

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070324\  
 Data File : VN082808.D  
 Acq On : 03 Jul 2024 17:16  
 Operator : JC\MD  
 Sample : P3152-07  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 04 00:02:10 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062724W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 28 06:02:21 2024  
 Response via : Initial Calibration

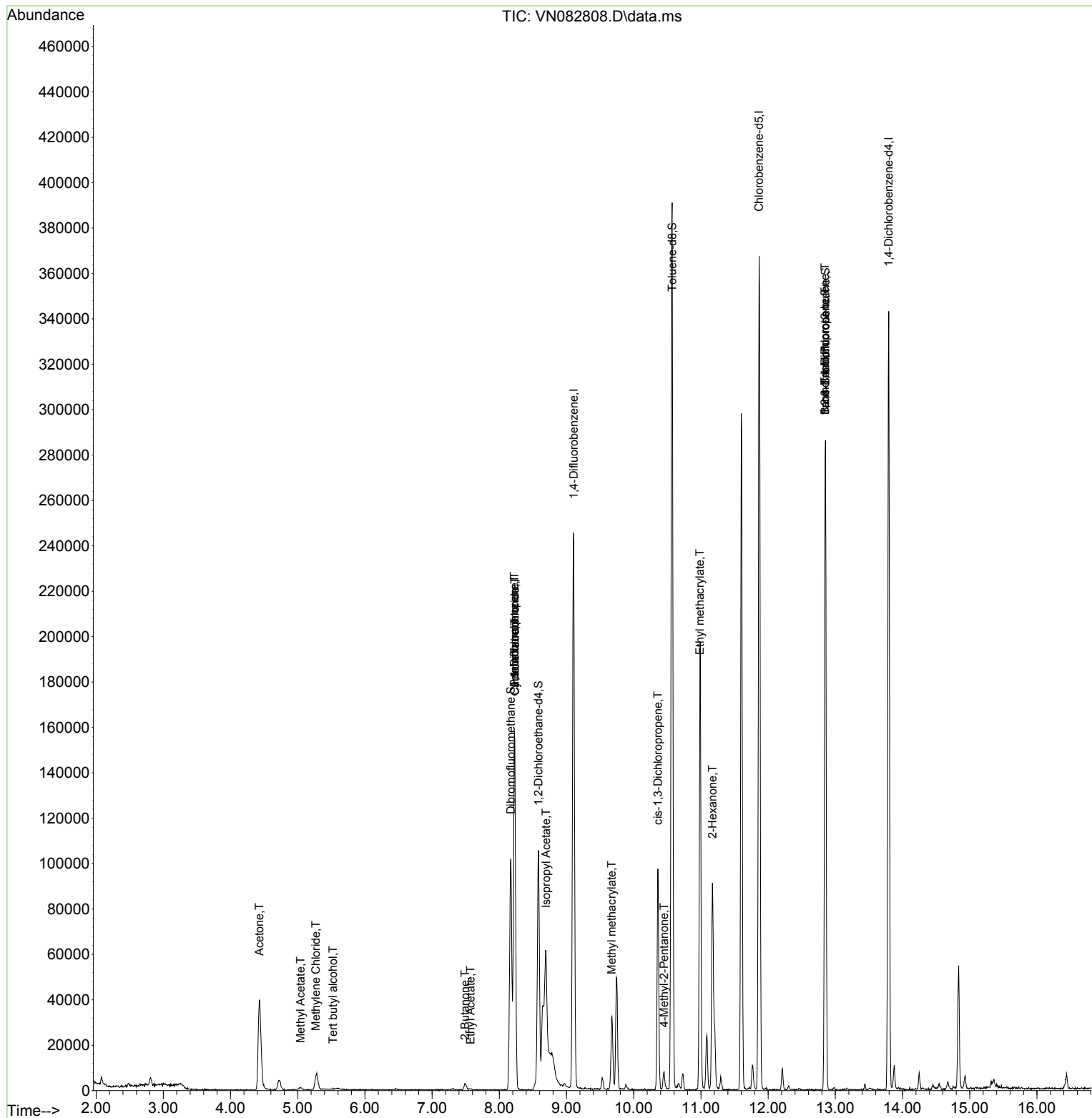
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 110486   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 211333   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 209770   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 90022    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 86769    | 50.925   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 101.840% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 71416    | 51.326   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 102.660% |          |
| 50) Toluene-d8                | 10.571 | 98    | 268557   | 51.610   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 103.220% |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 96992    | 54.277   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | = 108.560% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 5.524  | 59    | 57       | 0.209    | ug/l #     | 71       |
| 16) Acetone                   | 4.430  | 43    | 76448    | 118.423  | ug/l       | 98       |
| 18) Methyl Acetate            | 5.042  | 43    | 2137     | 1.245    | ug/l #     | 72       |
| 20) Methylene Chloride        | 5.271  | 84    | 5470     | 3.349    | ug/l #     | 70       |
| 25) 2-Butanone                | 7.489  | 43    | 5255     | 5.328    | ug/l       | 100      |
| 31) Cyclohexane               | 8.230  | 56    | 2988     | 1.245    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 9574     | 4.787    | ug/l #     | 52       |
| 37) Ethyl Acetate             | 7.571  | 43    | 842      | 0.390    | ug/l #     | 72       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 11491    | 4.913    | ug/l #     | 19       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 103534   | 27.623   | ug/l #     | 77       |
| 48) Methyl methacrylate       | 9.671  | 41    | 1876     | 1.128    | ug/l #     | 47       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43    | 7109     | 3.215    | ug/l #     | 86       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 16334    | 6.941    | ug/l #     | 58       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 918      | 0.409    | ug/l #     | 1        |
| 59) 2-Hexanone                | 11.171 | 43    | 77564    | 47.315   | ug/l #     | 28       |
| 71) Bromoform                 | 12.847 | 173   | 588      | 0.460    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 54676    | 27.845   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 54676    | 72.617   | ug/l #     | 6        |
| -----                         |        |       |          |          |            |          |

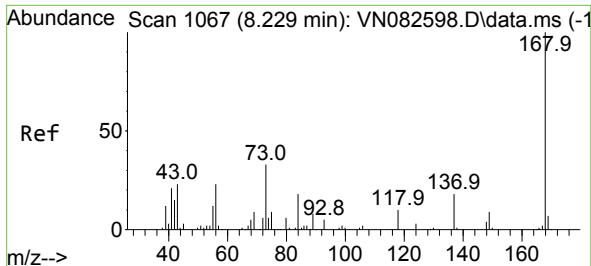
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :

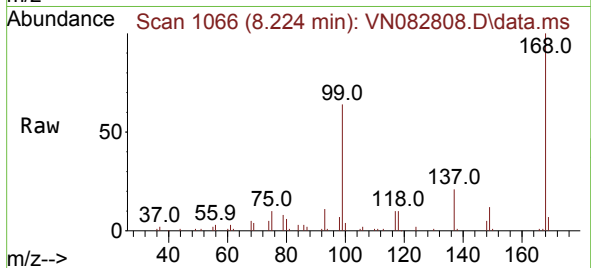
Quant Time: Jul 04 00:02:10 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062724W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 28 06:02:21 2024  
Response via : Initial Calibration



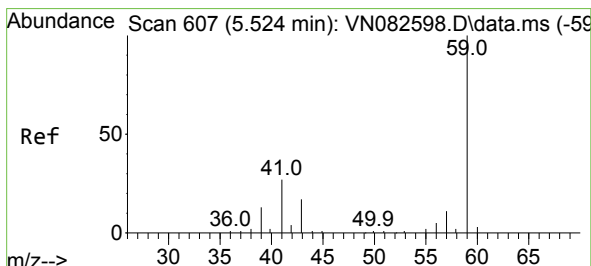
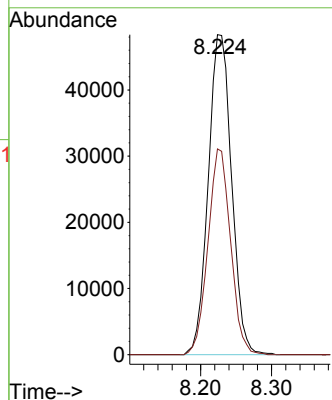
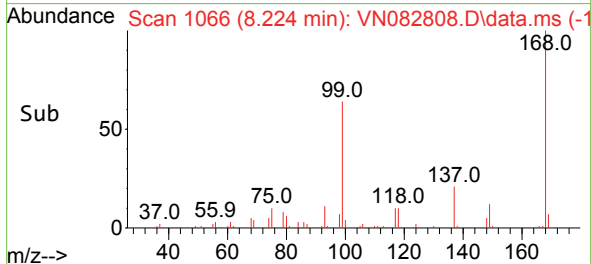


