

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100224\  
 Data File : VN084268.D  
 Acq On : 02 Oct 2024 16:33  
 Operator : JC\MD  
 Sample : P4226-11  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT161S1-20240925

Quant Time: Oct 03 02:01:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

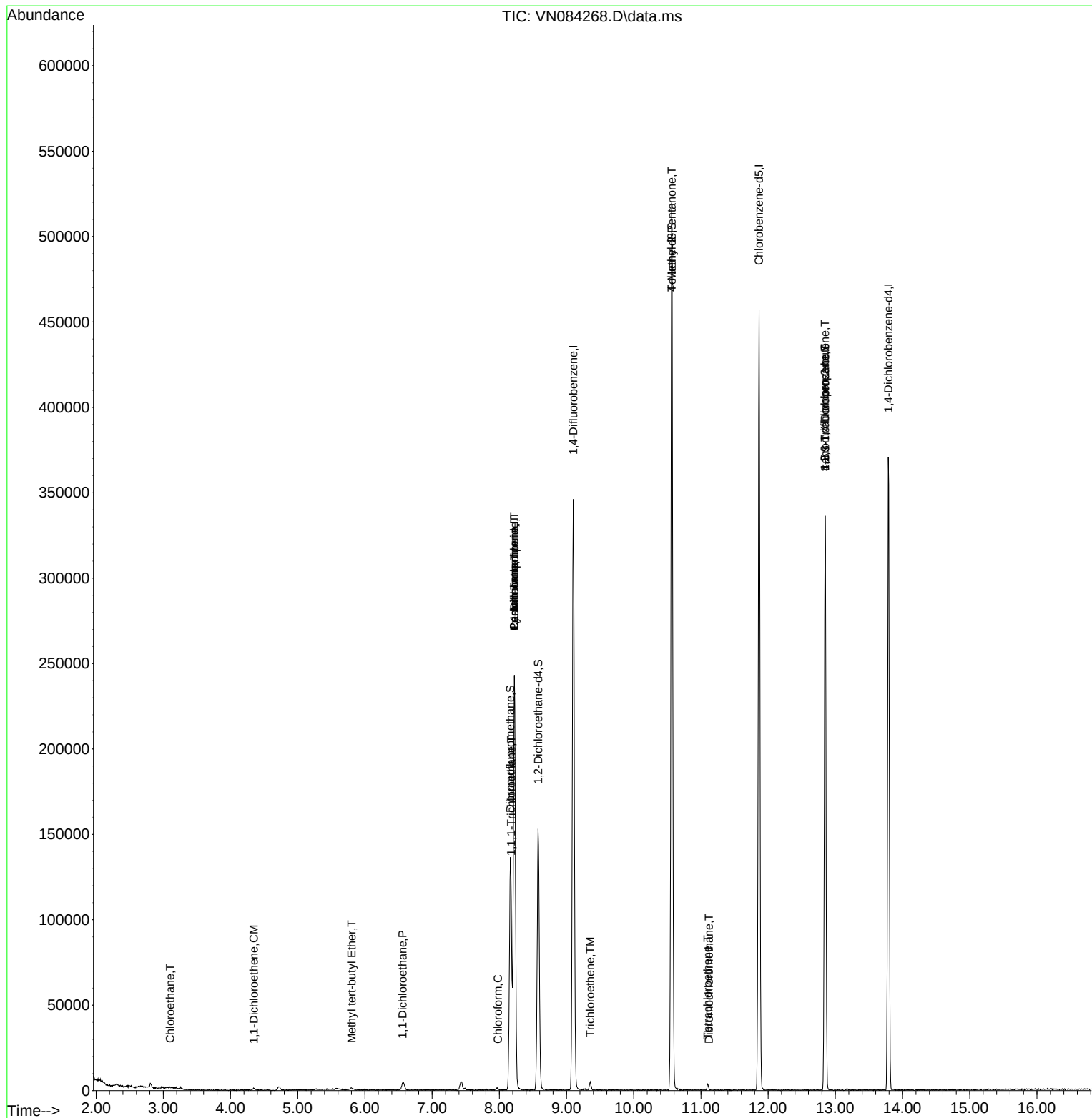
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 167538              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 290349              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 252289              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 97632               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 126356              | 50.867 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 101.740% |        |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 97517               | 50.945 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.880% |        |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 353728              | 50.228 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 100.460% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 118543              | 46.204 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 92.400%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 6) Chloroethane               | 3.101          | 64   | 777                 | 0.495  | ug/l # | 45       |
| 12) 1,1-Dichloroethene        | 4.348          | 96   | 670                 | 0.355  | ug/l   | 88       |
| 19) Methyl tert-butyl Ether   | 5.800          | 73   | 1921                | 0.302  | ug/l # | 89       |
| 24) 1,1-Dichloroethane        | 6.559          | 63   | 7150                | 1.887  | ug/l # | 87       |
| 30) Chloroform                | 7.977          | 83   | 1493                | 0.379  | ug/l # | 62       |
| 31) Cyclohexane               | 8.224          | 56   | 4189                | 1.138  | ug/l # | 25       |
| 32) 1,1,1-Trichloroethane     | 8.177          | 97   | 715                 | 0.202  | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 14713               | 5.292  | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 18959               | 6.216  | ug/l # | 17       |
| 44) Trichloroethene           | 9.353          | 130  | 1744                | 0.862  | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 1684                | 0.620  | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.118         | 129  | 739                 | 0.330  | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.100         | 164  | 894                 | 0.509  | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 62418               | 31.316 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 62418               | 75.078 | ug/l # | 11       |
| -----                         |                |      |                     |        |        |          |

