

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070924\  
 Data File : VN082839.D  
 Acq On : 09 Jul 2024 14:58  
 Operator : JC\MD  
 Sample : P3173-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-189-EB-20240703

Quant Time: Jul 10 01:21:10 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 Response via : Initial Calibration

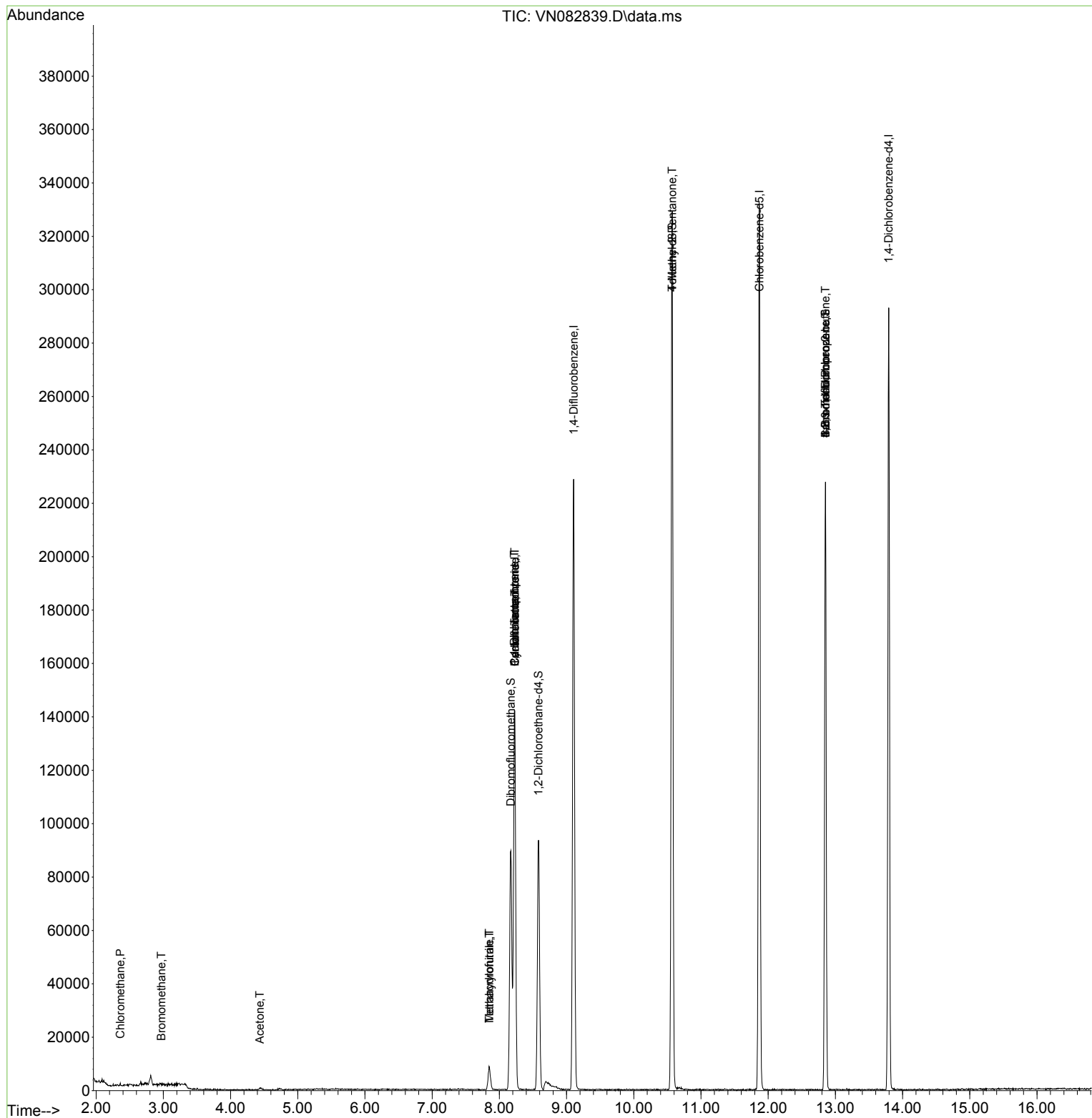
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 100480   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 191832   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 188844   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 76920    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 78558    | 55.773    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 111.540% |
| 35) Dibromofluoromethane      | 8.171  | 113   | 64272    | 52.214    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 104.420% |
| 50) Toluene-d8                | 10.571 | 98    | 223906   | 49.249    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 98.500%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 76026    | 46.553    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery  | =      | 93.100%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.359  | 50    | 456      | 0.370     | ug/l # | 74       |
| 5) Bromomethane               | 2.971  | 94    | 259      | 0.277     | ug/l # | 76       |
| 16) Acetone                   | 4.436  | 43    | 1434     | 2.892     | ug/l   | 97       |
| 29) Tetrahydrofuran           | 7.853  | 42    | 6077     | 12.891    | ug/l   | 93       |
| 31) Cyclohexane               | 8.230  | 56    | 2456     | 1.334     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 8665     | 5.106     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 11272    | 5.516     | ug/l # | 18       |
| 41) Methacrylonitrile         | 7.853  | 41    | 3787     | 4.068     | ug/l # | 53       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 2578     | Below Cal | #      | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.571 | 43    | 1143     | 0.667     | ug/l # | 1        |
| 71) Bromoform                 | 12.853 | 173   | 651      | 0.575     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 42516    | 32.060    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 42516    | 63.052    | ug/l # | 6        |
| -----                         |        |       |          |           |        |          |

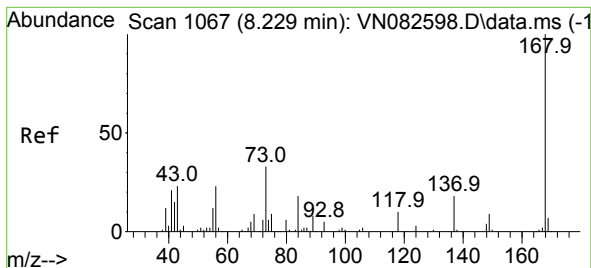
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BP-VPB-189-EB-20240703

