

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082324\  
 Data File : VN083460.D  
 Acq On : 23 Aug 2024 15:00  
 Operator : JC\MD  
 Sample : P3704-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 24 00:02:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:30:41 2024  
 Response via : Initial Calibration

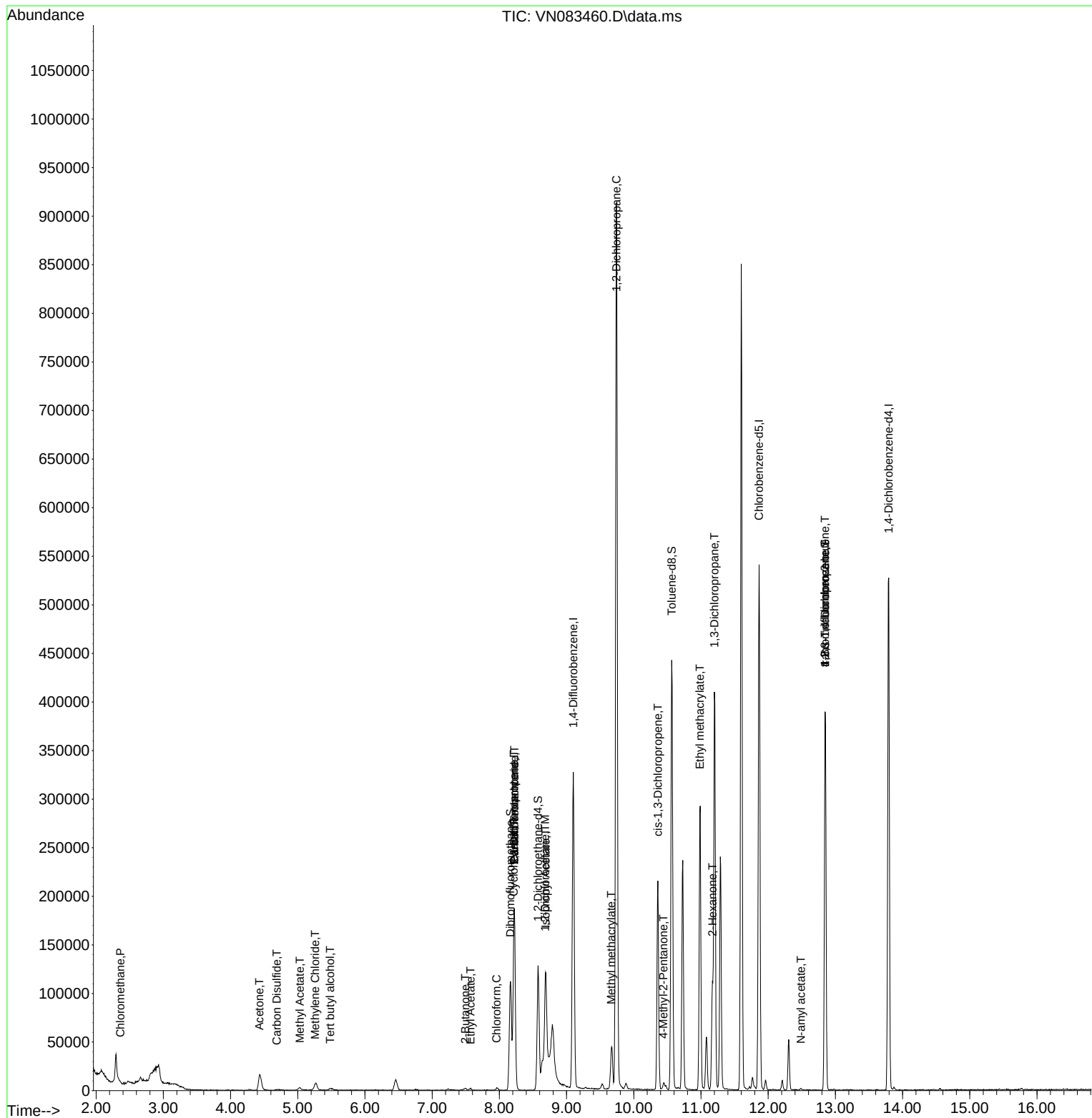
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 130334   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 266833   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 293475   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 137502   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 105028   | 56.614   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 113.220% |
| 35) Dibromofluoromethane      | 8.165  | 113   | 82028    | 49.251   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 98.500%  |
| 50) Toluene-d8                | 10.565 | 98    | 304784   | 49.058   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 98.120%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 138751   | 57.286   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 114.580% |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 2.359  | 50    | 553      | 0.365    | ug/l # | 76       |
| 11) Tert butyl alcohol        | 5.483  | 59    | 2171     | 5.631    | ug/l # | 71       |
| 16) Acetone                   | 4.430  | 43    | 30959    | 42.648   | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.689  | 76    | 2144     | 0.507    | ug/l # | 75       |
| 18) Methyl Acetate            | 5.030  | 43    | 5970     | 2.760    | ug/l # | 87       |
| 20) Methylene Chloride        | 5.259  | 84    | 5802     | 3.473    | ug/l # | 75       |
| 25) 2-Butanone                | 7.494  | 43    | 3393     | 3.044    | ug/l   | 95       |
| 30) Chloroform                | 7.959  | 83    | 2701     | 0.929    | ug/l # | 80       |
| 31) Cyclohexane               | 8.212  | 56    | 3416     | 1.243    | ug/l # | 35       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 11531    | 4.577    | ug/l # | 52       |
| 37) Ethyl Acetate             | 7.571  | 43    | 2942     | 1.043    | ug/l # | 80       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 15245    | 5.372    | ug/l # | 19       |
| 42) 1,2-Dichloroethane        | 8.682  | 62    | 729      | 0.267    | ug/l # | 78       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 183592   | 36.757   | ug/l # | 84       |
| 45) 1,2-Dichloropropane       | 9.741  | 63    | 1177     | 0.661    | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.665  | 41    | 3216     | 1.379    | ug/l # | 44       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 4647     | 1.742    | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 36783    | 11.758   | ug/l # | 56       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 928      | 0.290    | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 3921     | 1.294    | ug/l # | 43       |
| 59) 2-Hexanone                | 11.171 | 43    | 88766    | 43.012   | ug/l # | 28       |
| 74) N-amyl acetate            | 12.488 | 43    | 1373     | 0.244    | ug/l # | 48       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 76642    | 25.396   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 76642    | 55.243   | ug/l # | 6        |

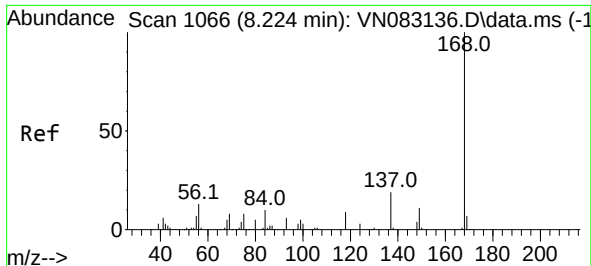
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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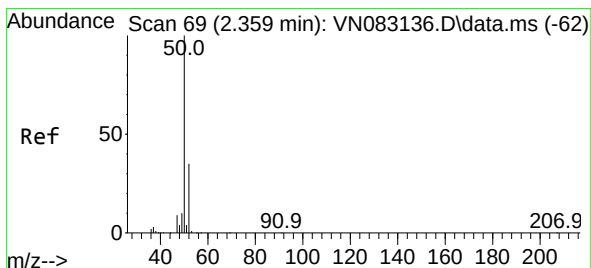
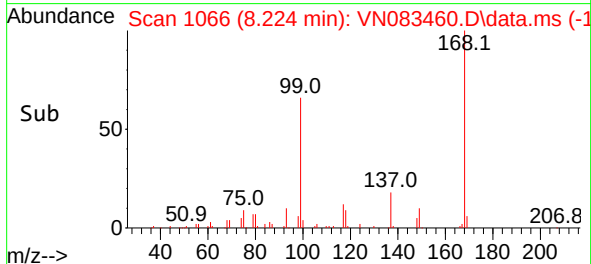
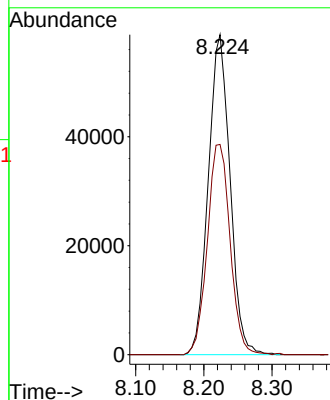
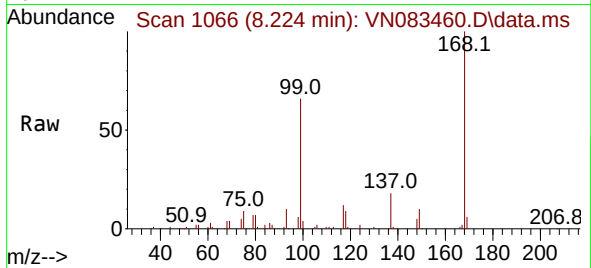




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

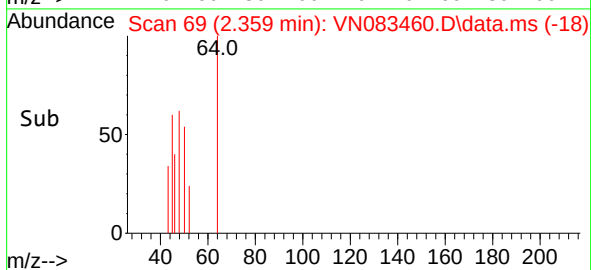
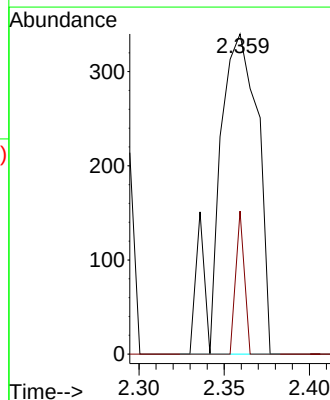
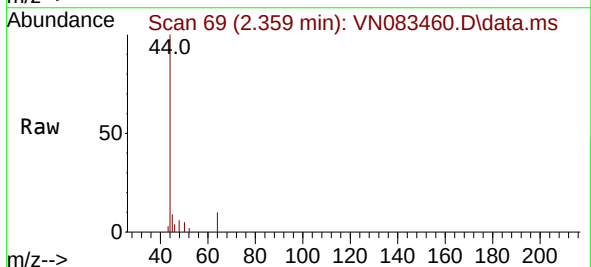
Instrument :  
MSVOA\_N  
ClientSampleId :

