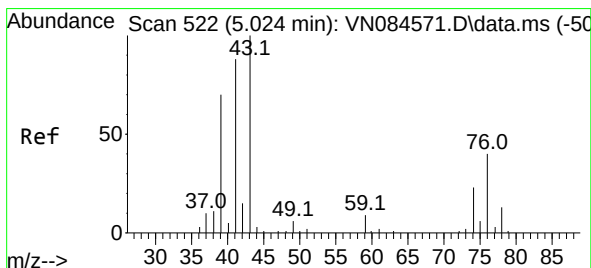
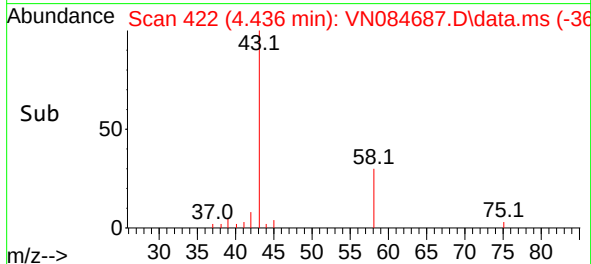
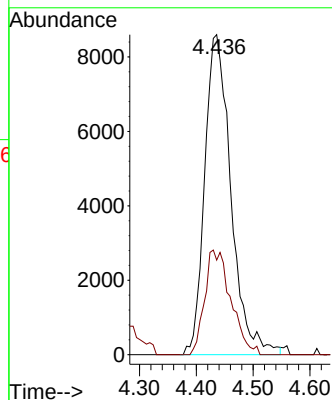
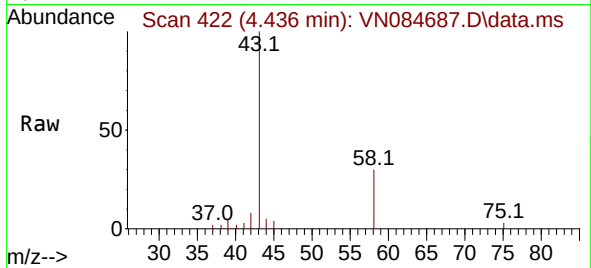




#16  
Acetone  
Concen: 31.043 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

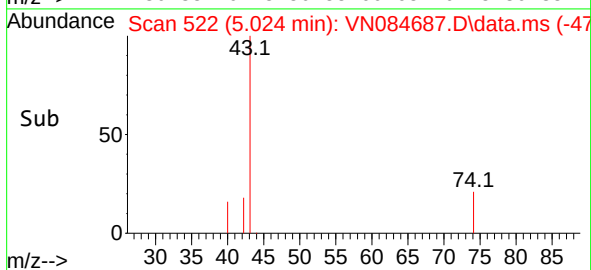
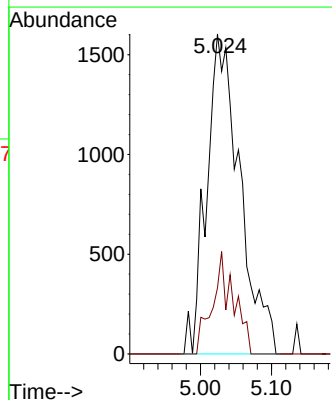
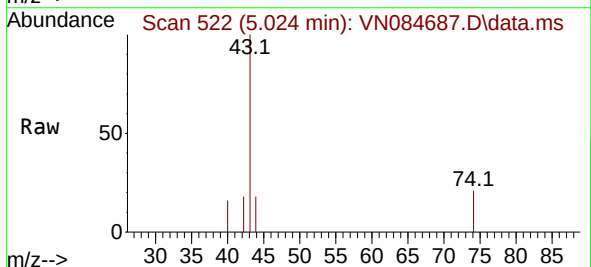
Instrument :  
MSVOA\_N  
ClientSampleId :

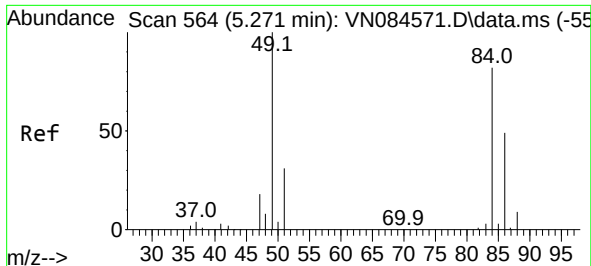
Tgt Ion: 43 Resp: 27578  
Ion Ratio Lower Upper  
43 100  
58 29.5 24.4 36.6



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

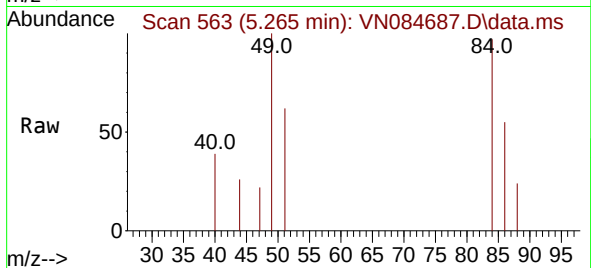
Tgt Ion: 43 Resp: 5231  
Ion Ratio Lower Upper  
43 100  
74 20.5 19.2 28.8



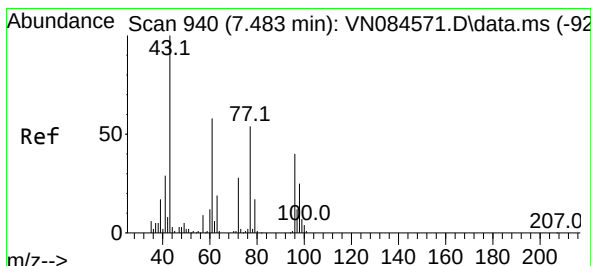
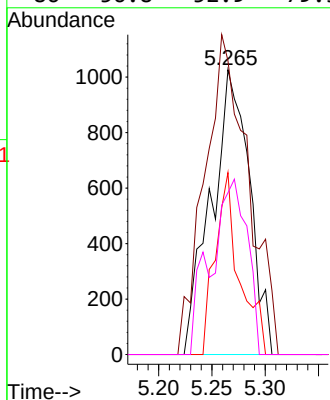
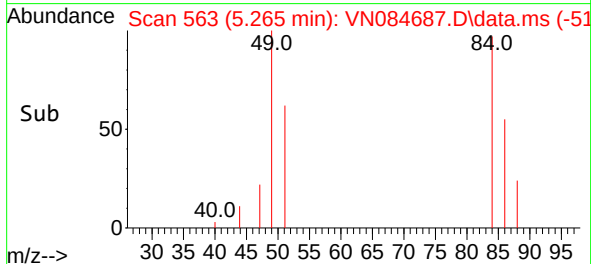


#20  
Methylene Chloride  
Concen: 1.026 ug/l  
RT: 5.265 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

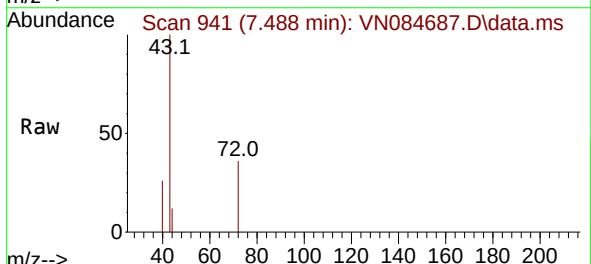
Instrument :  
MSVOA\_N  
ClientSampleId :