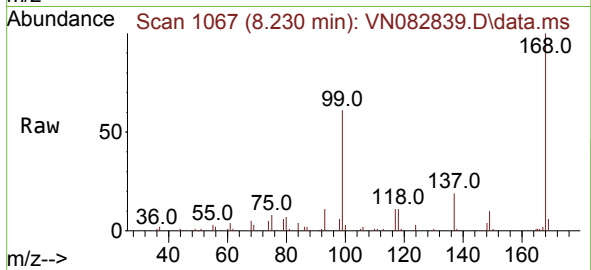
Quant Time: Jul 10 01:21:10 2024  
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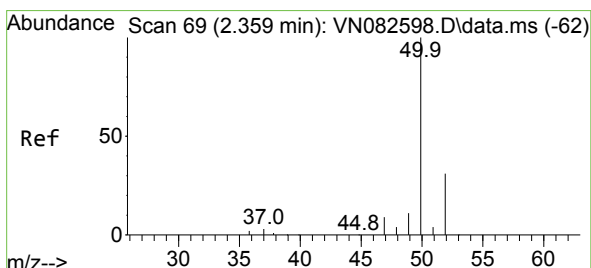
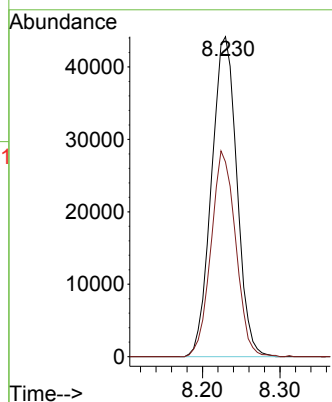
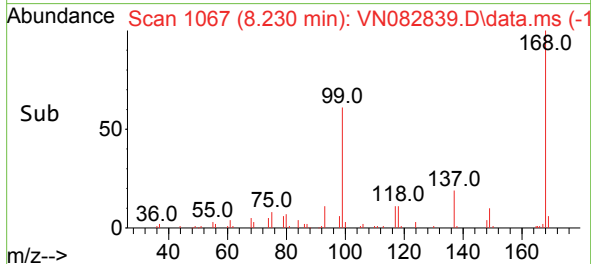


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. 0.001 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
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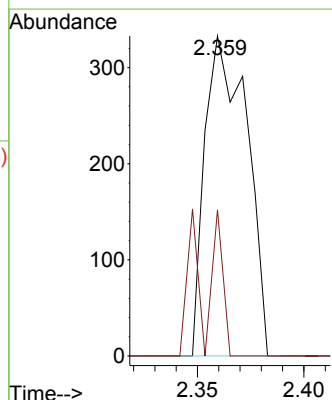
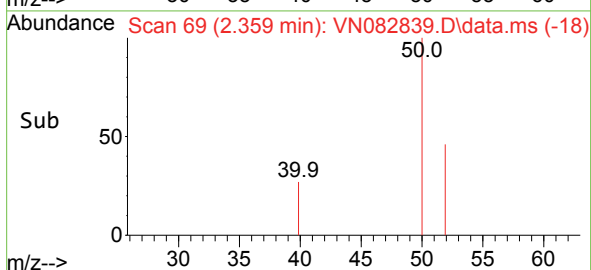
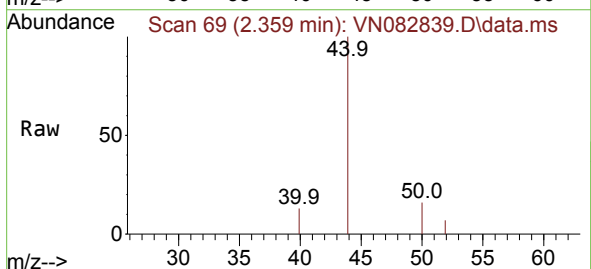


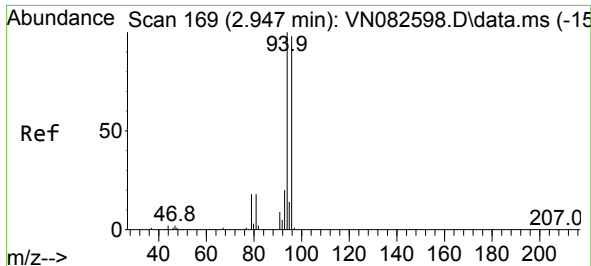
Tgt Ion:168 Resp: 100480  
Ion Ratio Lower Upper  
168 100  
99 60.9 48.2 72.4



#3  
Chloromethane  
Concen: 0.370 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Tgt Ion: 50 Resp: 456  
Ion Ratio Lower Upper  
50 100  
52 45.6 25.0 37.4#

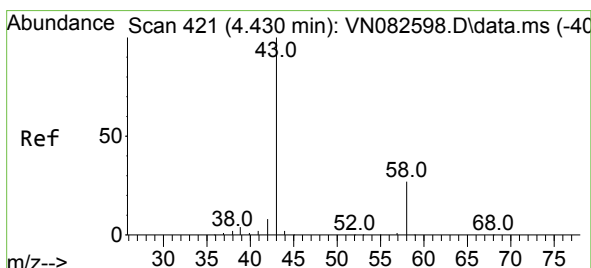
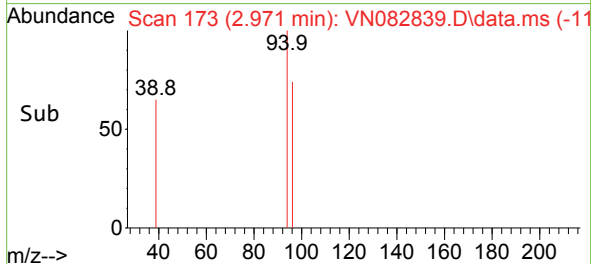
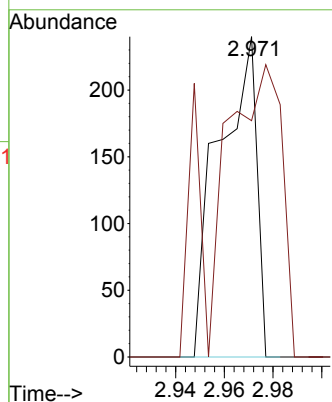
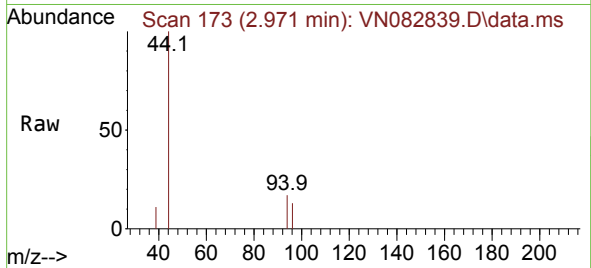




#5  
Bromomethane  
Concen: 0.277 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