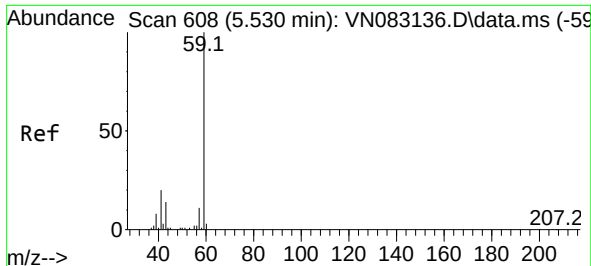
Tgt Ion:168 Resp: 130334  
Ion Ratio Lower Upper  
168 100  
99 65.7 48.2 72.4



#3  
Chloromethane  
Concen: 0.365 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

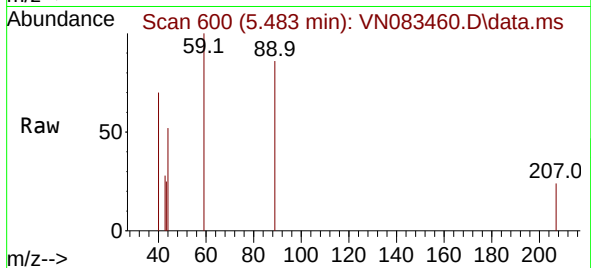
Tgt Ion: 50 Resp: 553  
Ion Ratio Lower Upper  
50 100  
52 44.7 25.0 37.4#



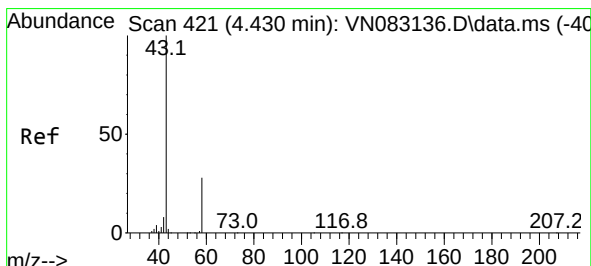
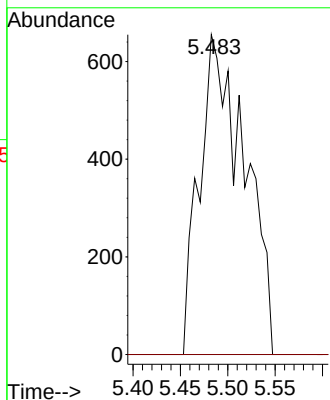
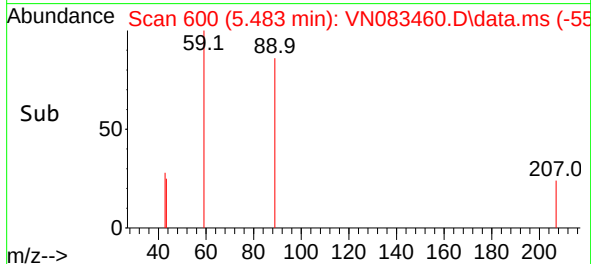


#11  
Tert butyl alcohol  
Concen: 5.631 ug/l  
RT: 5.483 min Scan# 608  
Delta R.T. -0.047 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

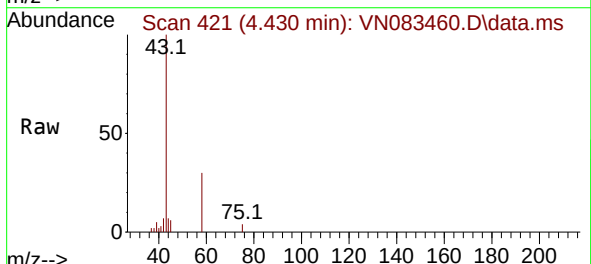
Instrument :  
MSVOA\_N  
ClientSampleId :



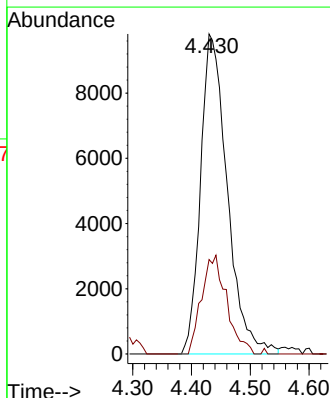
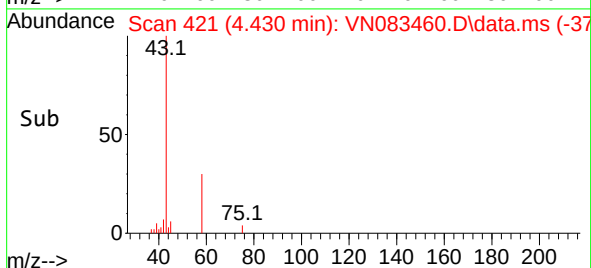
Tgt Ion: 59 Resp: 2171  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

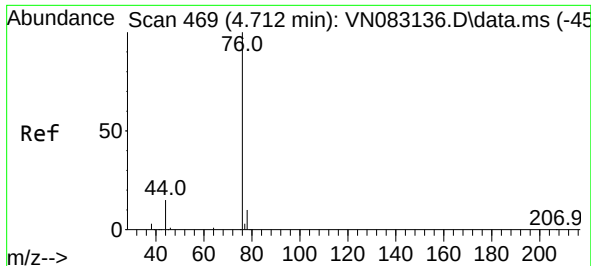


#16  
Acetone  
Concen: 42.648 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00



Tgt Ion: 43 Resp: 30959  
Ion Ratio Lower Upper  
43 100  
58 29.5 21.8 32.6





#17

Carbon Disulfide

Concen: 0.507 ug/l

RT: 4.689 min Scan# 4

Delta R.T. -0.024 min

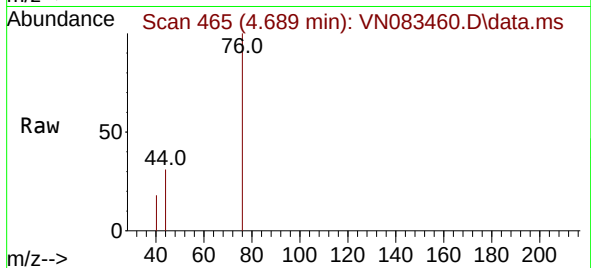
Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

ClientSampleId :

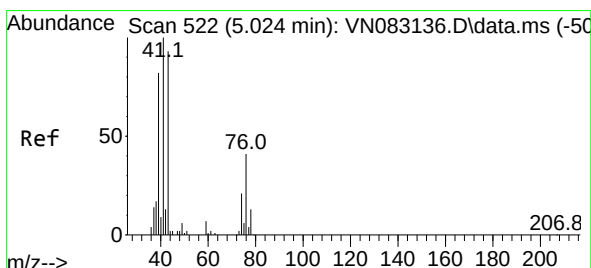
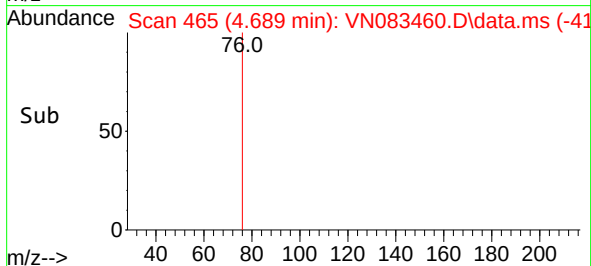
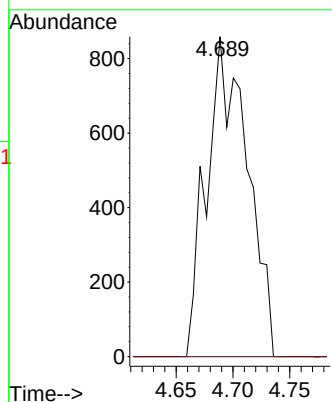


Tgt Ion: 76 Resp: 2144

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#18

Methyl Acetate

Concen: 2.760 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.006 min

Lab File: VN083460.D

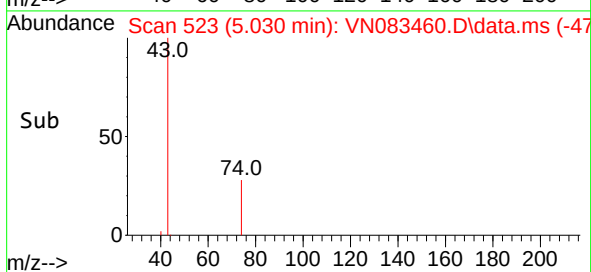
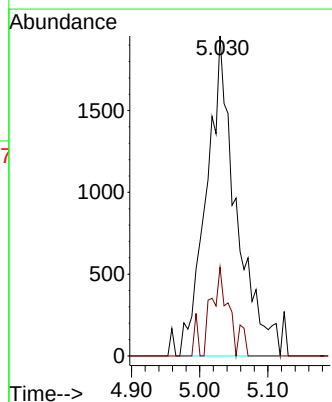
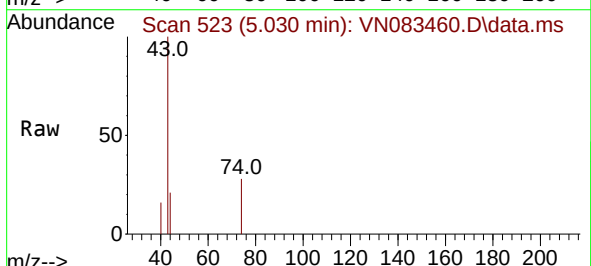
Acq: 23 Aug 2024 15:00