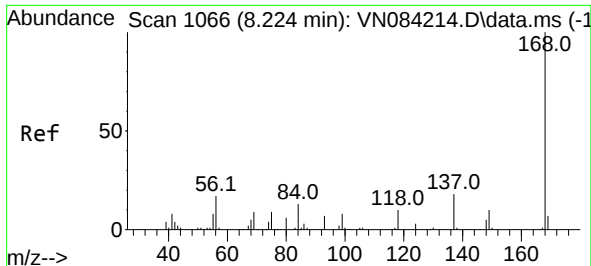
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100224\  
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Sample : P4226-11  
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Instrument :  
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ClientSampleId :  
TT161S1-20240925

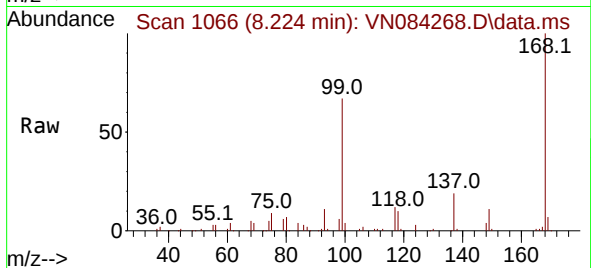
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 2024  
Response via : Initial Calibration



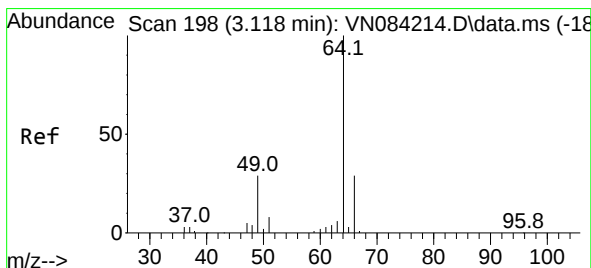
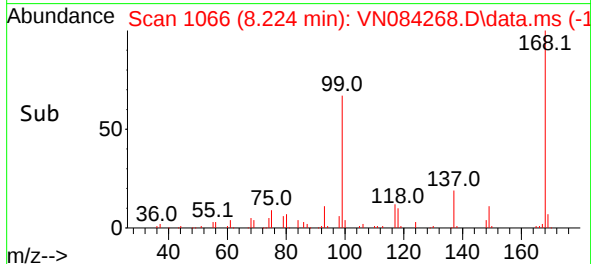
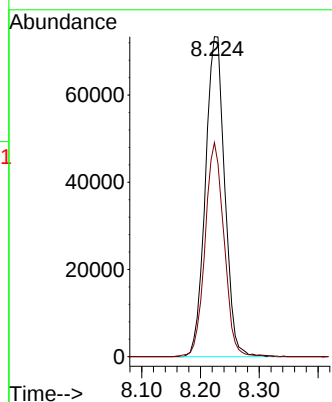


