

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102924\  
 Data File : VN084563.D  
 Acq On : 29 Oct 2024 14:53  
 Operator : JC\MD  
 Sample : P4574-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

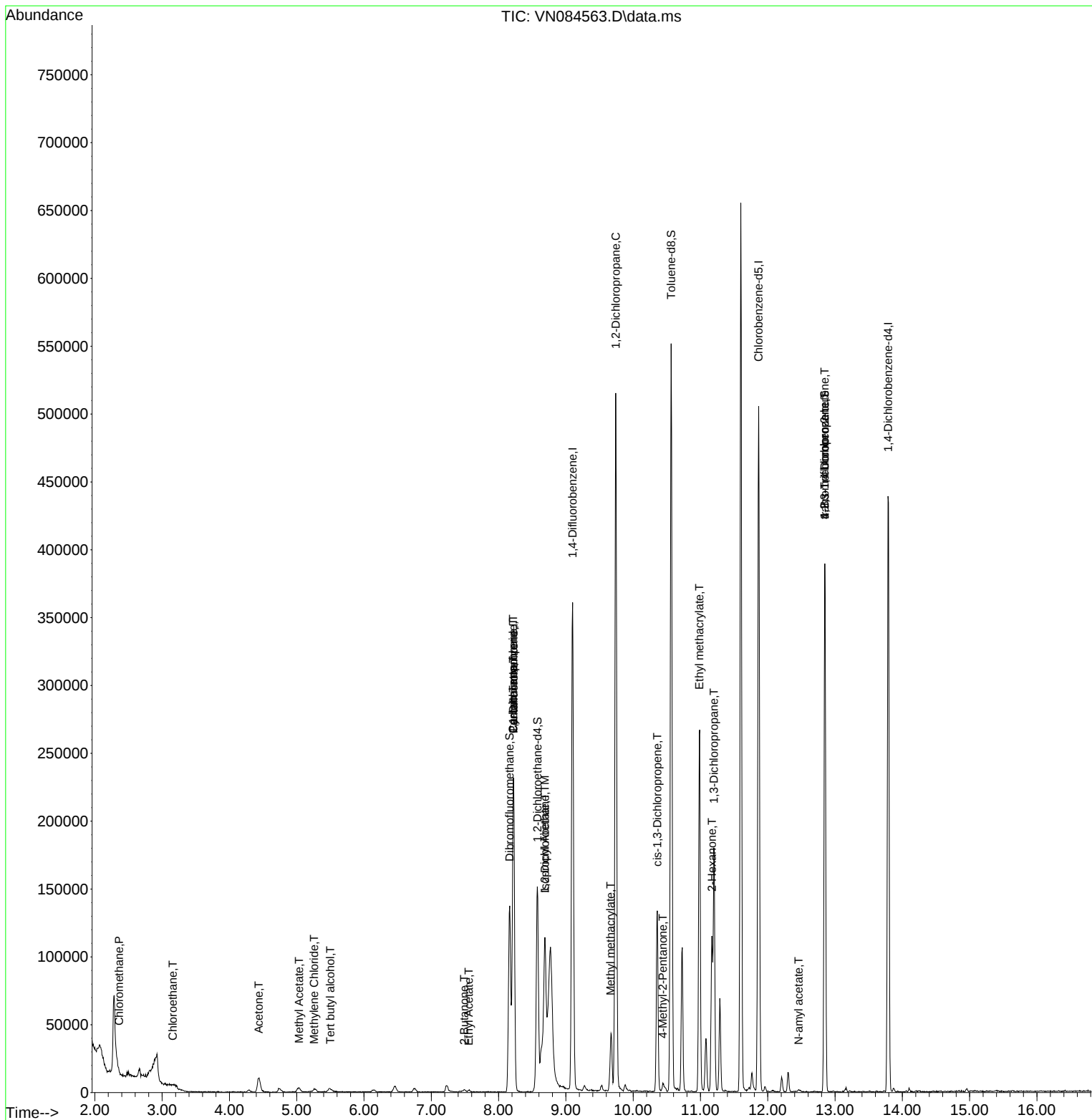
Instrument :  
 MSVOA\_N  
 ClientSampleId :

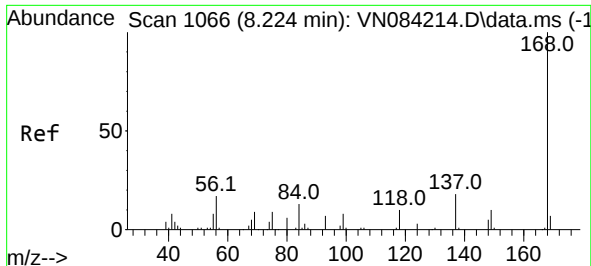
Quant Time: Oct 30 05:03:43 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168            | 167698   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 310651   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 285743   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 120529   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65             | 127467   | 51.265     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 102.520% |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 98944    | 48.312     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 96.620%  |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 370348   | 49.151     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 98.300%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 136012   | 49.549     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 99.100%  |        |          |
| Target Compounds              |        |                |          |            |        | Qvalue   |
| 3) Chloromethane              | 2.359  | 50             | 763      | 0.337      | ug/l # | 41       |
| 6) Chloroethane               | 3.159  | 64             | 8504     | 5.412      | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.500  | 59             | 2904     | 7.083      | ug/l # | 73       |
| 16) Acetone                   | 4.436  | 43             | 20913    | 19.579     | ug/l   | 98       |
| 18) Methyl Acetate            | 5.036  | 43             | 6895     | 2.962      | ug/l # | 90       |
| 20) Methylene Chloride        | 5.259  | 84             | 1826     | 0.841      | ug/l # | 77       |
| 25) 2-Butanone                | 7.488  | 43             | 3621     | 2.489      | ug/l # | 77       |
| 31) Cyclohexane               | 8.218  | 56             | 3767     | 1.023      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.218  | 75             | 14233    | 4.785      | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.559  | 43             | 2003     | 0.656      | ug/l # | 77       |
| 38) Carbon Tetrachloride      | 8.218  | 117            | 18036    | 5.527      | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.688  | 62             | 859      | 0.273      | ug/l # | 75       |
| 43) Isopropyl Acetate         | 8.688  | 43             | 167827   | 28.075     | ug/l # | 76       |
| 45) 1,2-Dichloropropane       | 9.741  | 63             | 679      | 0.310      | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.665  | 41             | 2907     | 1.222      | ug/l # | 44       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43             | 6800     | 2.341      | ug/l # | 69       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75             | 24102    | 6.687      | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.982 | 69             | 1814     | 0.544      | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76             | 1619     | 0.447      | ug/l # | 42       |
| 59) 2-Hexanone                | 11.170 | 43             | 112238   | 51.688     | ug/l # | 24       |
| 74) N-amyl acetate            | 12.459 | 43             | 2271     | 0.545      | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 71724    | 29.149     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 71724    | 69.882     | ug/l # | 11       |

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

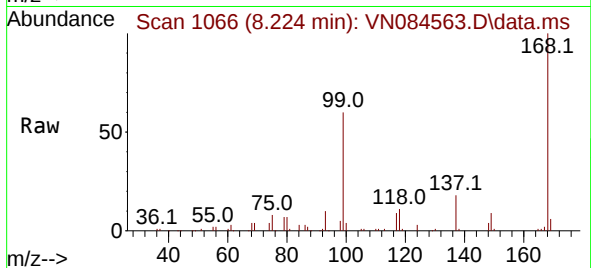
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Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 2024  
Response via : Initial Calibration



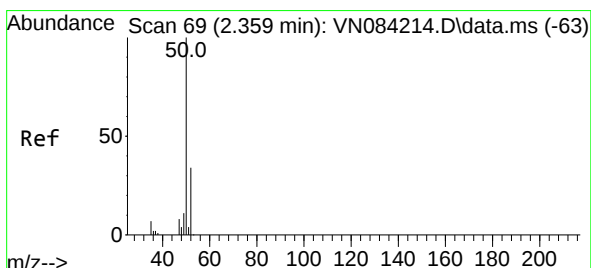
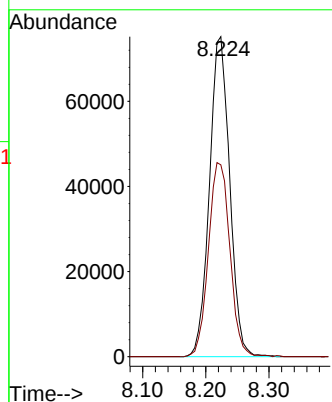
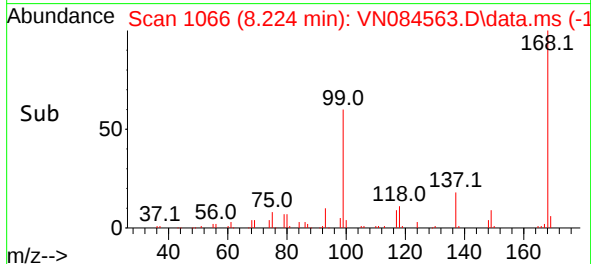


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Instrument :  
MSVOA\_N  
ClientSampleId :