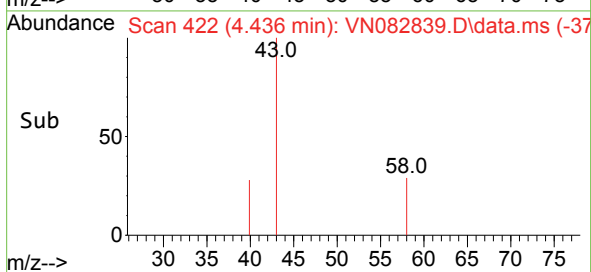
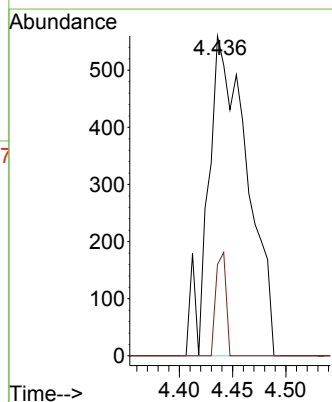
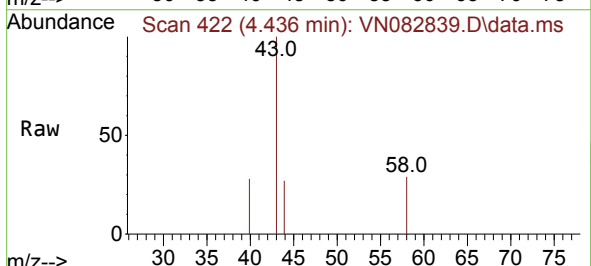
Instrument :  
MSVOA\_N  
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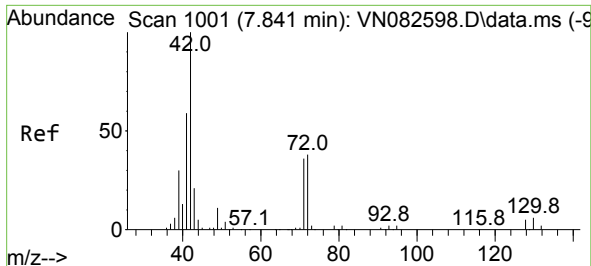
Tgt Ion: 94 Resp: 259  
Ion Ratio Lower Upper  
94 100  
96 73.8 78.0 117.0#



#16  
Acetone  
Concen: 2.892 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

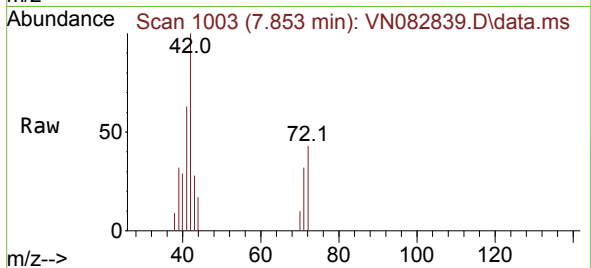
Tgt Ion: 43 Resp: 1434  
Ion Ratio Lower Upper  
43 100  
58 28.6 21.8 32.6



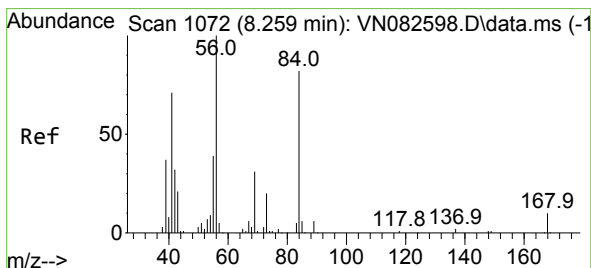
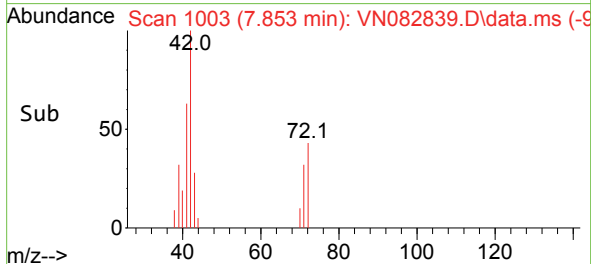
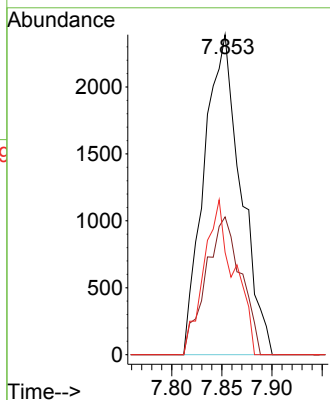


#29  
Tetrahydrofuran  
Concen: 12.891 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.012 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Instrument :  
MSVOA\_N  
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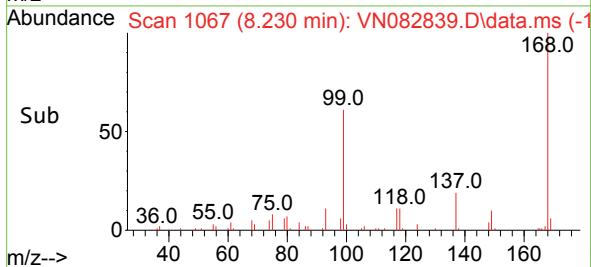
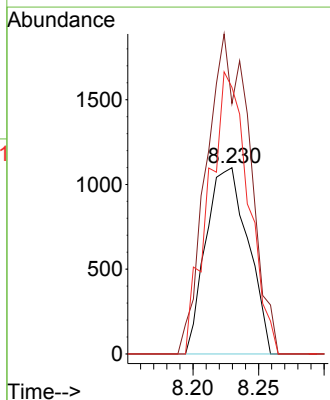
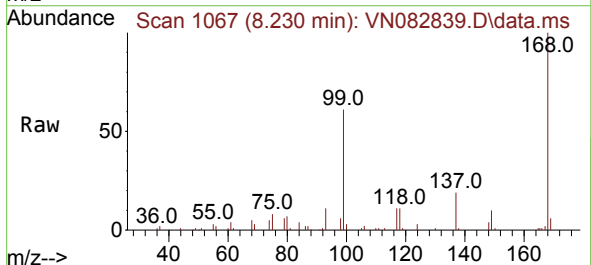


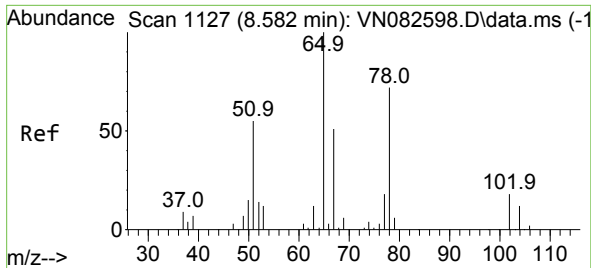
Tgt Ion: 42 Resp: 6077  
Ion Ratio Lower Upper  
42 100  
72 41.3 30.0 45.0  
71 40.0 28.3 42.5



#31  
Cyclohexane  
Concen: 1.334 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Tgt Ion: 56 Resp: 2456  
Ion Ratio Lower Upper  
56 100  
69 134.4 24.5 36.7#  
84 143.1 66.0 99.0#

