

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022224\  
 Data File : VN081136.D  
 Acq On : 22 Feb 2024 15:35  
 Operator : JC\MD  
 Sample : P1546-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 23 04:26:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

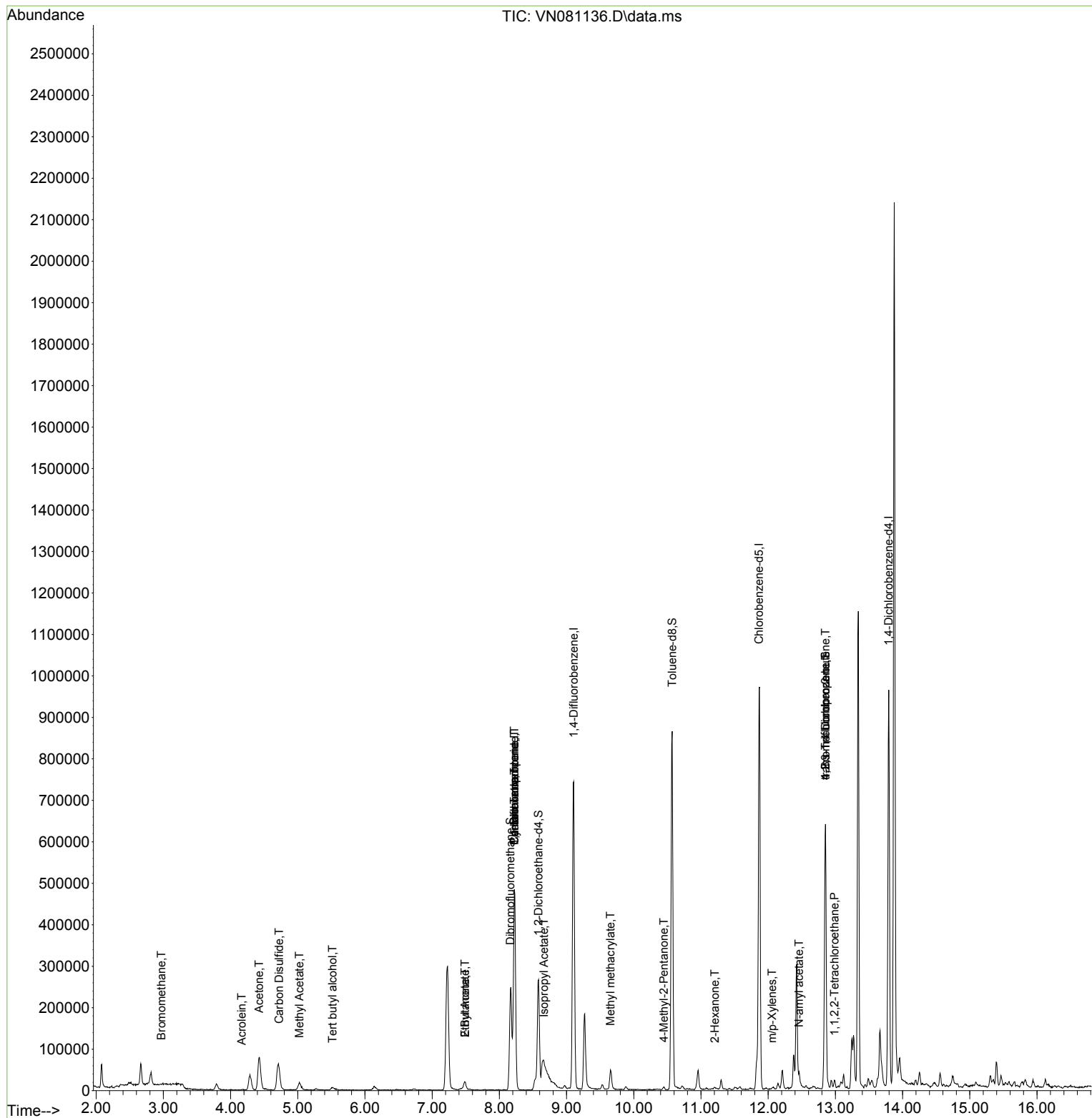
| Compound                      | R.T.   | QIon  | Response | Conc        | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-------------|--------|----------|
| -----                         |        |       |          |             |        |          |
| Internal Standards            |        |       |          |             |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 346834   | 50.000      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 660070   | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 573778   | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 249040   | 50.000      | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |             |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 209678   | 49.322      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery    | =      | 98.640%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 181098   | 48.519      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery    | =      | 97.040%  |
| 50) Toluene-d8                | 10.571 | 98    | 582829   | 43.964      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery    | =      | 87.920%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 221277   | 44.422      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery    | =      | 88.840%  |
| Target Compounds              |        |       |          |             |        |          |
|                               |        |       |          |             | Qvalue |          |
| 3) Chloromethane              | 2.359  | 50    | 1605     | Below Cal   |        | 100      |
| 5) Bromomethane               | 2.971  | 94    | 1028     | 0.291 ug/l  | #      | 20       |
| 6) Chloroethane               | 3.148  | 64    | 1471     | Below Cal   | #      | 42       |
| 11) Tert butyl alcohol        | 5.518  | 59    | 10001    | 12.792 ug/l | #      | 82       |
| 13) Acrolein                  | 4.165  | 56    | 1167     | 2.785 ug/l  |        | 85       |
| 16) Acetone                   | 4.424  | 43    | 151759   | 90.724 ug/l |        | 93       |
| 17) Carbon Disulfide          | 4.724  | 76    | 6053     | 0.553 ug/l  | #      | 78       |
| 18) Methyl Acetate            | 5.024  | 43    | 35472    | 8.693 ug/l  | #      | 87       |
| 20) Methylene Chloride        | 5.283  | 84    | 1710     | Below Cal   | #      | 63       |
| 25) 2-Butanone                | 7.489  | 43    | 31874    | 11.795 ug/l |        | 97       |
| 31) Cyclohexane               | 8.224  | 56    | 8697     | 1.185 ug/l  | #      | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 29838    | 4.666 ug/l  | #      | 52       |
| 37) Ethyl Acetate             | 7.489  | 43    | 31874    | 5.523 ug/l  | #      | 70       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 39881    | 6.164 ug/l  | #      | 17       |
| 43) Isopropyl Acetate         | 8.665  | 43    | 171507   | 16.992 ug/l | #      | 57       |
| 48) Methyl methacrylate       | 9.653  | 41    | 14028    | 2.987 ug/l  | #      | 47       |
| 49) 1,4-Dioxane               | 9.688  | 88    | 1289     | Below Cal   | #      | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 4840     | 0.834 ug/l  |        | 100      |
| 59) 2-Hexanone                | 11.206 | 43    | 2820     | 0.613 ug/l  |        | 98       |
| 68) m/p-Xylenes               | 12.059 | 106   | 2164     | 0.254 ug/l  | #      | 63       |
| 74) N-amyl acetate            | 12.459 | 43    | 20184    | 2.192 ug/l  | #      | 46       |
| 75) 1,1,2,2-Tetrachloroethane | 12.988 | 83    | 13653    | 2.228 ug/l  | #      | 26       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 120465   | 21.290 ug/l | #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 120465   | 54.798 ug/l | #      | 14       |
| -----                         |        |       |          |             |        |          |

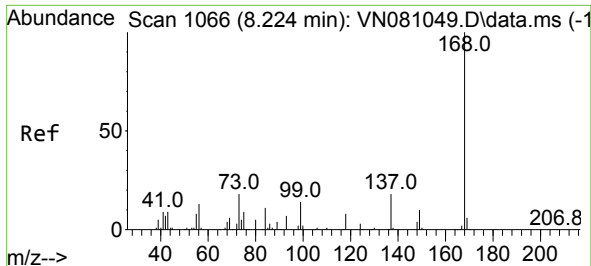
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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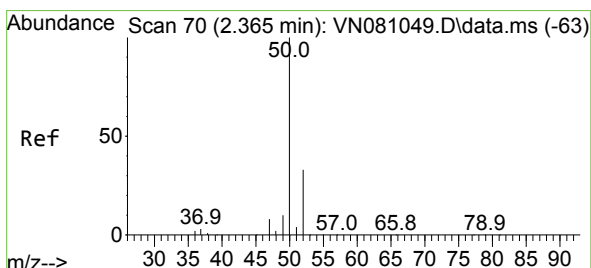
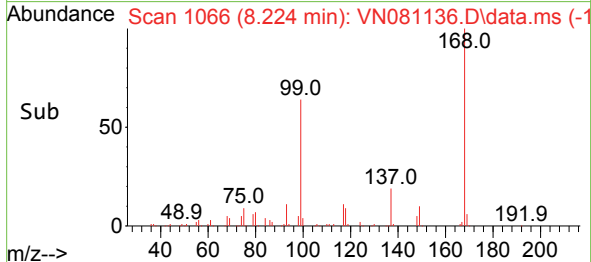
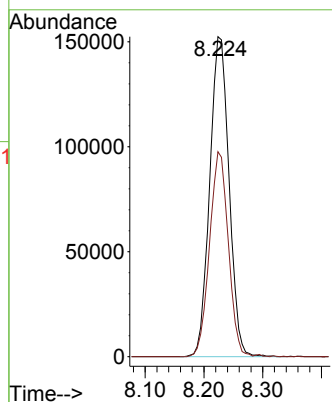
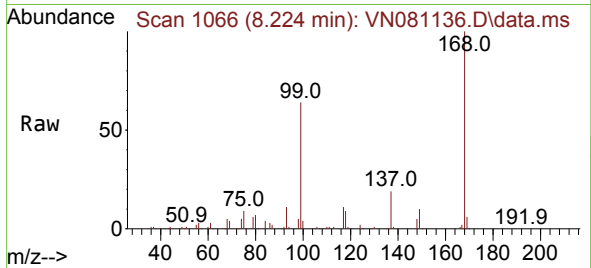