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.005 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Instrument :  
MSVOA\_N  
ClientSampleId :

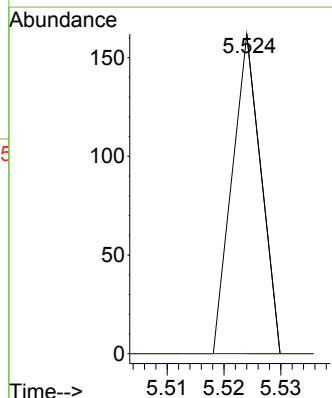
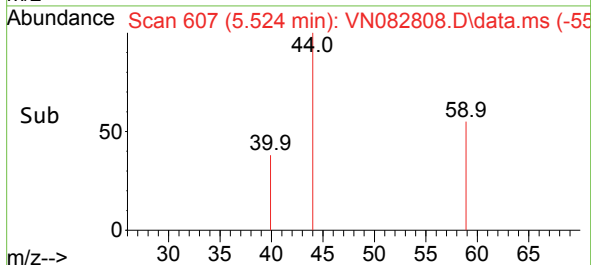
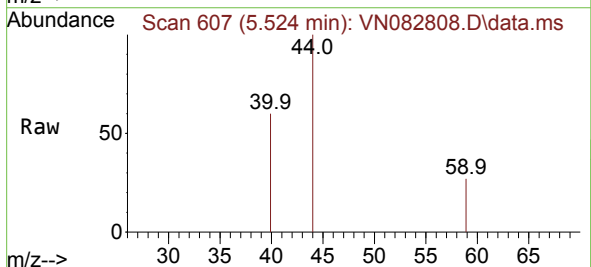


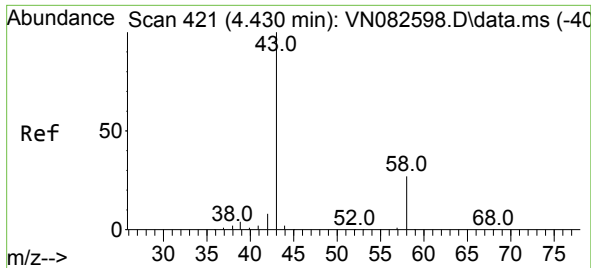
Tgt Ion:168 Resp: 110486  
Ion Ratio Lower Upper  
168 100  
99 64.3 48.2 72.4



#11  
Tert butyl alcohol  
Concen: 0.209 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.000 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

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

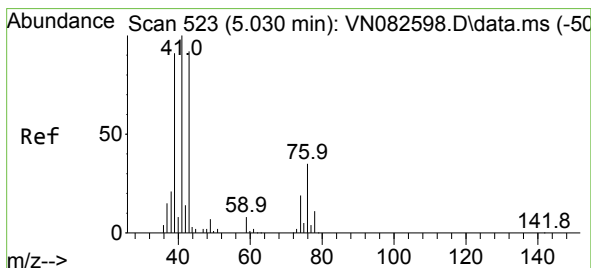
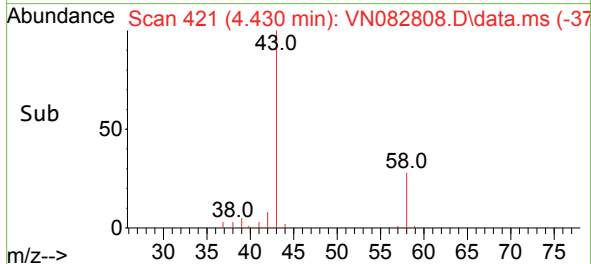
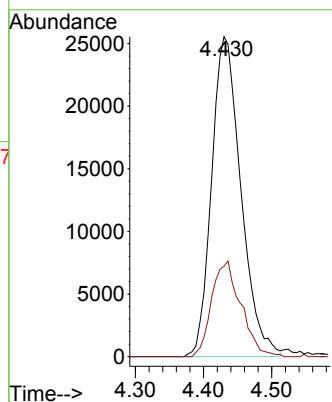
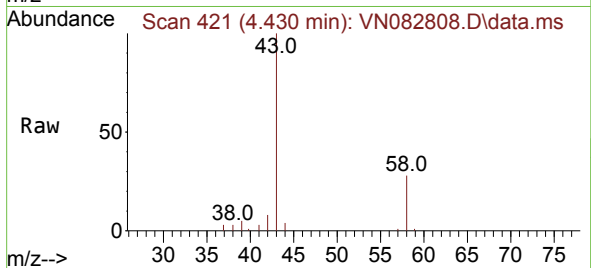




#16  
Acetone  
Concen: 118.423 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

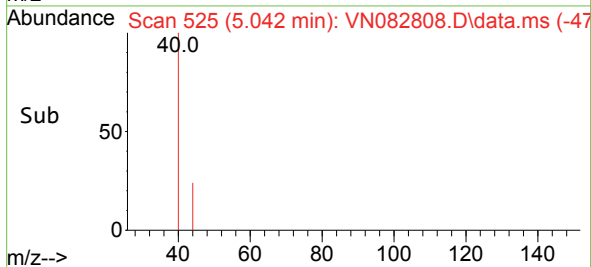
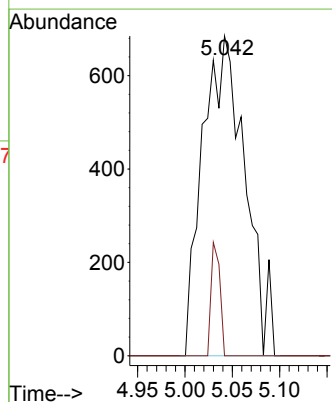
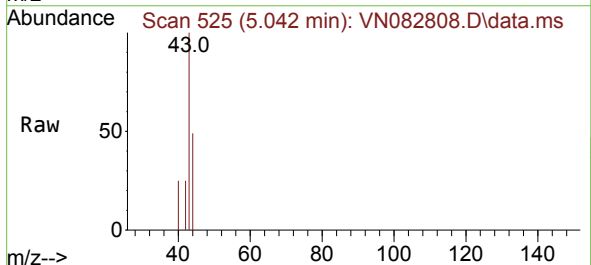
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 43 Resp: 76448  
Ion Ratio Lower Upper  
43 100  
58 28.3 21.8 32.6



#18  
Methyl Acetate  
Concen: 1.245 ug/l  
RT: 5.042 min Scan# 525  
Delta R.T. 0.012 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

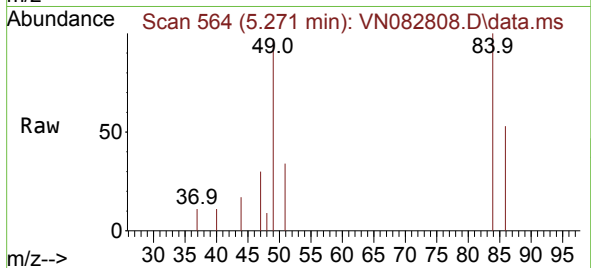
Tgt Ion: 43 Resp: 2137  
Ion Ratio Lower Upper  
43 100  
74 7.3 16.3 24.5#