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT161S1-20240925

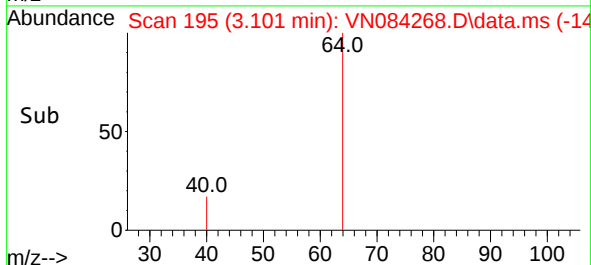
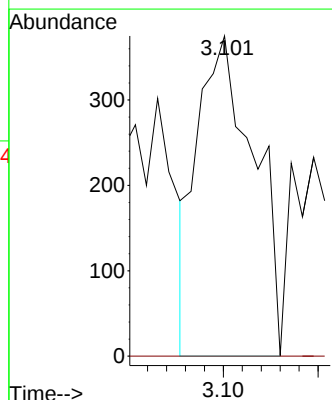
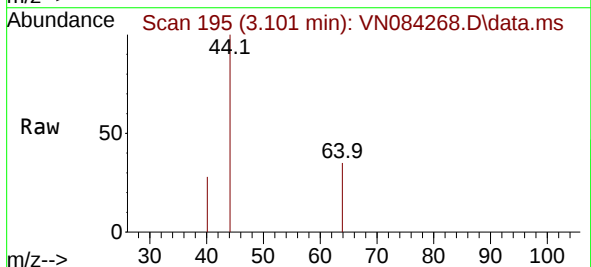


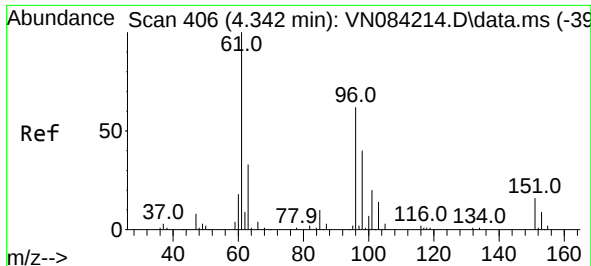
Tgt Ion:168 Resp: 167538  
Ion Ratio Lower Upper  
168 100  
99 66.9 54.2 81.2



#6  
Chloroethane  
Concen: 0.495 ug/l  
RT: 3.101 min Scan# 195  
Delta R.T. -0.018 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Tgt Ion: 64 Resp: 777  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