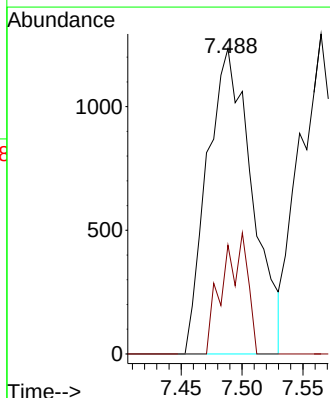
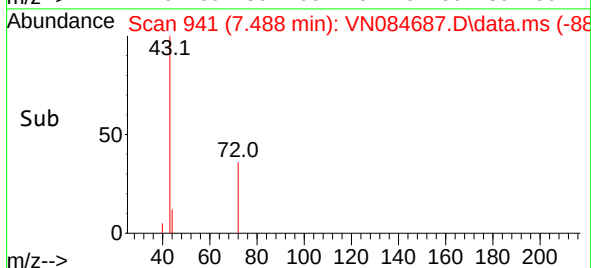
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2568   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 103.1 | 107.2 | 160.8# |
| 51       | 63.9  | 31.8  | 47.8#  |
| 86       | 56.8  | 52.9  | 79.3   |

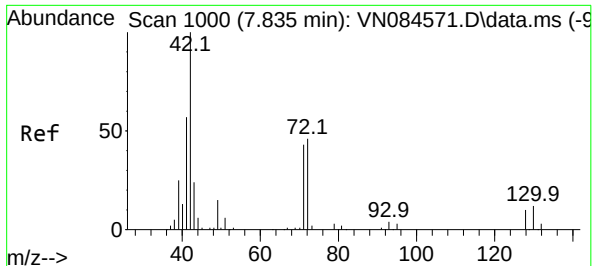


#25  
2-Butanone  
Concen: 2.390 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3174  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 35.6  | 21.4  | 32.2# |





#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

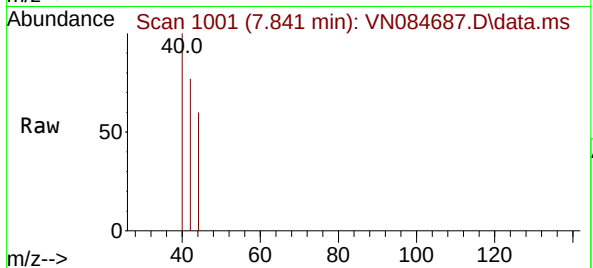
Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

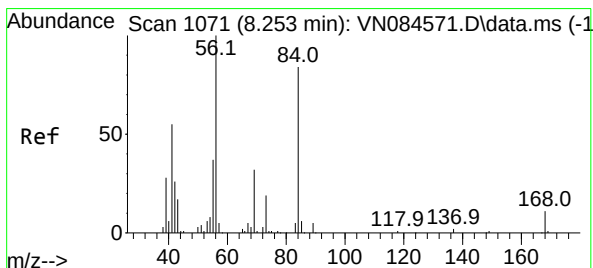
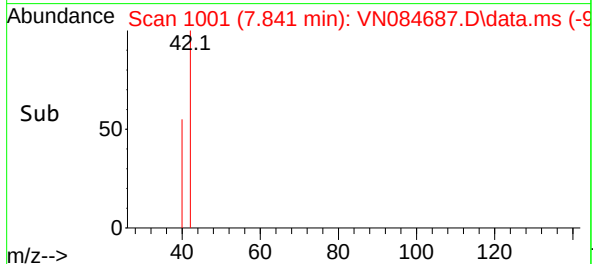
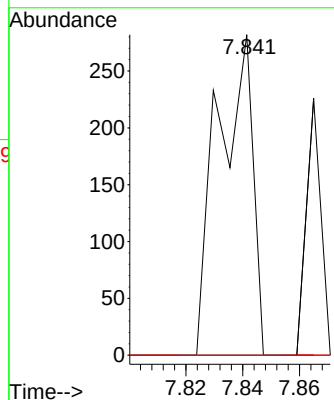
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 240   |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 0.0   | 34.6  | 51.8# |
| 71        | 0.0   | 32.2  | 48.4# |



#31

Cyclohexane

Concen: 1.030 ug/l

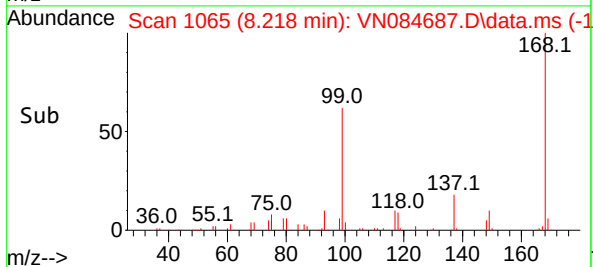
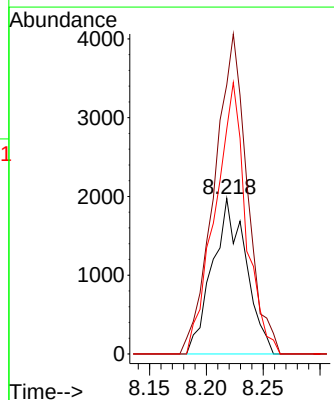
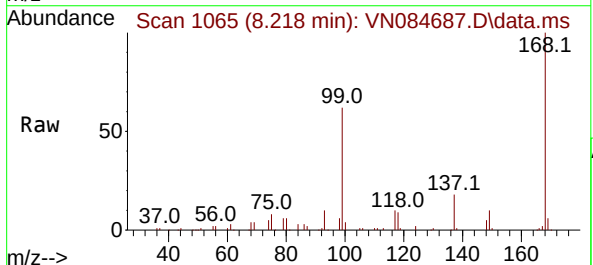
RT: 8.218 min Scan# 1065

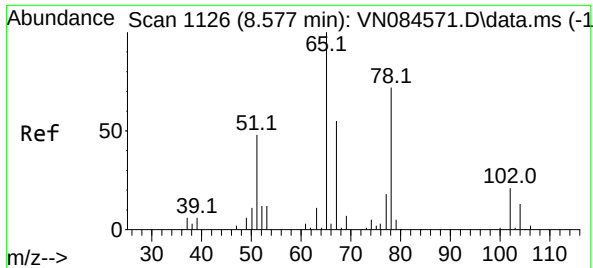
Delta R.T. -0.035 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 56    | Resp: | 4048   |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 173.1 | 23.8  | 35.6#  |
| 84        | 144.7 | 68.8  | 103.2# |

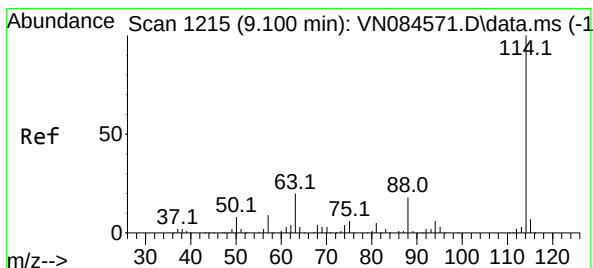
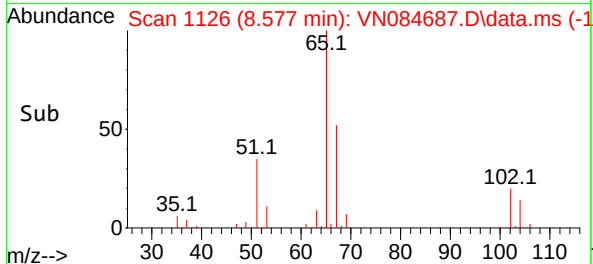
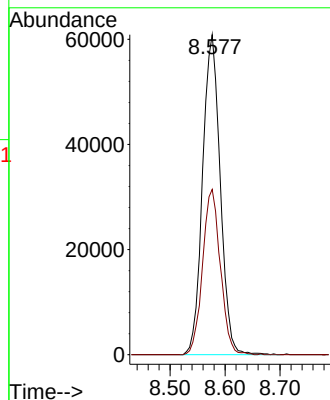
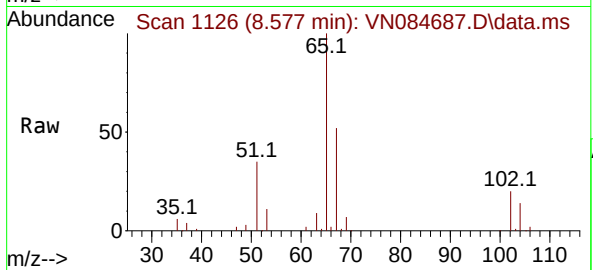