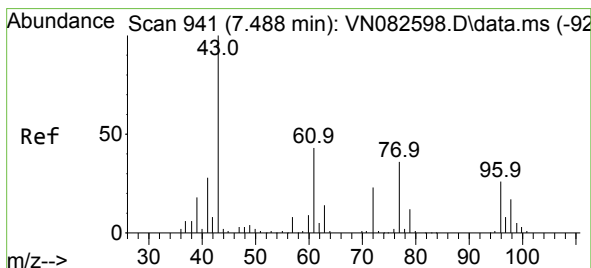
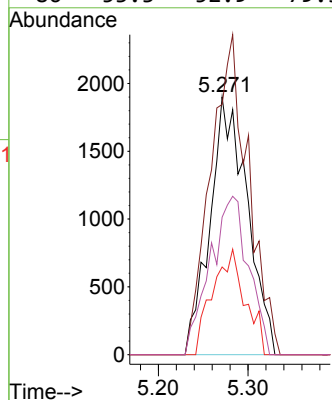


#20  
Methylene Chloride  
Concen: 3.349 ug/l  
RT: 5.271 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Instrument :  
MSVOA\_N  
ClientSampleId :

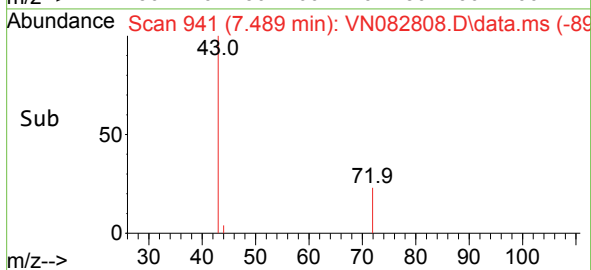
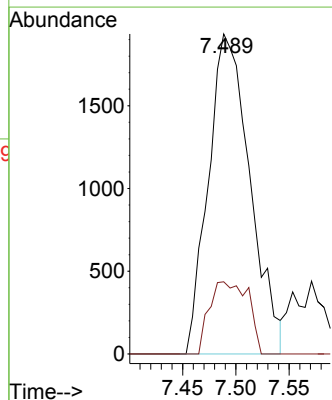
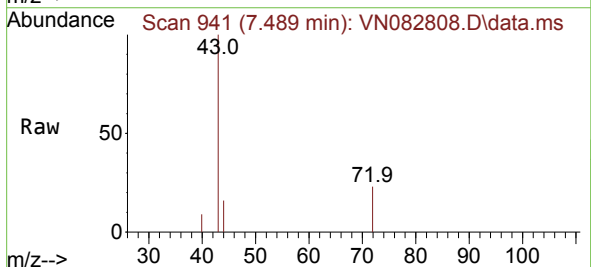


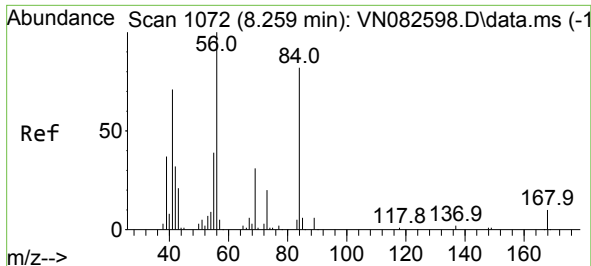
|             |       |              |
|-------------|-------|--------------|
| Tgt Ion: 84 | Resp: | 5470         |
| Ion         | Ratio | Lower Upper  |
| 84          | 100   |              |
| 49          | 97.1  | 119.6 179.4# |
| 51          | 34.0  | 34.8 52.2#   |
| 86          | 53.3  | 52.9 79.3    |



#25  
2-Butanone  
Concen: 5.328 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.001 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

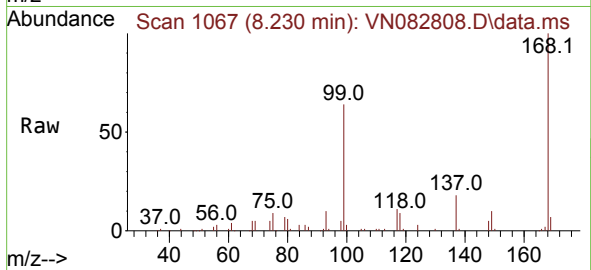
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 5255        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 72          | 22.5  | 18.2 27.2   |



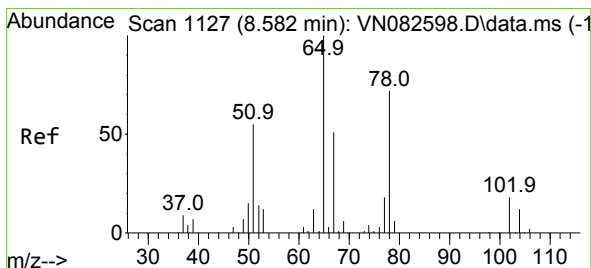
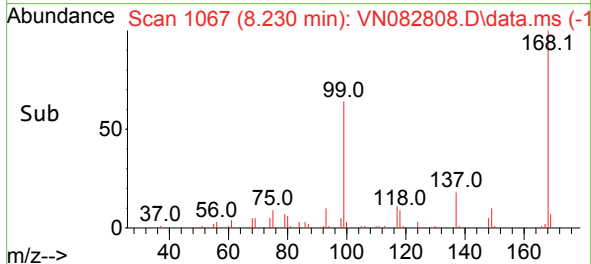
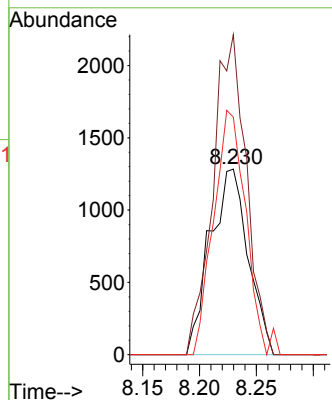


#31  
Cyclohexane  
Concen: 1.245 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Instrument :  
MSVOA\_N  
ClientSampleId :

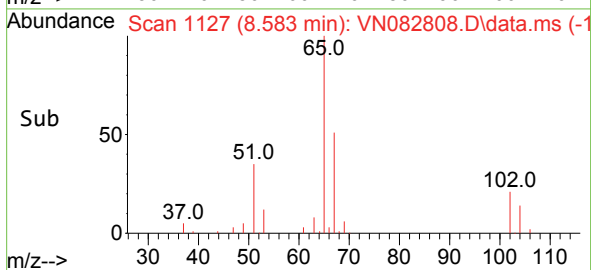
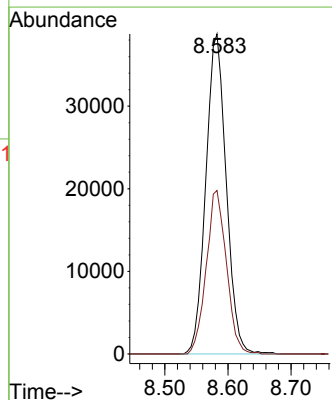
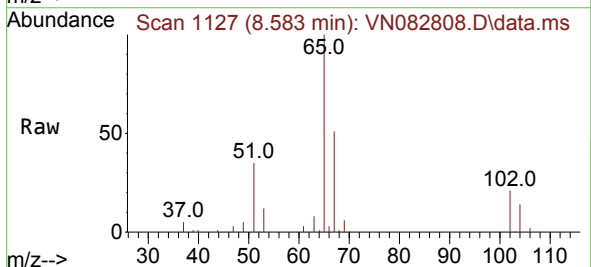


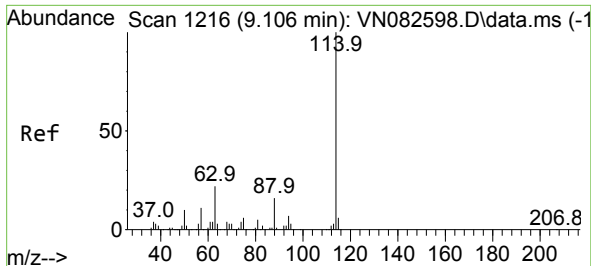
Tgt Ion: 56 Resp: 2988  
Ion Ratio Lower Upper  
56 100  
69 172.4 24.5 36.7#  
84 128.0 66.0 99.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.925 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.001 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