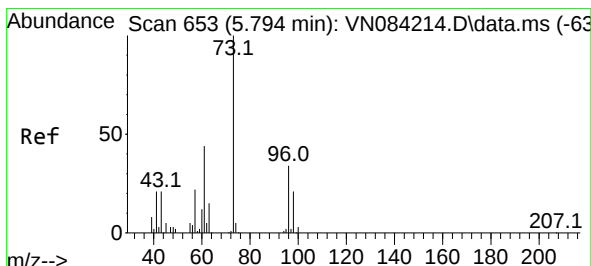
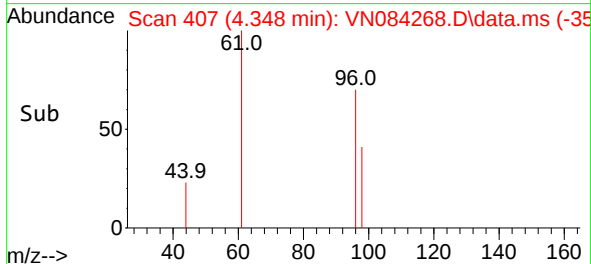
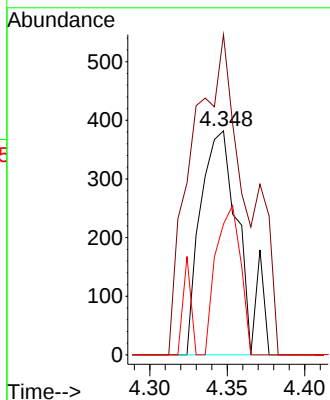
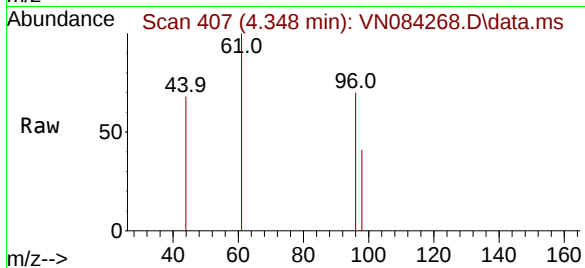


#12  
 1,1-Dichloroethene  
 Concen: 0.355 ug/l  
 RT: 4.348 min Scan# 406  
 Delta R.T. 0.006 min  
 Lab File: VN084268.D  
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Tgt Ion: 96 Resp: 670  

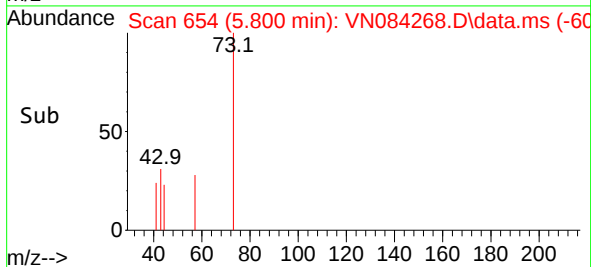
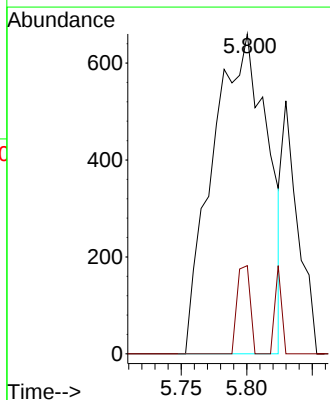
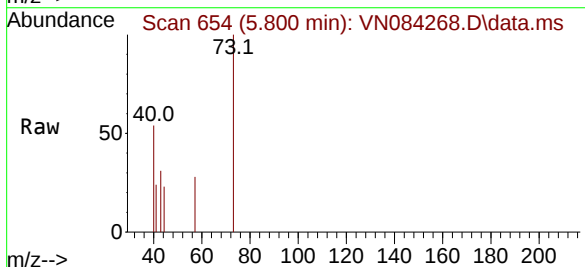
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 142.9 | 128.6 | 192.8 |
| 98  | 58.4  | 51.7  | 77.5  |

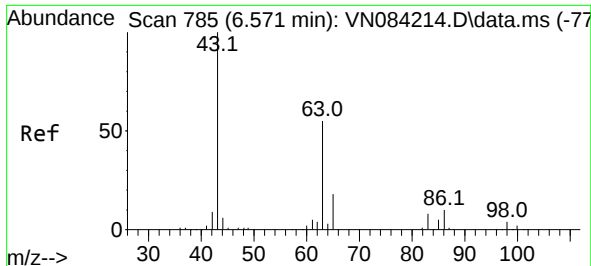


#19  
 Methyl tert-butyl Ether  
 Concen: 0.302 ug/l  
 RT: 5.800 min Scan# 654  
 Delta R.T. 0.006 min  
 Lab File: VN084268.D  
 Acq: 02 Oct 2024 16:33