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.730 ug/l  
 RT: 8.577 min Scan# 1126  
 Delta R.T. -0.000 min  
 Lab File: VN084687.D  
 Acq: 05 Nov 2024 14:59

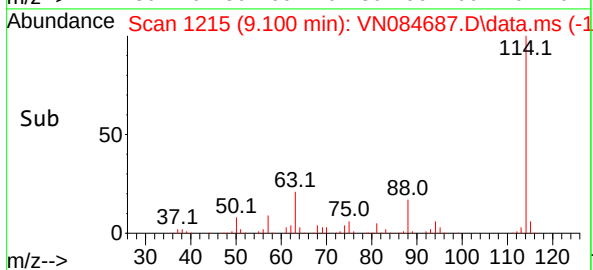
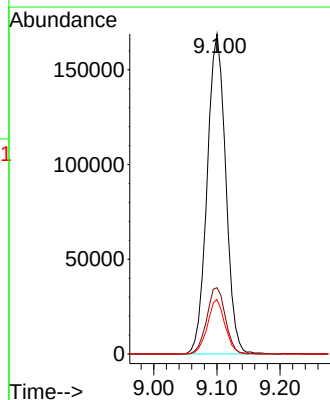
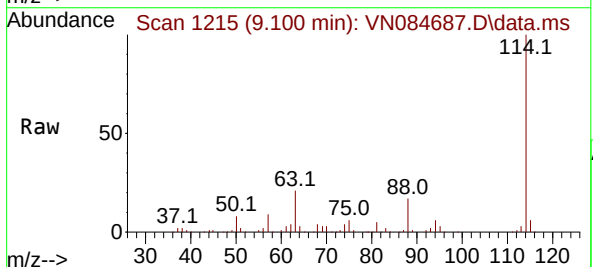
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion: 65 Resp: 135857  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 102.0

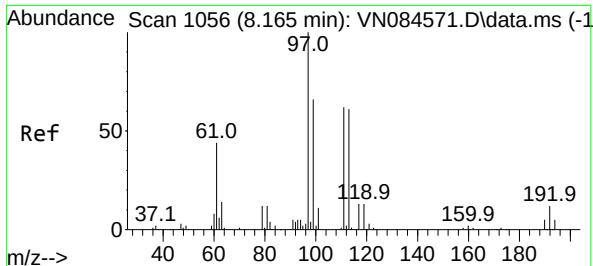


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. 0.000 min  
 Lab File: VN084687.D  
 Acq: 05 Nov 2024 14:59

Tgt Ion: 114 Resp: 344413  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 43.8  
 88 17.0 0.0 31.6







#35

Dibromofluoromethane

Concen: 47.214 ug/l

RT: 8.165 min Scan# 110

Delta R.T. 0.000 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

Instrument :

MSVOA\_N

ClientSampleId :

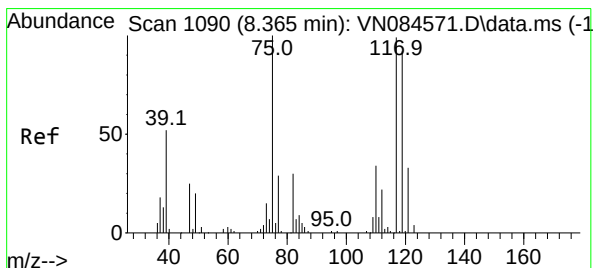
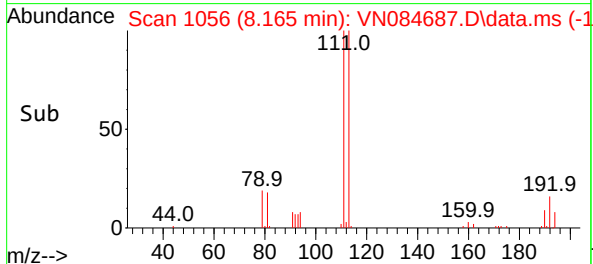
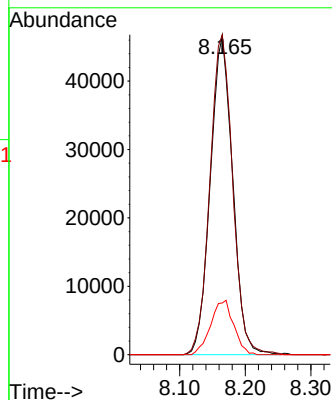
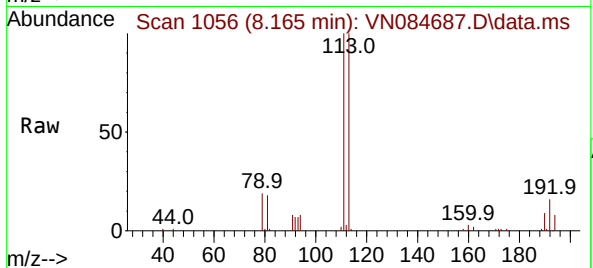
Tgt Ion:113 Resp: 110067

Ion Ratio Lower Upper

113 100

111 102.1 83.3 124.9

192 17.6 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.925 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

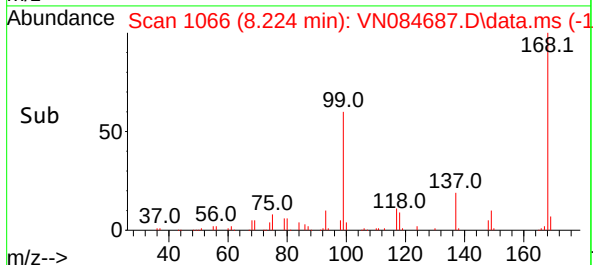
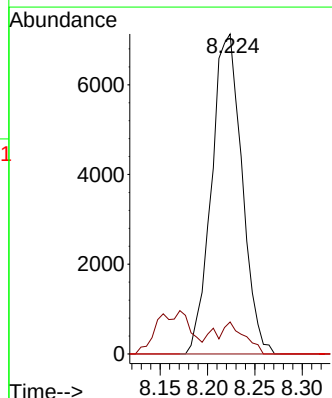
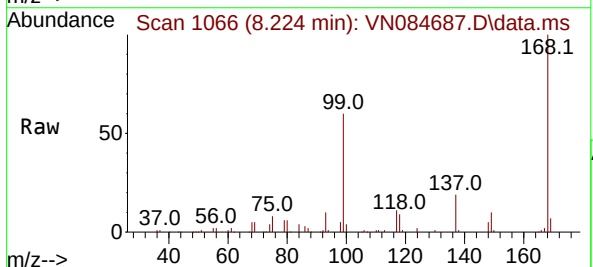
Tgt Ion: 75 Resp: 15922

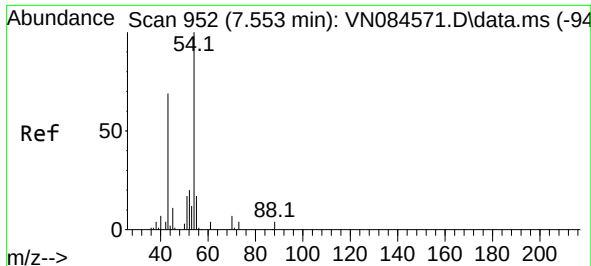
Ion Ratio Lower Upper

75 100

110 9.8 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.985 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

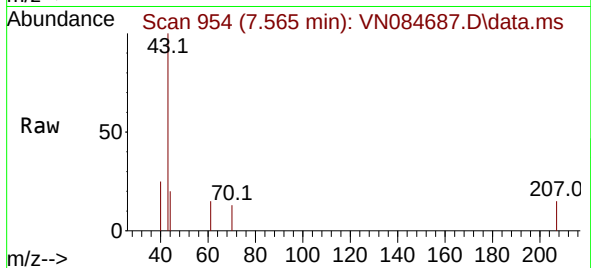
Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