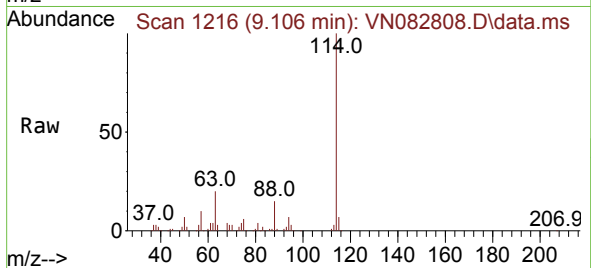
Tgt Ion: 65 Resp: 86769  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 104.4



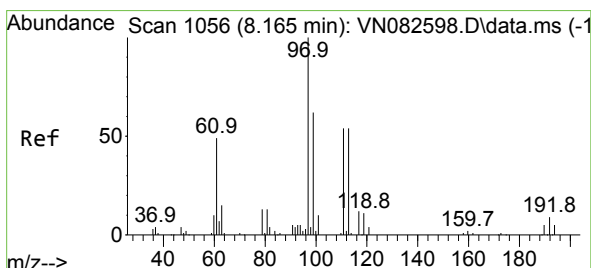
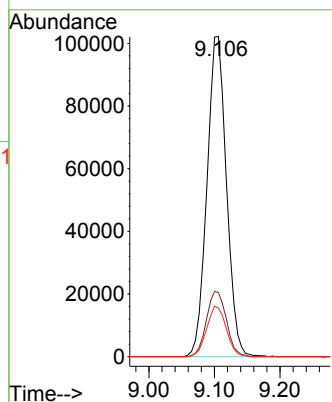
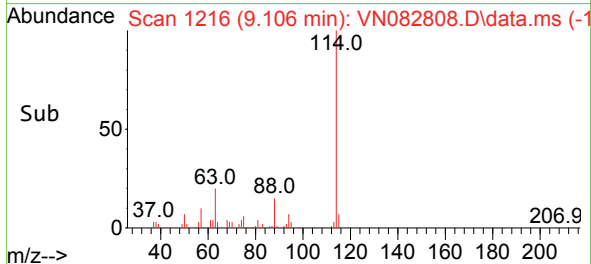


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Instrument :  
MSVOA\_N  
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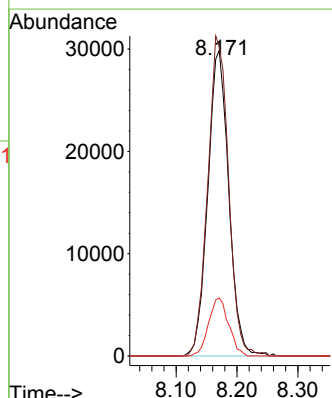
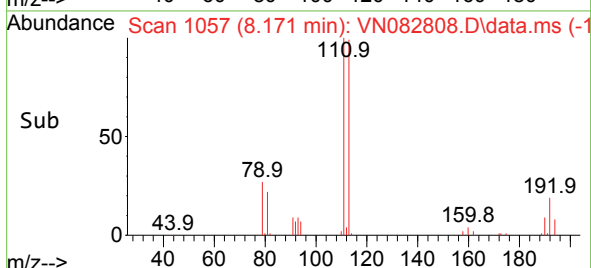
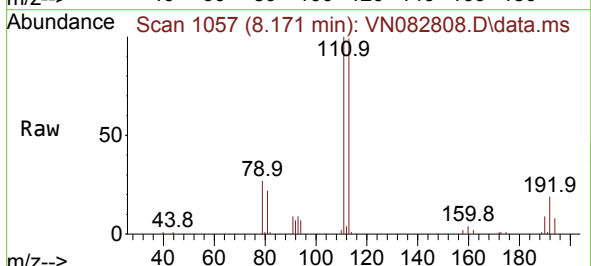


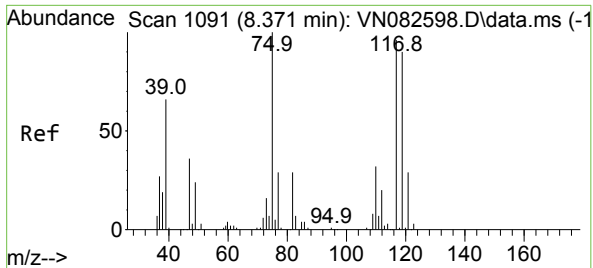
Tgt Ion:114 Resp: 211333  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 44.6  
88 15.1 0.0 31.4



#35  
Dibromofluoromethane  
Concen: 51.326 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Tgt Ion:113 Resp: 71416  
Ion Ratio Lower Upper  
113 100  
111 104.2 82.4 123.6  
192 18.2 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.787 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

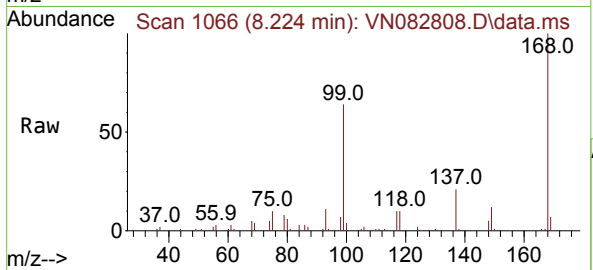
Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

Instrument :

MSVOA\_N

ClientSampleId :



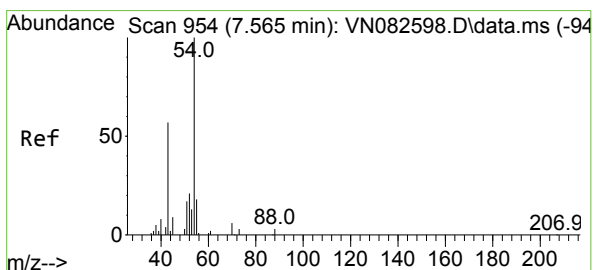
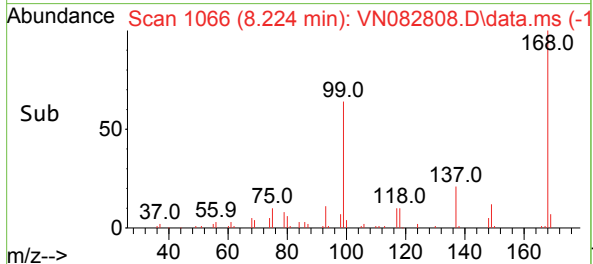
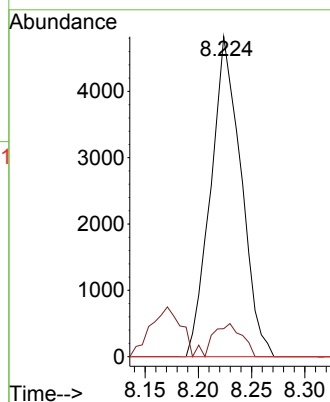
Tgt Ion: 75 Resp: 9574

Ion Ratio Lower Upper

75 100

110 9.4 16.3 48.9#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 0.390 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.006 min

Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

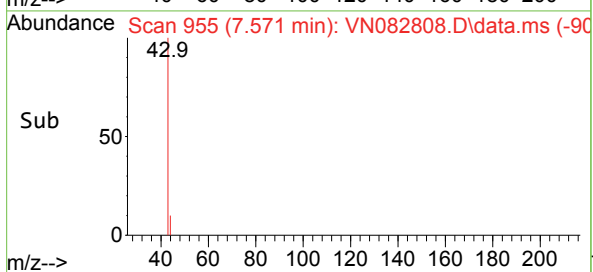
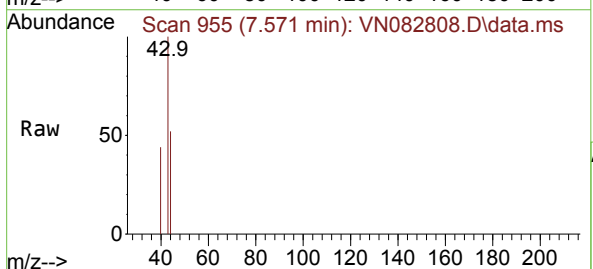
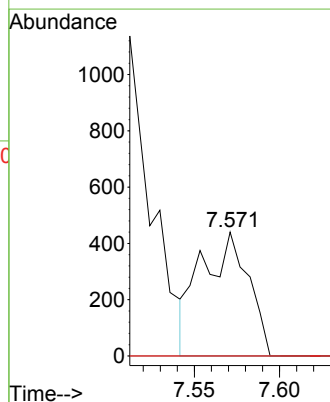
Tgt Ion: 43 Resp: 842