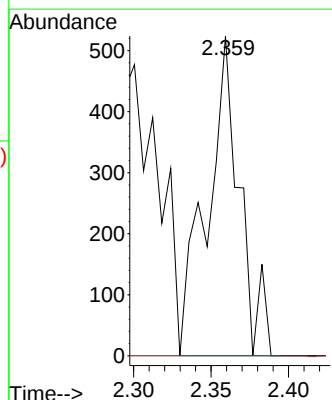
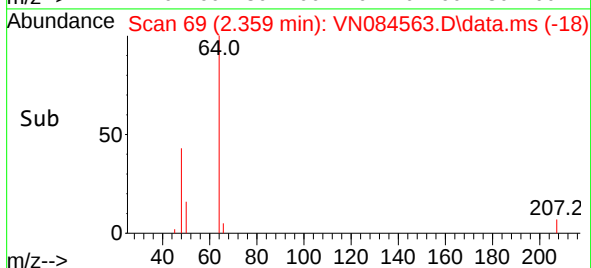
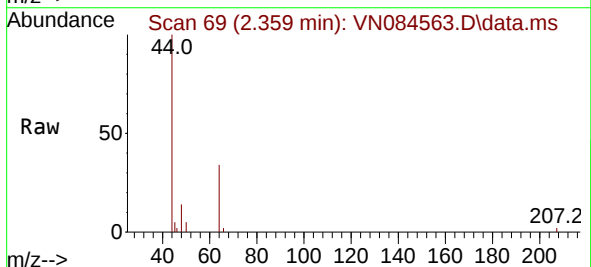


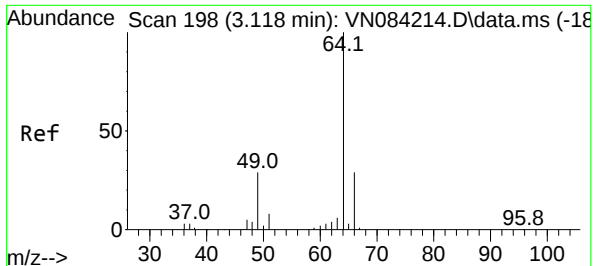
Tgt Ion:168 Resp: 167698  
Ion Ratio Lower Upper  
168 100  
99 59.9 54.2 81.2



#3  
Chloromethane  
Concen: 0.337 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. -0.000 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Tgt Ion: 50 Resp: 763  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

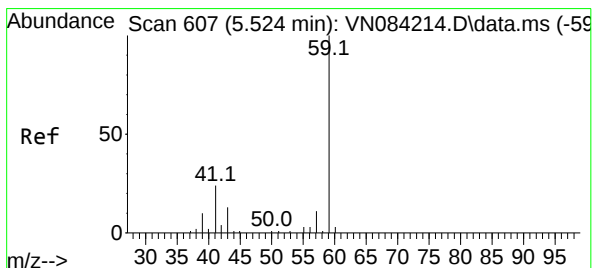
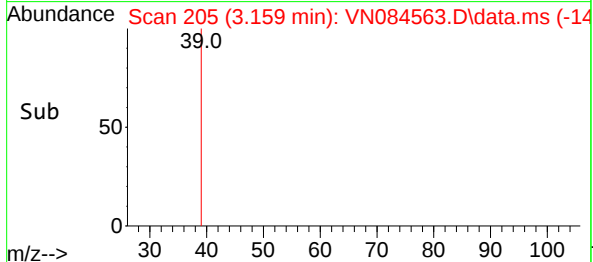
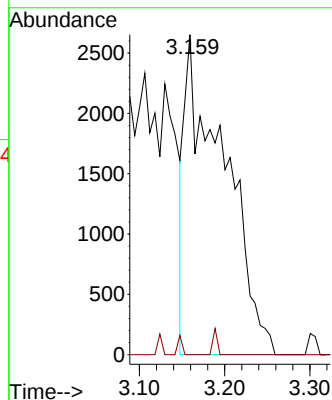
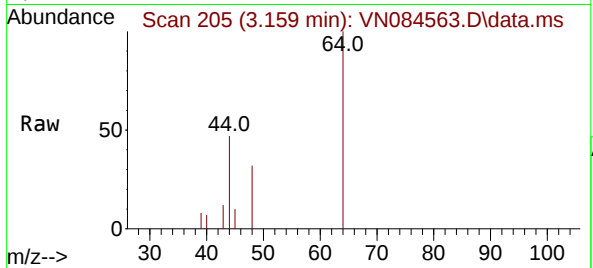




#6  
Chloroethane  
Concen: 5.412 ug/l  
RT: 3.159 min Scan# 20  
Delta R.T. 0.041 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

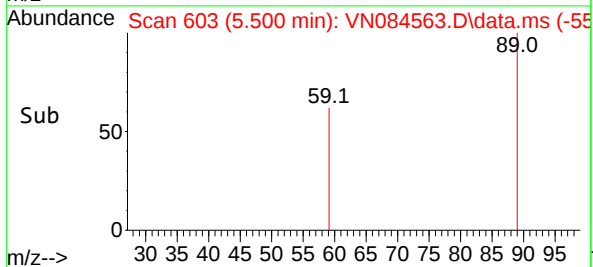
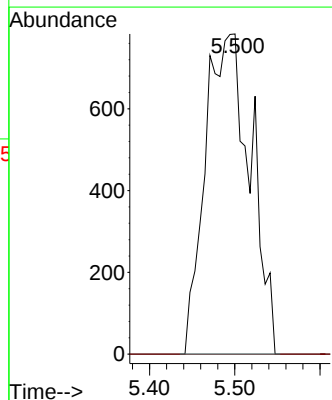
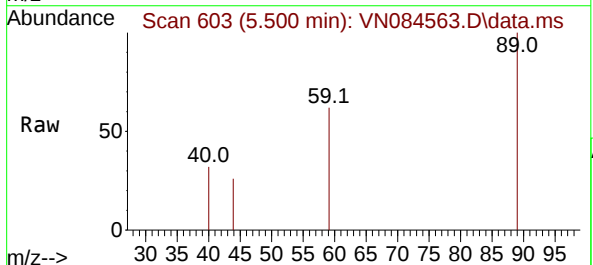
Instrument :  
MSVOA\_N  
ClientSampleId :

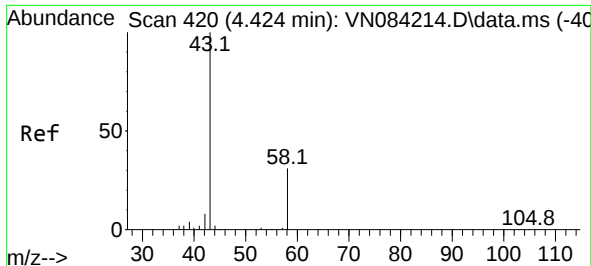
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Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#11  
Tert butyl alcohol  
Concen: 7.083 ug/l  
RT: 5.500 min Scan# 603  
Delta R.T. -0.024 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Tgt Ion: 59 Resp: 2904  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

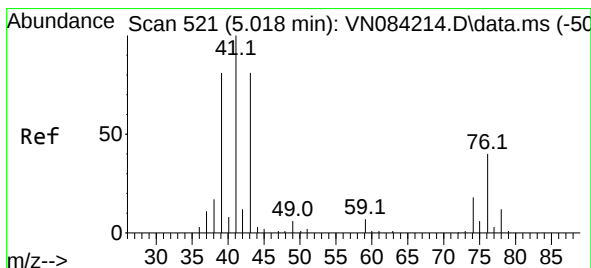
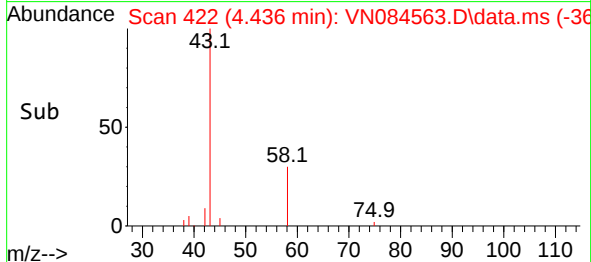
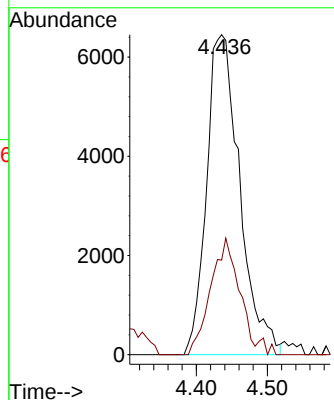
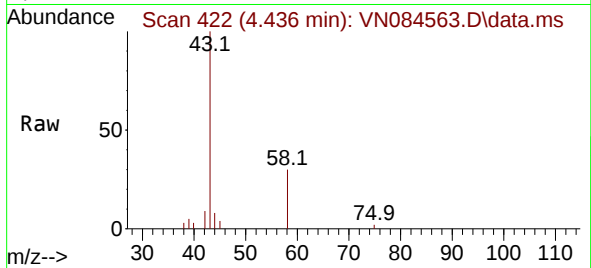




#16  
Acetone  
Concen: 19.579 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

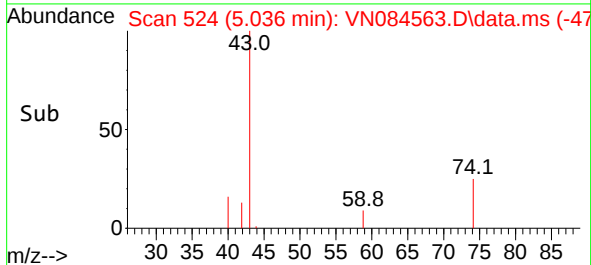
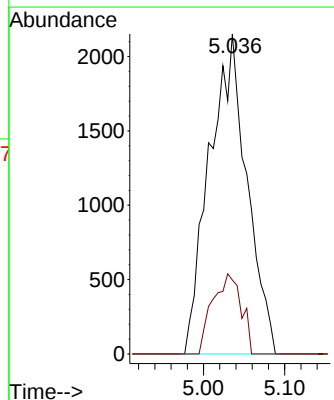
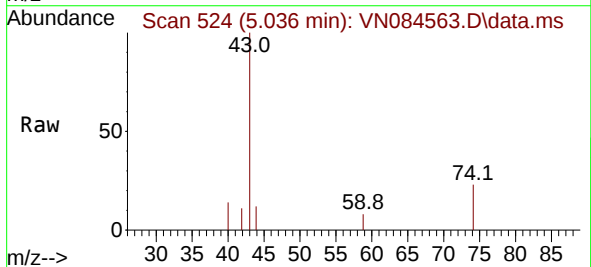
Instrument :  
MSVOA\_N  
ClientSampleId :