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

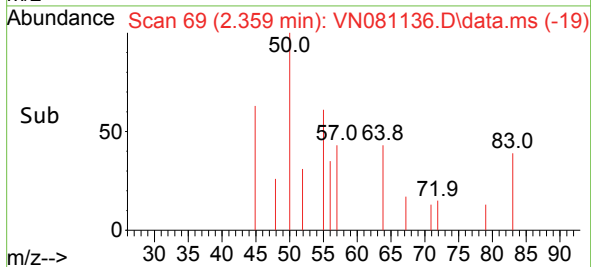
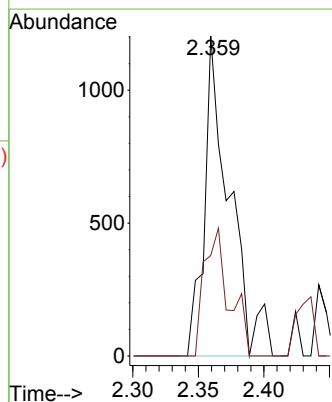
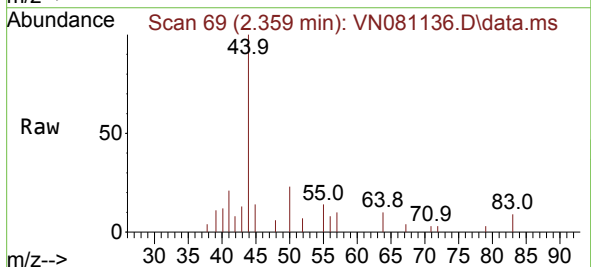
Instrument :  
MSVOA\_N  
ClientSampleId :

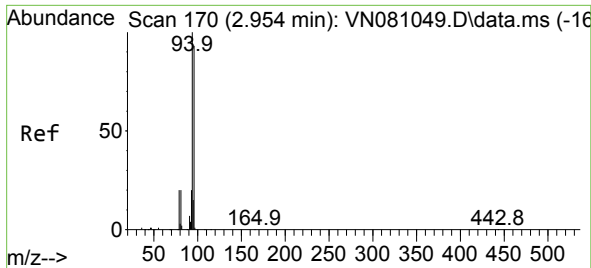
Tgt Ion:168 Resp: 346834  
Ion Ratio Lower Upper  
168 100  
99 64.0 59.9 89.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. -0.006 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 50 Resp: 1605  
Ion Ratio Lower Upper  
50 100  
52 31.4 25.0 37.4





#5

Bromomethane

Concen: 0.291 ug/l

RT: 2.971 min Scan# 11

Delta R.T. 0.017 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Instrument :

MSVOA\_N

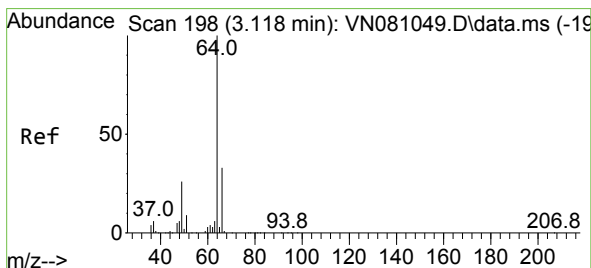
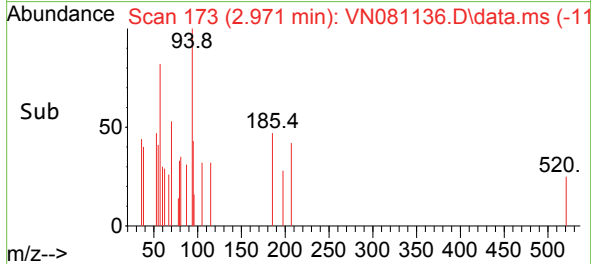
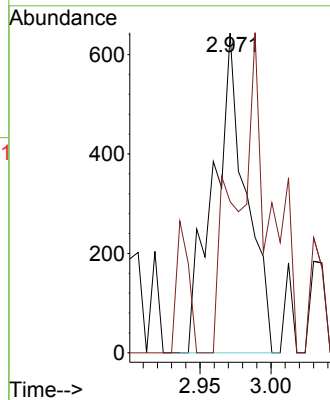
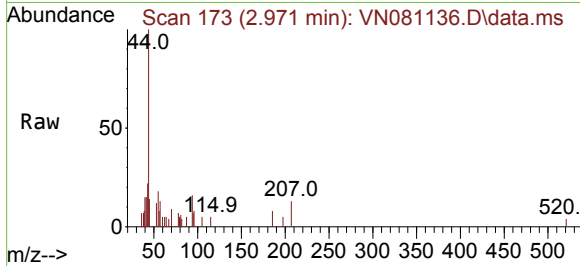
ClientSampleId :

Tgt Ion: 94 Resp: 1028

Ion Ratio Lower Upper

94 100

96 12.8 69.2 103.8#



#6

Chloroethane

Concen: Below Cal

RT: 3.148 min Scan# 203

Delta R.T. 0.030 min

Lab File: VN081136.D

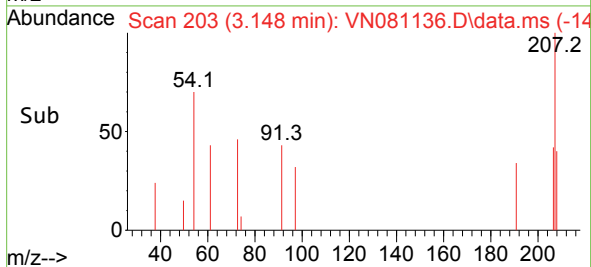
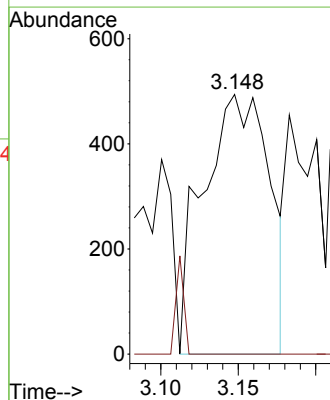
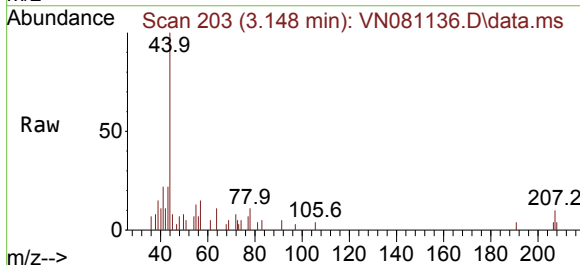
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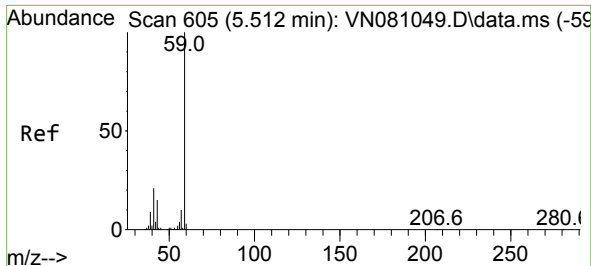
Tgt Ion: 64 Resp: 1471

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#

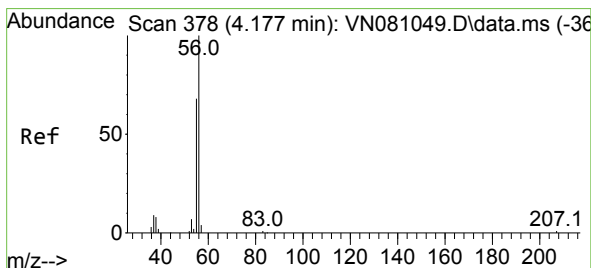
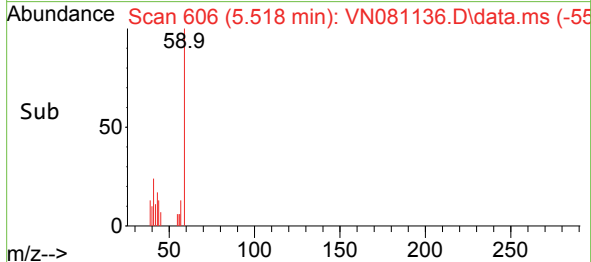
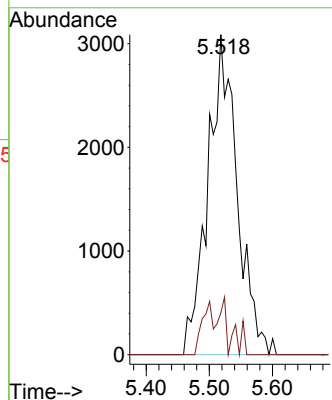
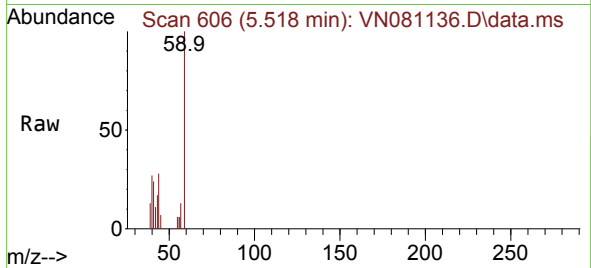




#11  
Tert butyl alcohol  
Concen: 12.792 ug/l  
RT: 5.518 min Scan# 605  
Delta R.T. 0.006 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