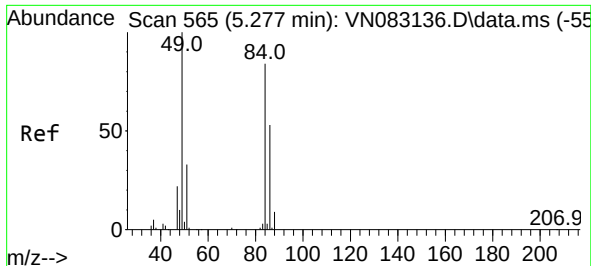
Tgt Ion: 43 Resp: 5970

Ion Ratio Lower Upper

43 100

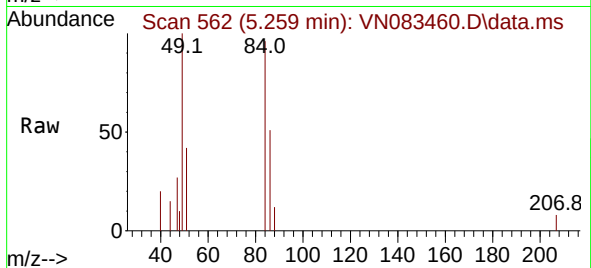
74 14.4 16.3 24.5#



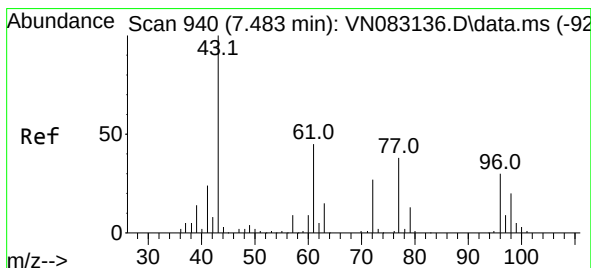
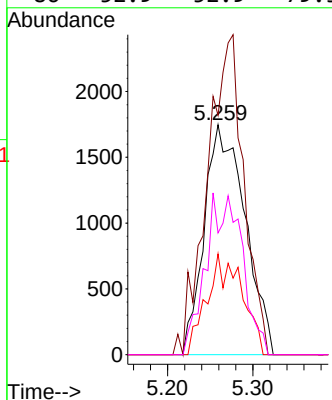
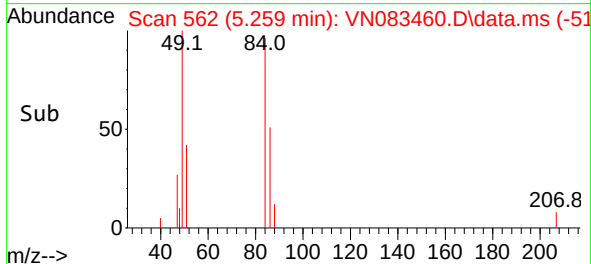


#20  
Methylene Chloride  
Concen: 3.473 ug/l  
RT: 5.259 min Scan# 51  
Delta R.T. -0.018 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

Instrument :  
MSVOA\_N  
ClientSampleId :

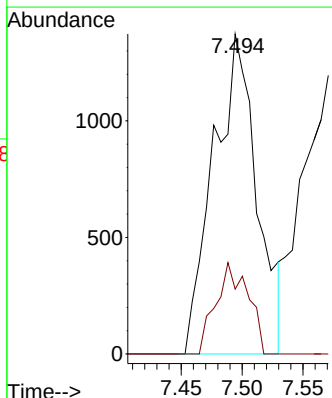
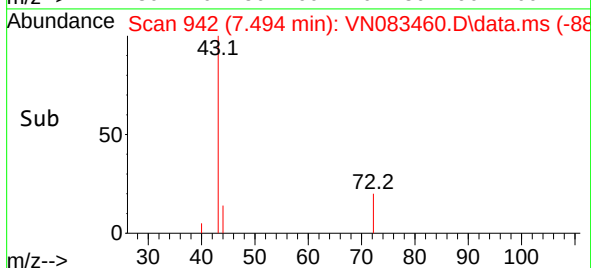
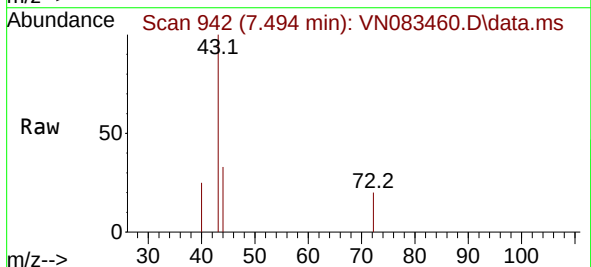


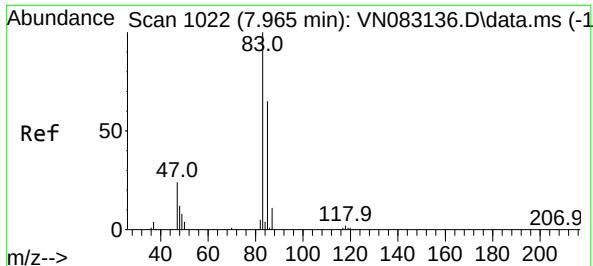
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 5802   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 104.1 | 119.6 | 179.4# |
| 51       | 43.8  | 34.8  | 52.2   |
| 86       | 52.9  | 52.9  | 79.3   |



#25  
2-Butanone  
Concen: 3.044 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.012 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3393  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 20.2  | 18.2  | 27.2  |





#30

Chloroform

Concen: 0.929 ug/l

RT: 7.959 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

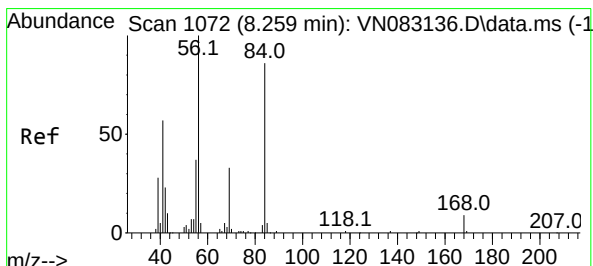
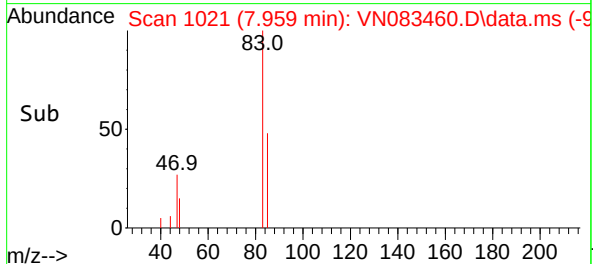
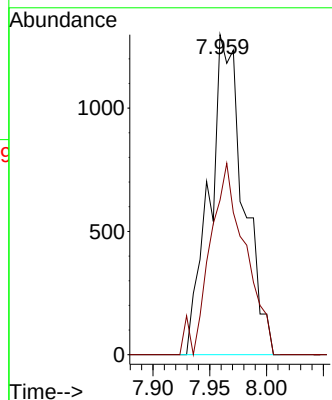
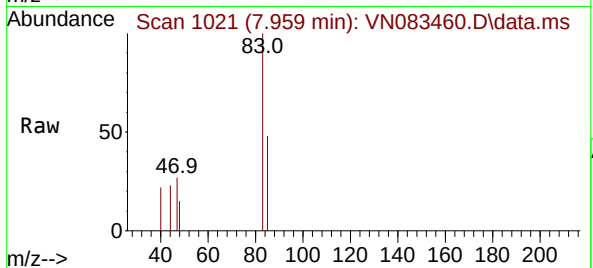
ClientSampleId :

Tgt Ion: 83 Resp: 2701

Ion Ratio Lower Upper

83 100

85 48.3 50.9 76.3#



#31

Cyclohexane

Concen: 1.243 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.047 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

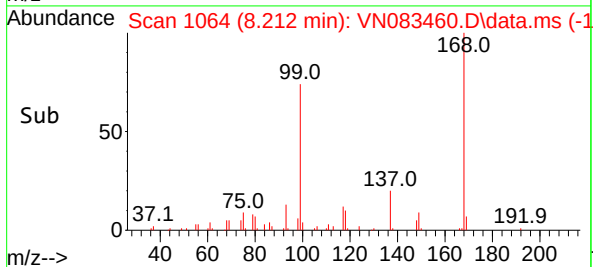
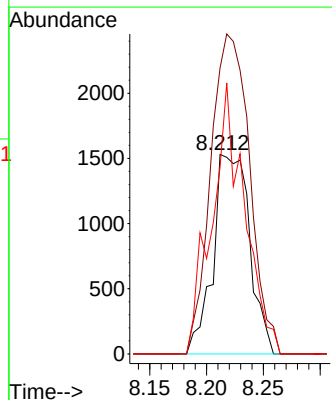
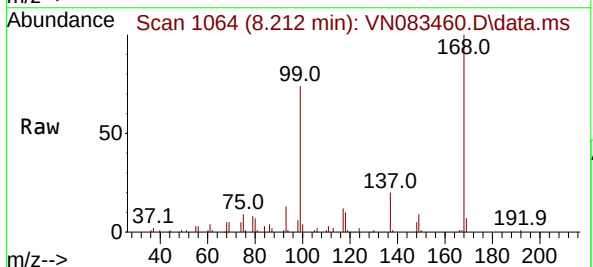
Tgt Ion: 56 Resp: 3416