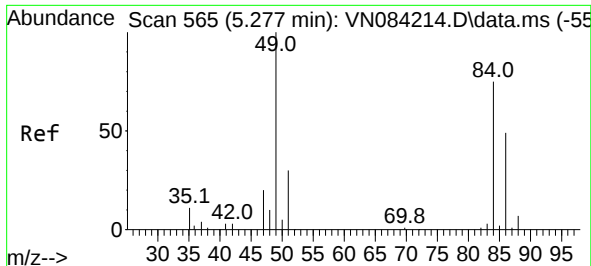
Tgt Ion: 43 Resp: 20913  
Ion Ratio Lower Upper  
43 100  
58 29.5 24.4 36.6



#18  
Methyl Acetate  
Concen: 2.962 ug/l  
RT: 5.036 min Scan# 524  
Delta R.T. 0.018 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

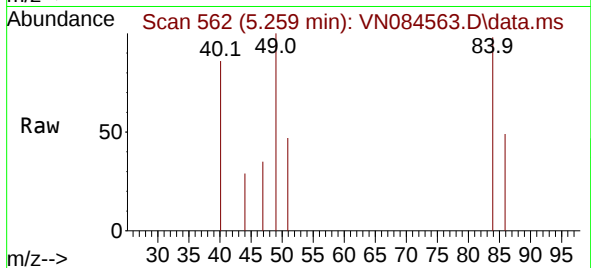
Tgt Ion: 43 Resp: 6895  
Ion Ratio Lower Upper  
43 100  
74 19.1 19.2 28.8#



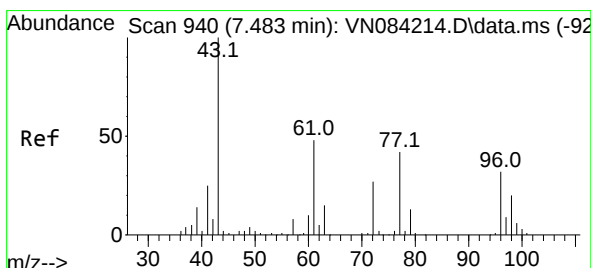
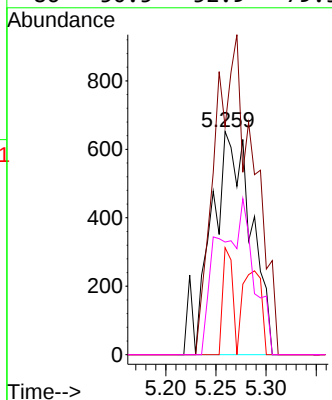
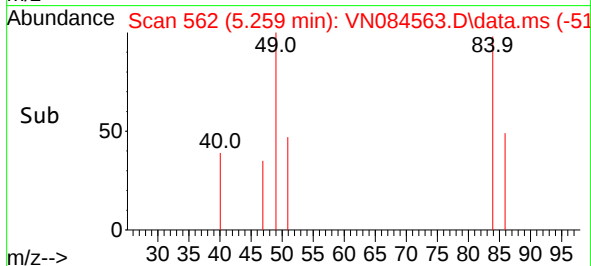


#20  
Methylene Chloride  
Concen: 0.841 ug/l  
RT: 5.259 min Scan# 51  
Delta R.T. -0.018 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Instrument :  
MSVOA\_N  
ClientSampleId :

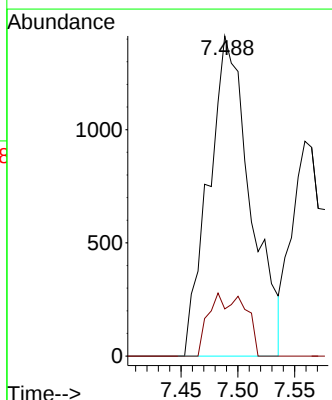
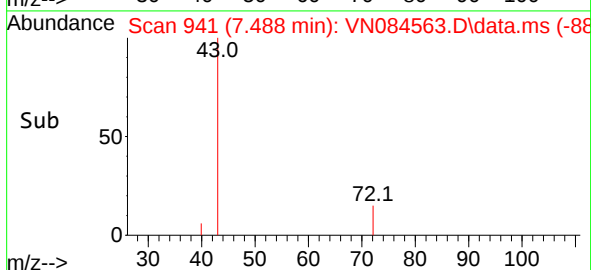
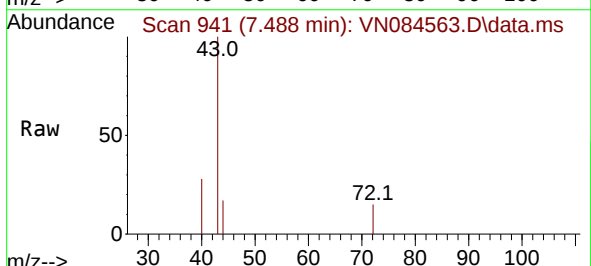


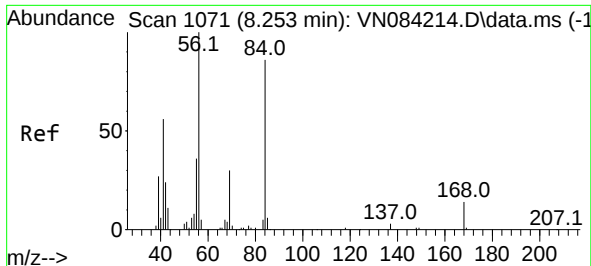
|             |              |
|-------------|--------------|
| Tgt Ion: 84 | Resp: 1826   |
| Ion Ratio   | Lower Upper  |
| 84 100      |              |
| 49 102.1    | 107.2 160.8# |
| 51 48.0     | 31.8 47.8#   |
| 86 50.5     | 52.9 79.3#   |



#25  
2-Butanone  
Concen: 2.489 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 43 | Resp: 3621 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 43 100      |            |       |  |
| 72 14.7     | 21.4       | 32.2# |  |





#31

Cyclohexane

Concen: 1.023 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

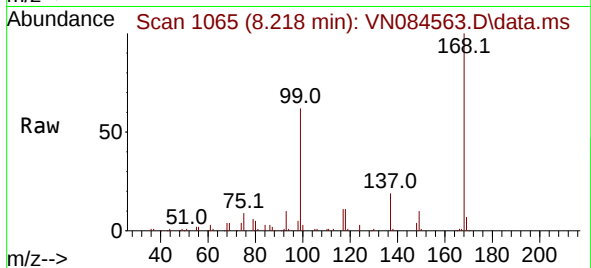
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Acq: 29 Oct 2024 14:53

Instrument :

MSVOA\_N

ClientSampleId :



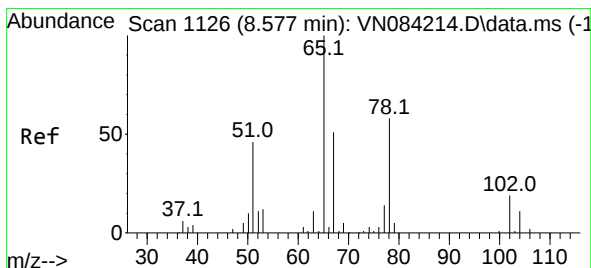
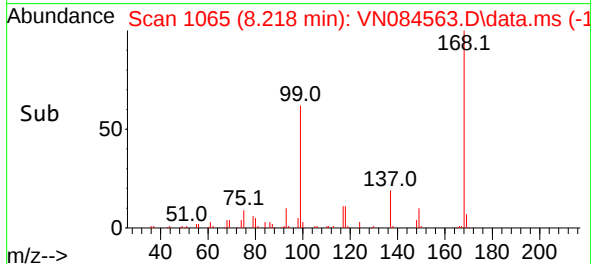
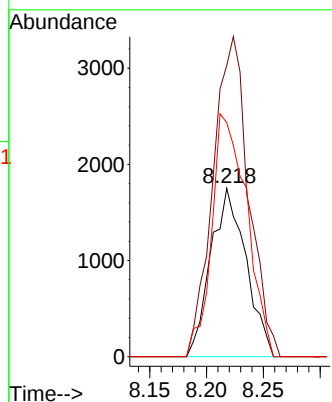
Tgt Ion: 56 Resp: 3767

Ion Ratio Lower Upper

56 100

69 173.0 23.8 35.6#

84 138.9 68.8 103.2#



#33

1,2-Dichloroethane-d4

Concen: 51.265 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084563.D

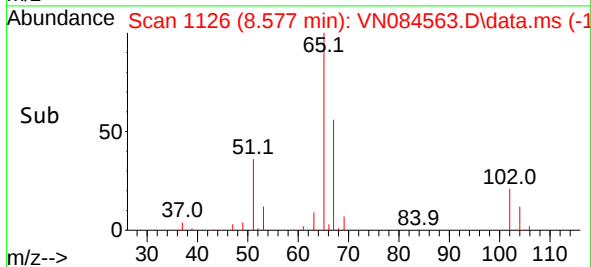
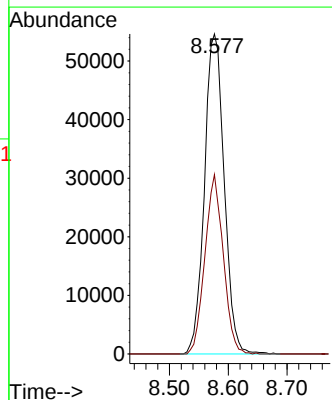
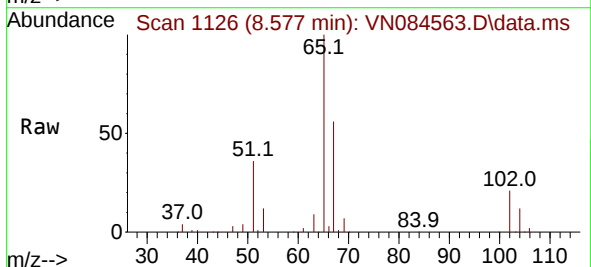
Acq: 29 Oct 2024 14:53