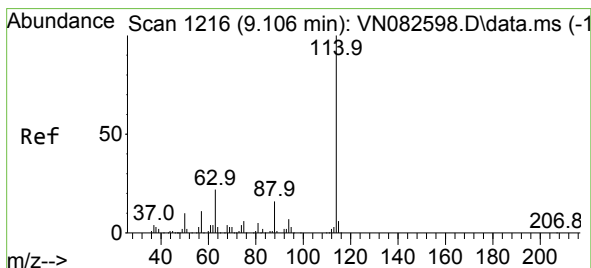
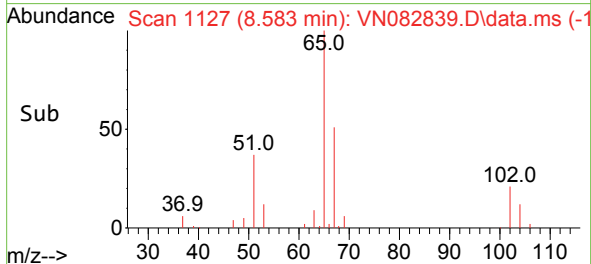
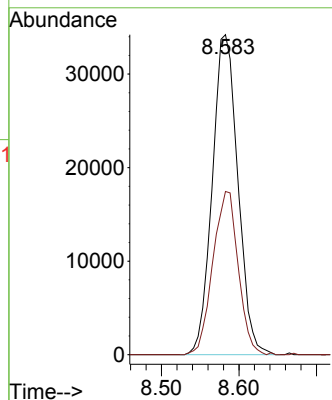
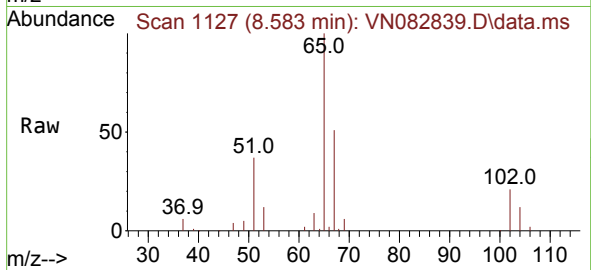




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.773 ug/l  
 RT: 8.583 min Scan# 1127  
 Delta R.T. 0.001 min  
 Lab File: VN082839.D  
 Acq: 09 Jul 2024 14:58

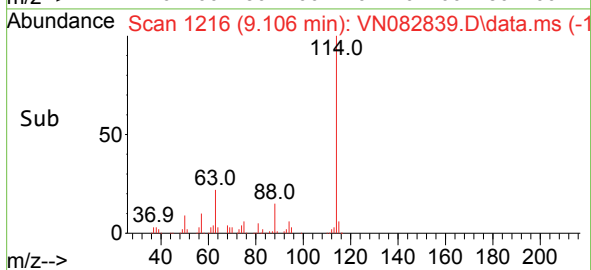
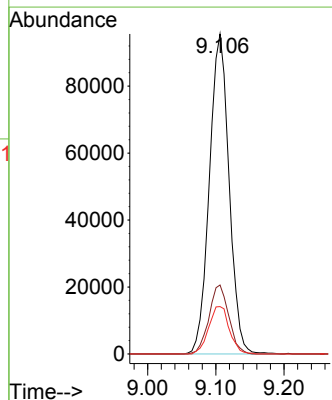
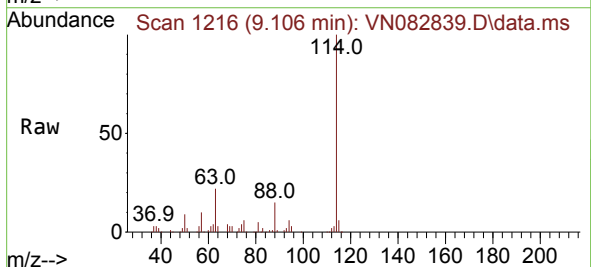
Instrument :  
 MSVOA\_N  
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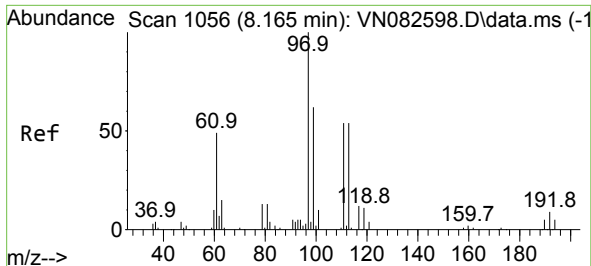
Tgt Ion: 65 Resp: 78558  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.106 min Scan# 1216  
 Delta R.T. 0.000 min  
 Lab File: VN082839.D  
 Acq: 09 Jul 2024 14:58

Tgt Ion: 114 Resp: 191832  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 44.6  
 88 14.8 0.0 31.4

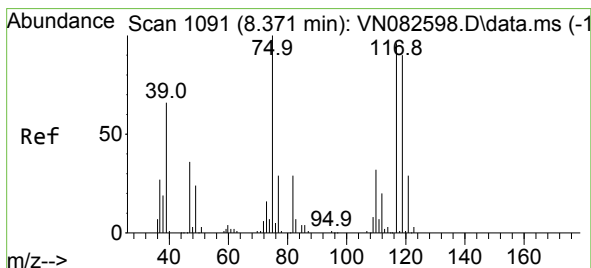
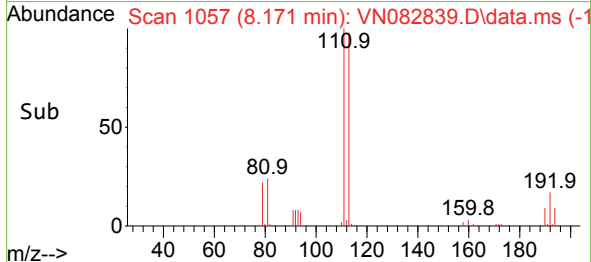
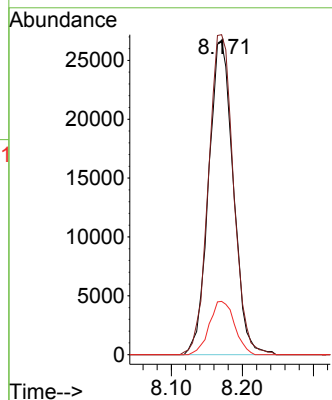
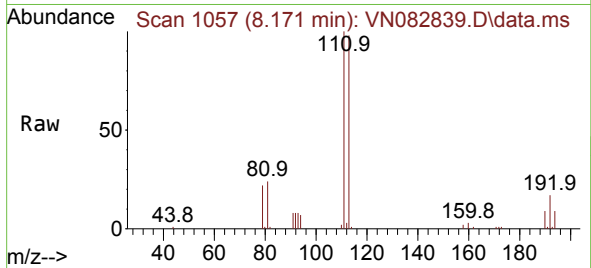