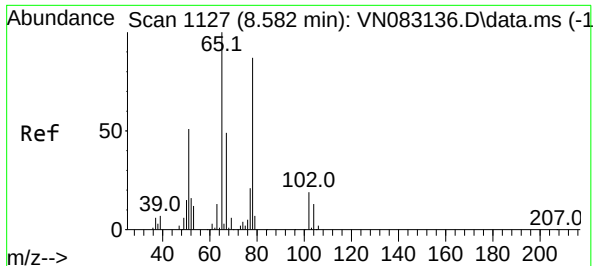
Ion Ratio Lower Upper

56 100

69 143.3 24.5 36.7#

84 93.7 66.0 99.0





#33

1,2-Dichloroethane-d4

Concen: 56.614 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.005 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

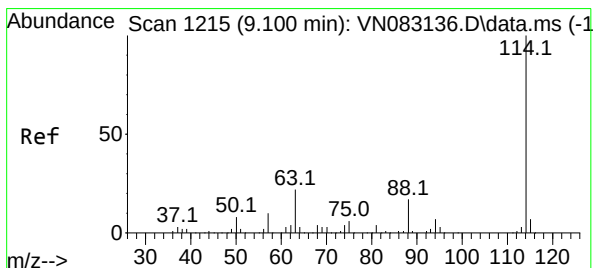
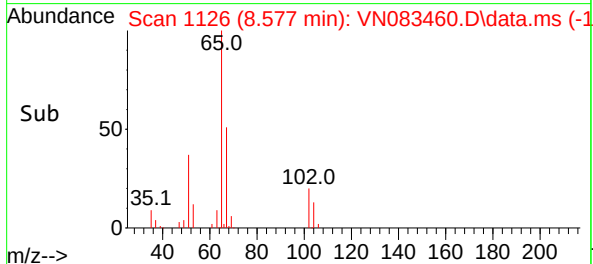
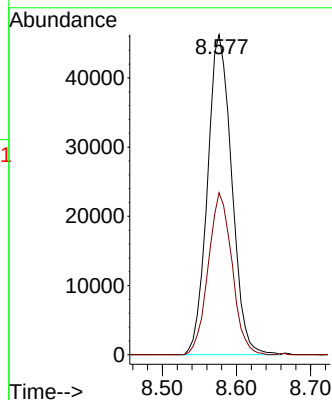
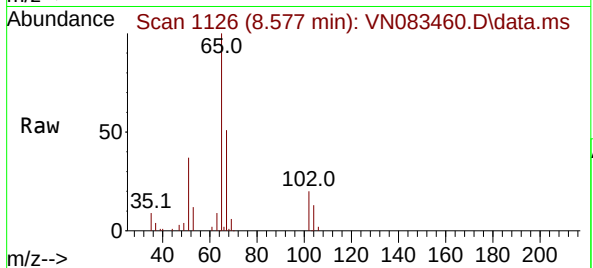
ClientSampleId :

Tgt Ion: 65 Resp: 105028

Ion Ratio Lower Upper

65 100

67 49.5 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

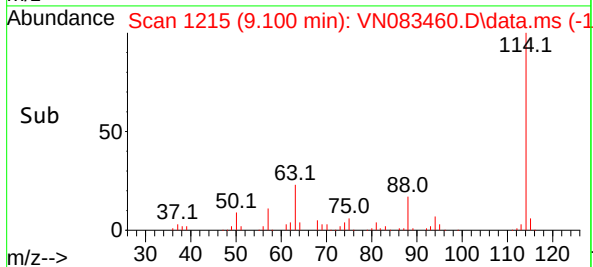
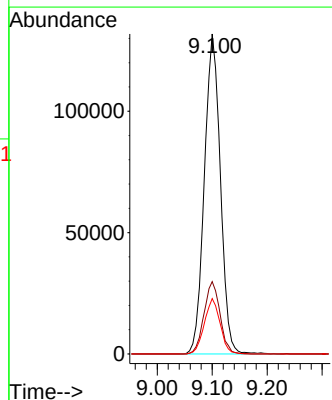
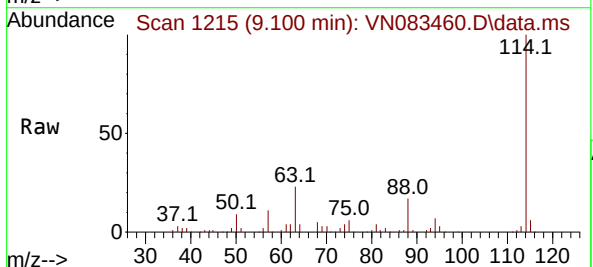
Tgt Ion: 114 Resp: 266833

Ion Ratio Lower Upper

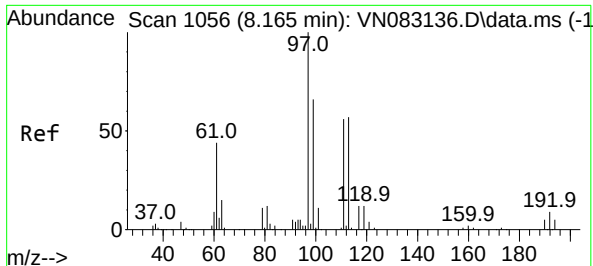
114 100

63 22.6 0.0 44.6

88 17.3 0.0 31.4







#35

Dibromofluoromethane

Concen: 49.251 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

ClientSampleId :

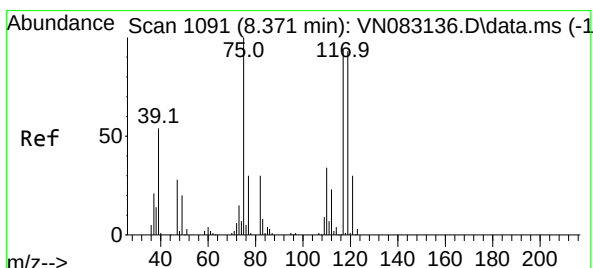
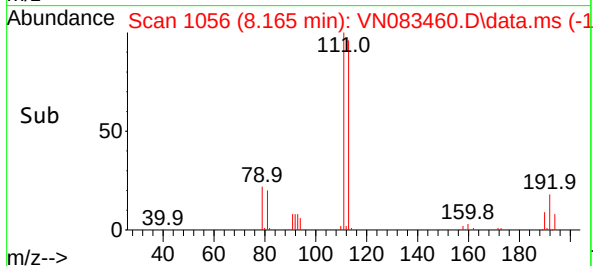
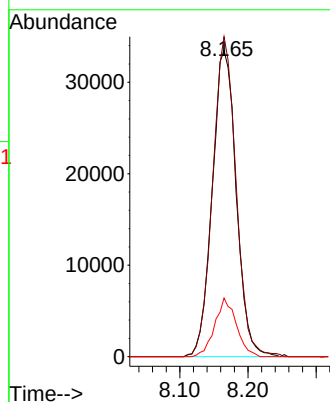
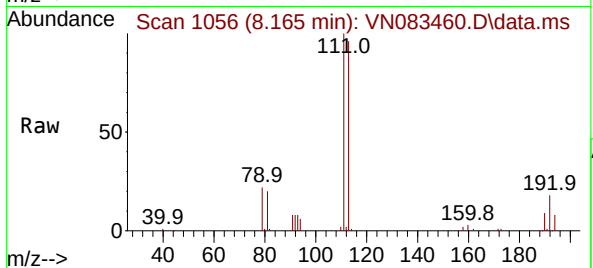
Tgt Ion:113 Resp: 82028

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

192 17.2 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.577 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

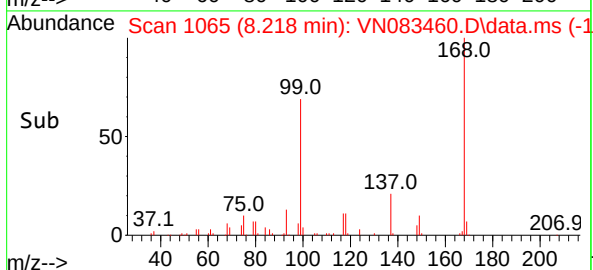
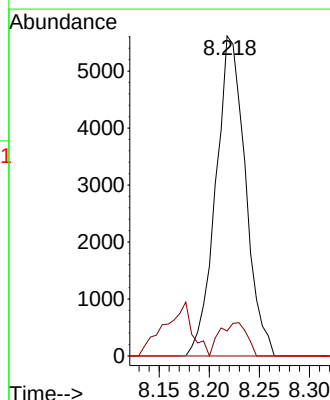
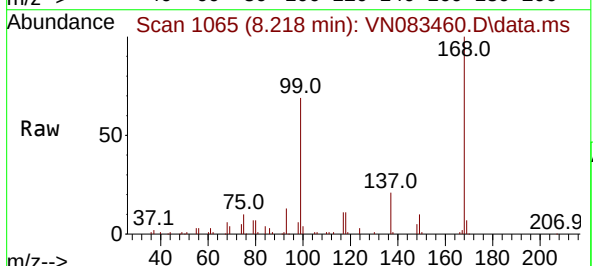
Tgt Ion: 75 Resp: 11531

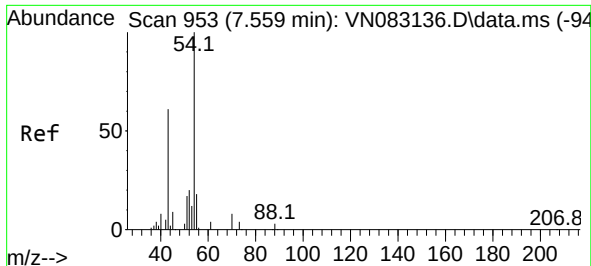
Ion Ratio Lower Upper

75 100

110 9.5 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.043 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.012 min