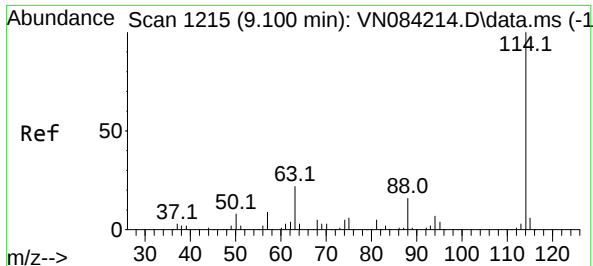
Tgt Ion: 65 Resp: 127467

Ion Ratio Lower Upper

65 100

67 52.2 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084563.D

Acq: 29 Oct 2024 14:53

Instrument :

MSVOA\_N

ClientSampleId :

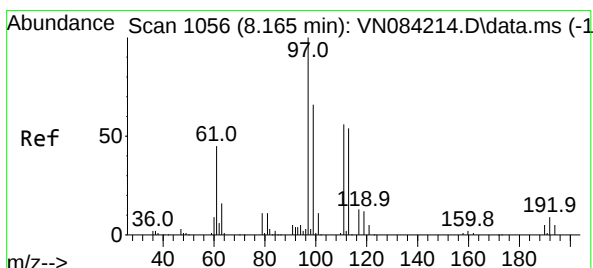
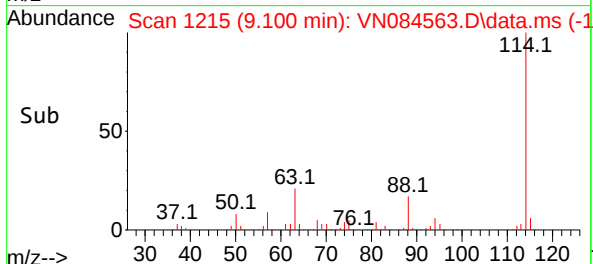
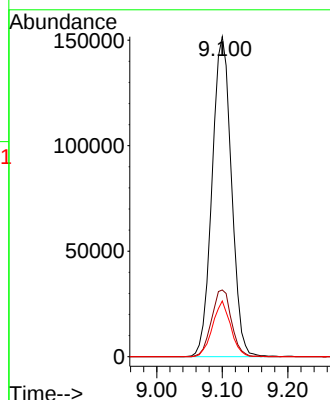
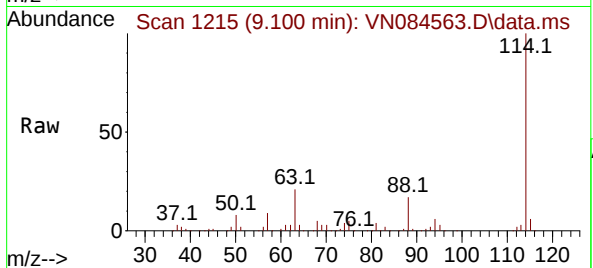
Tgt Ion:114 Resp: 310651

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.8

88 17.4 0.0 31.6



#35

Dibromofluoromethane

Concen: 48.312 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084563.D

Acq: 29 Oct 2024 14:53

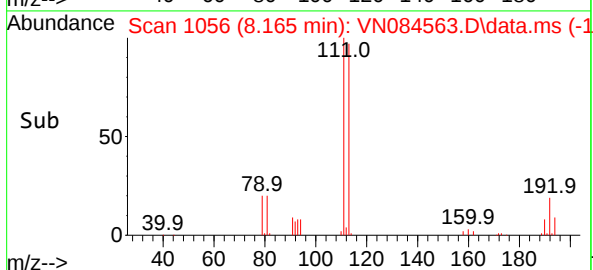
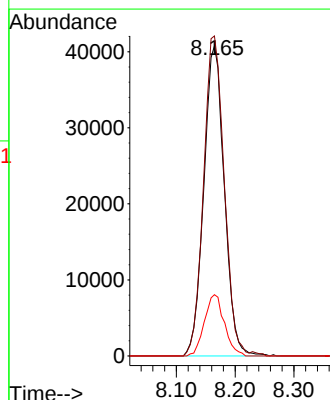
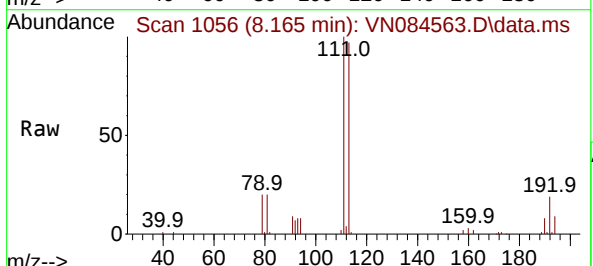
Tgt Ion:113 Resp: 98944

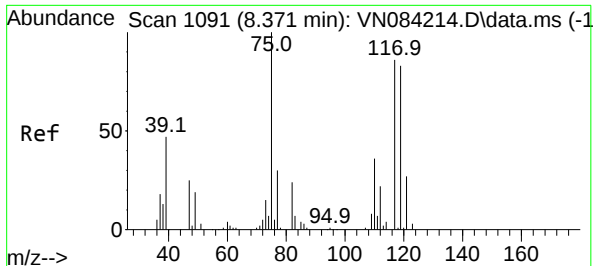
Ion Ratio Lower Upper

113 100

111 104.1 83.3 124.9

192 19.2 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.785 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

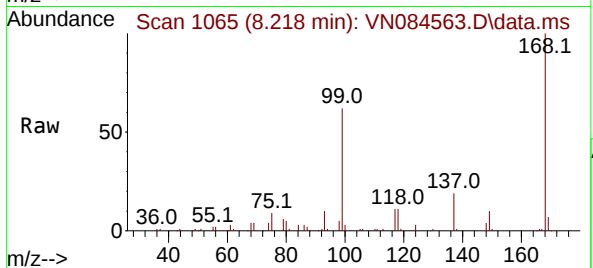
Lab File: VN084563.D

Acq: 29 Oct 2024 14:53

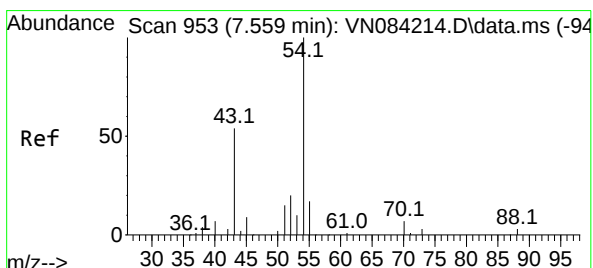
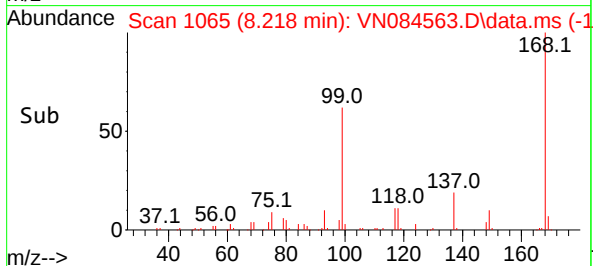
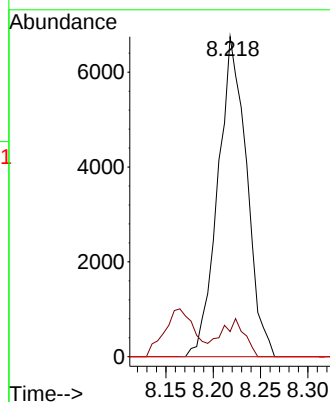
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 14233 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.8   | 16.9  | 50.7# |
| 77       | 0.0   | 24.7  | 37.1# |



#37

Ethyl Acetate

Concen: 0.656 ug/l

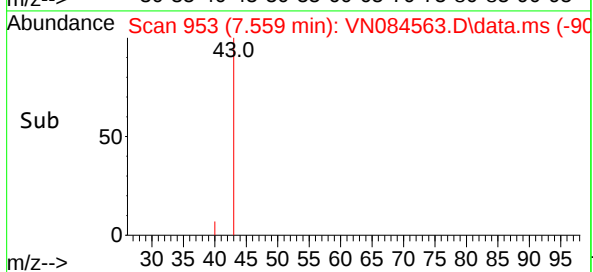
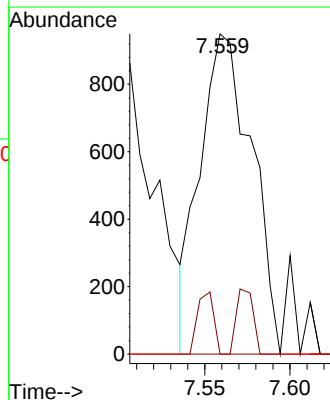
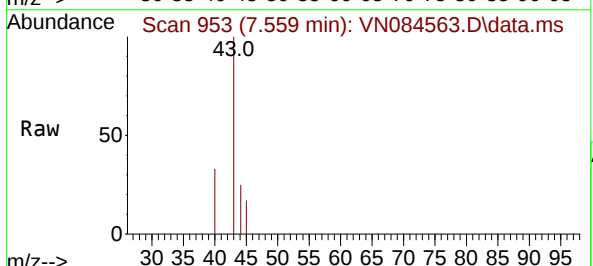
RT: 7.559 min Scan# 953