#35  
Dibromofluoromethane  
Concen: 52.214 ug/l  
RT: 8.171 min Scan# 1056  
Delta R.T. 0.006 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

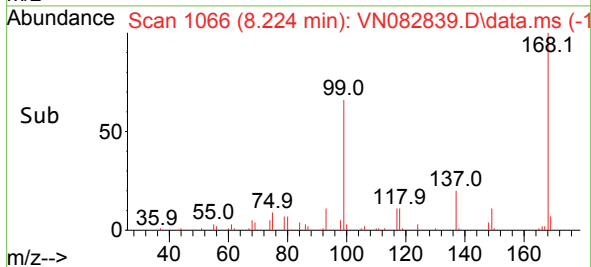
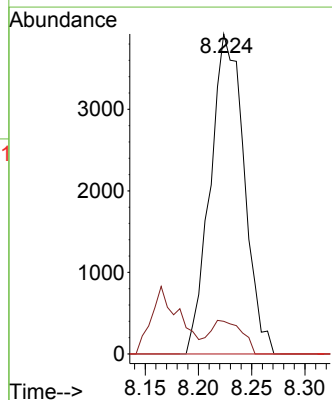
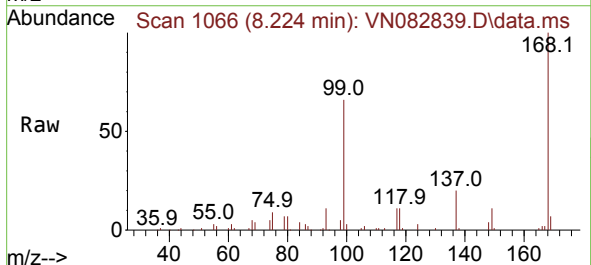
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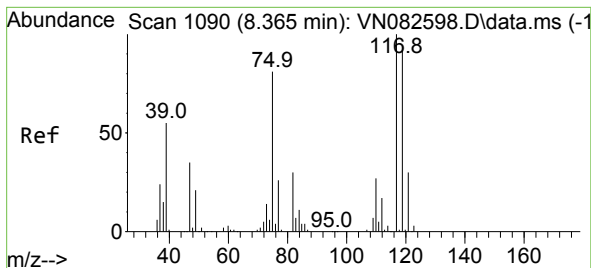
Tgt Ion:113 Resp: 64272  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.4 123.6  
192 17.4 14.9 22.3



#36  
1,1-Dichloropropene  
Concen: 5.106 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Tgt Ion: 75 Resp: 8665  
Ion Ratio Lower Upper  
75 100  
110 10.1 16.3 48.9#  
77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.516 ug/l

RT: 8.230 min Scan# 11

Delta R.T. -0.135 min

Lab File: VN082839.D

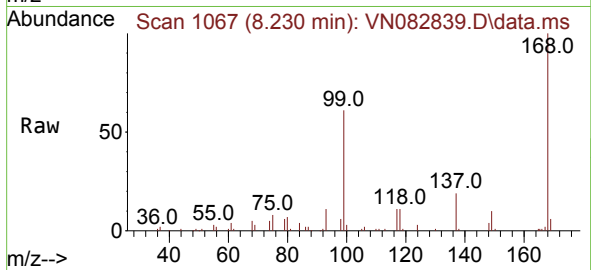
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Instrument :

MSVOA\_N

ClientSampleId :

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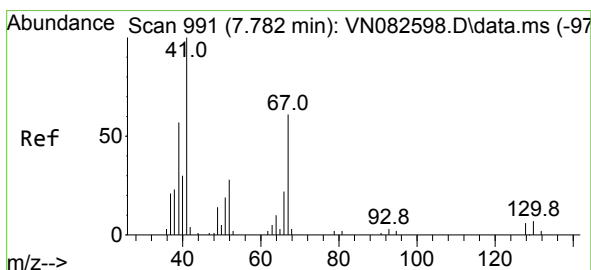
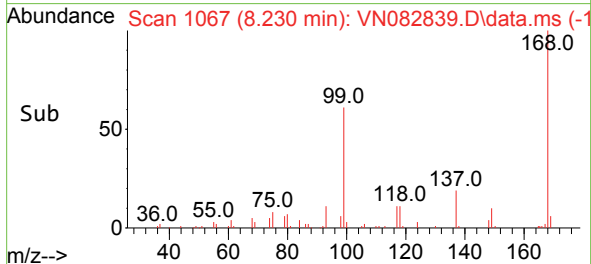
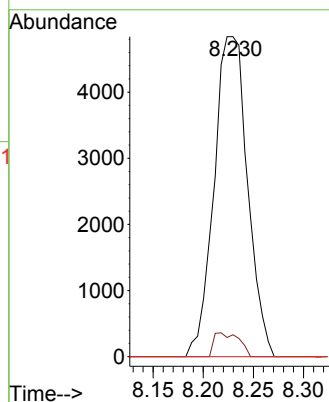
Tgt Ion:117 Resp: 11272

Ion Ratio Lower Upper

117 100

119 6.8 74.9 112.3#

121 0.0 24.3 36.5#



#41

Methacrylonitrile

Concen: 4.068 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.071 min

Lab File: VN082839.D

Acq: 09 Jul 2024 14:58

Tgt Ion: 41 Resp: 3787

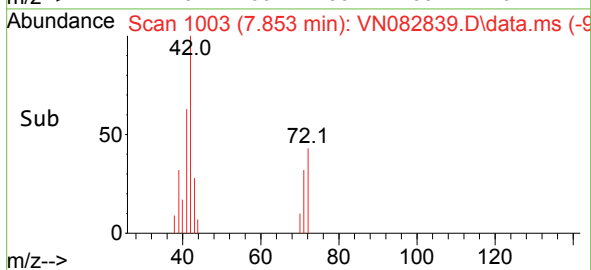
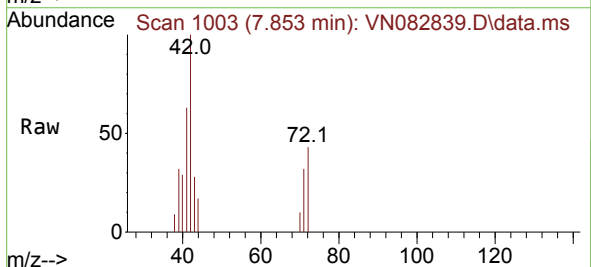
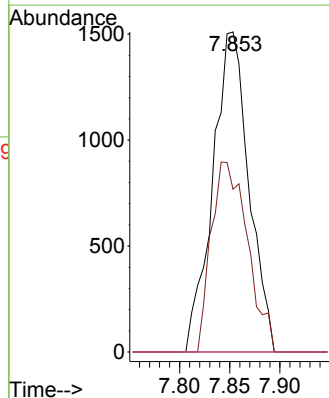
Ion Ratio Lower Upper