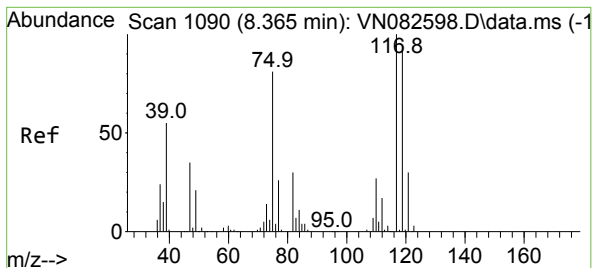
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.913 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.135 min

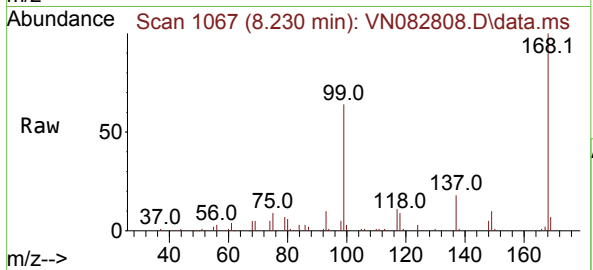
Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

Instrument :

MSVOA\_N

ClientSampleId :



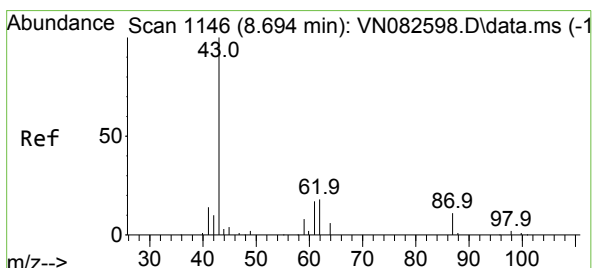
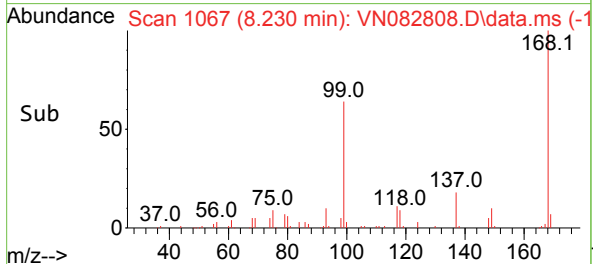
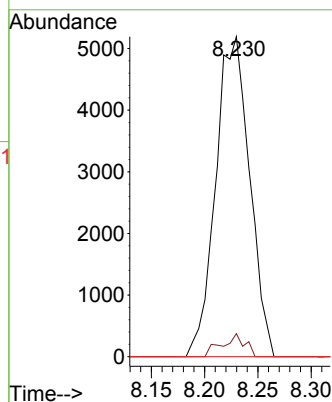
Tgt Ion:117 Resp: 11491

Ion Ratio Lower Upper

117 100

119 7.2 74.9 112.3#

121 0.0 24.3 36.5#



#43

Isopropyl Acetate

Concen: 27.623 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

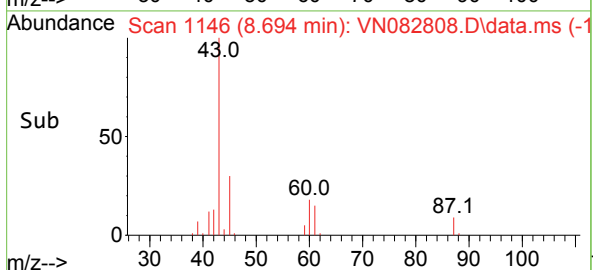
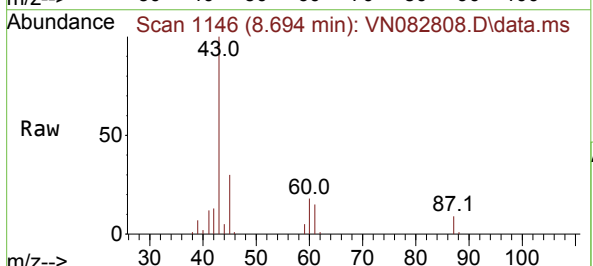
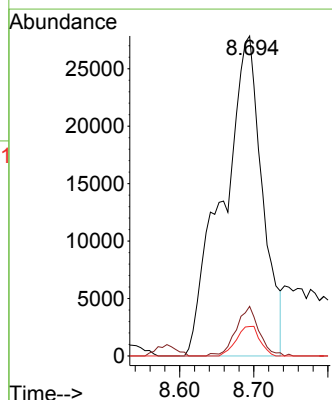
Tgt Ion: 43 Resp: 103534

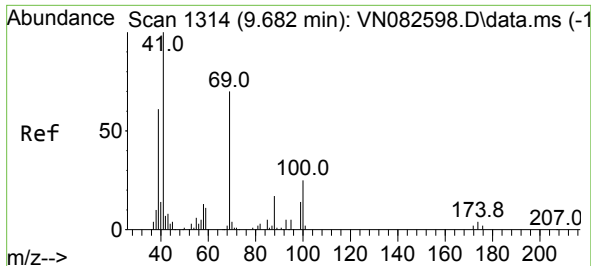
Ion Ratio Lower Upper

43 100

61 9.0 17.8 26.6#

87 5.5 8.2 12.2#

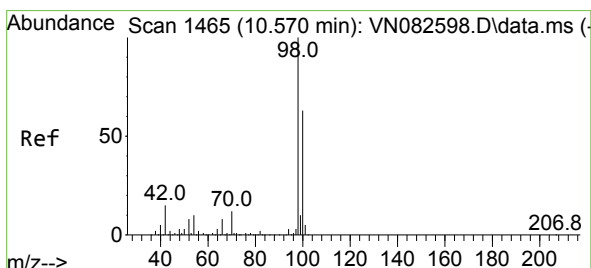
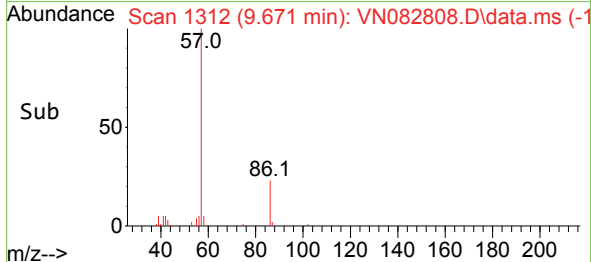
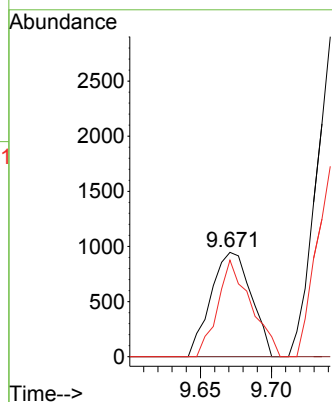
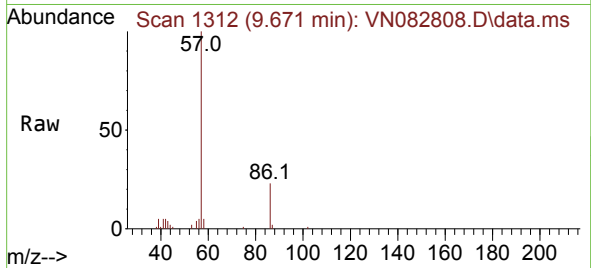