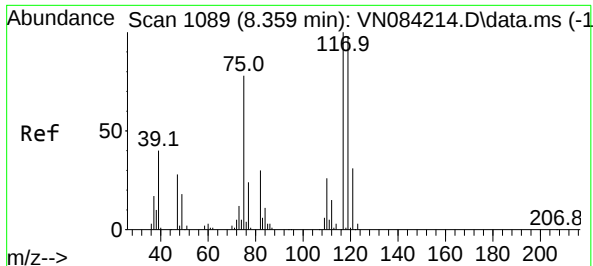
Delta R.T. -0.000 min

Lab File: VN084563.D

Acq: 29 Oct 2024 14:53

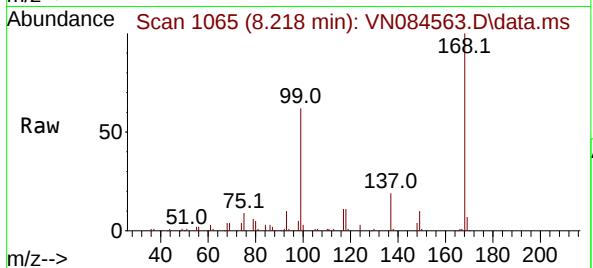
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2003  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 6.1   | 10.7  | 16.1# |
| 70       | 0.0   | 8.8   | 13.2# |



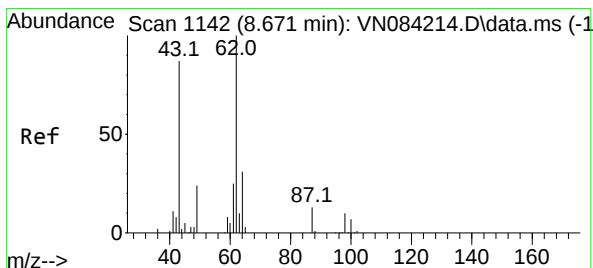
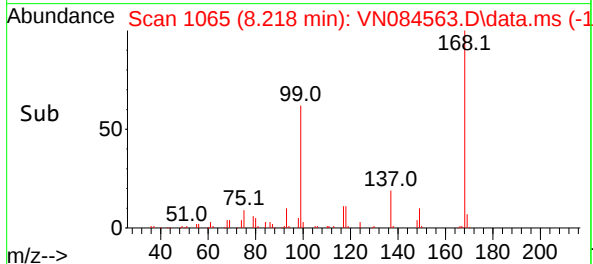
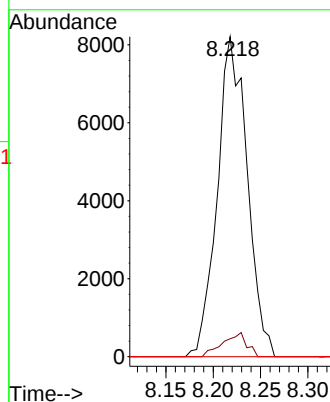


#38  
Carbon Tetrachloride  
Concen: 5.527 ug/l  
RT: 8.218 min Scan# 1105  
Delta R.T. -0.141 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Instrument :  
MSVOA\_N  
ClientSampleId :

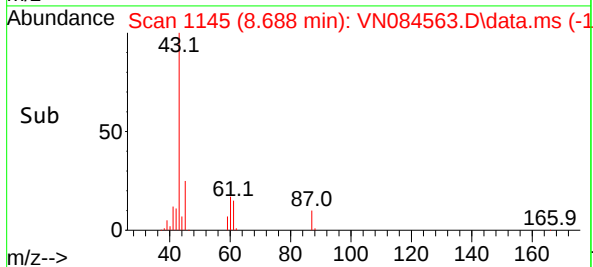
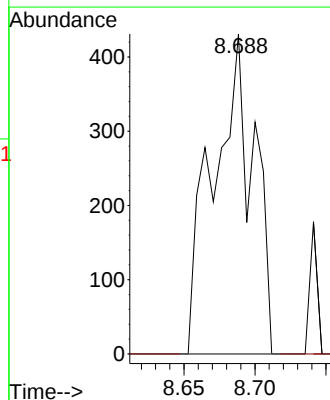
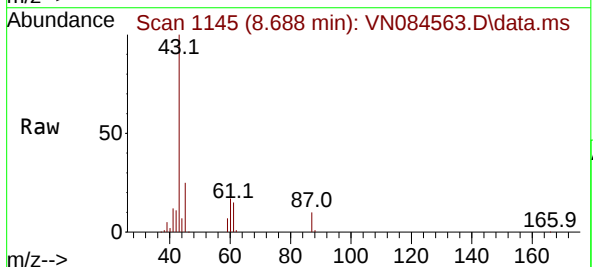


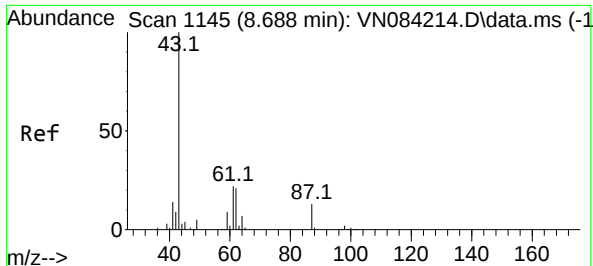
Tgt Ion:117 Resp: 18036  
Ion Ratio Lower Upper  
117 100  
119 5.6 78.7 118.1#  
121 0.0 24.4 36.6#



#42  
1,2-Dichloroethane  
Concen: 0.273 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.018 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Tgt Ion: 62 Resp: 859  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 28.075 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084563.D

Acq: 29 Oct 2024 14:53

Instrument :

MSVOA\_N

ClientSampleId :

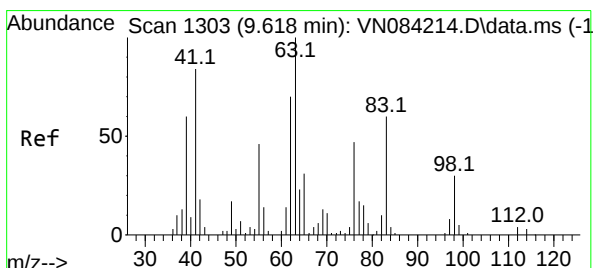
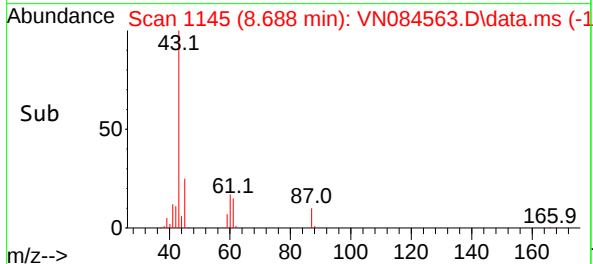
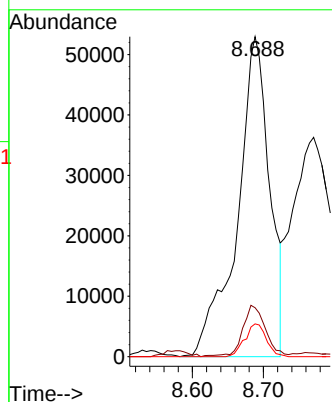
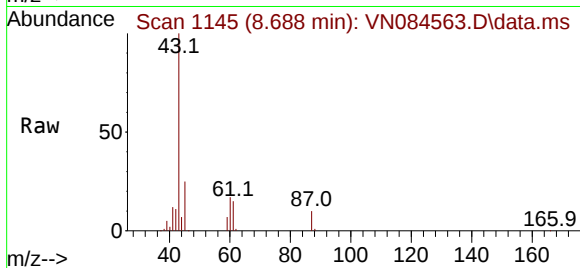
Tgt Ion: 43 Resp: 167827

Ion Ratio Lower Upper

43 100

61 11.3 20.4 30.6#

87 6.8 10.3 15.5#



#45

1,2-Dichloropropane

Concen: 0.310 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN084563.D

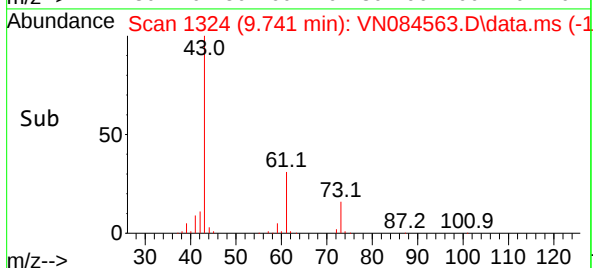
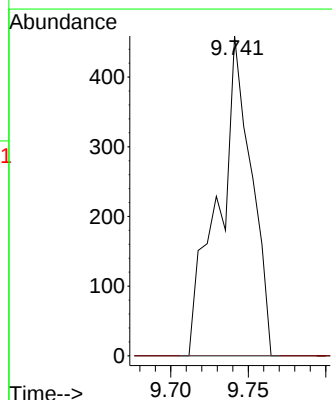
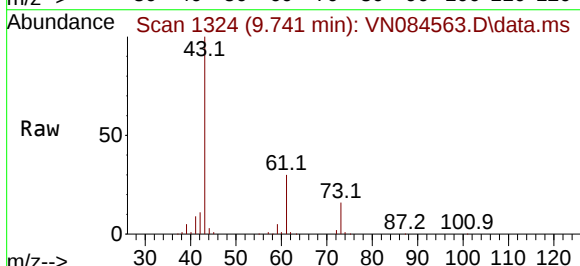
Acq: 29 Oct 2024 14:53