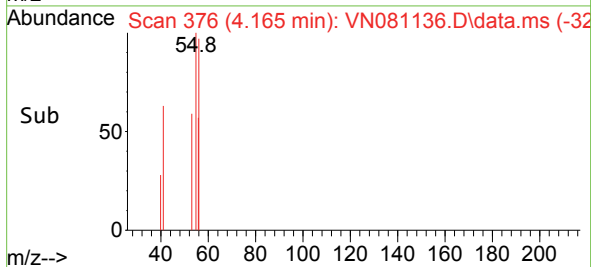
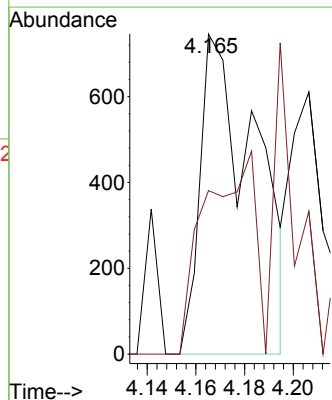
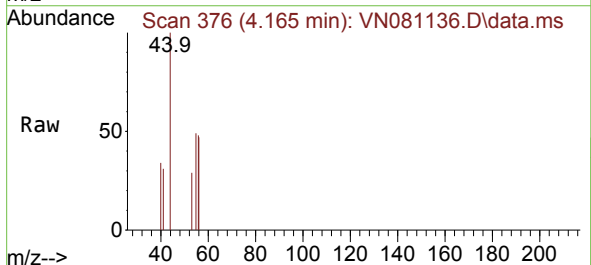
Instrument :  
MSVOA\_N  
ClientSampleId :

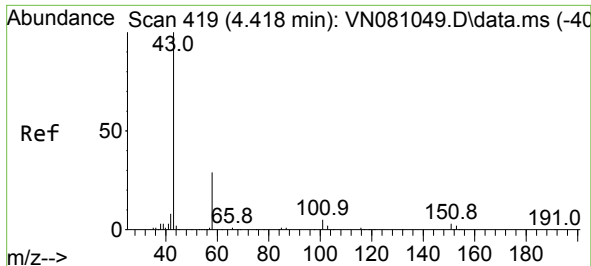
Tgt Ion: 59 Resp: 10001  
Ion Ratio Lower Upper  
59 100  
57 4.0 8.6 12.8#



#13  
Acrolein  
Concen: 2.785 ug/l  
RT: 4.165 min Scan# 376  
Delta R.T. -0.012 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 56 Resp: 1167  
Ion Ratio Lower Upper  
56 100  
55 57.2 55.3 82.9

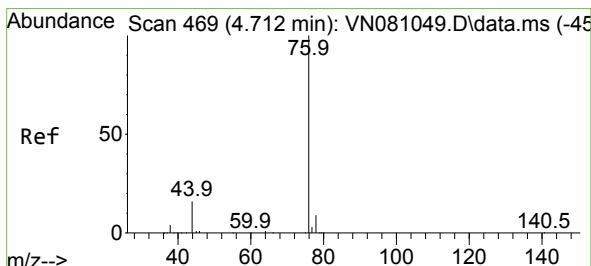
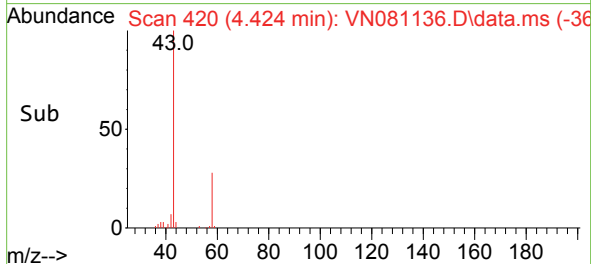
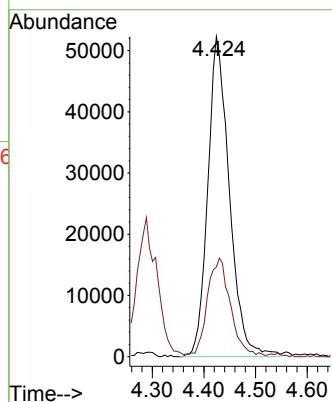
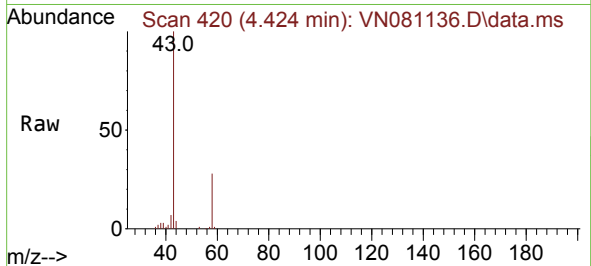




#16  
Acetone  
Concen: 90.724 ug/l  
RT: 4.424 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

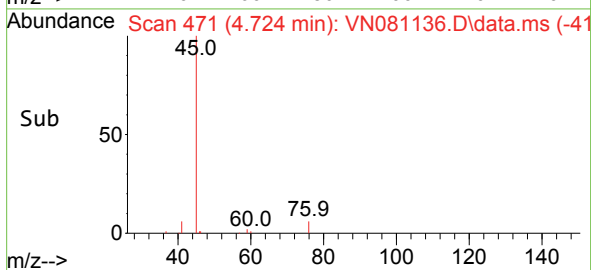
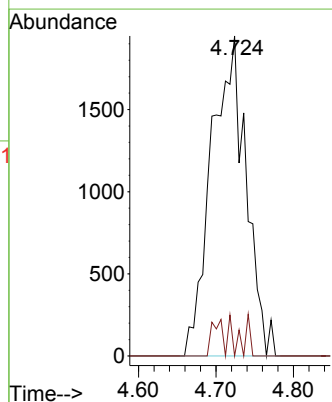
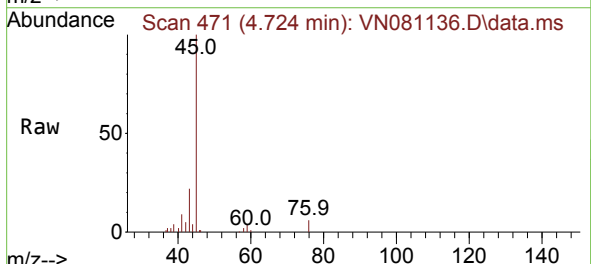
Instrument :  
MSVOA\_N  
ClientSampleId :

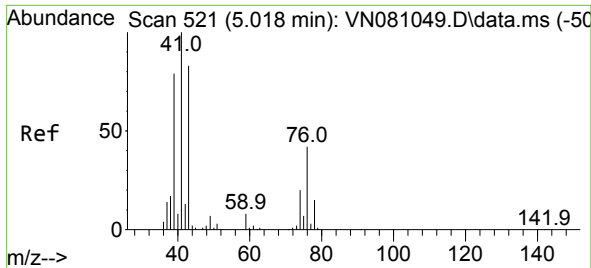
Tgt Ion: 43 Resp: 151759  
Ion Ratio Lower Upper  
43 100  
58 27.3 24.8 37.2



#17  
Carbon Disulfide  
Concen: 0.553 ug/l  
RT: 4.724 min Scan# 471  
Delta R.T. 0.012 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 76 Resp: 6053  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.3 9.5#

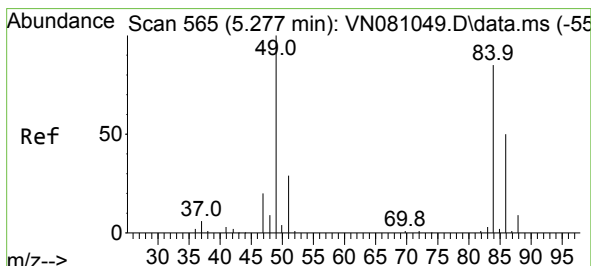
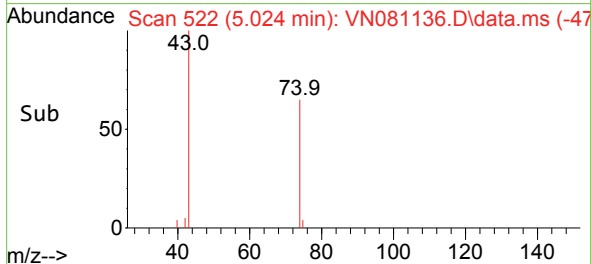
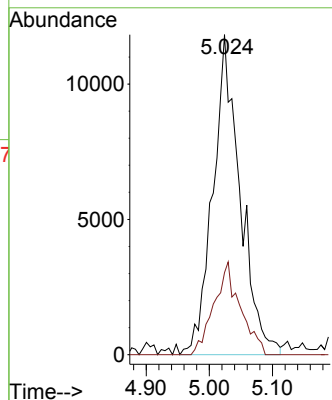
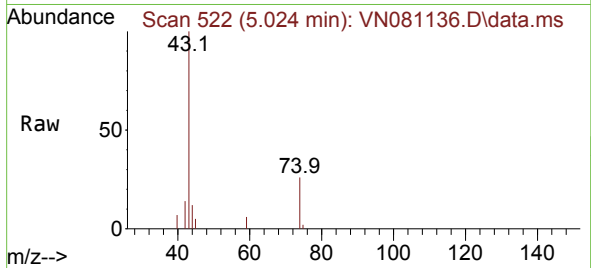




#18  
Methyl Acetate  
Concen: 8.693 ug/l  
RT: 5.024 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

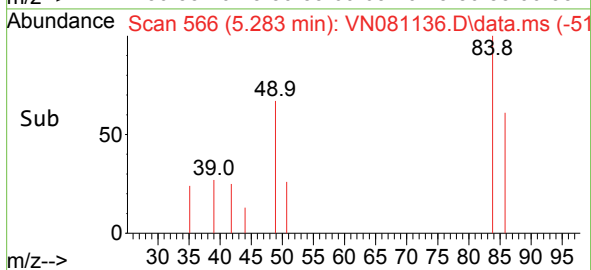
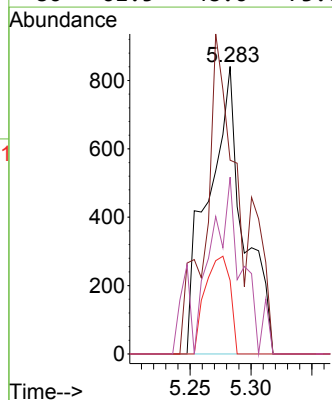
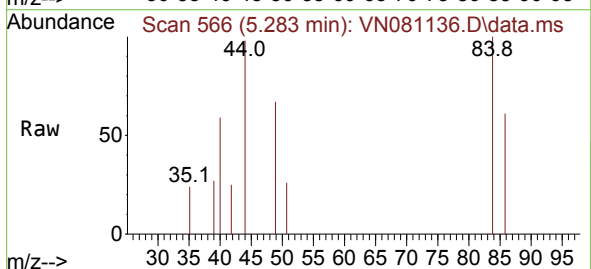
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ClientSampleId :