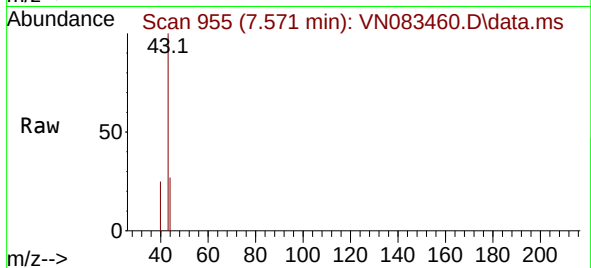
Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

ClientSampleId :



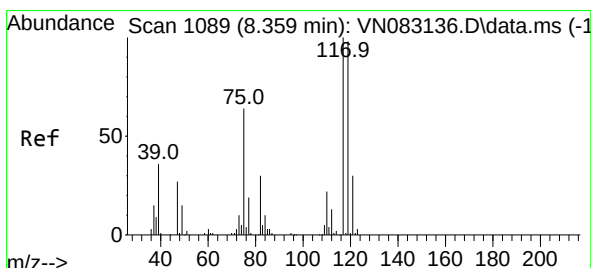
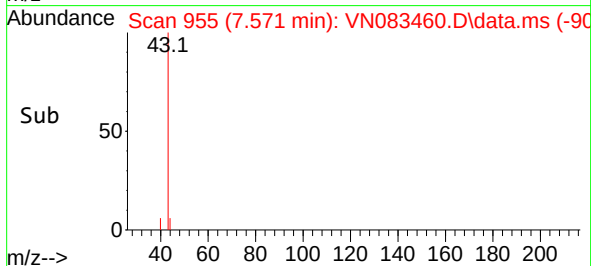
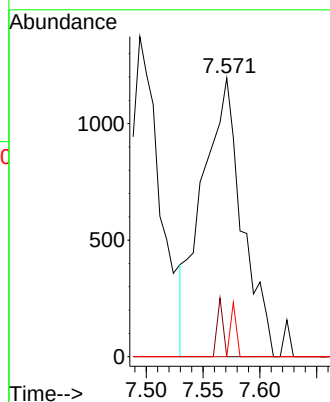
Tgt Ion: 43 Resp: 2942

Ion Ratio Lower Upper

43 100

61 3.0 9.3 13.9#

70 2.8 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 5.372 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

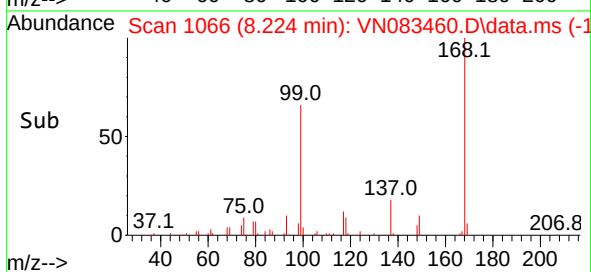
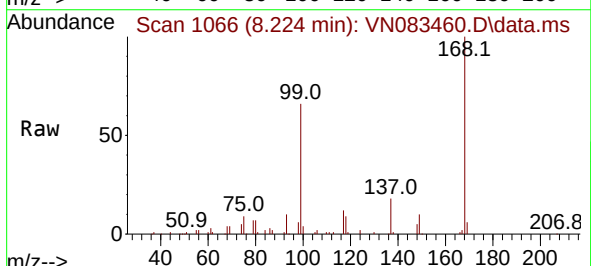
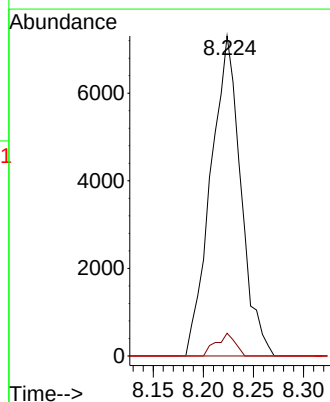
Tgt Ion: 117 Resp: 15245

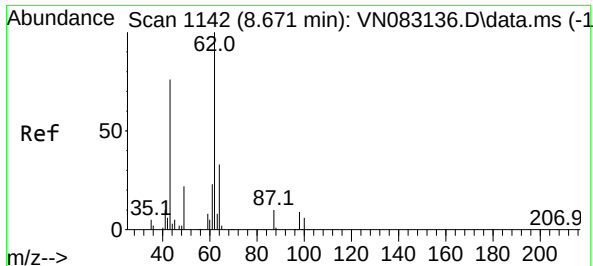
Ion Ratio Lower Upper

117 100

119 7.1 74.9 112.3#

121 0.0 24.3 36.5#





#42

1,2-Dichloroethane

Concen: 0.267 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

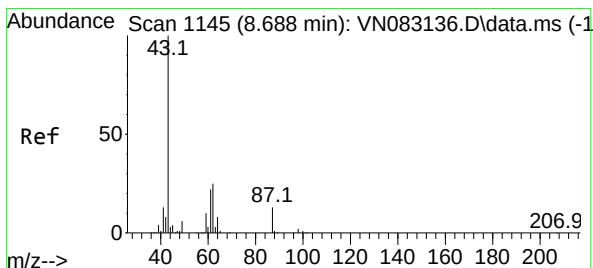
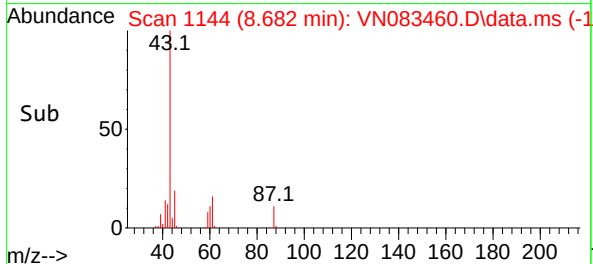
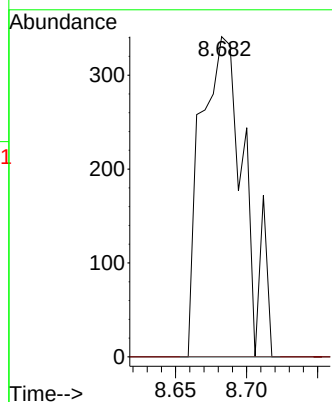
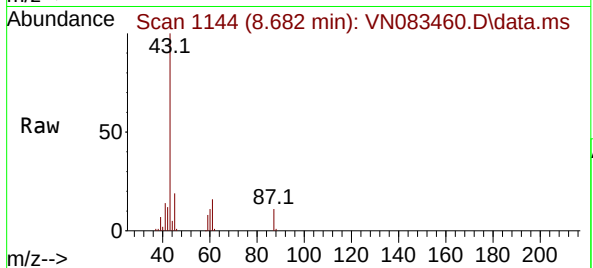
ClientSampleId :

Tgt Ion: 62 Resp: 729

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 36.757 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

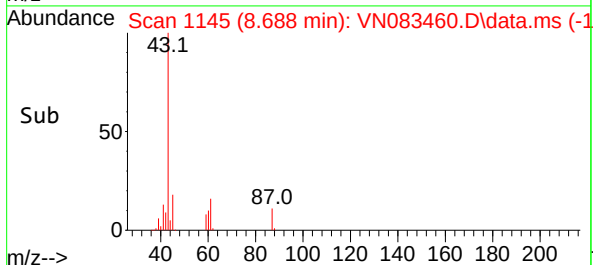
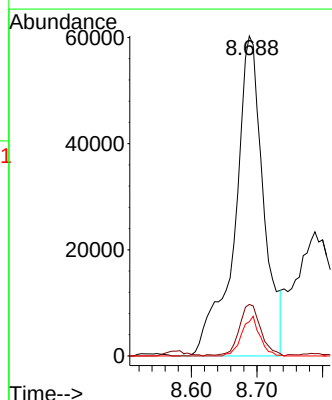
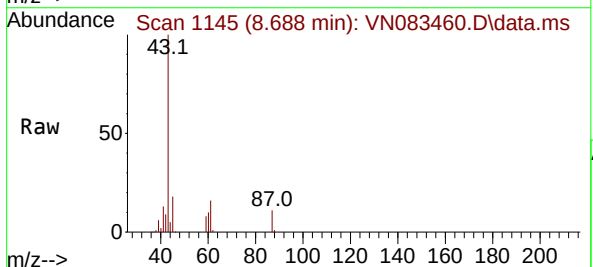
Tgt Ion: 43 Resp: 183592

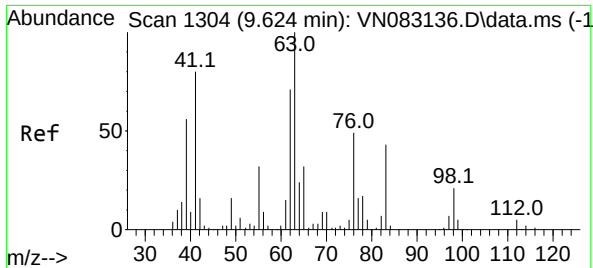
Ion Ratio Lower Upper

43 100

61 12.2 17.8 26.6#

87 7.8 8.2 12.2#





#45

1,2-Dichloropropane

Concen: 0.661 ug/l

RT: 9.741 min Scan# 1177

Delta R.T. 0.118 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

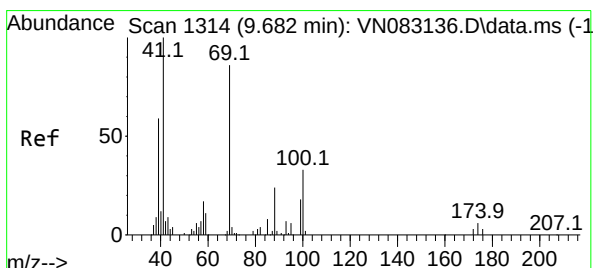
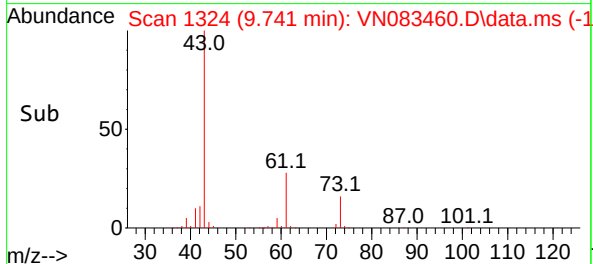
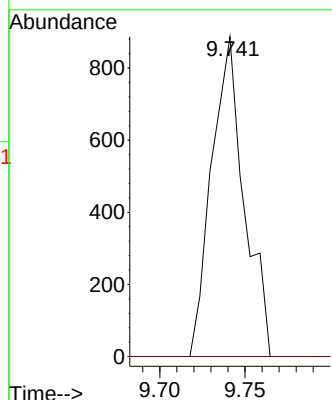
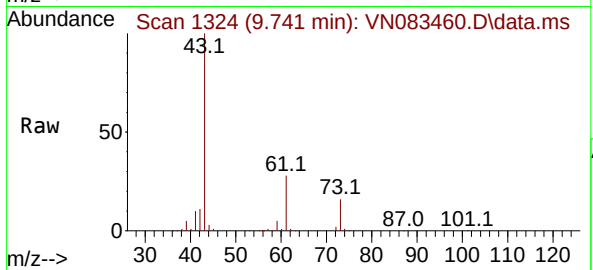
ClientSampleId :