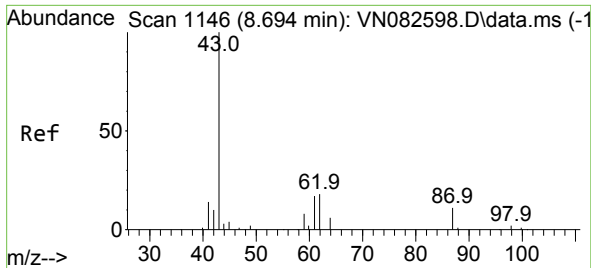
41 100

39 59.7 45.5 68.3

67 0.0 50.5 75.7#

52 0.0 24.0 36.0#

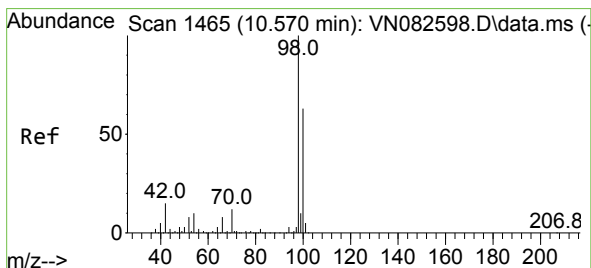
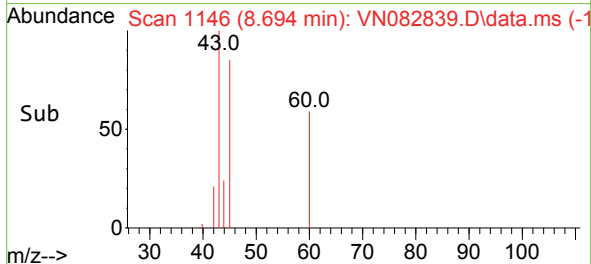
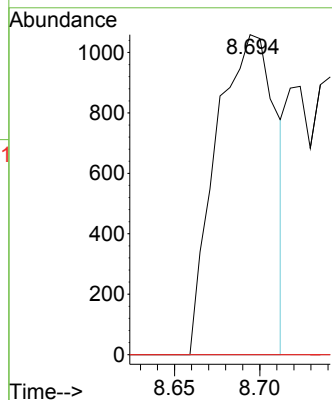
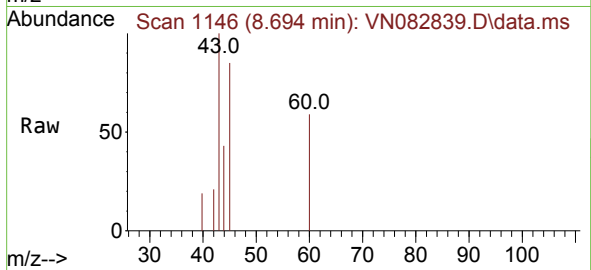




#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

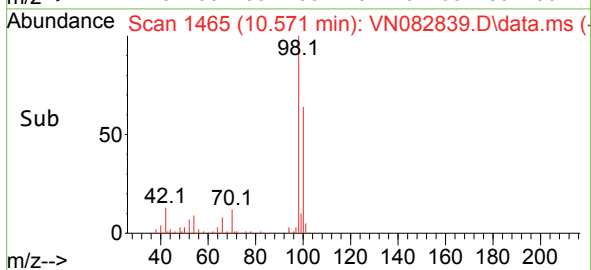
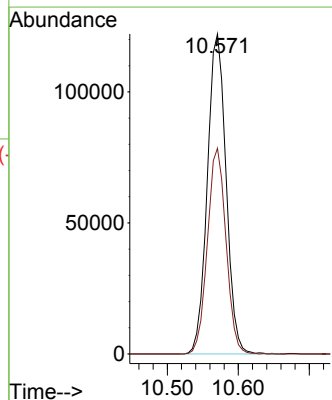
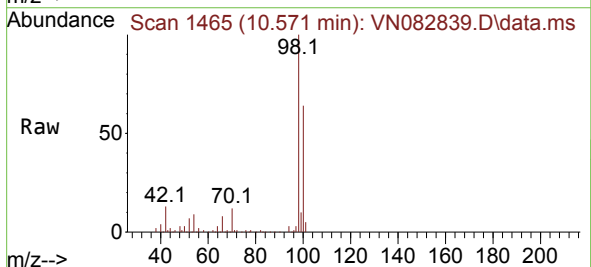
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-189-EB-20240703

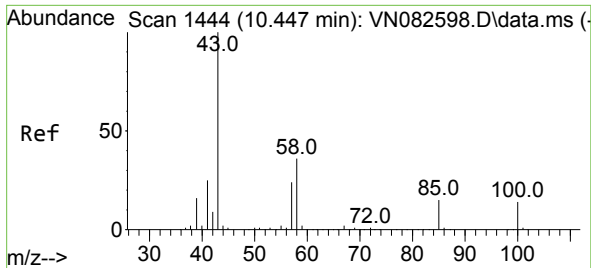
Tgt Ion: 43 Resp: 2578  
Ion Ratio Lower Upper  
43 100  
61 0.0 17.8 26.6#  
87 0.0 8.2 12.2#



#50  
Toluene-d8  
Concen: 49.249 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.001 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Tgt Ion: 98 Resp: 223906  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.5 77.3

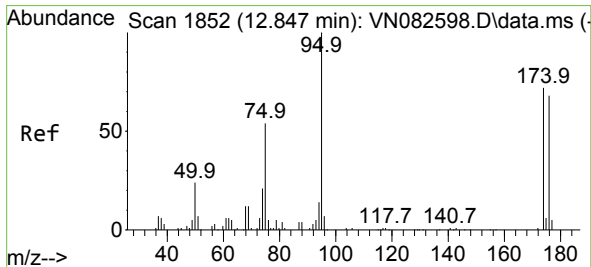
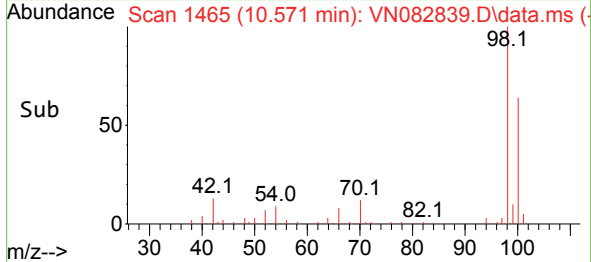
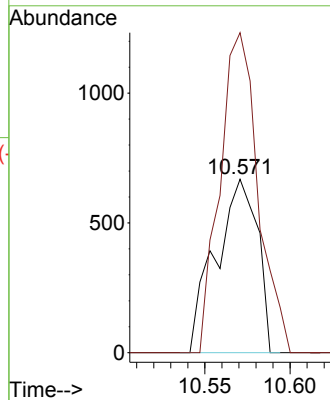
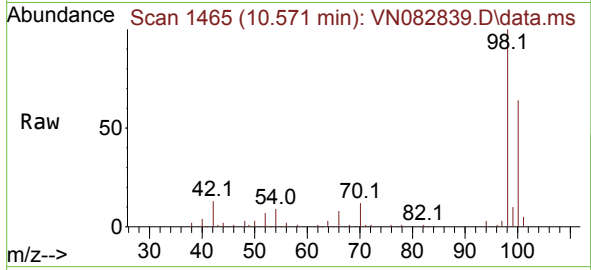