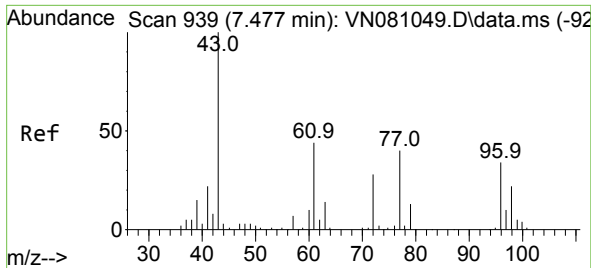
Tgt Ion: 43 Resp: 35472  
Ion Ratio Lower Upper  
43 100  
74 27.9 17.3 25.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.283 min Scan# 566  
Delta R.T. 0.006 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 84 Resp: 1710  
Ion Ratio Lower Upper  
84 100  
49 67.4 108.1 162.1#  
51 25.6 32.9 49.3#  
86 61.5 48.6 73.0

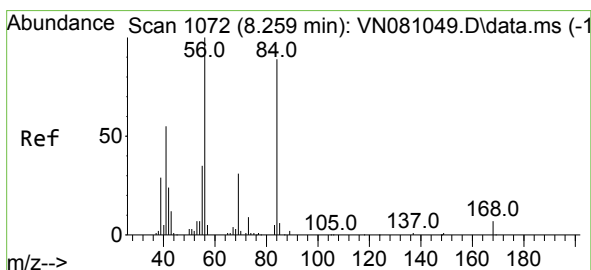
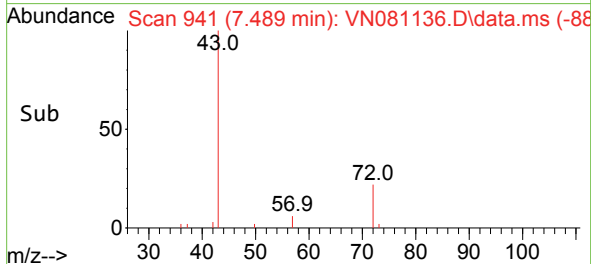
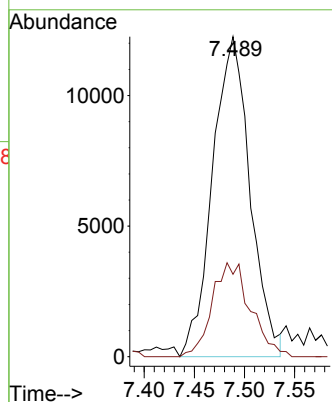
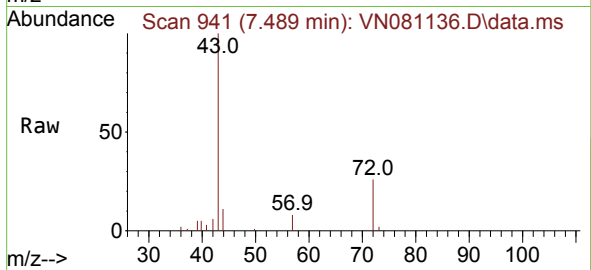




#25  
2-Butanone  
Concen: 11.795 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

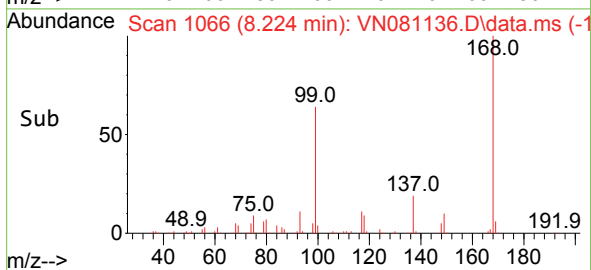
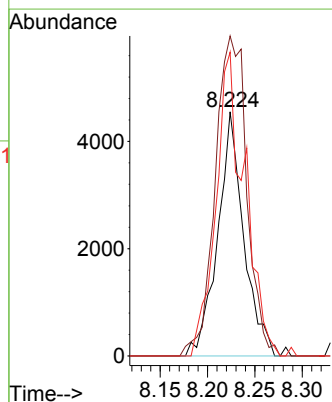
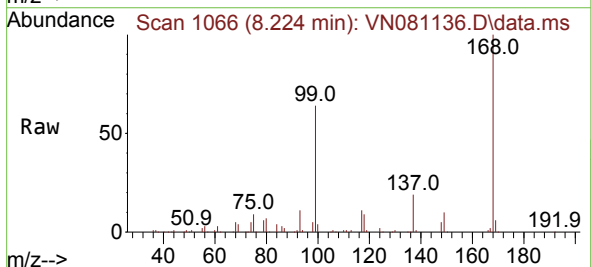
Instrument :  
MSVOA\_N  
ClientSampleId :

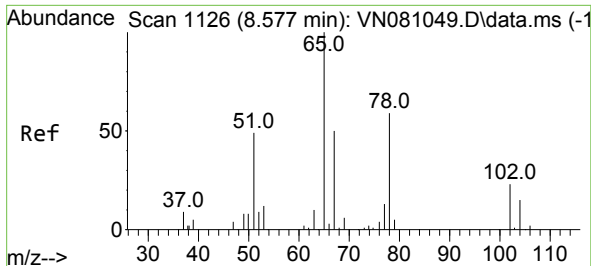
Tgt Ion: 43 Resp: 31874  
Ion Ratio Lower Upper  
43 100  
72 25.8 19.5 29.3



#31  
Cyclohexane  
Concen: 1.185 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 56 Resp: 8697  
Ion Ratio Lower Upper  
56 100  
69 131.1 20.1 30.1#  
84 124.4 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 49.322 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Instrument :

MSVOA\_N

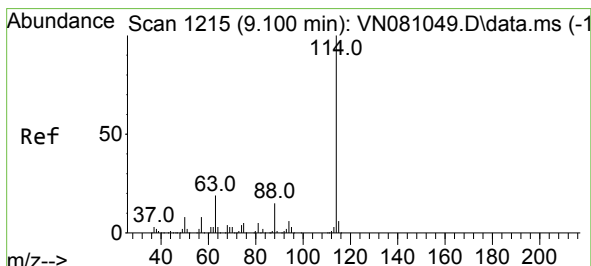
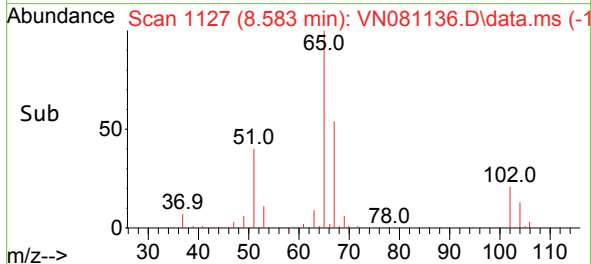
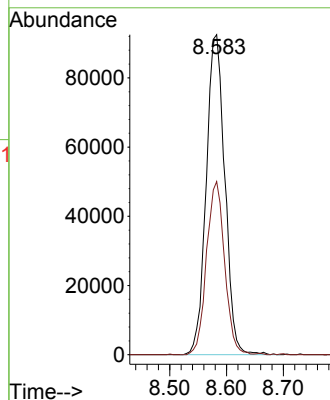
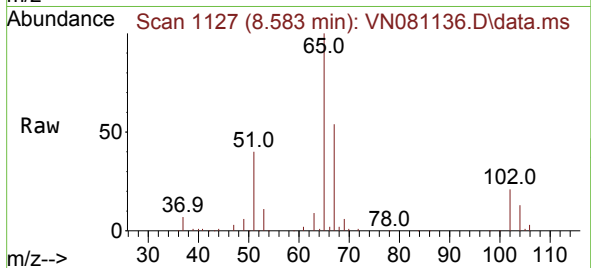
ClientSampleId :

Tgt Ion: 65 Resp: 209678

Ion Ratio Lower Upper

65 100

67 52.6 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

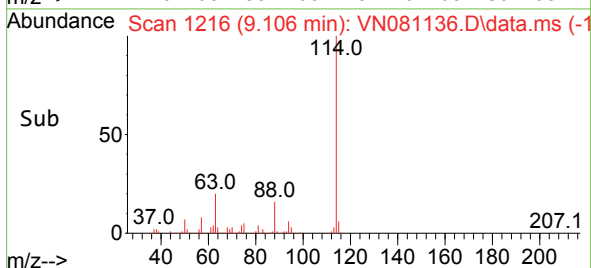
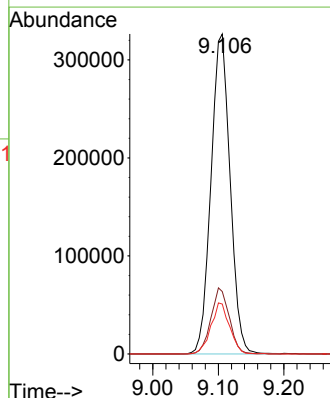
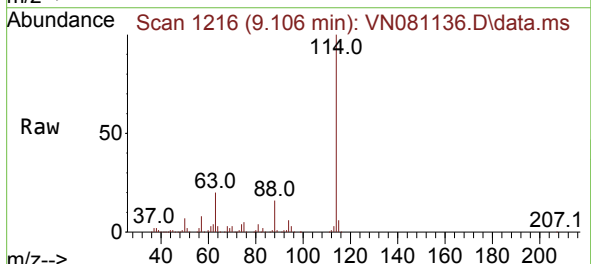
Tgt Ion: 114 Resp: 660070

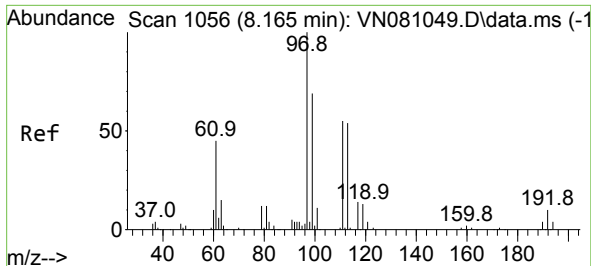
Ion Ratio Lower Upper

114 100

63 19.5 0.0 48.0

88 15.6 0.0 34.8





#35

Dibromofluoromethane

Concen: 48.519 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Instrument :