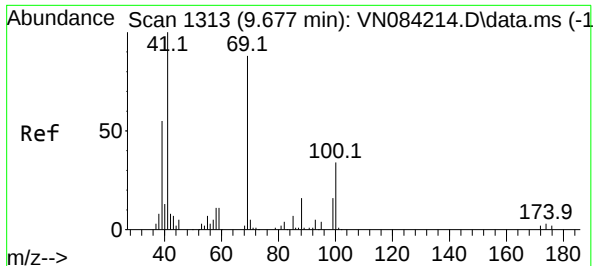
Tgt Ion: 63 Resp: 679

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.222 ug/l

RT: 9.665 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN084563.D

Acq: 29 Oct 2024 14:53

Instrument :

MSVOA\_N

ClientSampleId :

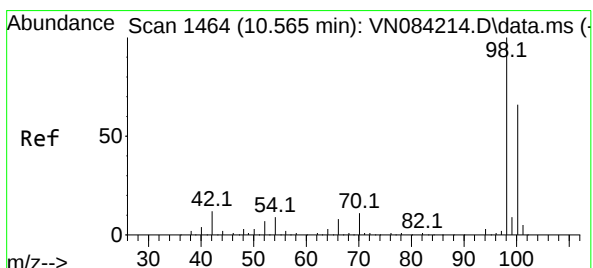
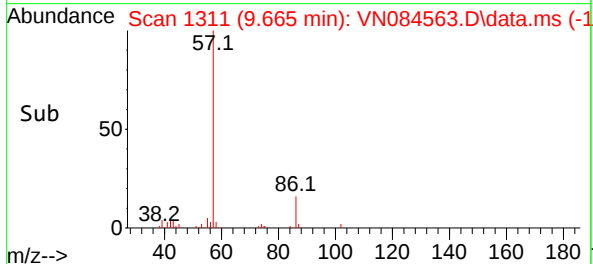
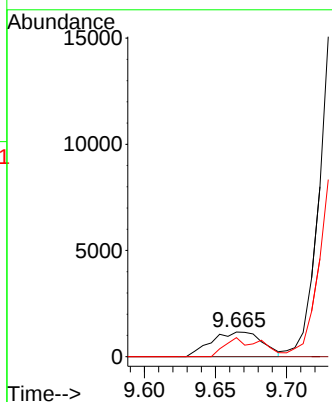
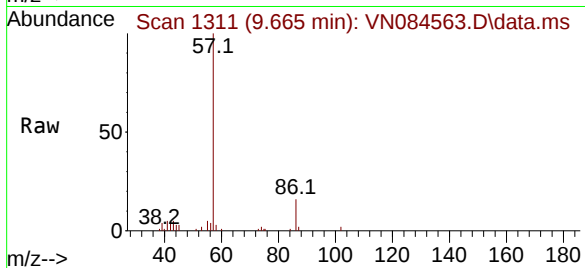
Tgt Ion: 41 Resp: 2907

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 56.3 45.8 68.6



#50

Toluene-d8

Concen: 49.151 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084563.D

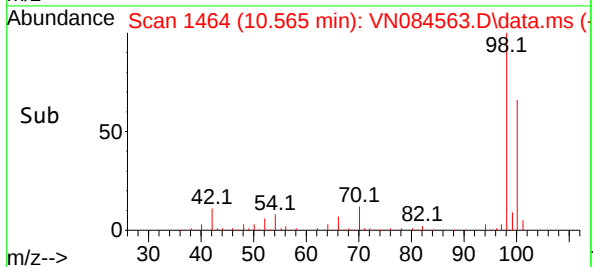
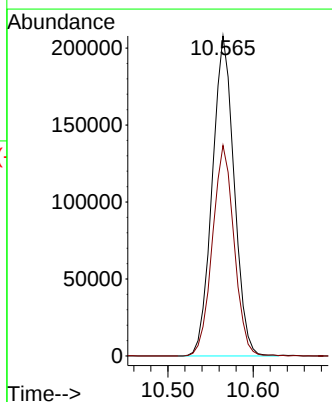
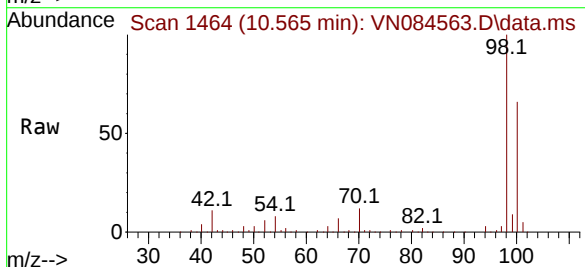
Acq: 29 Oct 2024 14:53

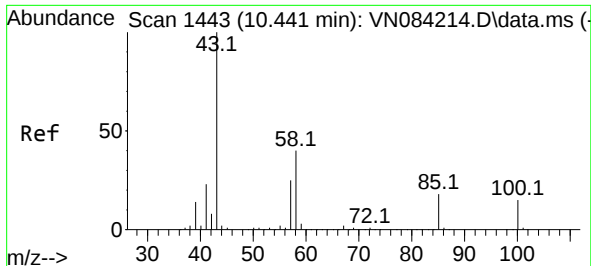
Tgt Ion: 98 Resp: 370348

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1

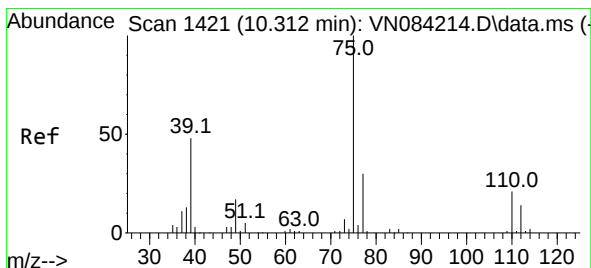
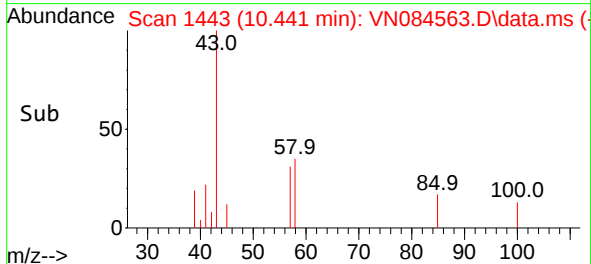
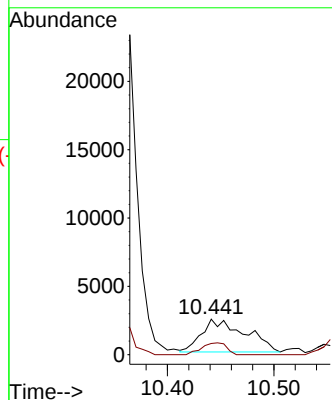
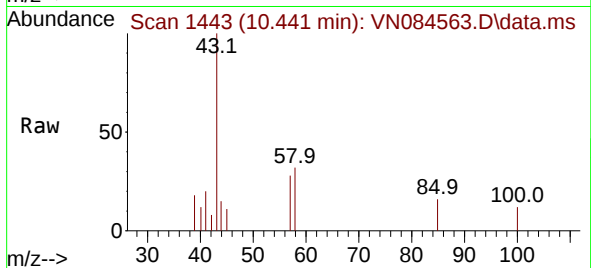




#51  
4-Methyl-2-Pentanone  
Concen: 2.341 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

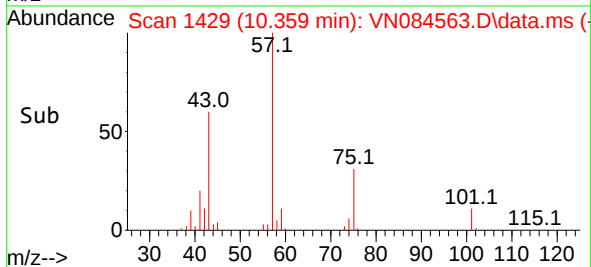
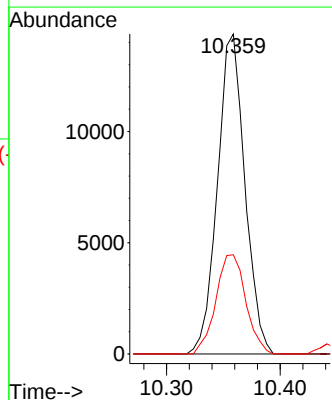
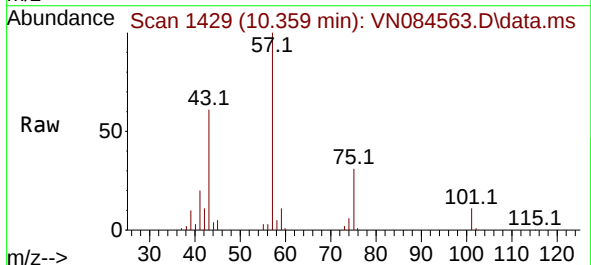
Instrument :  
MSVOA\_N  
ClientSampleId :

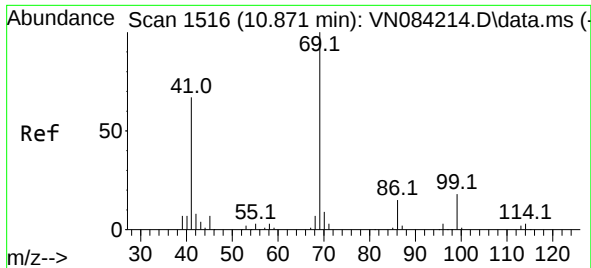
Tgt Ion: 43 Resp: 6800  
Ion Ratio Lower Upper  
43 100  
58 20.6 31.6 47.4#