#48  
Methyl methacrylate  
Concen: 1.128 ug/l  
RT: 9.671 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

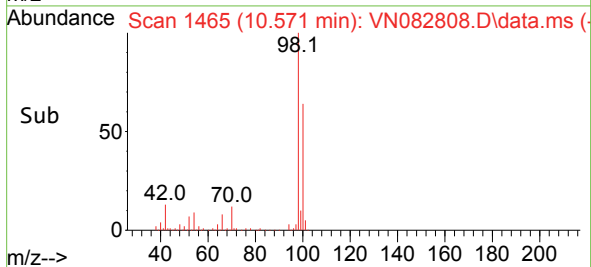
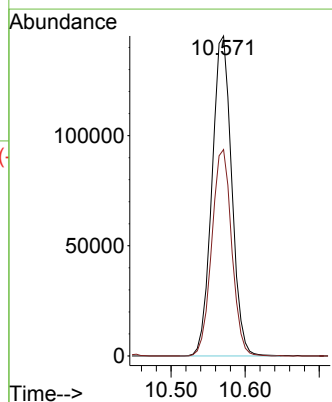
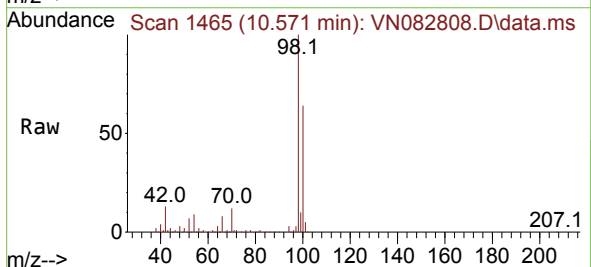
Instrument :  
MSVOA\_N  
ClientSampleId :

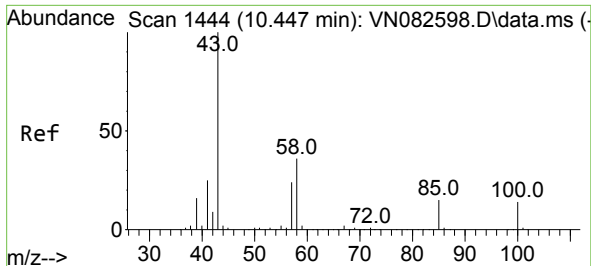
Tgt Ion: 41 Resp: 1876  
Ion Ratio Lower Upper  
41 100  
69 0.0 56.3 84.5#  
39 76.1 50.3 75.5#



#50  
Toluene-d8  
Concen: 51.610 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.001 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Tgt Ion: 98 Resp: 268557  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.5 77.3

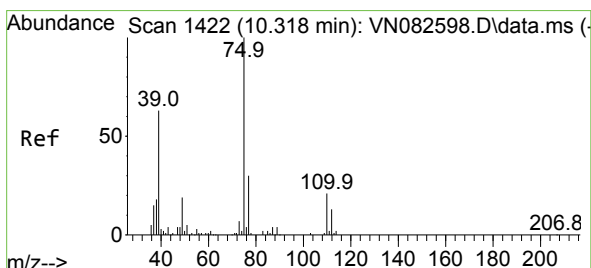
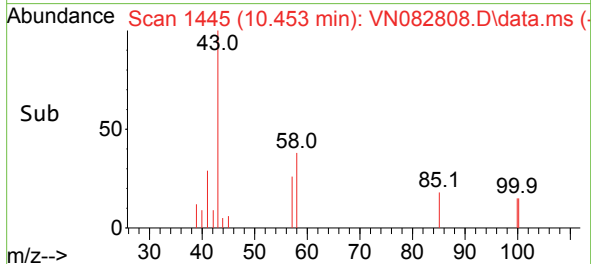
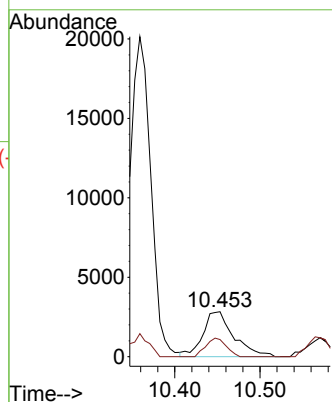
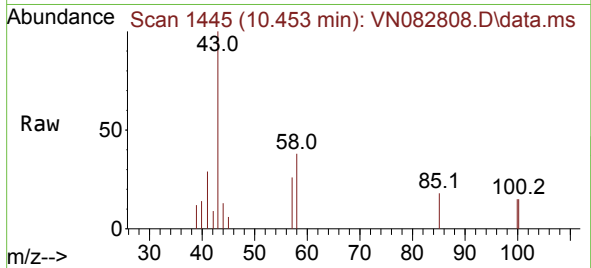




#51  
4-Methyl-2-Pentanone  
Concen: 3.215 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. 0.006 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

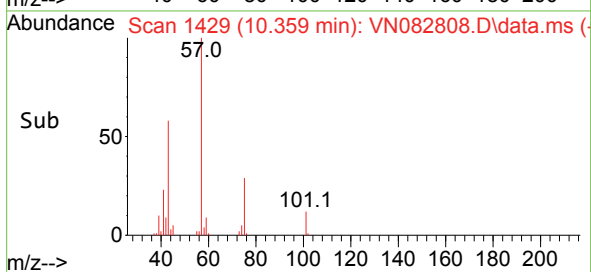
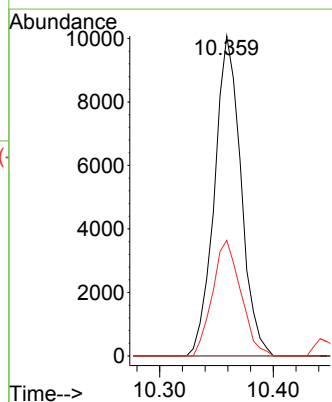
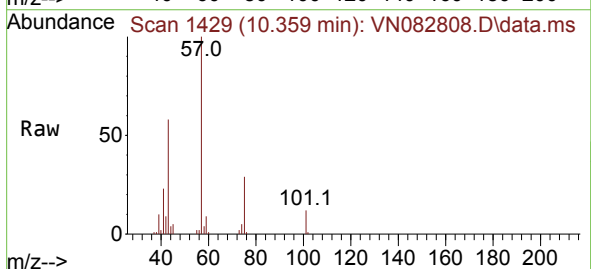
Instrument :  
MSVOA\_N  
ClientSampleId :

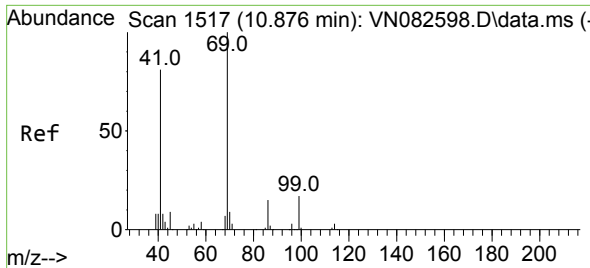
Tgt Ion: 43 Resp: 7109  
Ion Ratio Lower Upper  
43 100  
58 27.2 28.2 42.4#



#54  
cis-1,3-Dichloropropene  
Concen: 6.941 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.041 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Tgt Ion: 75 Resp: 16334  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.3 36.5#  
39 36.1 50.5 75.7#