MSVOA\_N

ClientSampleId :

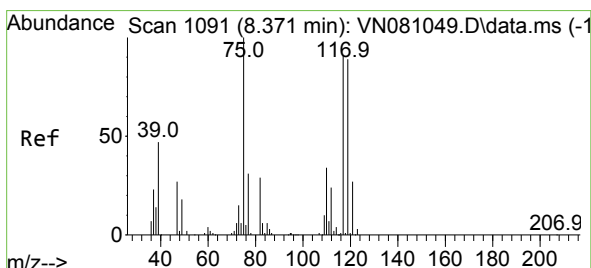
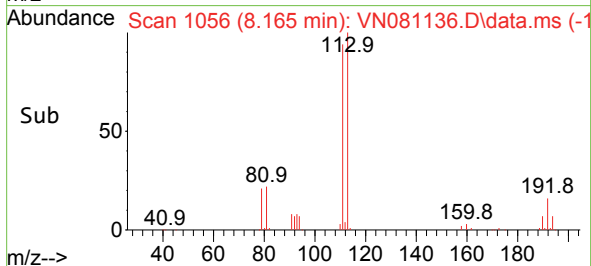
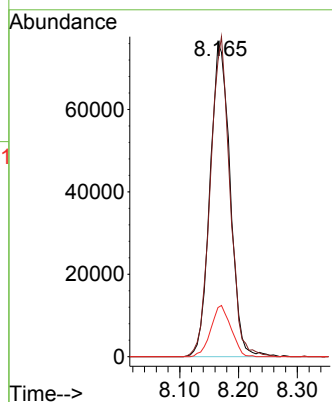
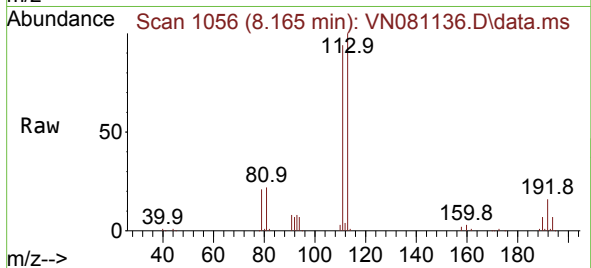
Tgt Ion:113 Resp: 181098

Ion Ratio Lower Upper

113 100

111 98.9 82.2 123.4

192 16.3 12.5 18.7



#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

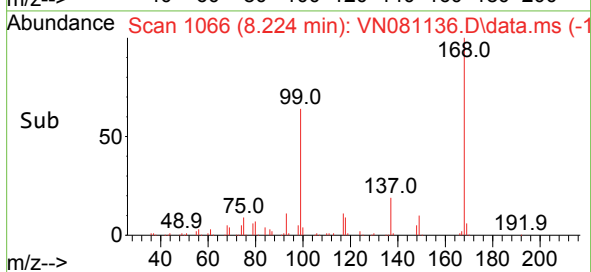
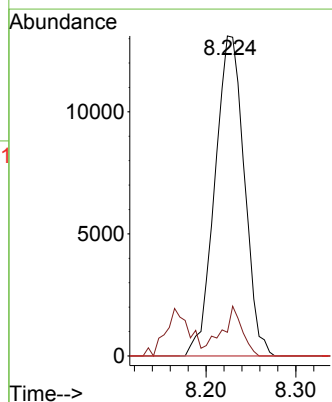
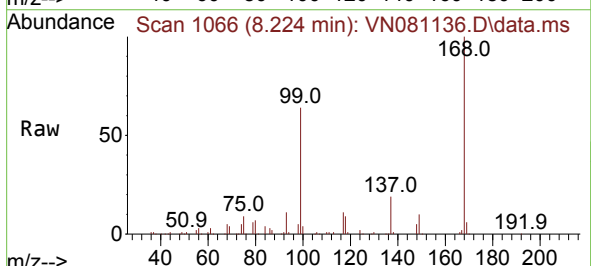
Tgt Ion: 75 Resp: 29838

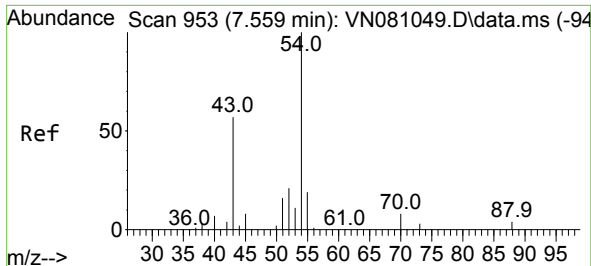
Ion Ratio Lower Upper

75 100

110 10.4 16.0 48.0#

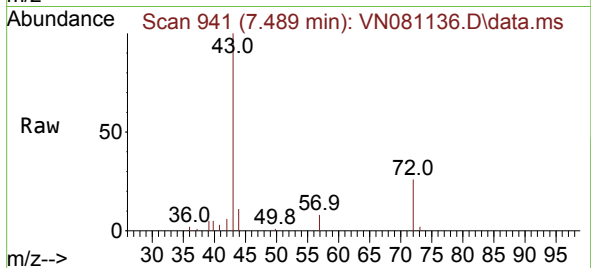
77 0.0 25.8 38.6#



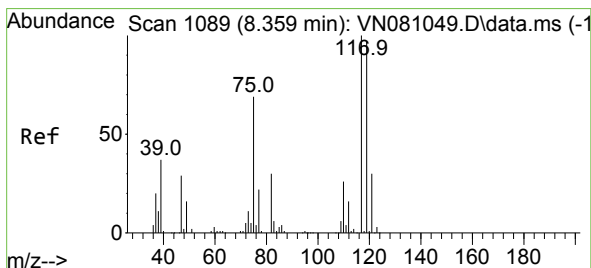
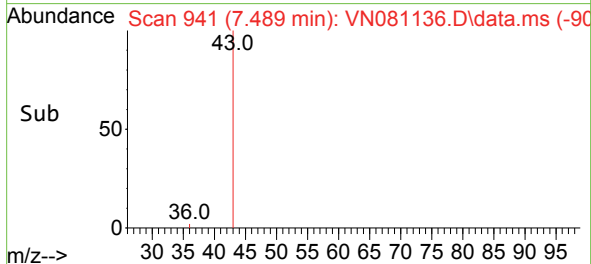
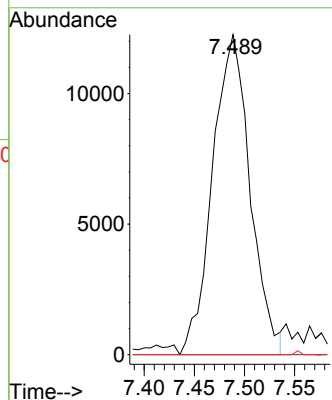


#37  
Ethyl Acetate  
Concen: 5.523 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. -0.071 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Instrument :  
MSVOA\_N  
ClientSampleId :

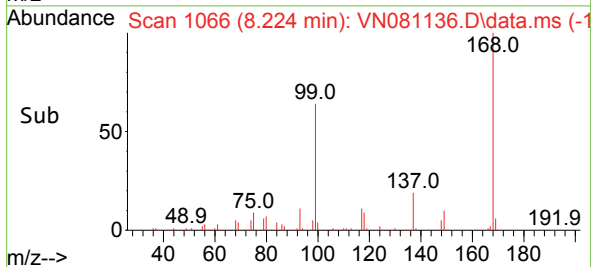
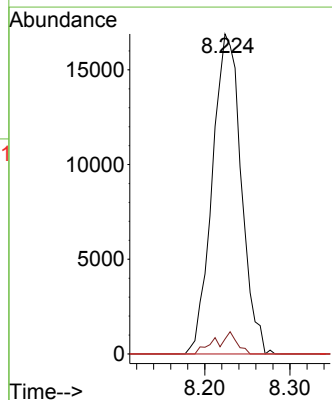
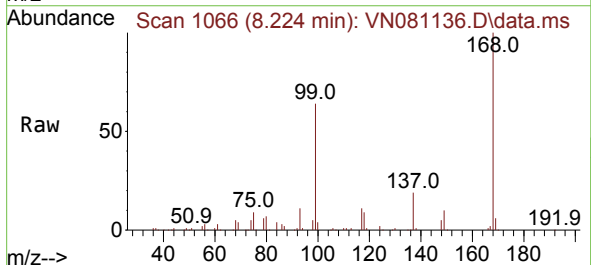


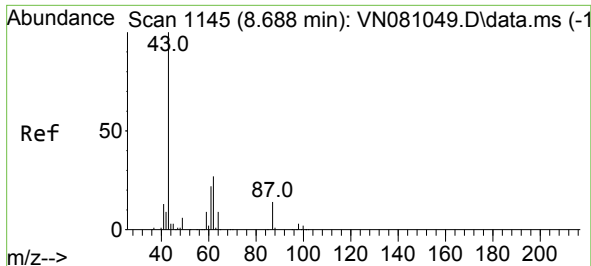
Tgt Ion: 43 Resp: 31874  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 15.8#  
70 0.0 8.0 12.0#



#38  
Carbon Tetrachloride  
Concen: 6.164 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

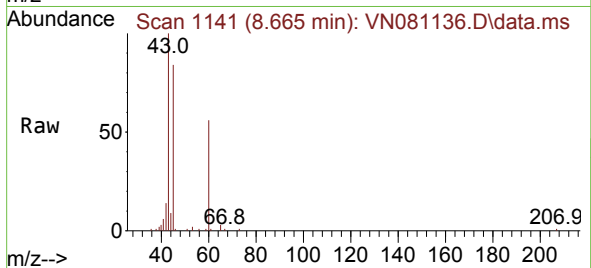
Tgt Ion: 117 Resp: 39881  
Ion Ratio Lower Upper  
117 100  
119 4.7 73.4 110.2#  
121 0.0 24.4 36.6#