#54  
cis-1,3-Dichloropropene  
Concen: 6.687 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.047 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Tgt Ion: 75 Resp: 24102  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.2 36.2#  
39 31.0 38.7 58.1#

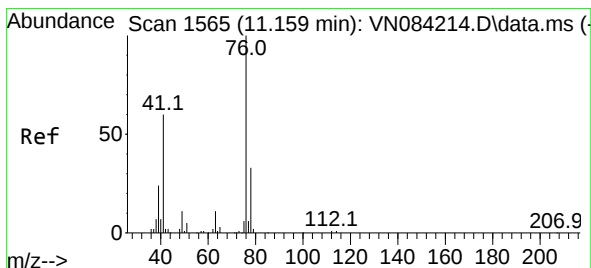
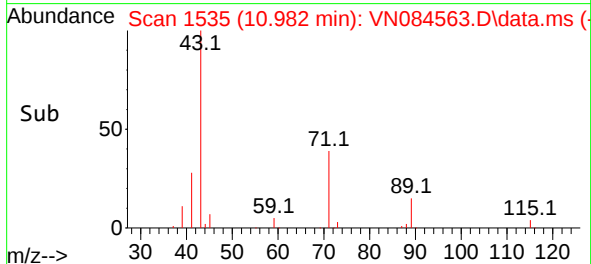
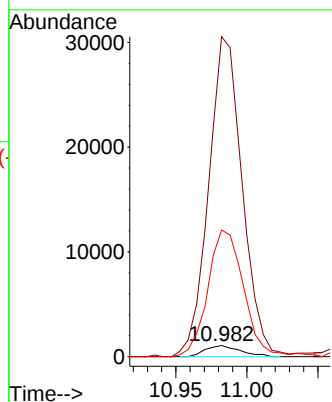
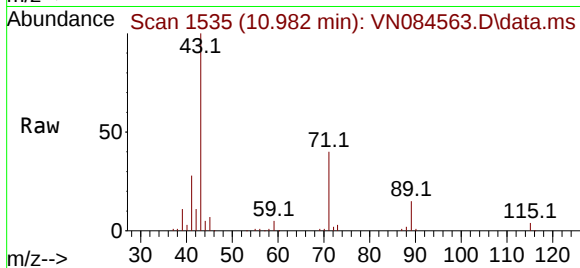




#56  
Ethyl methacrylate  
Concen: 0.544 ug/l  
RT: 10.982 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

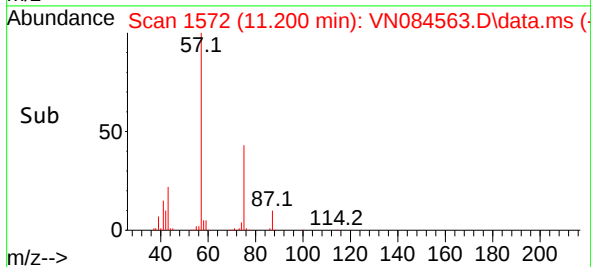
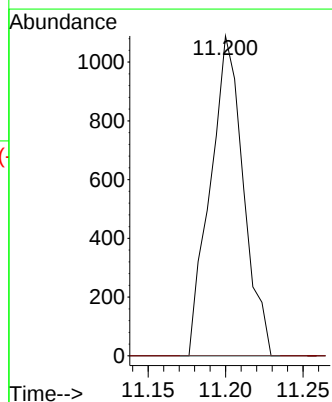
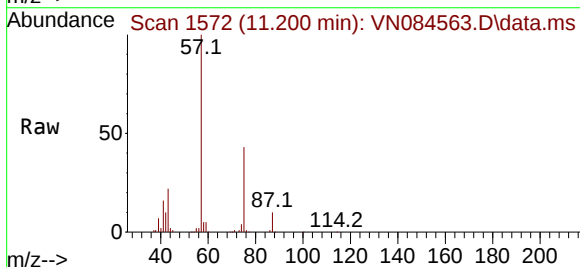
Instrument :  
MSVOA\_N  
ClientSampleId :

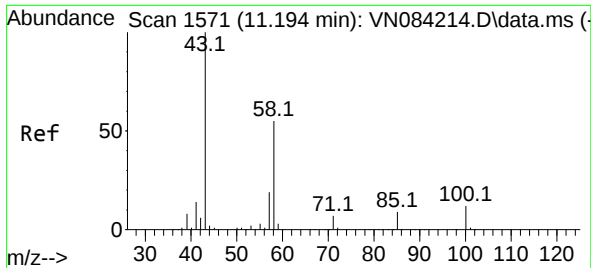
Tgt Ion: 69 Resp: 1814  
Ion Ratio Lower Upper  
69 100  
41 2785.1 53.3 79.9#  
39 1173.6 28.8 43.2#



#57  
1,3-Dichloropropane  
Concen: 0.447 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.041 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

Tgt Ion: 76 Resp: 1619  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

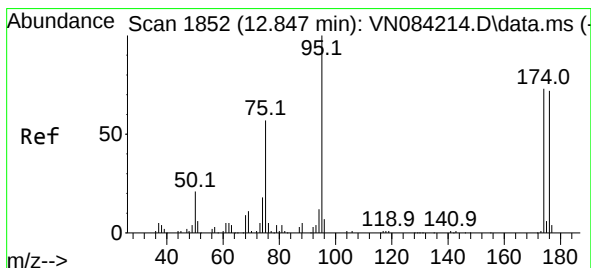
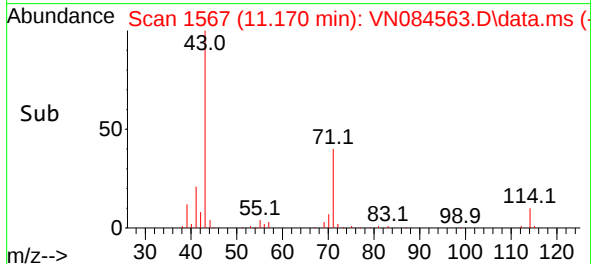
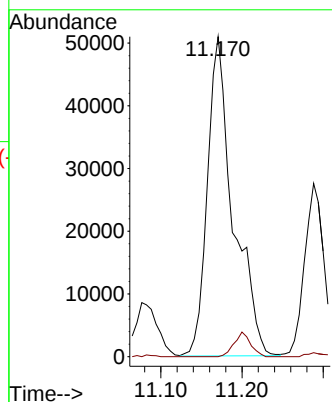
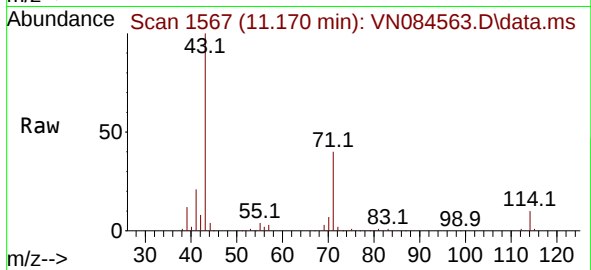




#59  
2-Hexanone  
Concen: 51.688 ug/l  
RT: 11.170 min Scan# 1567  
Delta R.T. -0.024 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

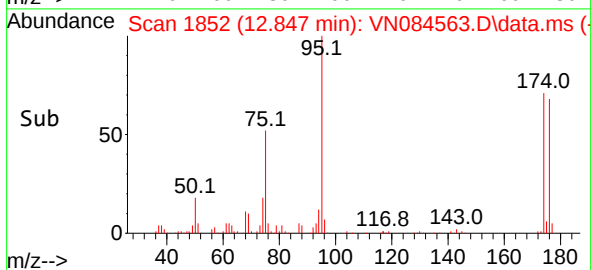
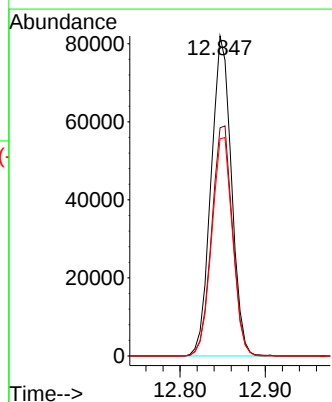
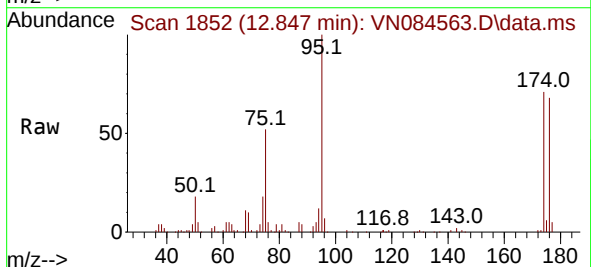
Instrument :  
MSVOA\_N  
ClientSampleId :

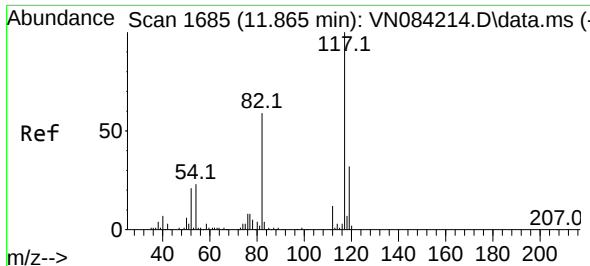
Tgt Ion: 43 Resp: 112238  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.3 81.8#



#62  
4-Bromofluorobenzene  
Concen: 49.549 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

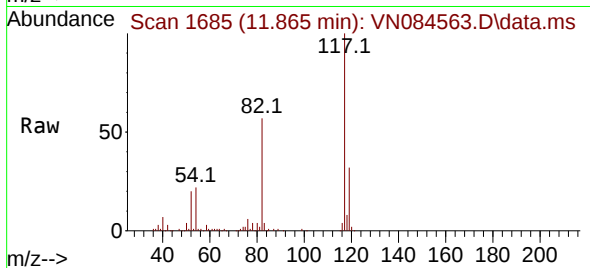
Tgt Ion: 95 Resp: 136012  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 145.2  
176 69.9 0.0 140.0