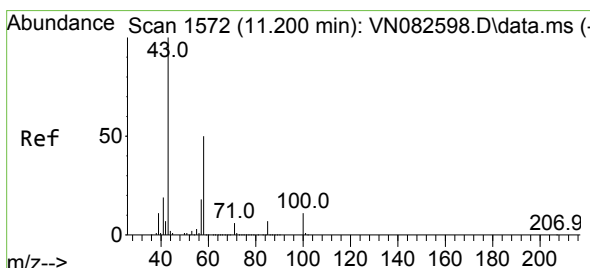
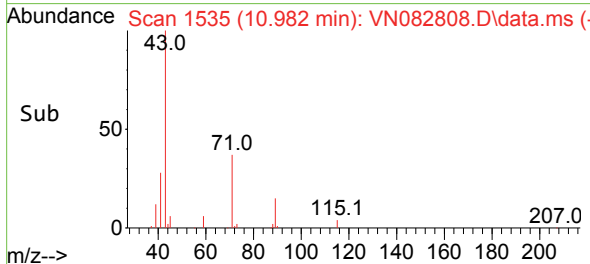
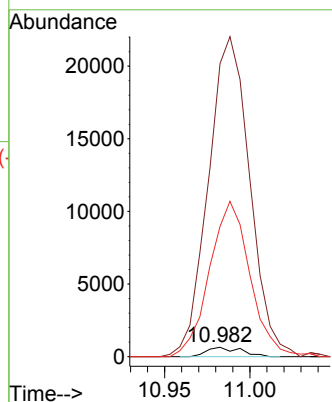
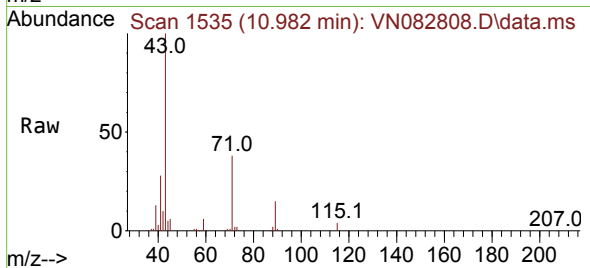




#56  
Ethyl methacrylate  
Concen: 0.409 ug/l  
RT: 10.982 min Scan# 1535  
Delta R.T. 0.106 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

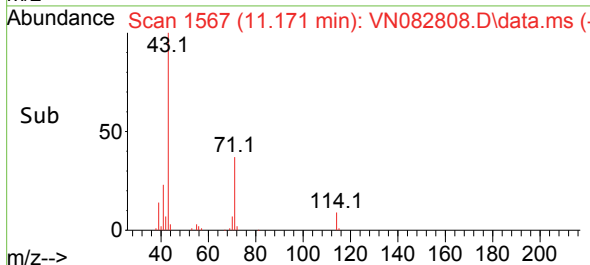
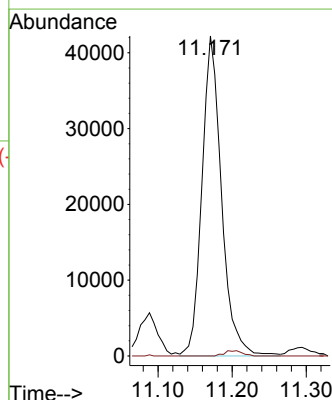
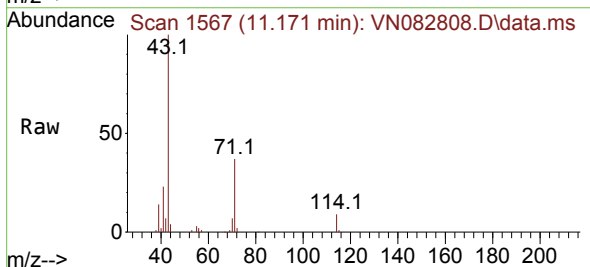
Instrument :  
MSVOA\_N  
ClientSampleId :

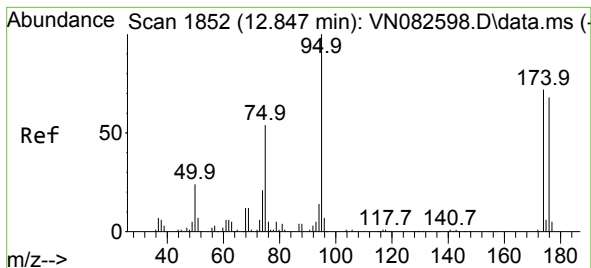
Tgt Ion: 69 Resp: 918  
Ion Ratio Lower Upper  
69 100  
41 4075.2 63.4 95.2#  
39 1928.8 37.4 56.0#



#59  
2-Hexanone  
Concen: 47.315 ug/l  
RT: 11.171 min Scan# 1567  
Delta R.T. -0.029 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Tgt Ion: 43 Resp: 77564  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.6 73.8#

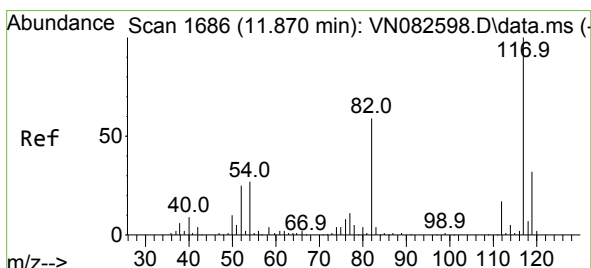
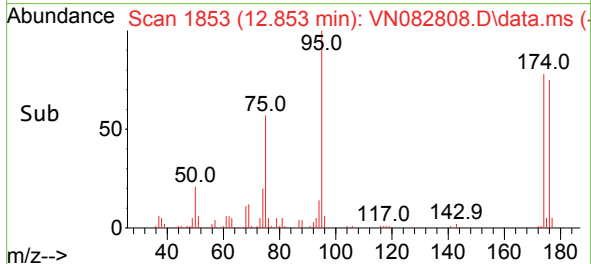
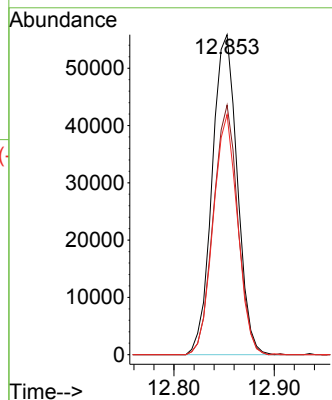
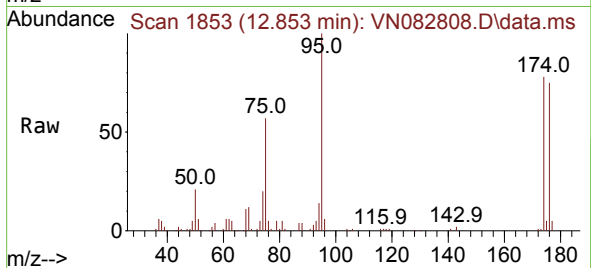




#62  
4-Bromofluorobenzene  
Concen: 54.277 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

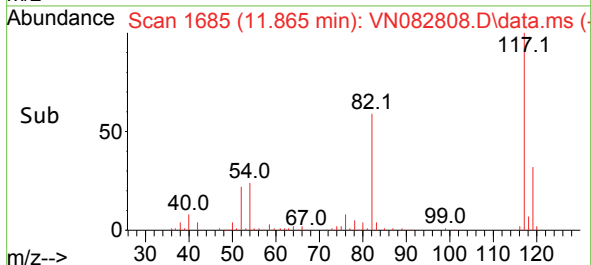
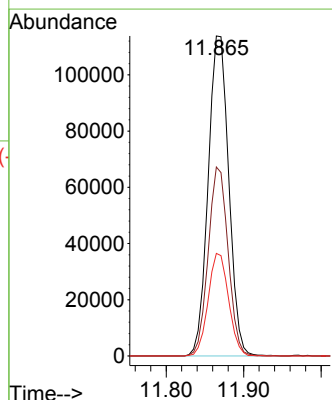
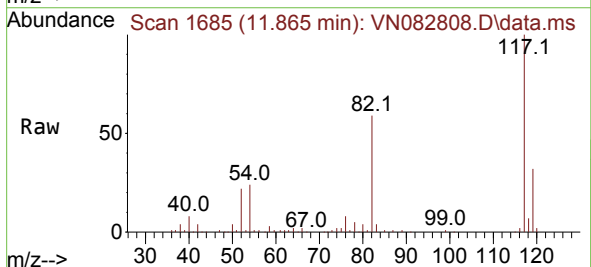
Instrument :  
MSVOA\_N  
ClientSampleId :