Instrument :

MSVOA\_N

ClientSampleId :



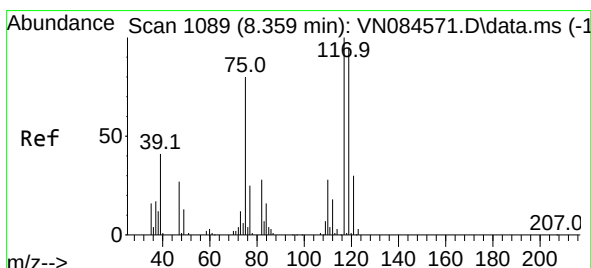
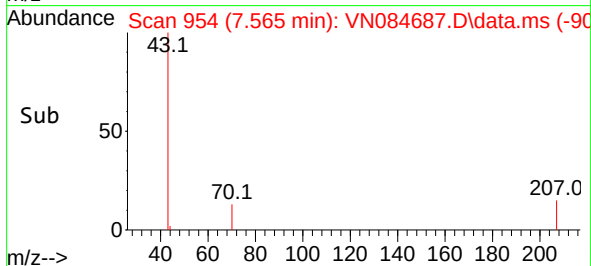
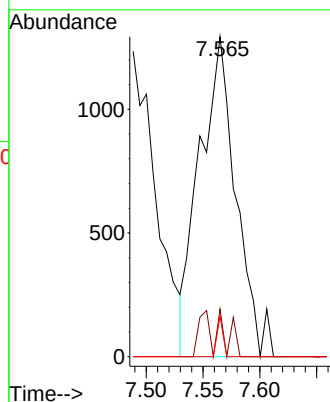
Tgt Ion: 43 Resp: 2888

Ion Ratio Lower Upper

43 100

61 4.2 10.7 16.1#

70 2.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.882 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

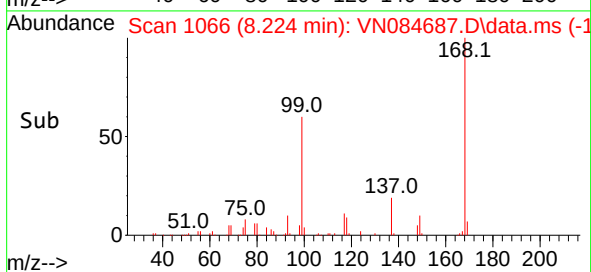
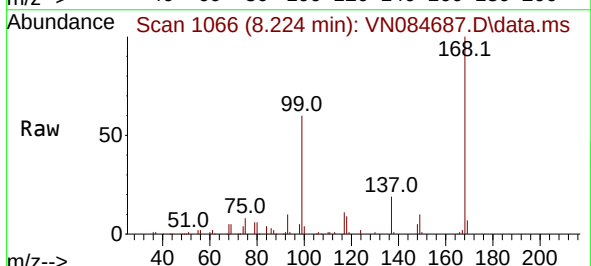
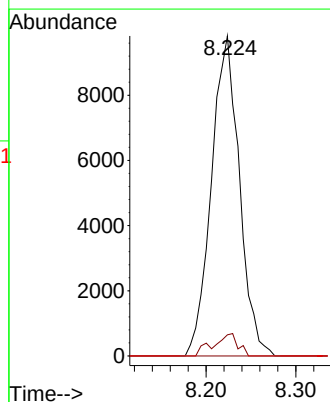
Tgt Ion: 117 Resp: 21256

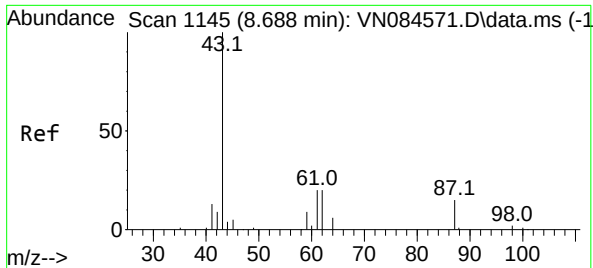
Ion Ratio Lower Upper

117 100

119 6.6 78.7 118.1#

121 0.0 24.4 36.6#

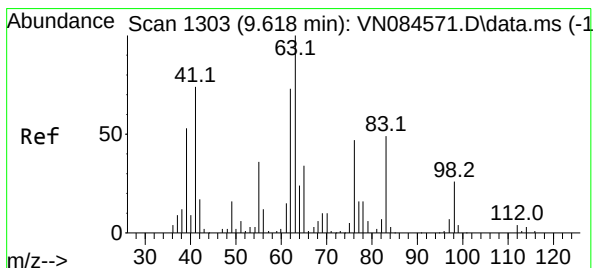
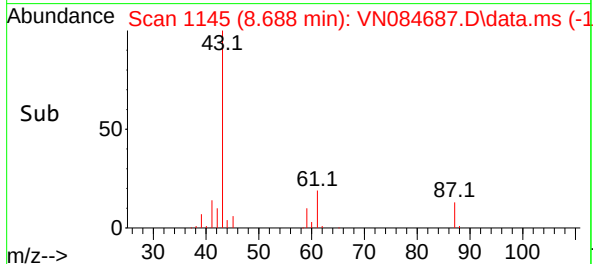
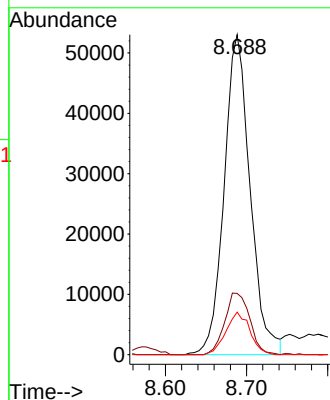
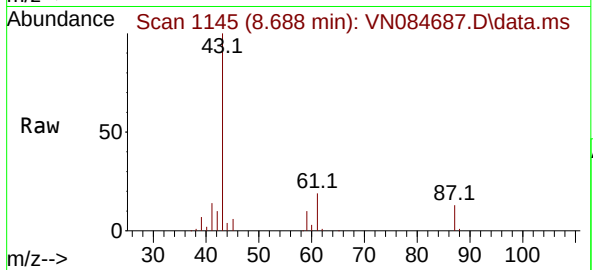




#43  
Isopropyl Acetate  
Concen: 21.230 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

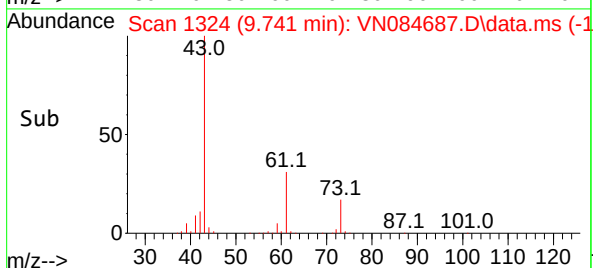
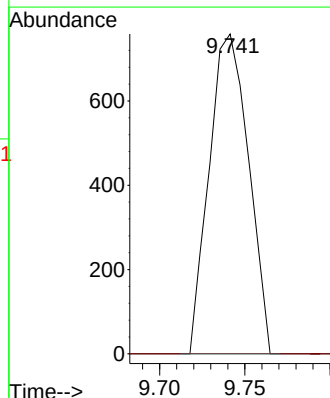
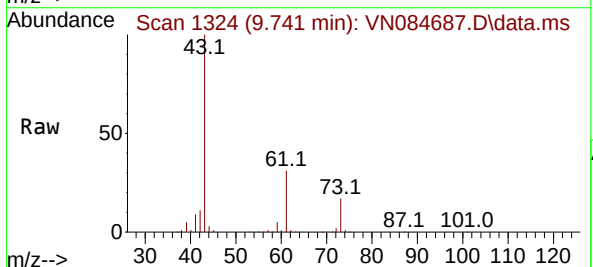
Instrument :  
MSVOA\_N  
ClientSampleId :