#51  
4-Methyl-2-Pentanone  
Concen: 0.667 ug/l  
RT: 10.571 min Scan# 1444  
Delta R.T. 0.124 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

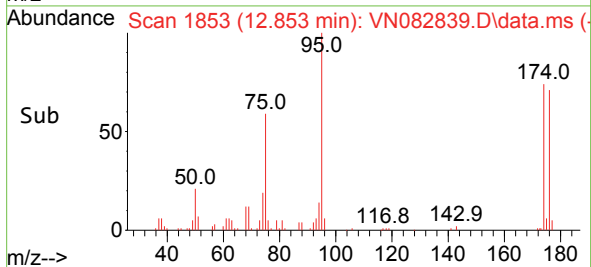
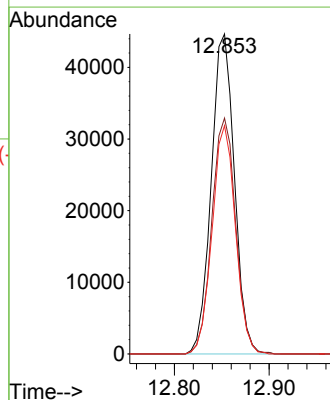
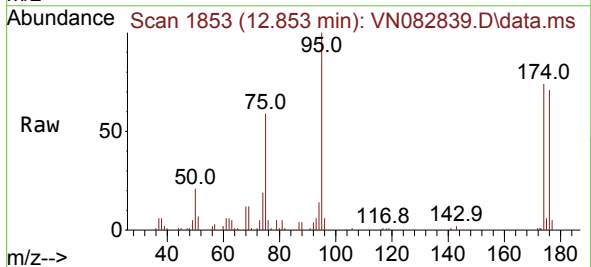
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-189-EB-20240703

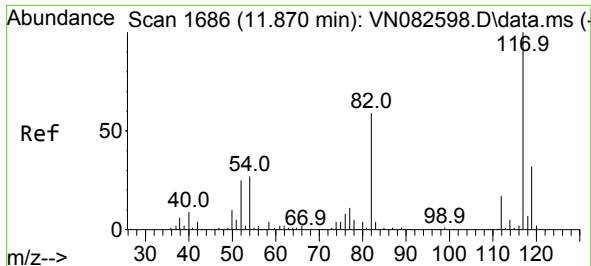
Tgt Ion: 43 Resp: 1143  
Ion Ratio Lower Upper  
43 100  
58 167.7 28.2 42.4#



#62  
4-Bromofluorobenzene  
Concen: 46.553 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Tgt Ion: 95 Resp: 76026  
Ion Ratio Lower Upper  
95 100  
174 75.9 0.0 159.2  
176 71.8 0.0 147.6

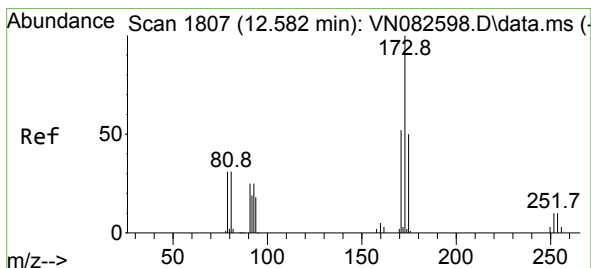
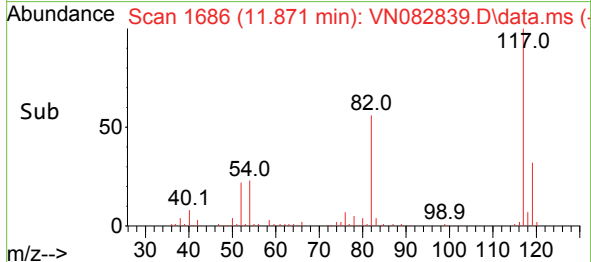
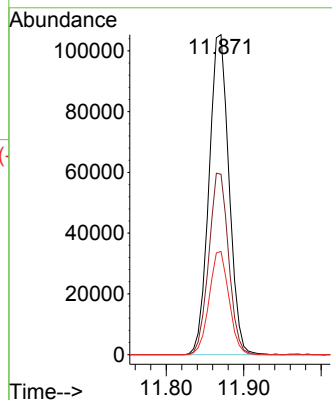
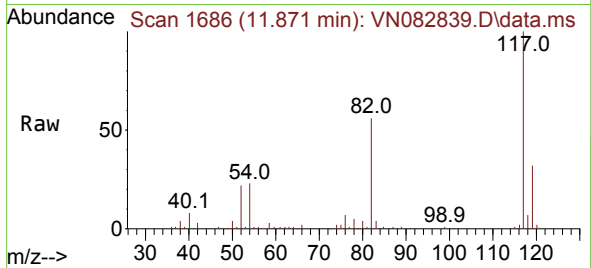




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 117  
Delta R.T. 0.001 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

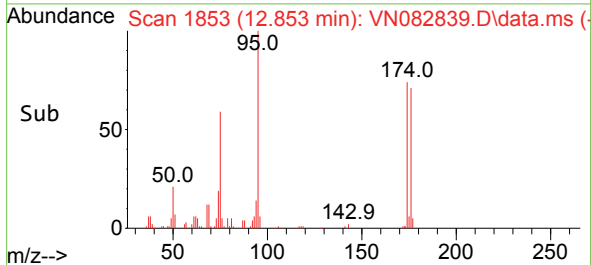
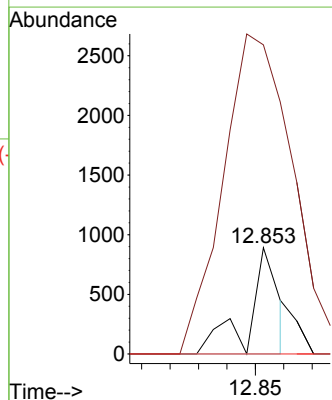
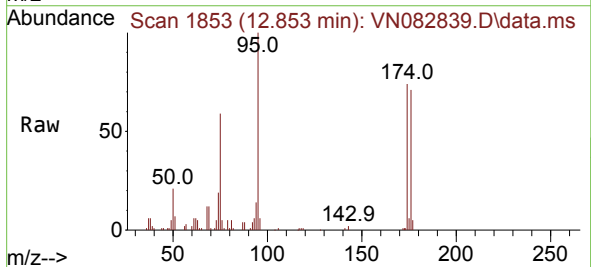
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-189-EB-20240703