Tgt Ion: 63 Resp: 1177

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 1.379 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.018 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

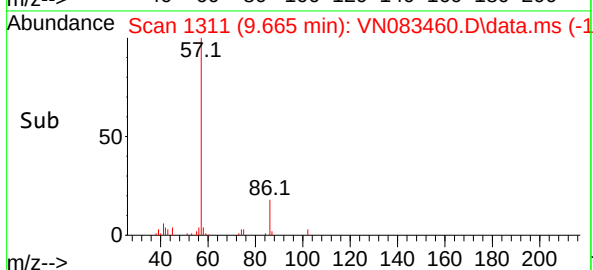
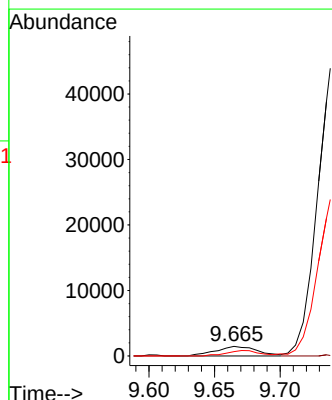
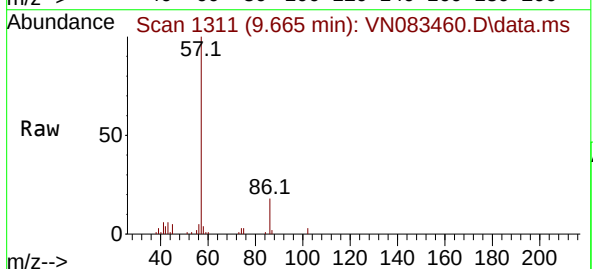
Tgt Ion: 41 Resp: 3216

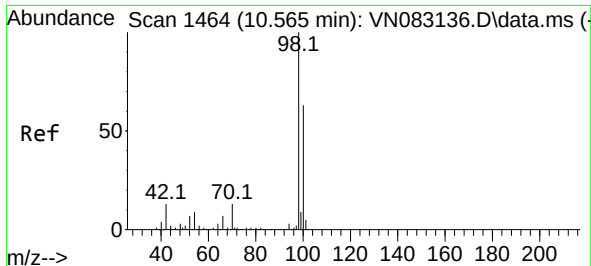
Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 44.5 50.3 75.5#

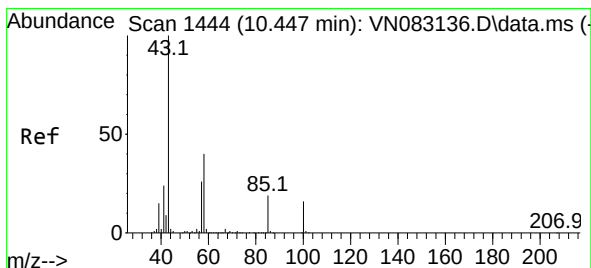
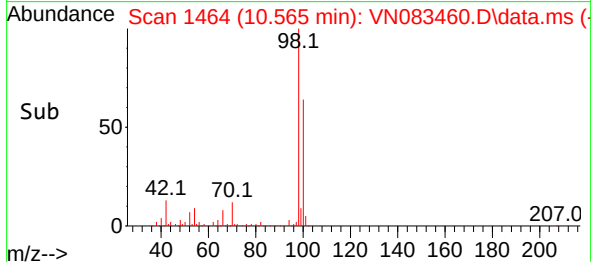
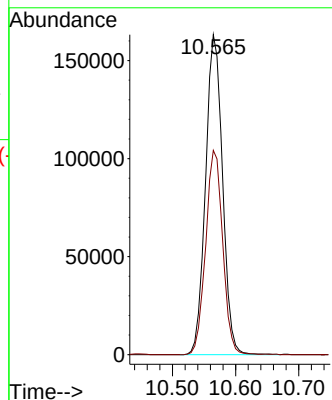
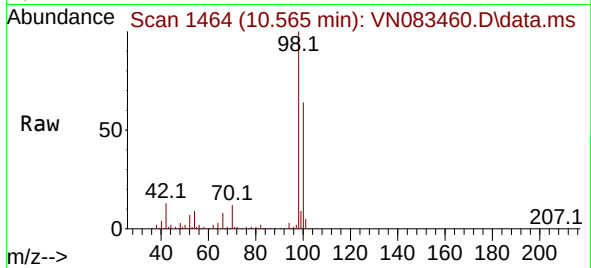




#50  
Toluene-d8  
Concen: 49.058 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

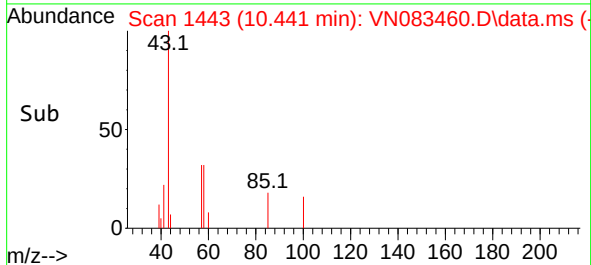
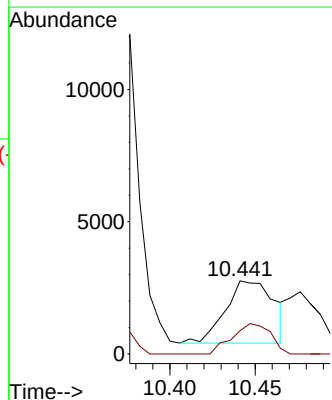
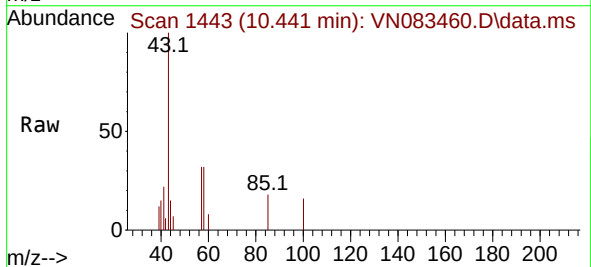
Instrument :  
MSVOA\_N  
ClientSampleId :

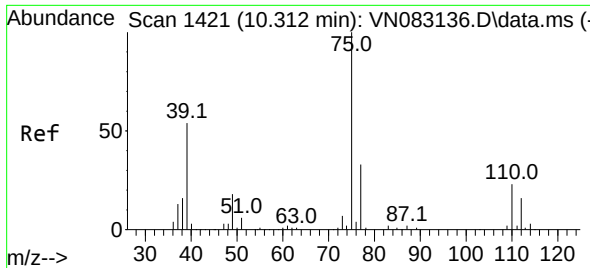
Tgt Ion: 98 Resp: 304784  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 1.742 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.006 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

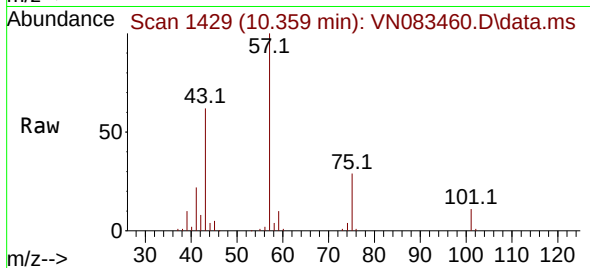
Tgt Ion: 43 Resp: 4647  
Ion Ratio Lower Upper  
43 100  
58 38.7 28.2 42.4



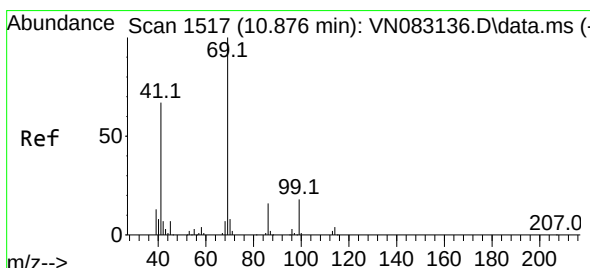
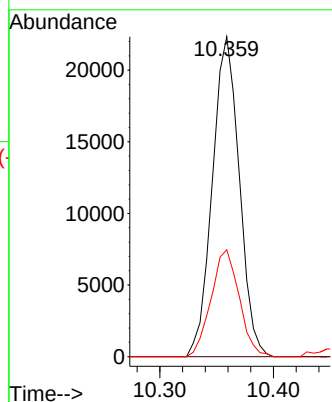
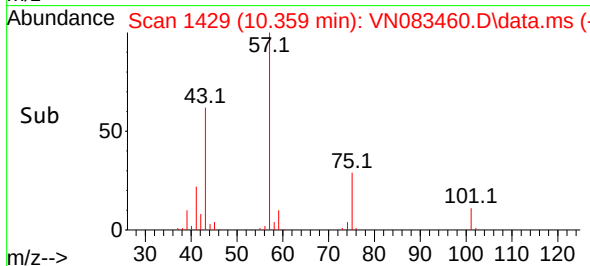