Tgt Ion: 73 Resp: 1921  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 27.6  | 17.7  | 26.5  |

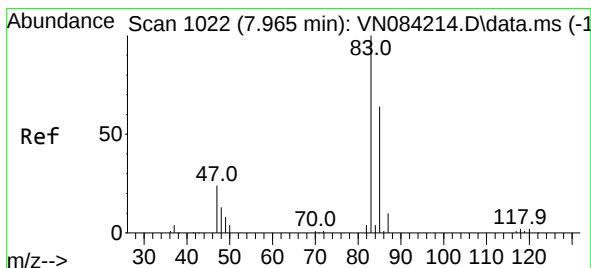
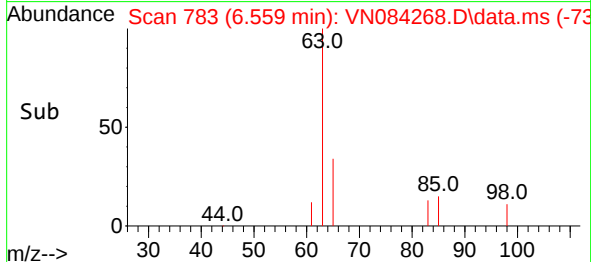
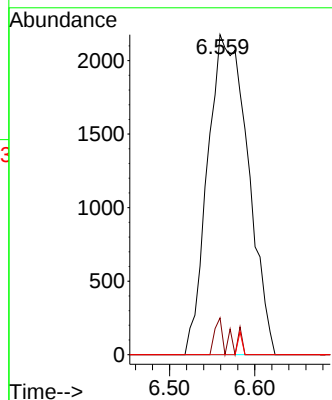
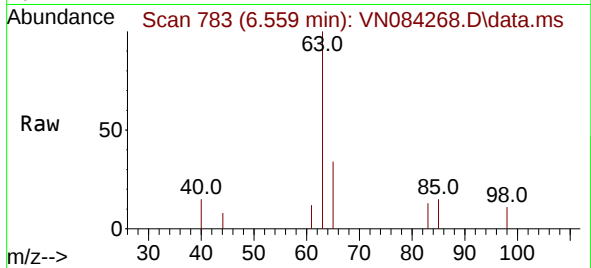




#24  
1,1-Dichloroethane  
Concen: 1.887 ug/l  
RT: 6.559 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

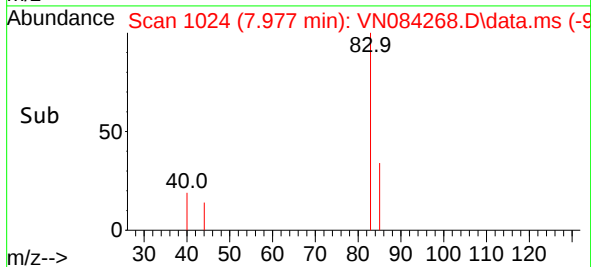
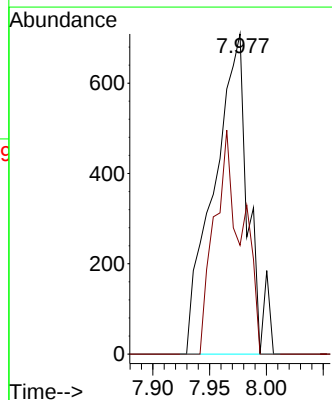
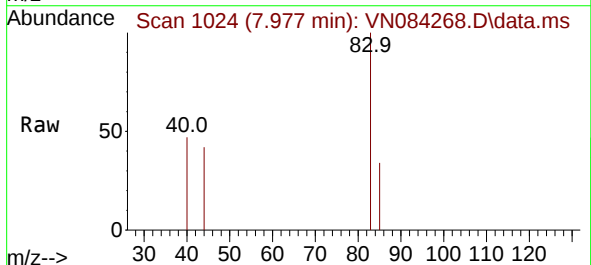
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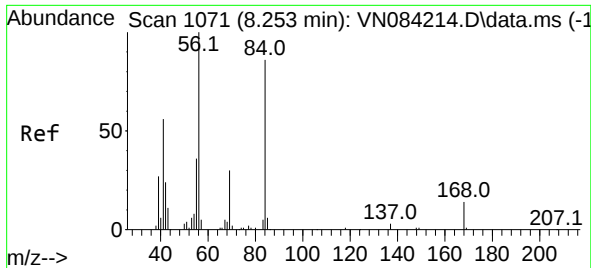
Tgt Ion: 63 Resp: 7150  
Ion Ratio Lower Upper  
63 100  
98 11.5 3.4 10.2#  
100 0.0 2.0 5.8#