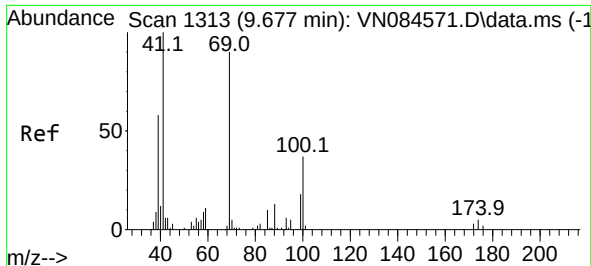
Tgt Ion: 43 Resp: 118063  
Ion Ratio Lower Upper  
43 100  
61 18.6 20.4 30.6#  
87 12.2 10.3 15.5



#45  
1,2-Dichloropropane  
Concen: 0.501 ug/l  
RT: 9.741 min Scan# 1324  
Delta R.T. 0.123 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

Tgt Ion: 63 Resp: 1221  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.6 37.0#

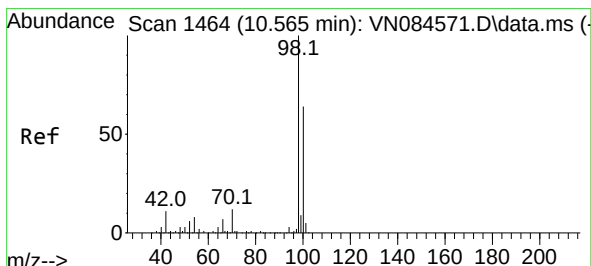
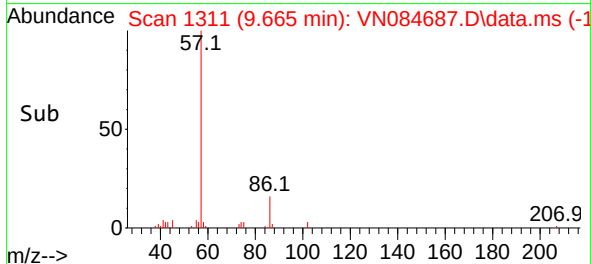
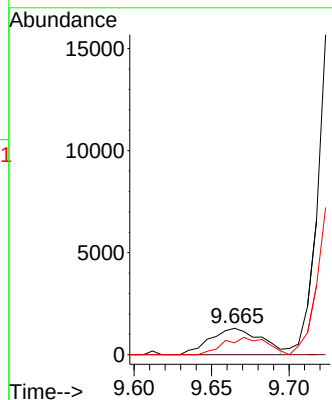
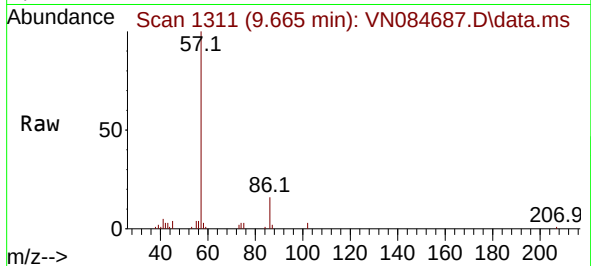




#48  
Methyl methacrylate  
Concen: 1.294 ug/l  
RT: 9.665 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

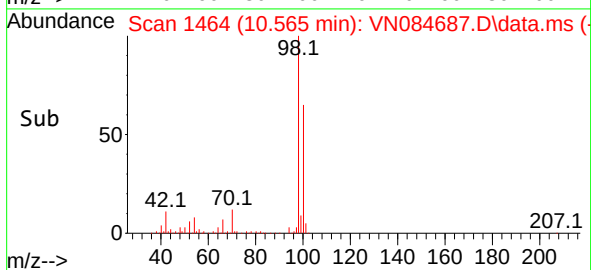
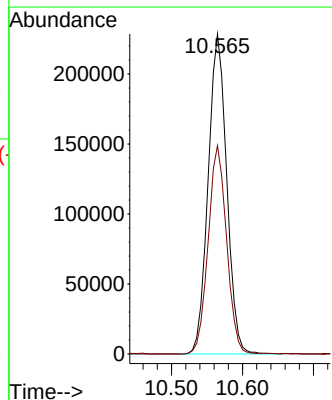
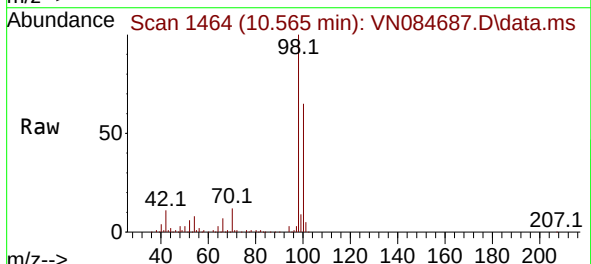
Instrument :  
MSVOA\_N  
ClientSampleId :

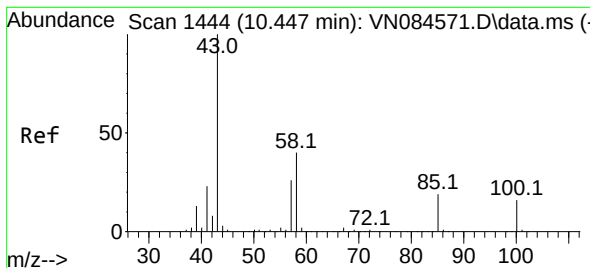
Tgt Ion: 41 Resp: 2955  
Ion Ratio Lower Upper  
41 100  
69 0.0 67.1 100.7#  
39 55.3 45.8 68.6



#50  
Toluene-d8  
Concen: 48.328 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

Tgt Ion: 98 Resp: 415024  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.7 79.1

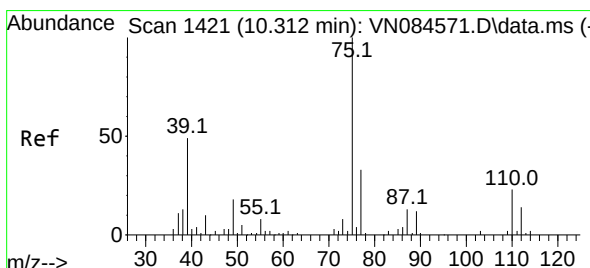
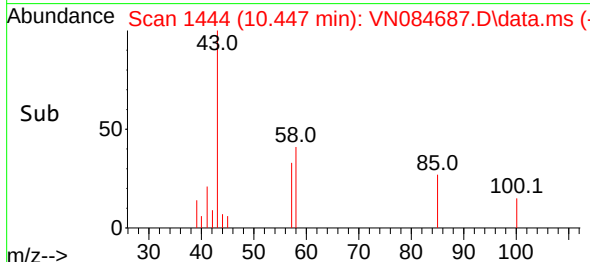
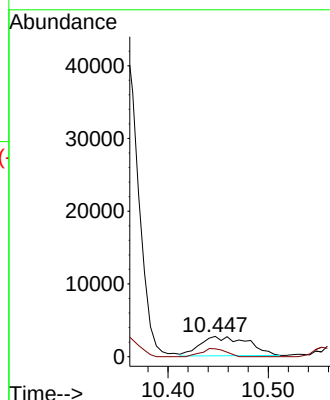
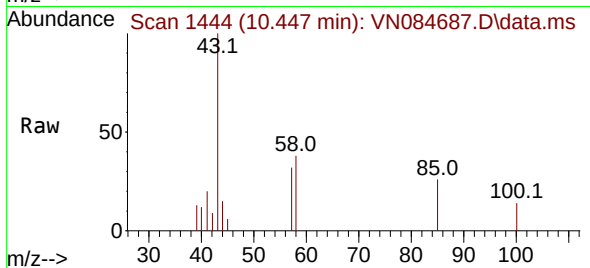




#51  
4-Methyl-2-Pentanone  
Concen: 3.180 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.006 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