#54  
 cis-1,3-Dichloropropene  
 Concen: 11.758 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.047 min  
 Lab File: VN083460.D  
 Acq: 23 Aug 2024 15:00

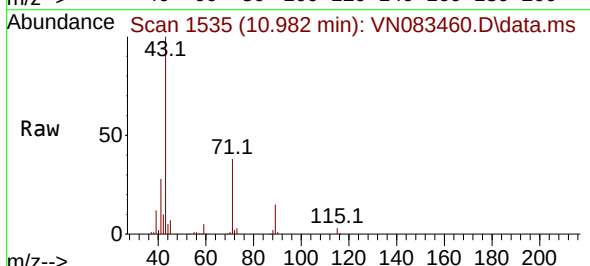
Instrument :  
 MSVOA\_N  
 ClientSampleId :



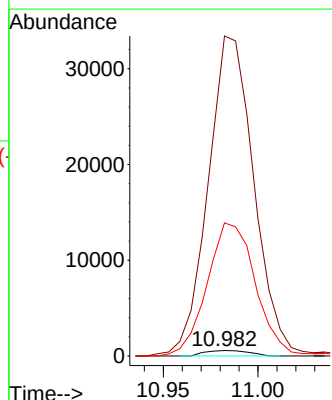
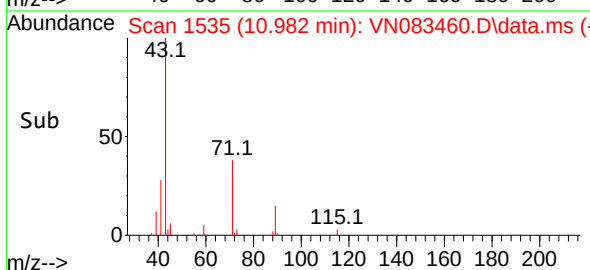
Tgt Ion: 75 Resp: 36783  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.3 36.5#  
 39 33.4 50.5 75.7#

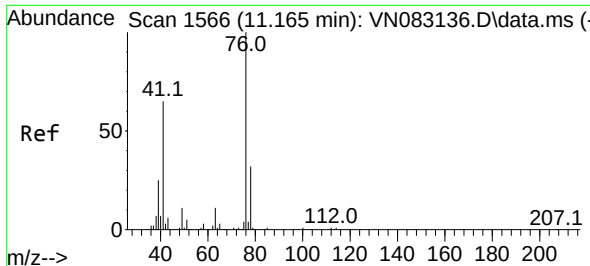


#56  
 Ethyl methacrylate  
 Concen: 0.290 ug/l  
 RT: 10.982 min Scan# 1535  
 Delta R.T. 0.106 min  
 Lab File: VN083460.D  
 Acq: 23 Aug 2024 15:00



Tgt Ion: 69 Resp: 928  
 Ion Ratio Lower Upper  
 69 100  
 41 6105.6 63.4 95.2#  
 39 2683.8 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 1.294 ug/l

RT: 11.200 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN083460.D

Acq: 23 Aug 2024 15:00

Instrument :

MSVOA\_N

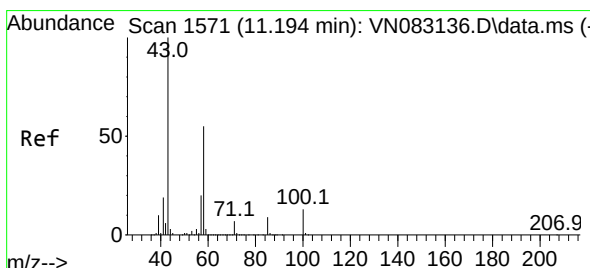
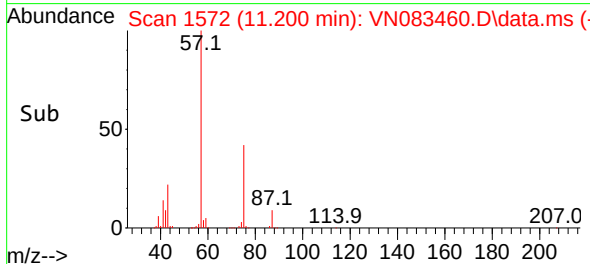
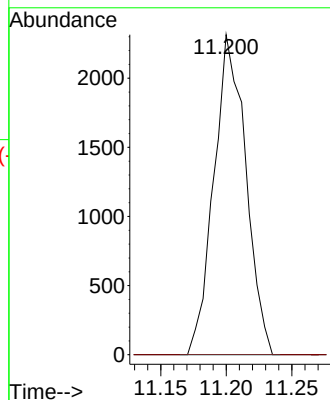
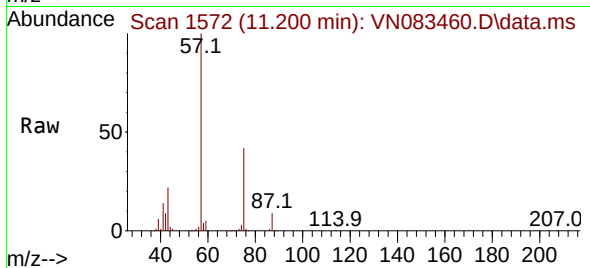
ClientSampleId :

Tgt Ion: 76 Resp: 3921

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 43.012 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN083460.D

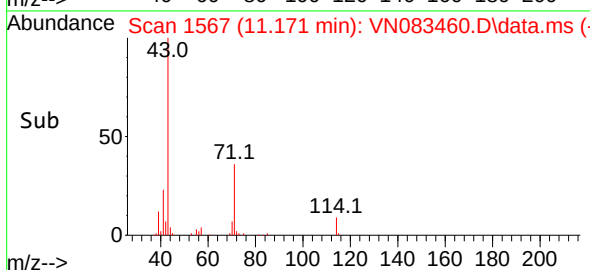
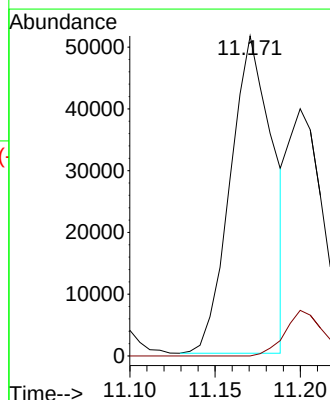
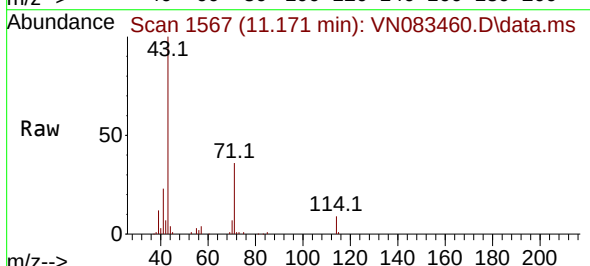
Acq: 23 Aug 2024 15:00

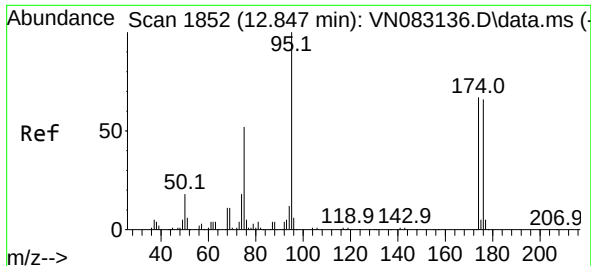
Tgt Ion: 43 Resp: 88766

Ion Ratio Lower Upper

43 100

58 0.0 24.6 73.8#

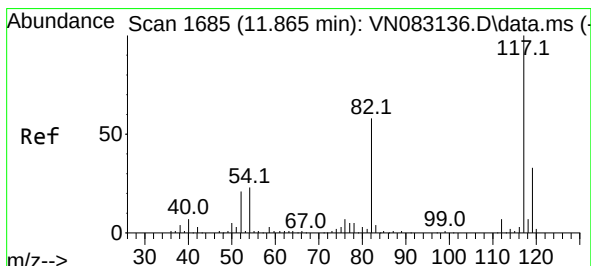
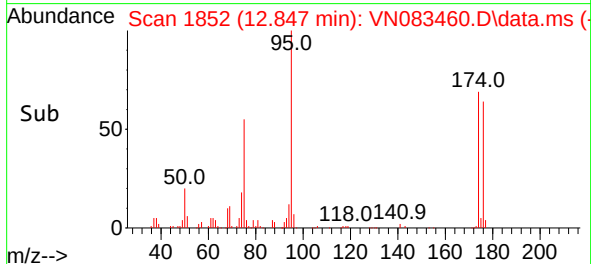
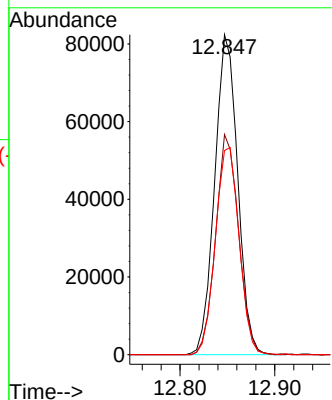
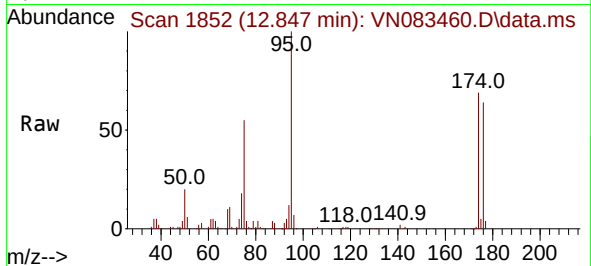