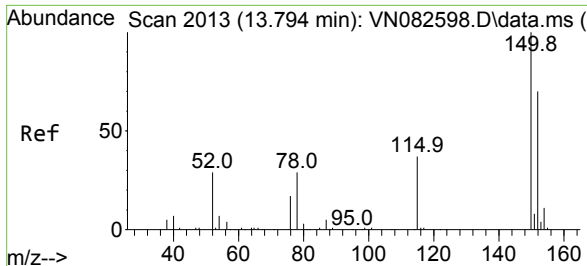
Tgt Ion:117 Resp: 188844  
Ion Ratio Lower Upper  
117 100  
82 56.4 47.5 71.3  
119 32.3 25.6 38.4



#71  
Bromoform  
Concen: 0.575 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.271 min  
Lab File: VN082839.D  
Acq: 09 Jul 2024 14:58

Tgt Ion:173 Resp: 651  
Ion Ratio Lower Upper  
173 100  
175 576.2 24.0 72.0#  
254 0.0 0.0 0.0

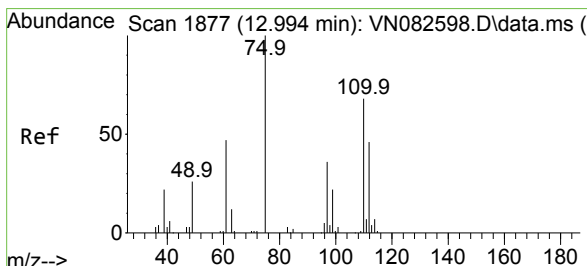
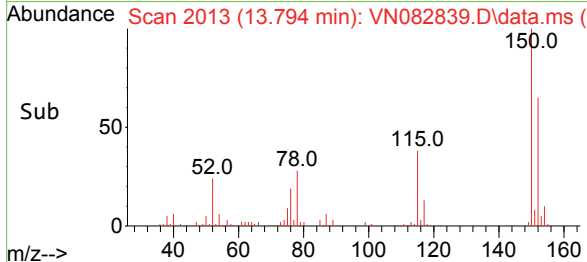
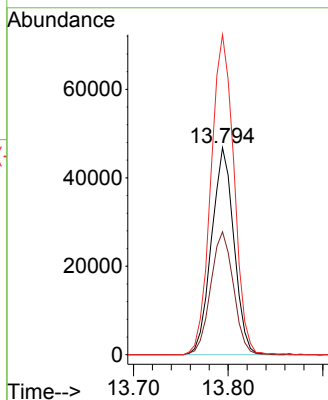
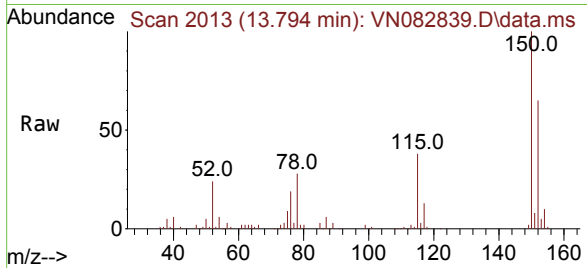




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2013  
 Delta R.T. -0.000 min  
 Lab File: VN082839.D  
 Acq: 09 Jul 2024 14:58

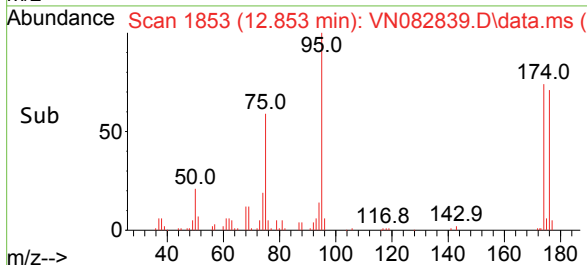
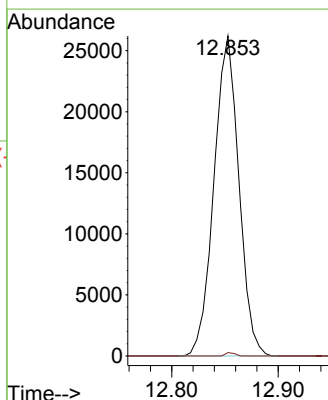
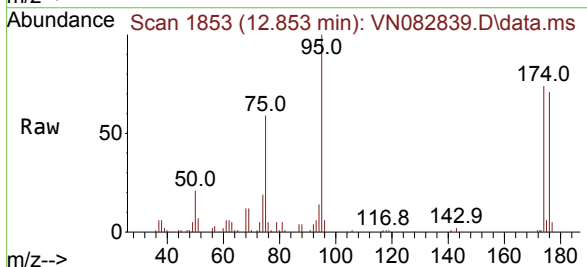
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-189-EB-20240703

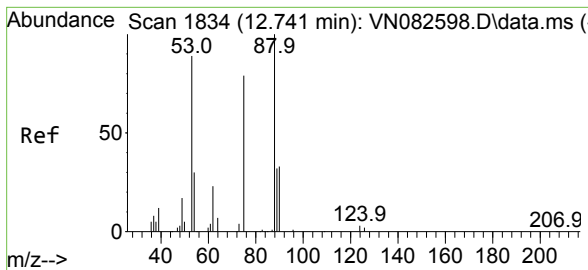
Tgt Ion:152 Resp: 76920  
 Ion Ratio Lower Upper  
 152 100  
 115 60.3 30.6 91.6  
 150 159.0 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 32.060 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN082839.D  
 Acq: 09 Jul 2024 14:58

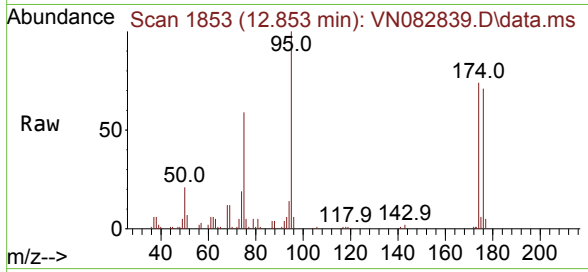
Tgt Ion: 75 Resp: 42516  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 110.9 332.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.052 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN082839.D  
 Acq: 09 Jul 2024 14:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-189-EB-20240703



Tgt Ion: 75 Resp: 42516  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 88.4 132.6#  
 89 0.0 36.3 54.5#