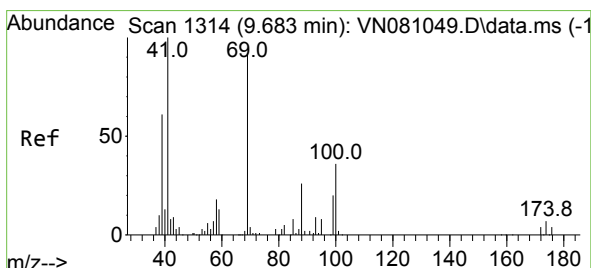
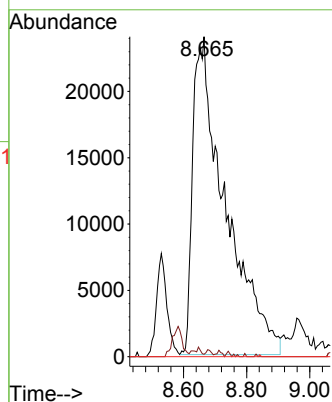
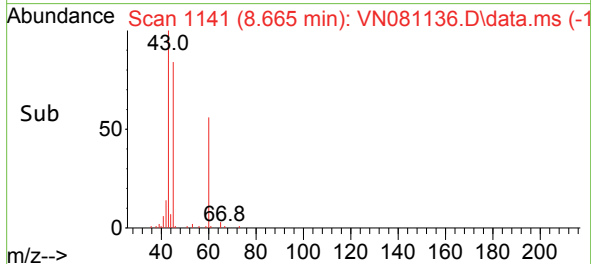


#43  
Isopropyl Acetate  
Concen: 16.992 ug/l  
RT: 8.665 min Scan# 1141  
Delta R.T. -0.024 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

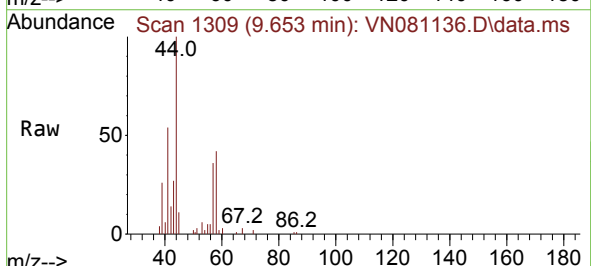
Instrument :  
MSVOA\_N  
ClientSampleId :



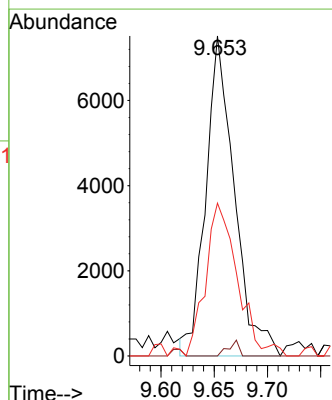
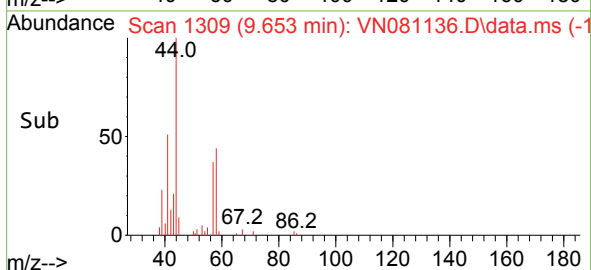
Tgt Ion: 43 Resp: 171507  
Ion Ratio Lower Upper  
43 100  
61 0.4 19.9 29.9#  
87 0.0 9.0 13.6#

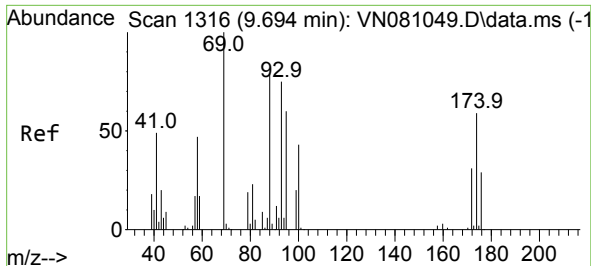


#48  
Methyl methacrylate  
Concen: 2.987 ug/l  
RT: 9.653 min Scan# 1309  
Delta R.T. -0.029 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35



Tgt Ion: 41 Resp: 14028  
Ion Ratio Lower Upper  
41 100  
69 1.8 62.2 93.2#  
39 53.2 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

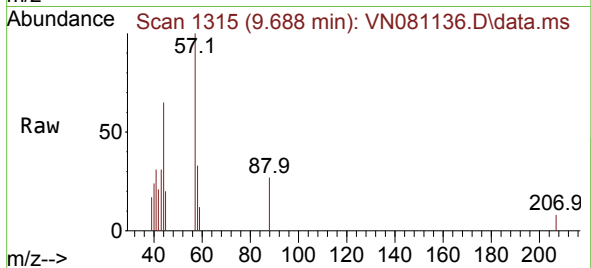
Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Instrument :

MSVOA\_N

ClientSampleId :



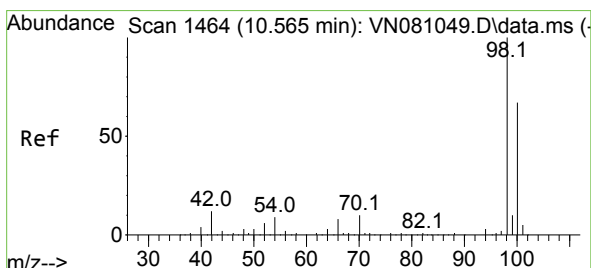
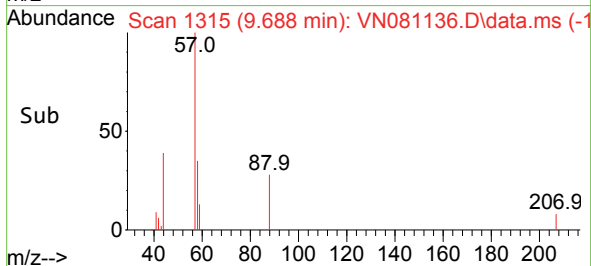
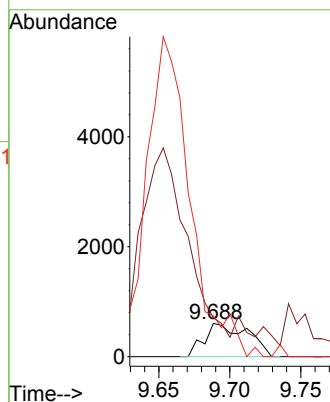
Tgt Ion: 88 Resp: 1289

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 43.964 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081136.D

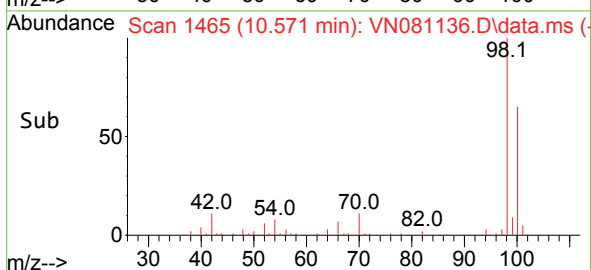
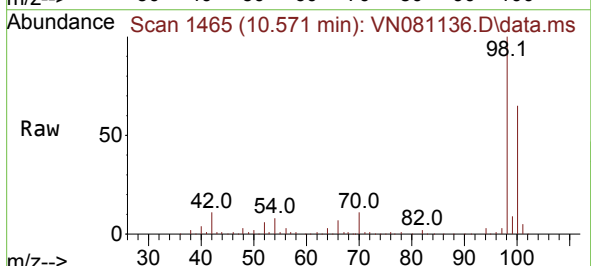
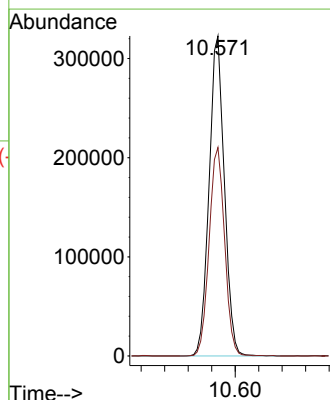
Acq: 22 Feb 2024 15:35

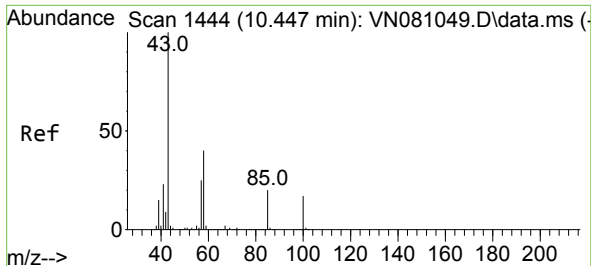
Tgt Ion: 98 Resp: 582829

Ion Ratio Lower Upper

98 100

100 66.1 51.4 77.0

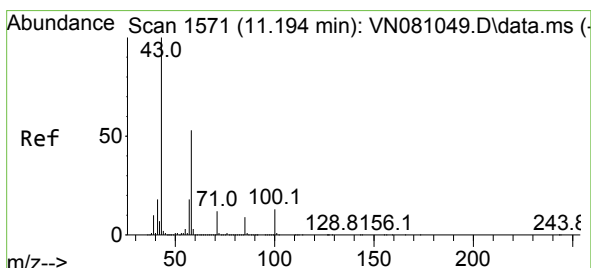
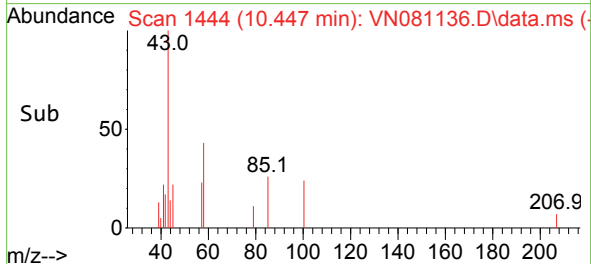
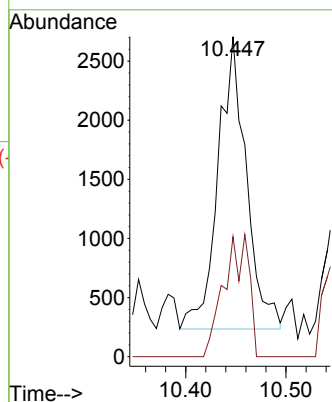
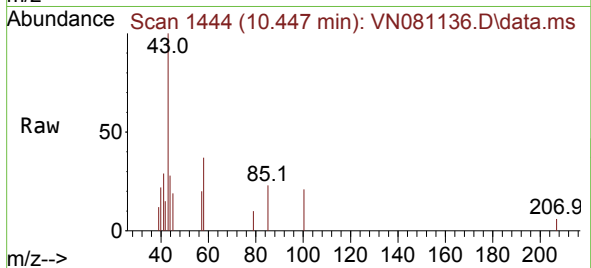