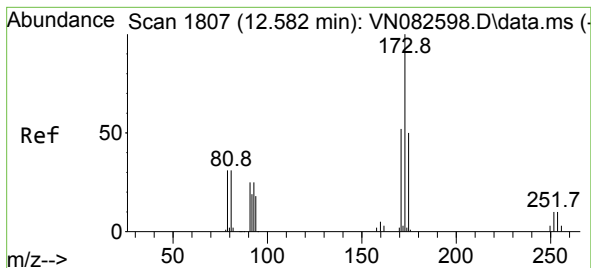
Tgt Ion: 95 Resp: 96992  
Ion Ratio Lower Upper  
95 100  
174 76.1 0.0 159.2  
176 72.8 0.0 147.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.005 min  
Lab File: VN082808.D  
Acq: 03 Jul 2024 17:16

Tgt Ion: 117 Resp: 209770  
Ion Ratio Lower Upper  
117 100  
82 59.1 47.5 71.3  
119 32.1 25.6 38.4





#71

Bromoform

Concen: 0.460 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

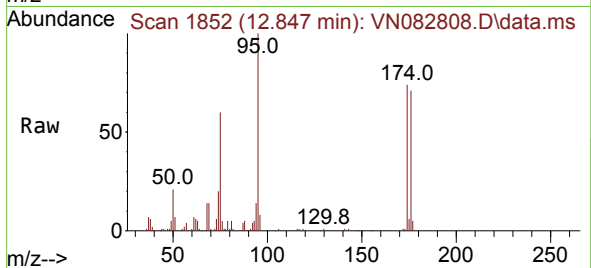
Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

Instrument :

MSVOA\_N

ClientSampleId :



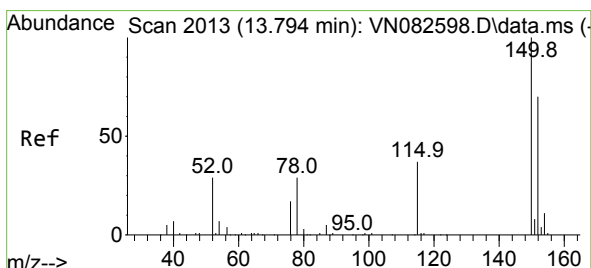
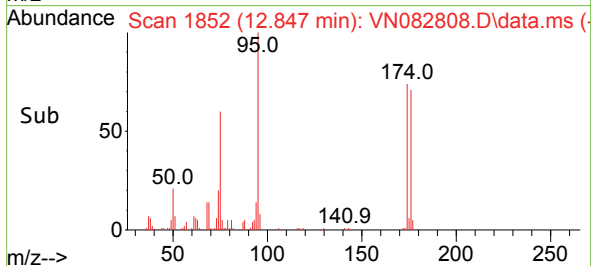
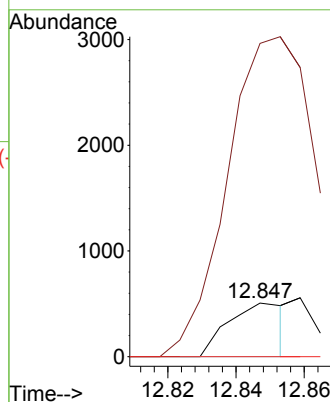
Tgt Ion:173 Resp: 588

Ion Ratio Lower Upper

173 100

175 788.4 24.0 72.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

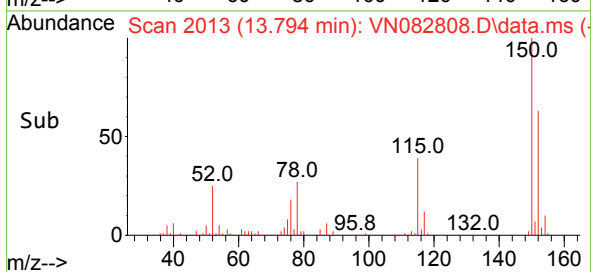
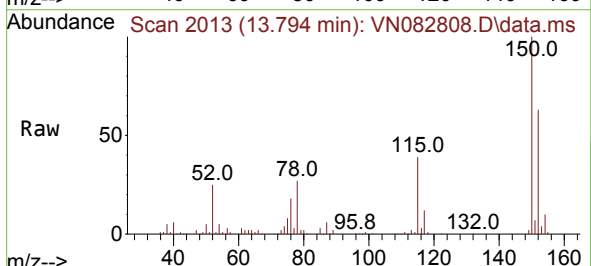
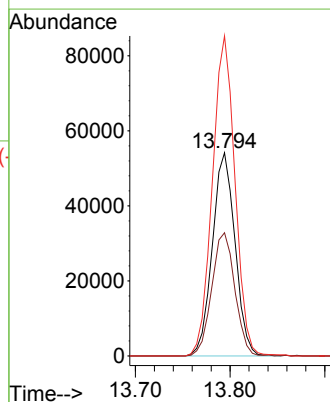
Tgt Ion:152 Resp: 90022

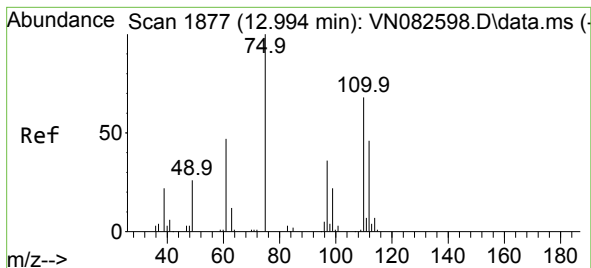
Ion Ratio Lower Upper

152 100

115 61.7 30.6 91.6

150 156.8 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 27.845 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

Instrument :

MSVOA\_N

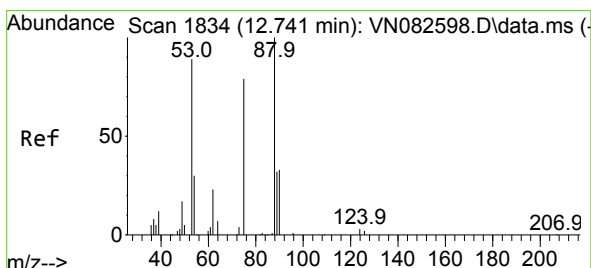
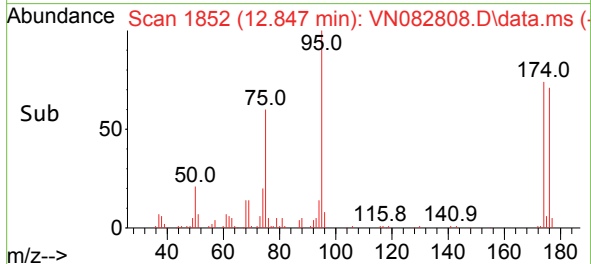
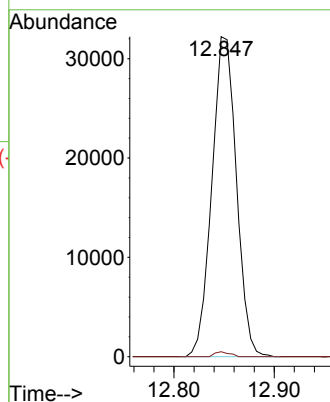
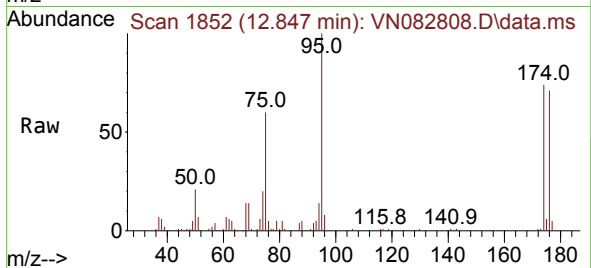
ClientSampleId :

Tgt Ion: 75 Resp: 54676

Ion Ratio Lower Upper

75 100

77 0.9 110.9 332.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.617 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN082808.D

Acq: 03 Jul 2024 17:16

Tgt Ion: 75 Resp: 54676

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 36.3 54.5#