#30  
Chloroform  
Concen: 0.379 ug/l  
RT: 7.977 min Scan# 1024  
Delta R.T. 0.012 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Tgt Ion: 83 Resp: 1493  
Ion Ratio Lower Upper  
83 100  
85 34.0 51.0 76.4#

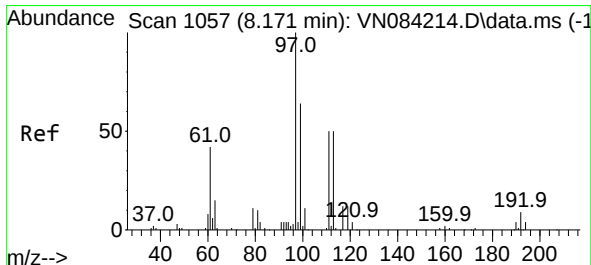
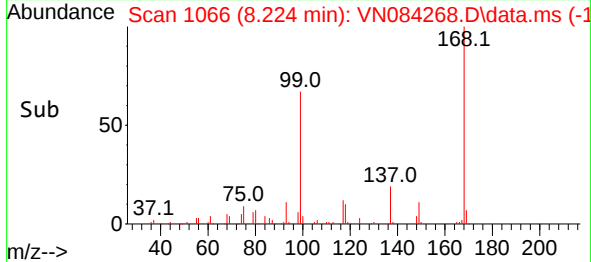
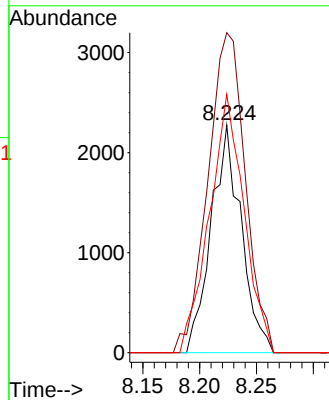
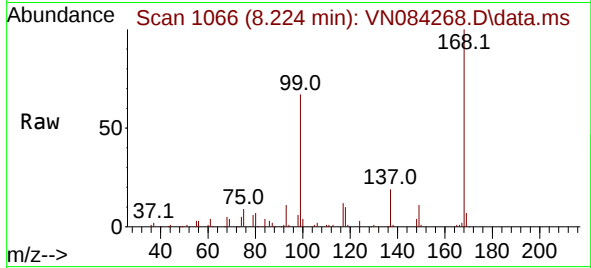




#31  
Cyclohexane  
Concen: 1.138 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