#51  
4-Methyl-2-Pentanone  
Concen: 0.834 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

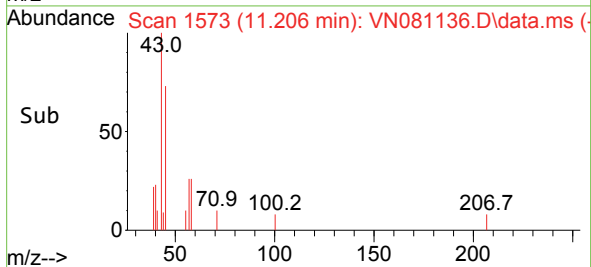
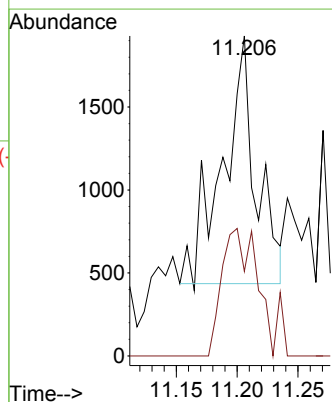
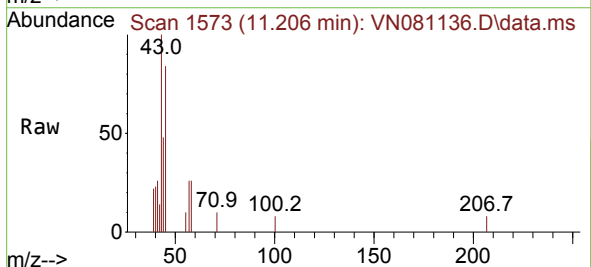
Instrument :  
MSVOA\_N  
ClientSampleId :

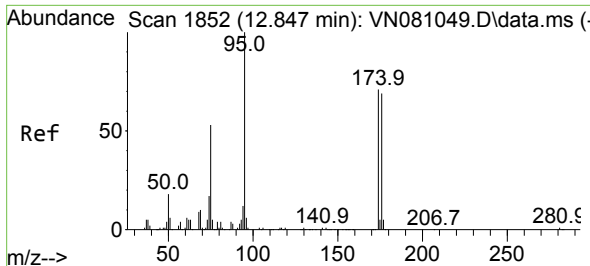
Tgt Ion: 43 Resp: 4840  
Ion Ratio Lower Upper  
43 100  
58 36.7 29.4 44.0



#59  
2-Hexanone  
Concen: 0.613 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.012 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 43 Resp: 2820  
Ion Ratio Lower Upper  
43 100  
58 53.6 25.9 77.8

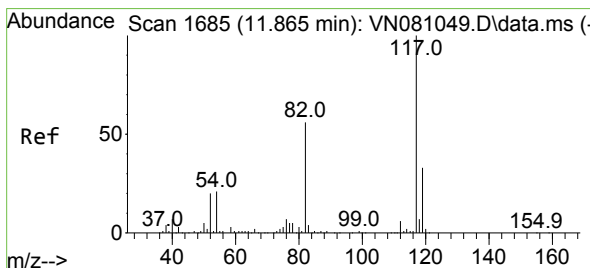
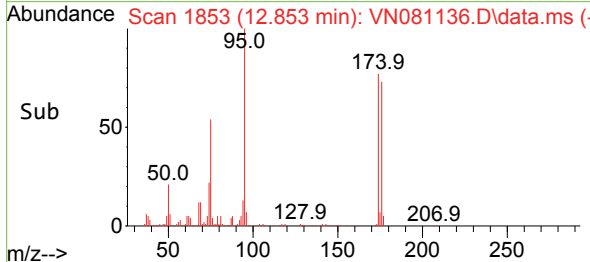
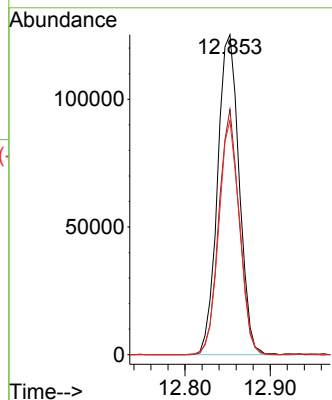
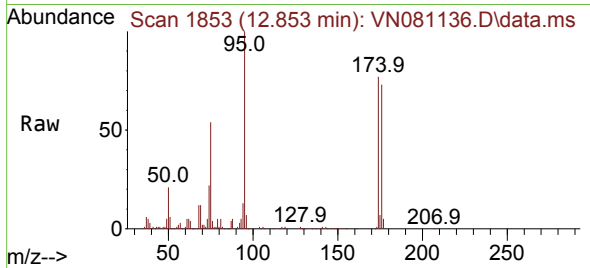




#62  
4-Bromofluorobenzene  
Concen: 44.422 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

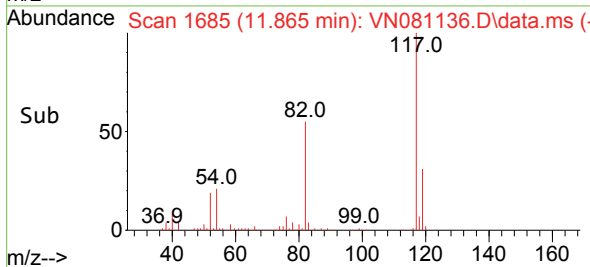
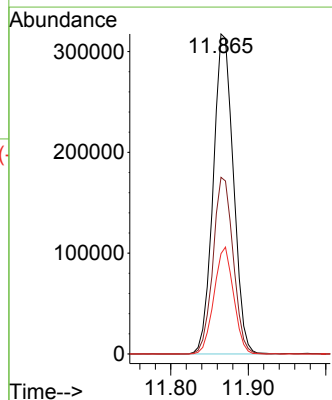
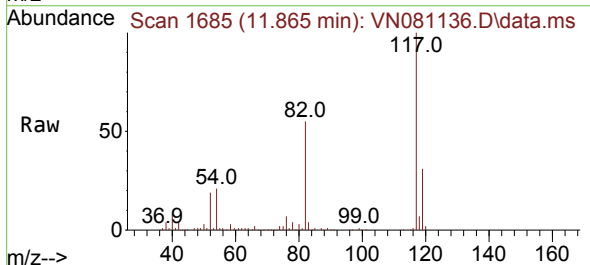
Instrument :  
MSVOA\_N  
ClientSampleId :

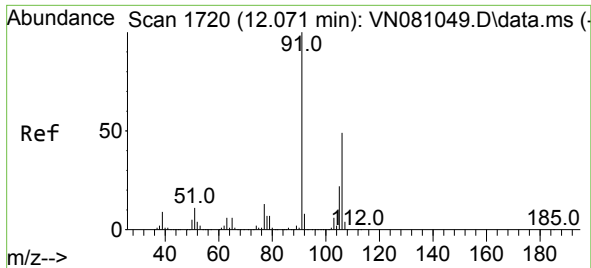
Tgt Ion: 95 Resp: 221277  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 120.4  
176 70.2 0.0 121.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion: 117 Resp: 573778  
Ion Ratio Lower Upper  
117 100  
82 55.2 52.7 79.1  
119 31.3 25.3 37.9

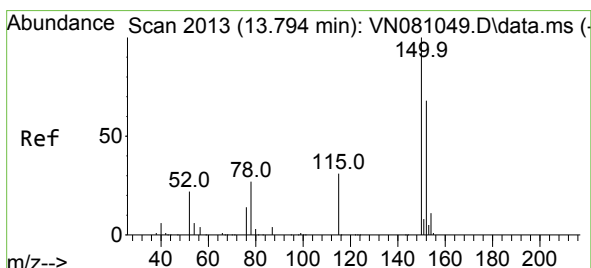
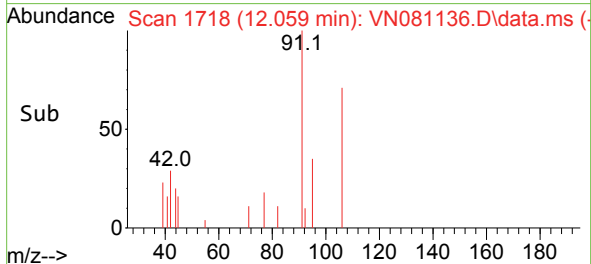
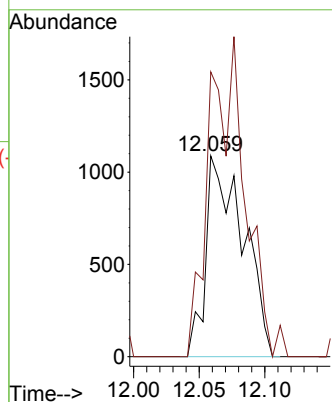
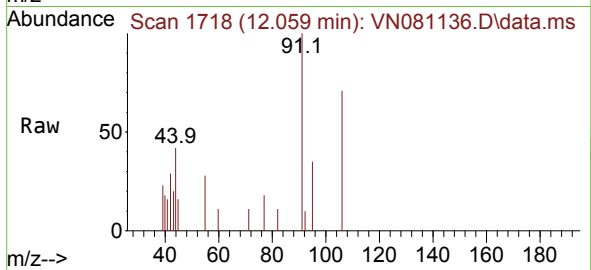