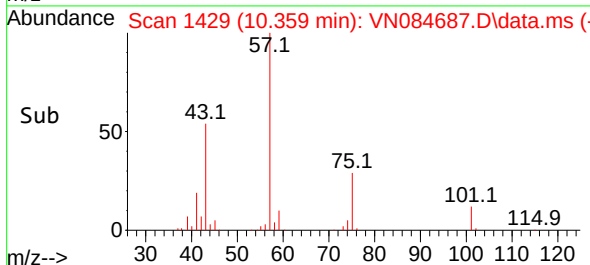
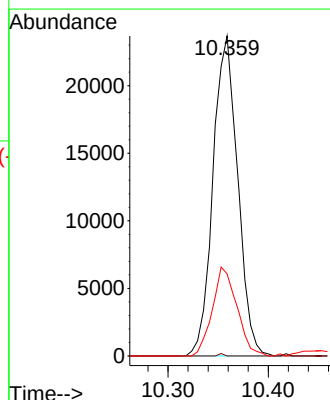
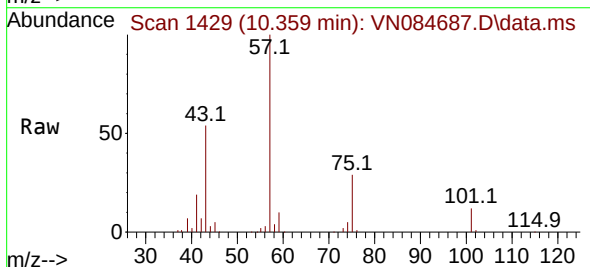
Instrument :  
MSVOA\_N  
ClientSampleId :

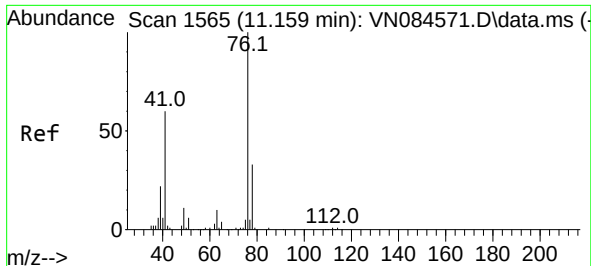
Tgt Ion: 43 Resp: 8893  
Ion Ratio Lower Upper  
43 100  
58 21.1 31.6 47.4#



#54  
cis-1,3-Dichloropropene  
Concen: 10.197 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.047 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

Tgt Ion: 75 Resp: 40472  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.2 36.2#  
39 25.7 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 1.361 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

Instrument :

MSVOA\_N

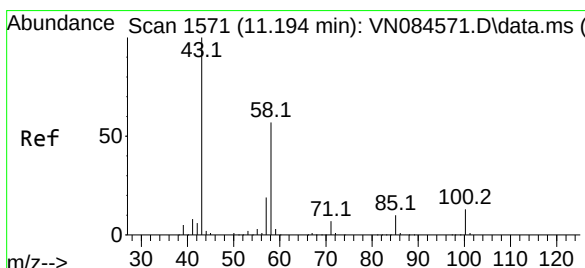
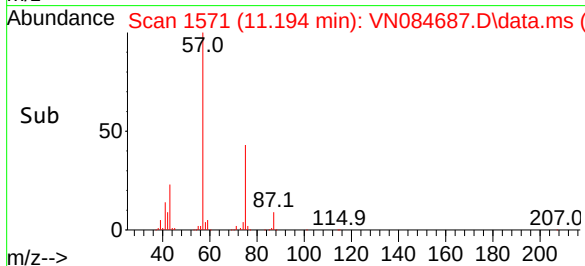
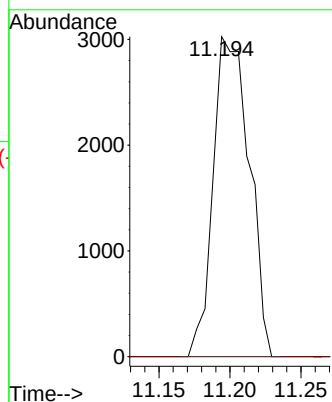
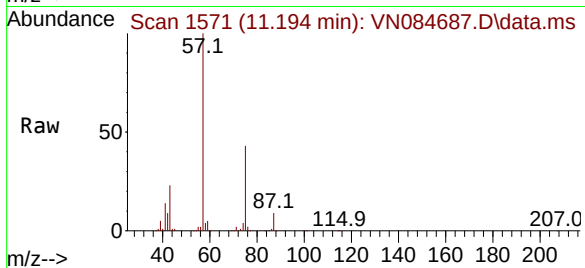
ClientSampleId :

Tgt Ion: 76 Resp: 5343

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 47.739 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN084687.D

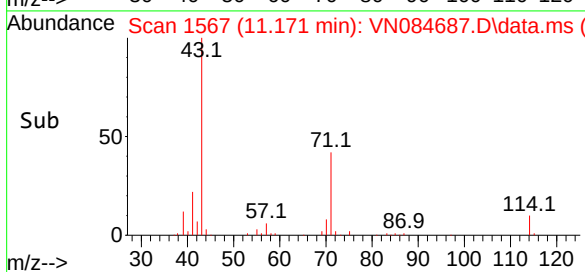
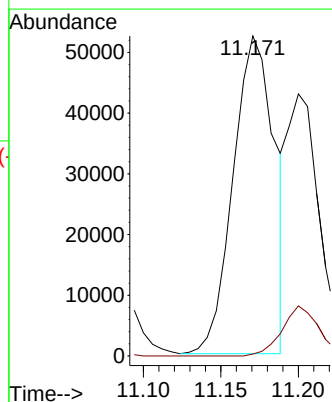
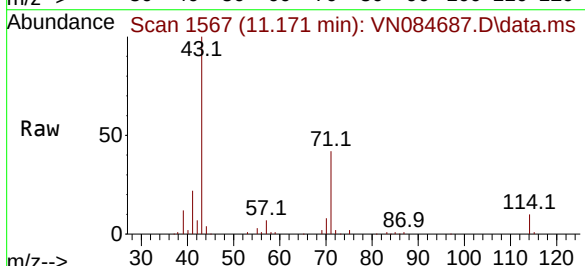
Acq: 05 Nov 2024 14:59

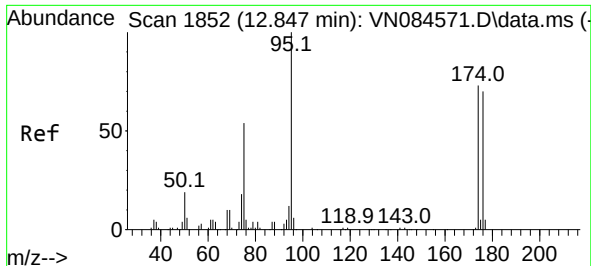
Tgt Ion: 43 Resp: 97172

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#

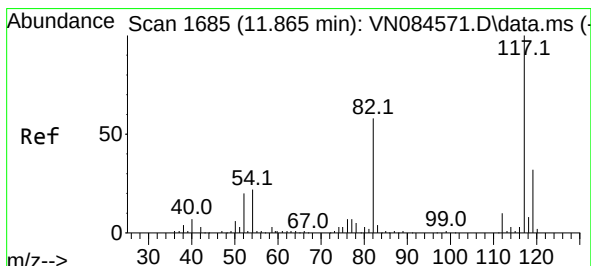
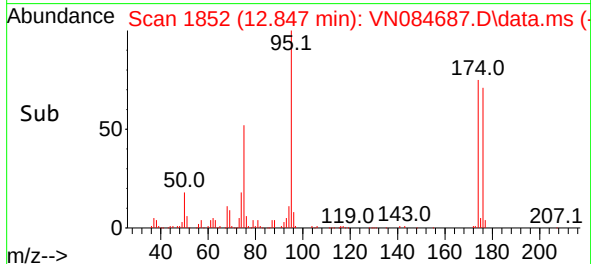
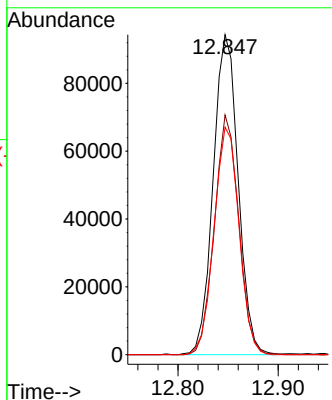
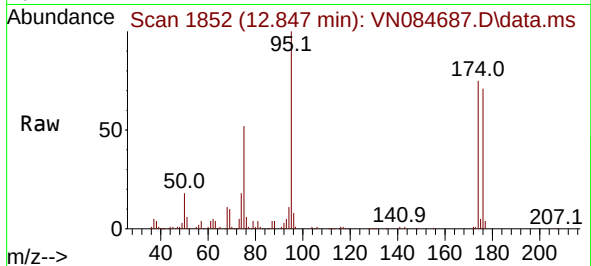