#62  
4-Bromofluorobenzene  
Concen: 57.286 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

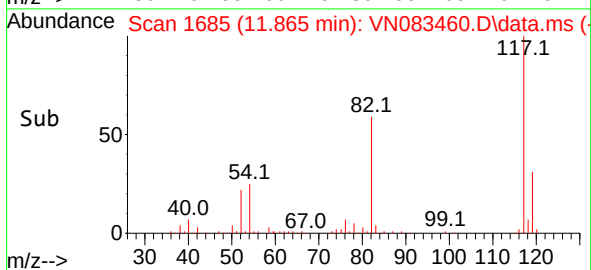
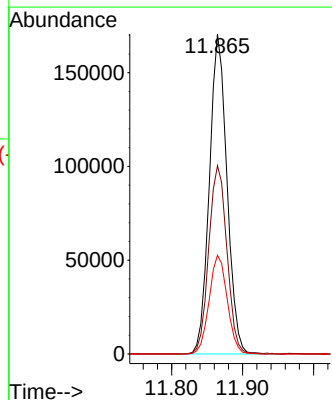
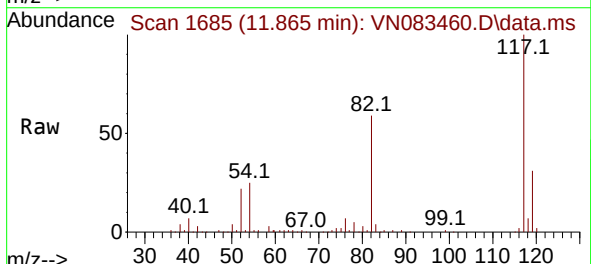
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 95 Resp: 138751  
Ion Ratio Lower Upper  
95 100  
174 68.8 0.0 159.2  
176 67.0 0.0 147.6

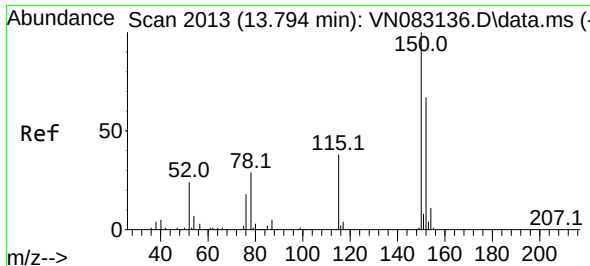


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

Tgt Ion: 117 Resp: 293475  
Ion Ratio Lower Upper  
117 100  
82 58.9 47.5 71.3  
119 30.8 25.6 38.4

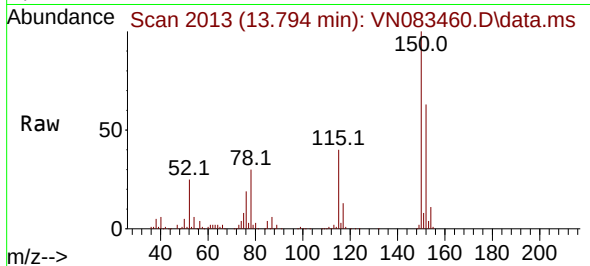




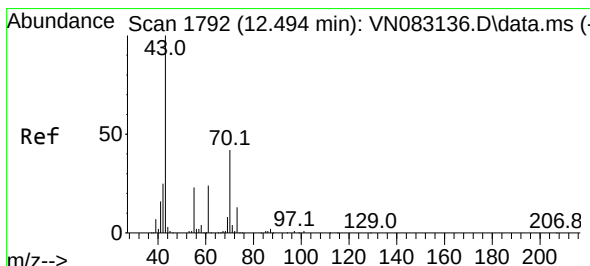
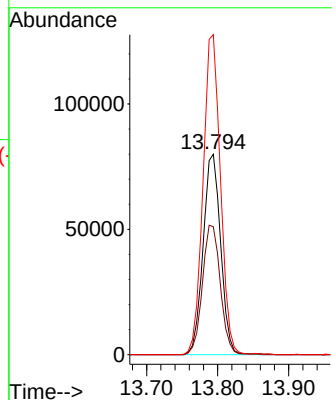
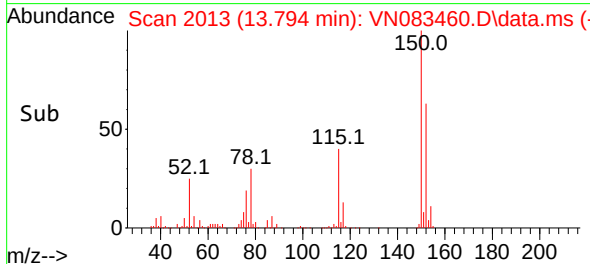


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

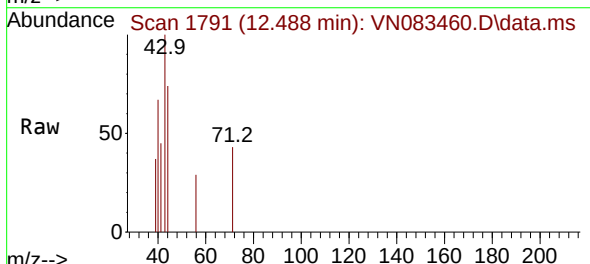
Instrument :  
MSVOA\_N  
ClientSampleId :



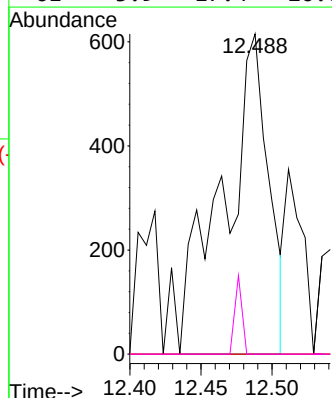
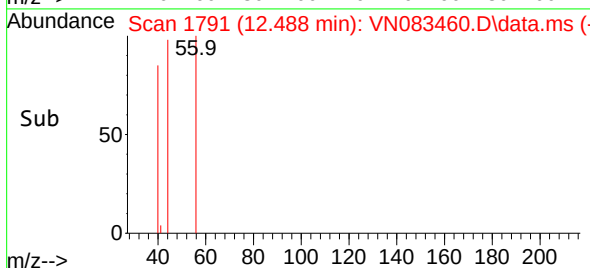
Tgt Ion:152 Resp: 137502  
Ion Ratio Lower Upper  
152 100  
115 66.1 30.6 91.6  
150 158.1 0.0 348.6

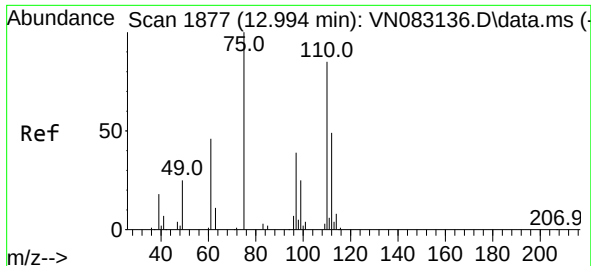


#74  
N-ethyl acetate  
Concen: 0.244 ug/l  
RT: 12.488 min Scan# 1791  
Delta R.T. -0.006 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00



Tgt Ion: 43 Resp: 1373  
Ion Ratio Lower Upper  
43 100  
70 0.0 29.8 44.6#  
55 0.0 18.7 28.1#  
61 3.9 17.4 26.0#

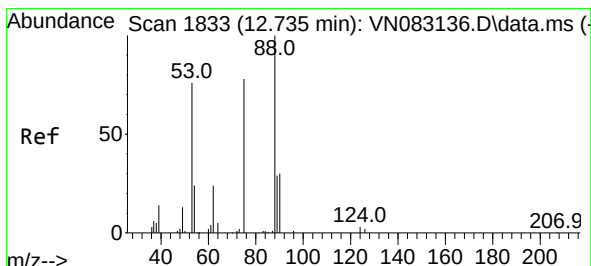
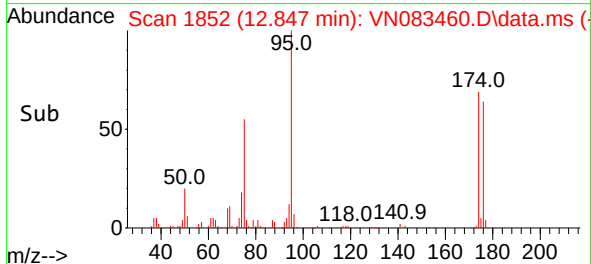
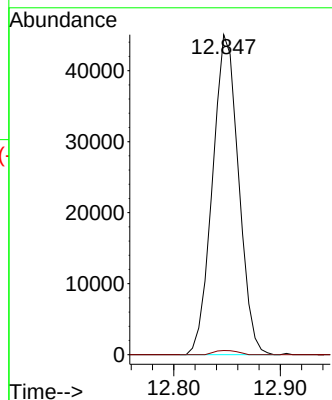
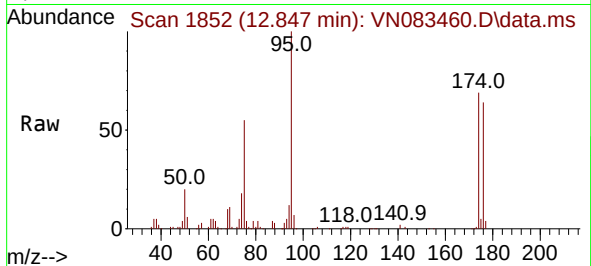




#76  
1,2,3-Trichloropropane  
Concen: 25.396 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 76642  
Ion Ratio Lower Upper  
75 100  
77 1.2 110.9 332.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.243 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN083460.D  
Acq: 23 Aug 2024 15:00

Tgt Ion: 75 Resp: 76642  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.4 132.6#  
89 0.0 36.3 54.5#