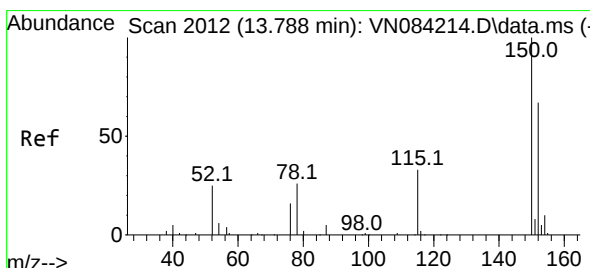
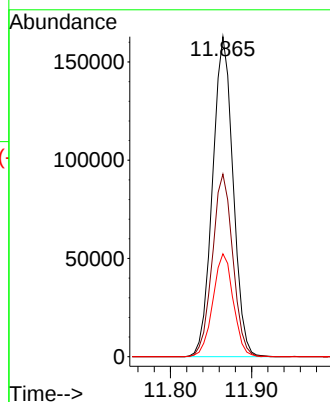
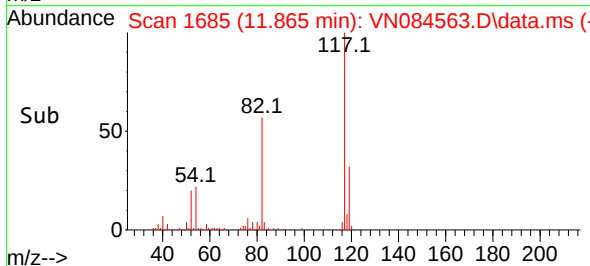


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

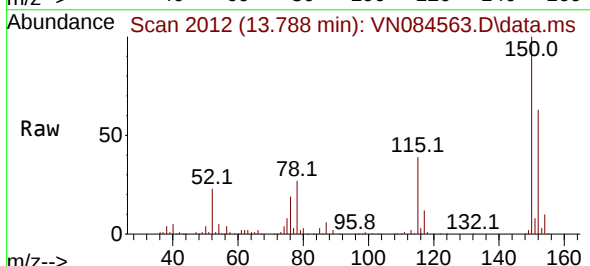
Instrument :  
MSVOA\_N  
ClientSampleId :



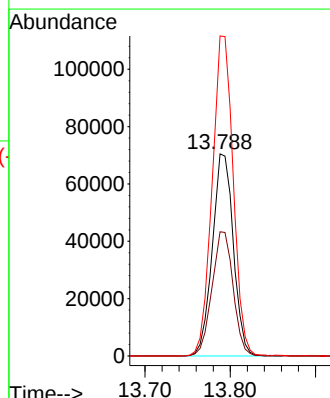
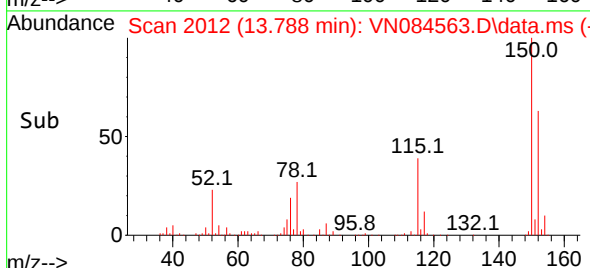
Tgt Ion:117 Resp: 285743  
Ion Ratio Lower Upper  
117 100  
82 57.0 47.2 70.8  
119 32.2 25.4 38.0

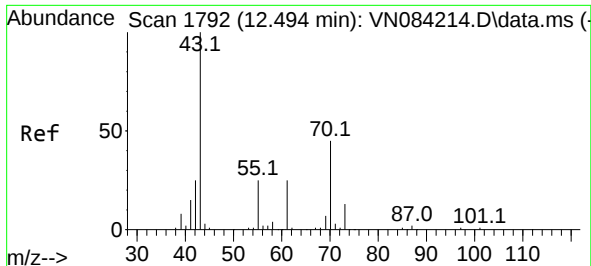


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53



Tgt Ion:152 Resp: 120529  
Ion Ratio Lower Upper  
152 100  
115 62.0 31.3 93.9  
150 158.5 0.0 349.8

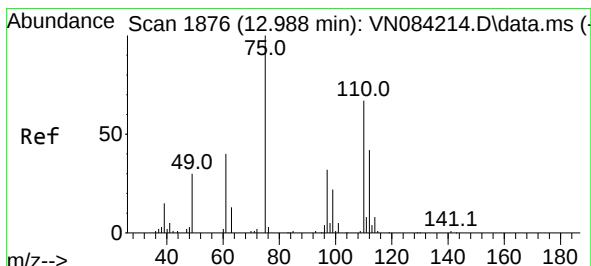
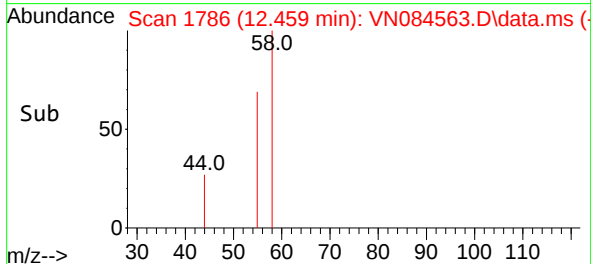
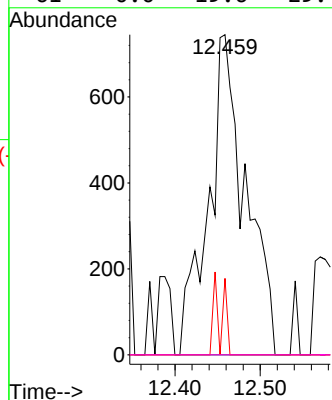
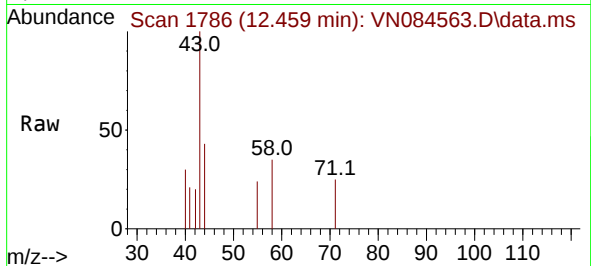




#74  
N-amy1 acetate  
Concen: 0.545 ug/l  
RT: 12.459 min Scan# 11  
Delta R.T. -0.035 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

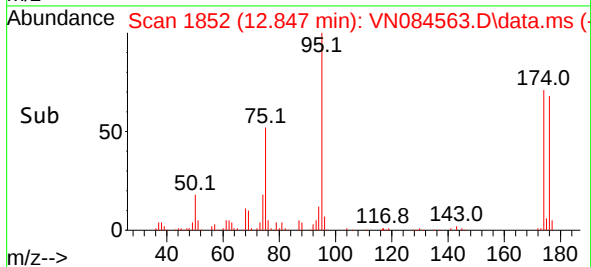
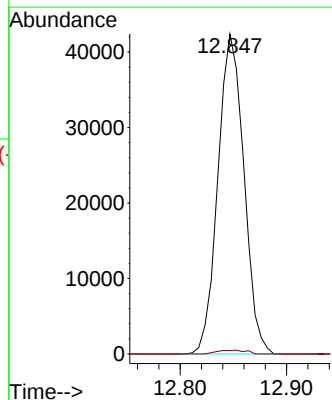
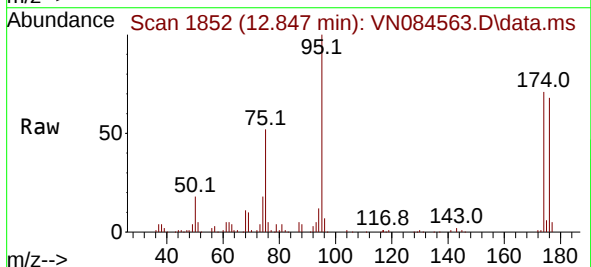
Instrument :  
MSVOA\_N  
ClientSampleId :

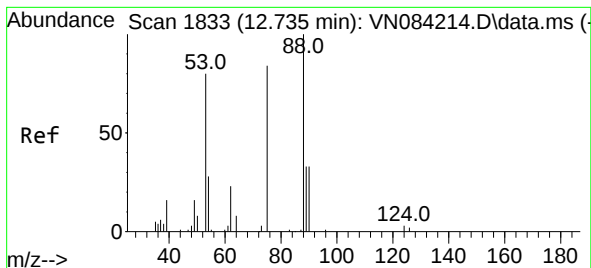
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2271  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 34.4 51.6#  |
| 55 5.8      | 19.6 29.4#  |
| 61 0.0      | 19.6 29.4#  |



#76  
1,2,3-Trichloropropane  
Concen: 29.149 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084563.D  
Acq: 29 Oct 2024 14:53

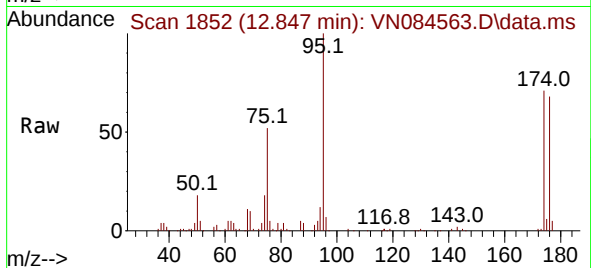
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 71724 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 1.3      | 96.9 290.7# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.882 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN084563.D  
 Acq: 29 Oct 2024 14:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 71724  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 35.5 53.3#