#62  
4-Bromofluorobenzene  
Concen: 50.760 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

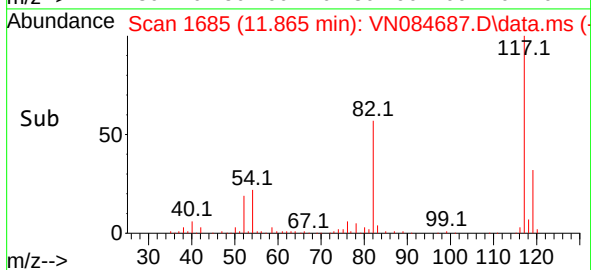
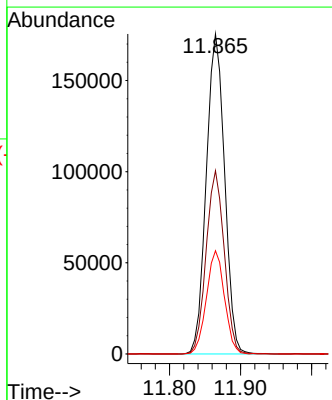
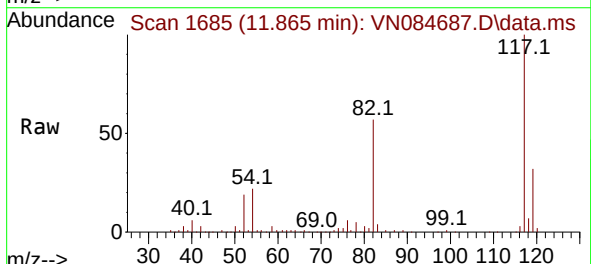
Instrument :  
MSVOA\_N  
ClientSampleId :

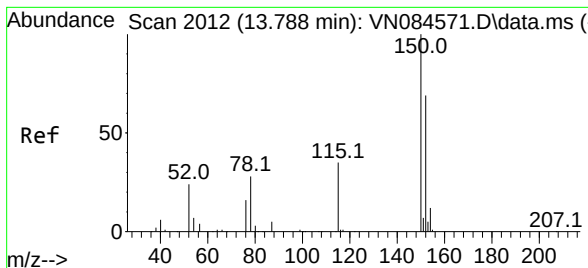
Tgt Ion: 95 Resp: 162914  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 145.2  
176 71.2 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

Tgt Ion: 117 Resp: 314716  
Ion Ratio Lower Upper  
117 100  
82 57.3 47.2 70.8  
119 32.3 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

Instrument :

MSVOA\_N

ClientSampleId :

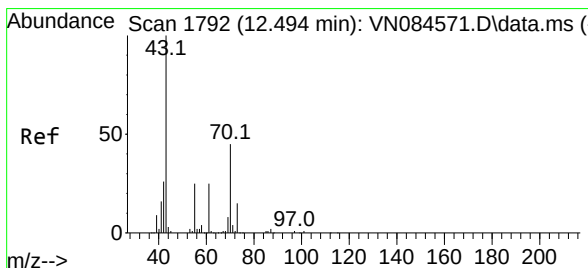
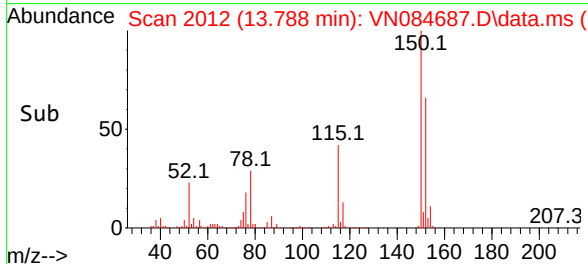
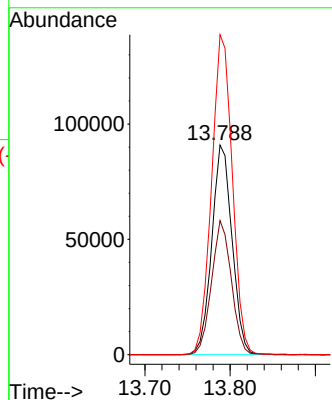
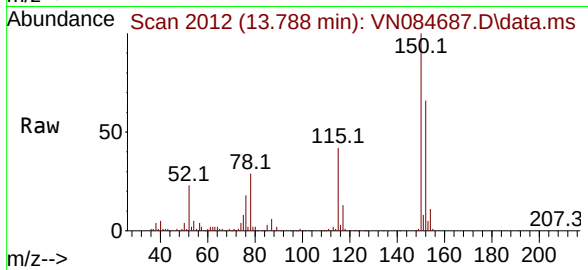
Tgt Ion:152 Resp: 150477

Ion Ratio Lower Upper

152 100

115 62.6 31.3 93.9

150 156.0 0.0 349.8



#74

N-ethyl acetate

Concen: 0.328 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.012 min

Lab File: VN084687.D

Acq: 05 Nov 2024 14:59

Tgt Ion: 43 Resp: 1471

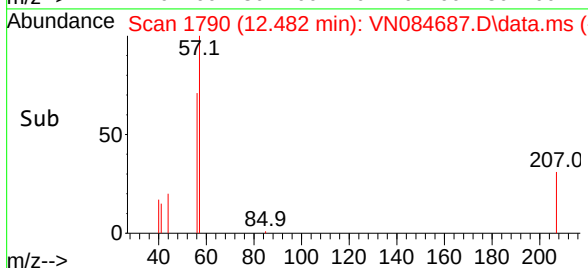
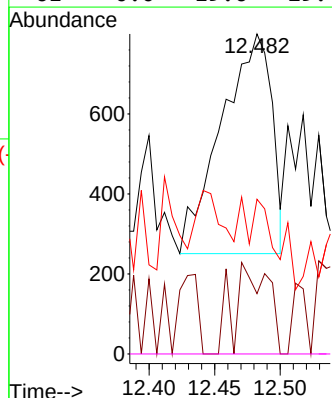
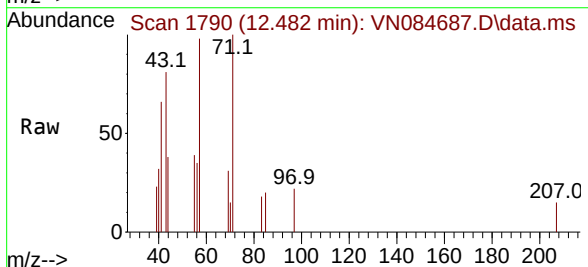
Ion Ratio Lower Upper