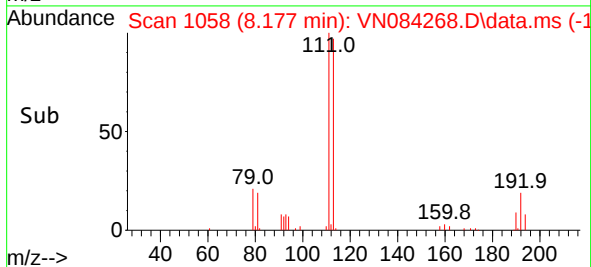
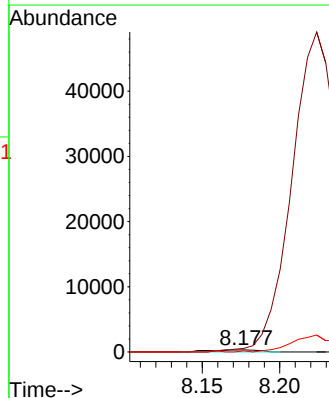
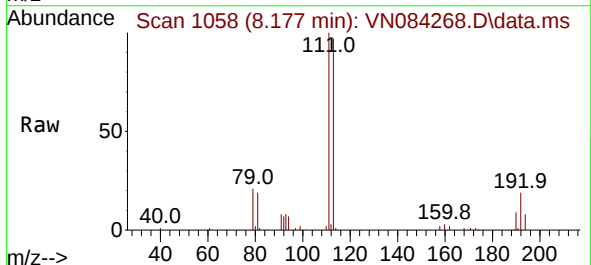
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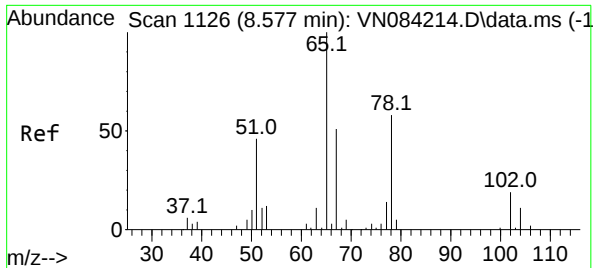
Tgt Ion: 56 Resp: 4189  
Ion Ratio Lower Upper  
56 100  
69 140.6 23.8 35.6#  
84 113.6 68.8 103.2#



#32  
1,1,1-Trichloroethane  
Concen: 0.202 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. 0.006 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Tgt Ion: 97 Resp: 715  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.2 76.8#  
61 0.0 37.5 56.3#

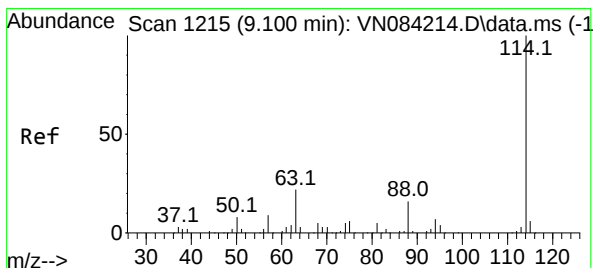
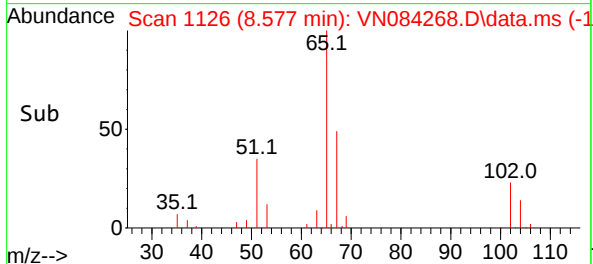
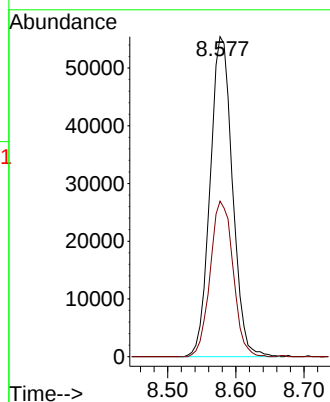
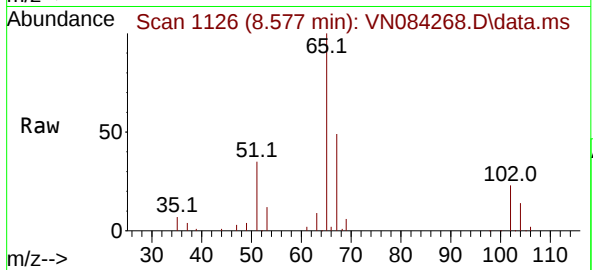