#68  
m/p-Xylenes  
Concen: 0.254 ug/l  
RT: 12.059 min Scan# 1718  
Delta R.T. -0.012 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

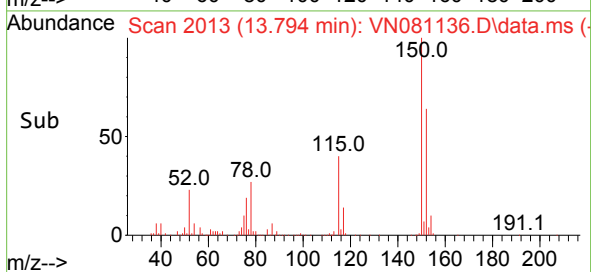
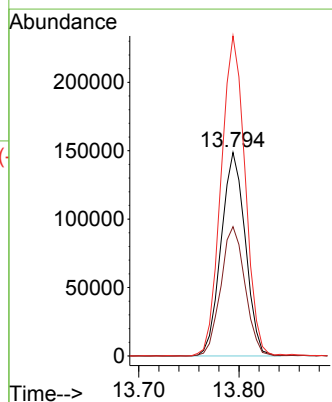
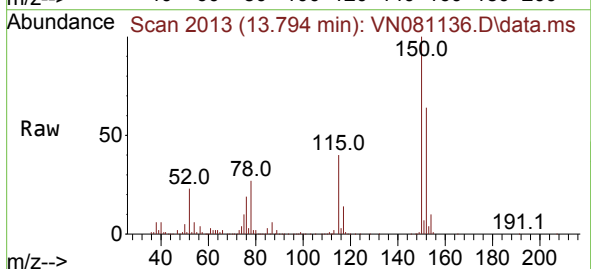
Instrument :  
MSVOA\_N  
ClientSampleId :

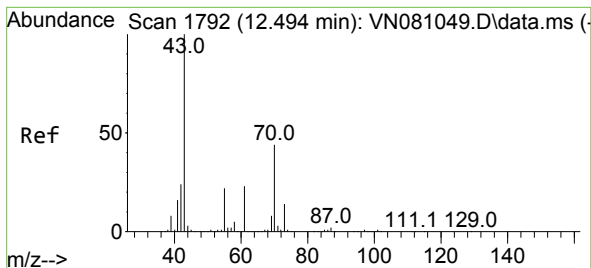
Tgt Ion:106 Resp: 2164  
Ion Ratio Lower Upper  
106 100  
91 153.2 169.0 253.6#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN081136.D  
Acq: 22 Feb 2024 15:35

Tgt Ion:152 Resp: 249040  
Ion Ratio Lower Upper  
152 100  
115 63.7 32.3 96.8  
150 157.1 0.0 339.8





#74

N-amy1 acetate

Concen: 2.192 ug/l

RT: 12.459 min Scan# 1

Delta R.T. -0.035 min

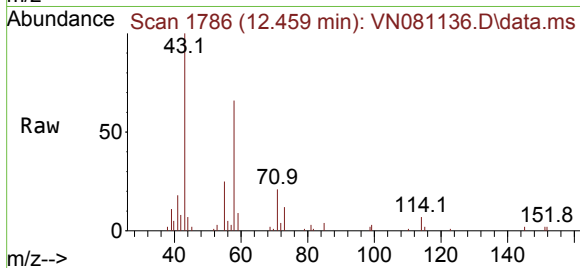
Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion: 43 Resp: 20184

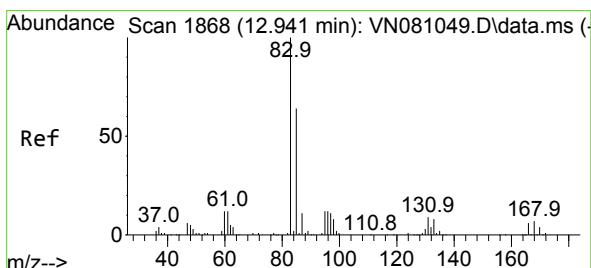
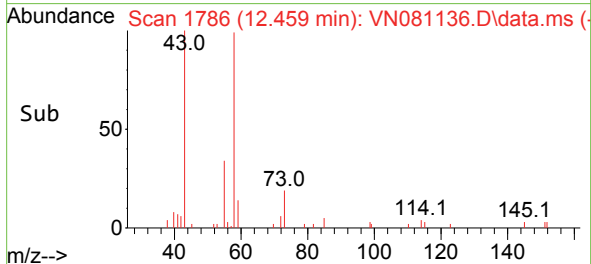
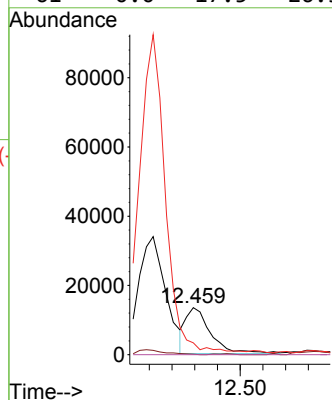
Ion Ratio Lower Upper

43 100

70 0.0 30.1 45.1#

55 0.0 17.0 25.4#

61 0.0 17.5 26.3#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.228 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. 0.047 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

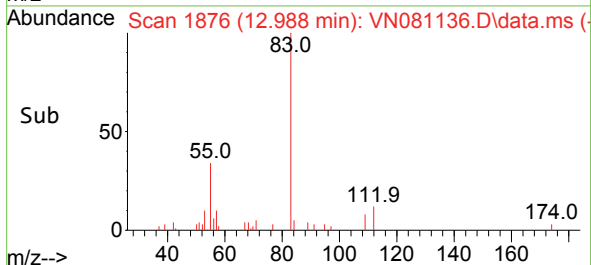
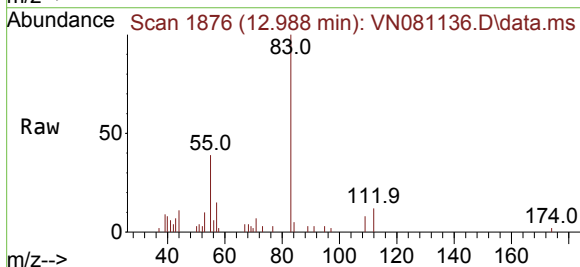
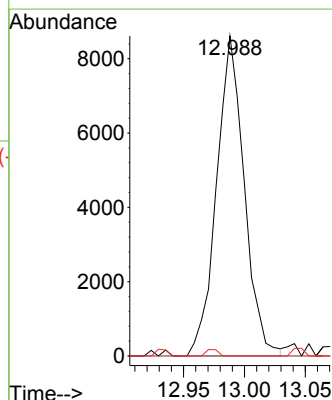
Tgt Ion: 83 Resp: 13653

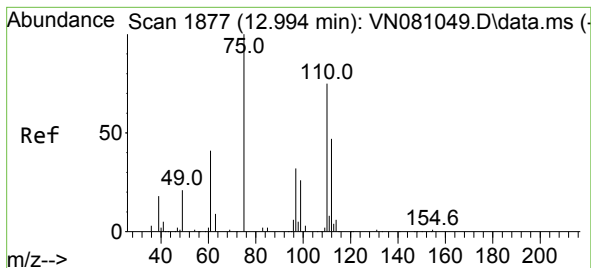
Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

85 0.9 32.1 96.3#





#76

1,2,3-Trichloropropane

Concen: 21.290 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Instrument :

MSVOA\_N

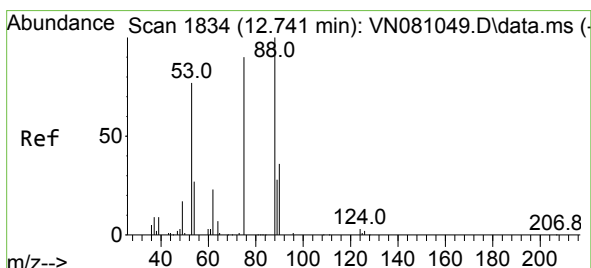
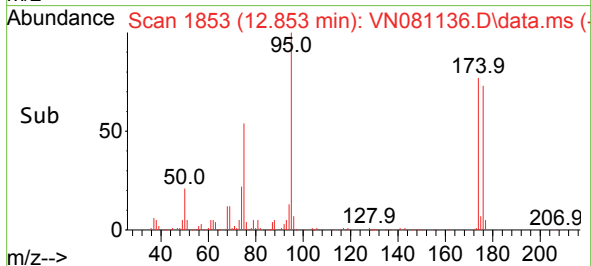
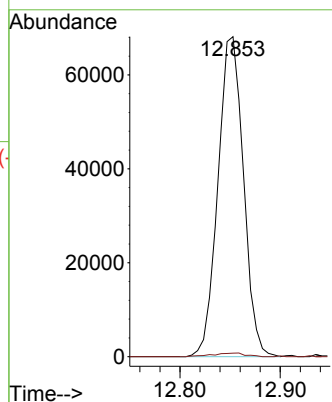
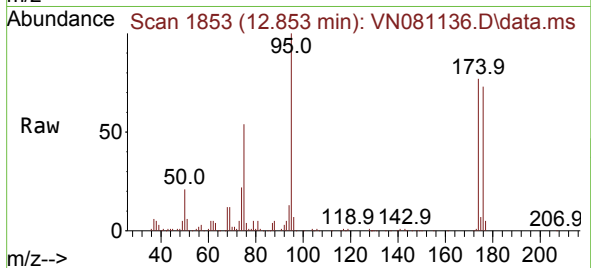
ClientSampleId :

Tgt Ion: 75 Resp: 120465

Ion Ratio Lower Upper

75 100

77 1.5 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.798 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081136.D

Acq: 22 Feb 2024 15:35

Tgt Ion: 75 Resp: 120465

Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#