43 100

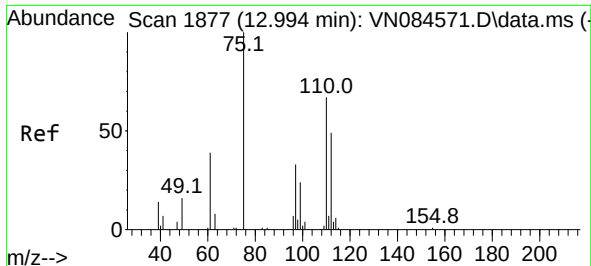
70 27.9 34.4 51.6#

55 2.9 19.6 29.4#

61 0.0 19.6 29.4#



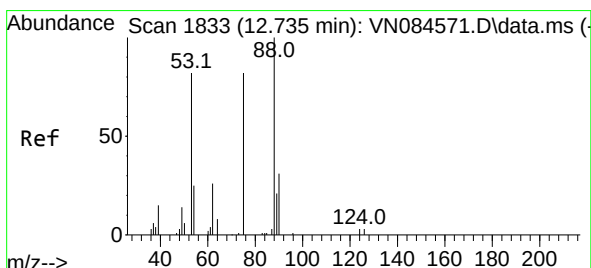
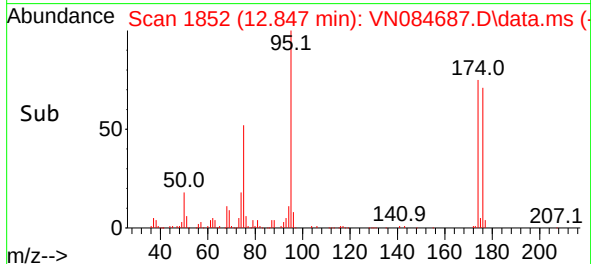
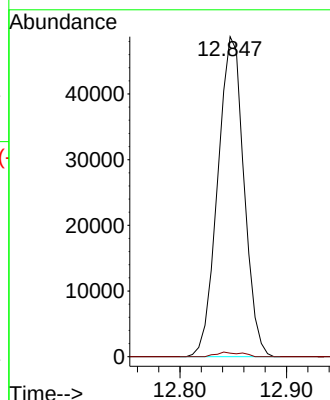
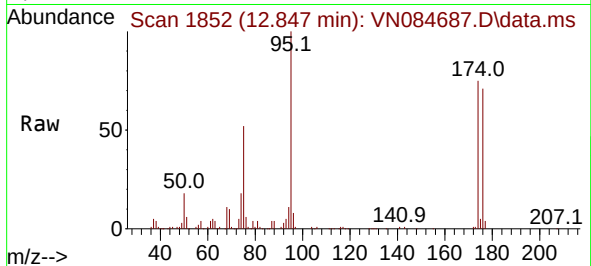




#76  
1,2,3-Trichloropropane  
Concen: 27.708 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

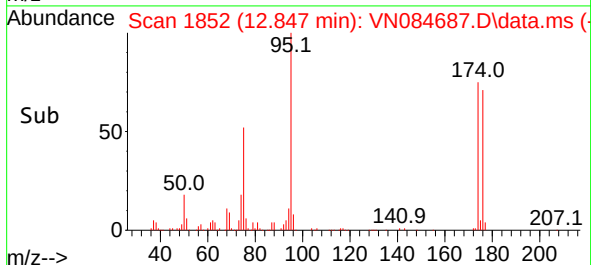
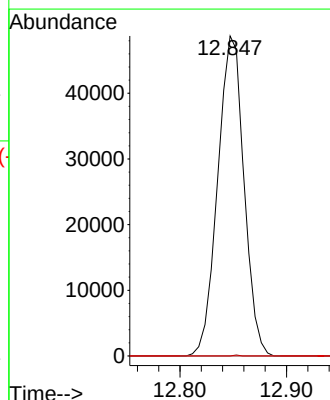
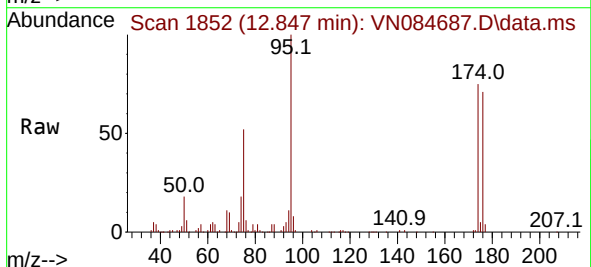
Instrument :  
MSVOA\_N  
ClientSampleId :

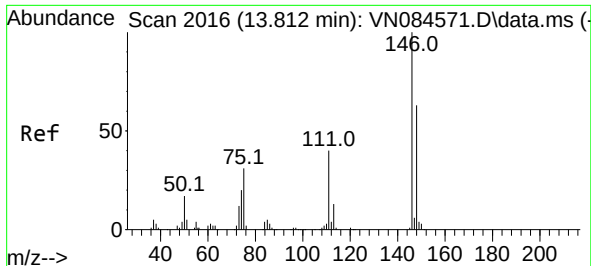
Tgt Ion: 75 Resp: 83346  
Ion Ratio Lower Upper  
75 100  
77 1.4 96.9 290.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.736 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

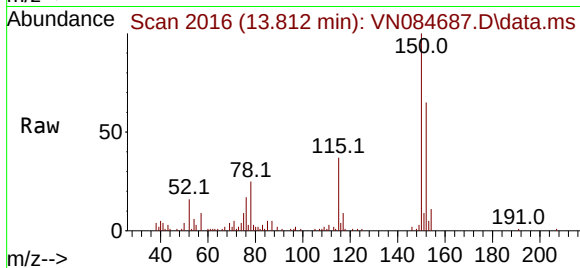
Tgt Ion: 75 Resp: 83346  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 35.5 53.3#



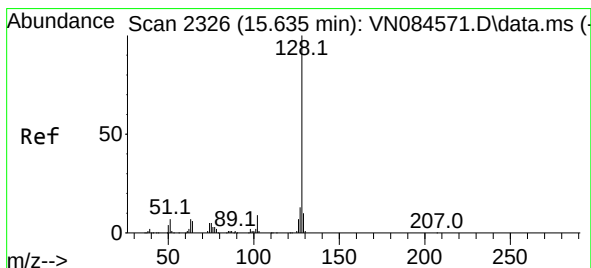
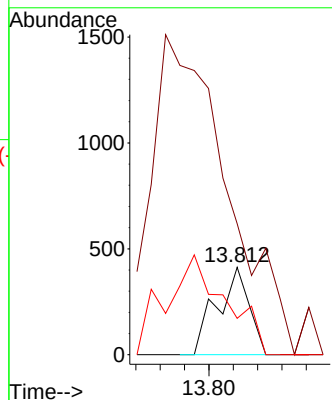
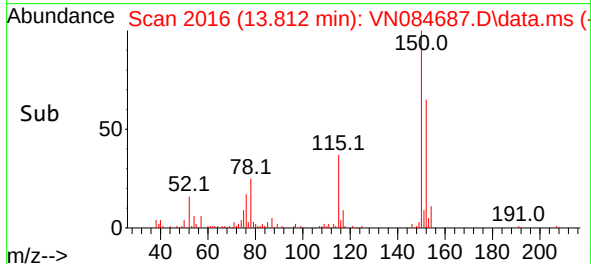


#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.812 min Scan# 2016  
Delta R.T. -0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59

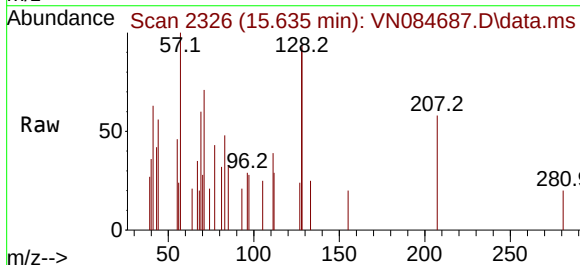
Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:146 Resp: 377  
Ion Ratio Lower Upper  
146 100  
111 0.0 21.2 63.6#  
148 0.0 31.9 95.9#



#95  
Naphthalene  
Concen: 0.321 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. 0.000 min  
Lab File: VN084687.D  
Acq: 05 Nov 2024 14:59



Tgt Ion:128 Resp: 2793  
Ion Ratio Lower Upper  
128 100  
127 10.3 10.5 15.7#  
129 2.9 8.7 13.1#