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.867 ug/l  
 RT: 8.577 min Scan# 1126  
 Delta R.T. 0.000 min  
 Lab File: VN084268.D  
 Acq: 02 Oct 2024 16:33

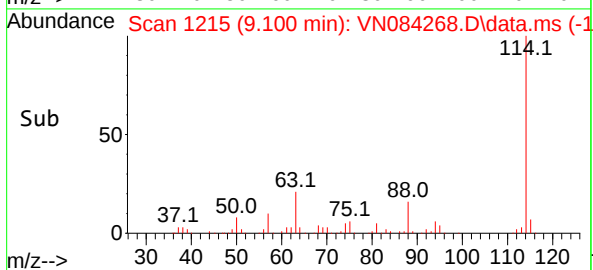
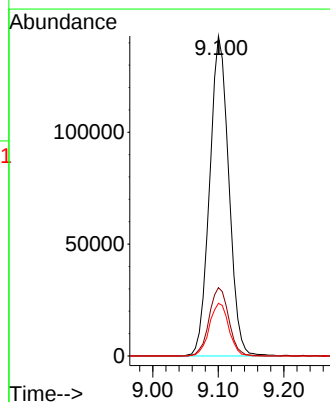
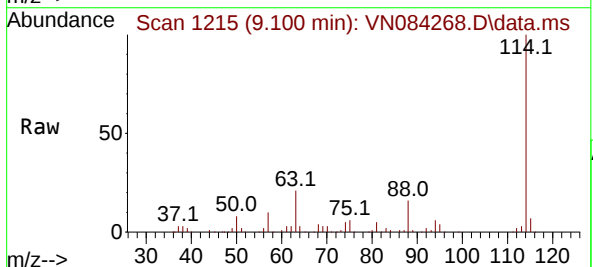
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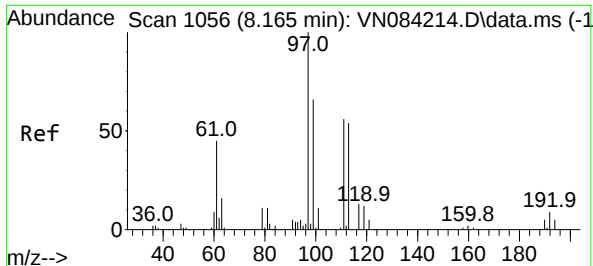
Tgt Ion: 65 Resp: 126356  
 Ion Ratio Lower Upper  
 65 100  
 67 49.8 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. 0.000 min  
 Lab File: VN084268.D  
 Acq: 02 Oct 2024 16:33

Tgt Ion: 114 Resp: 290349  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 43.8  
 88 16.4 0.0 31.6

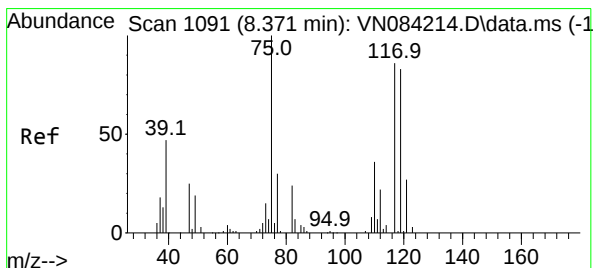
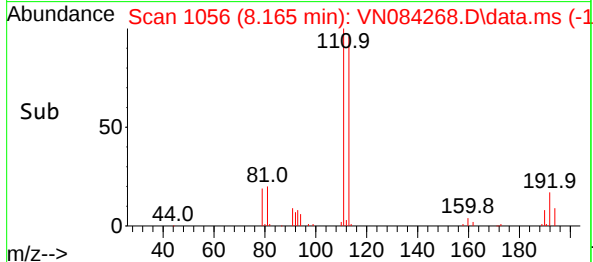
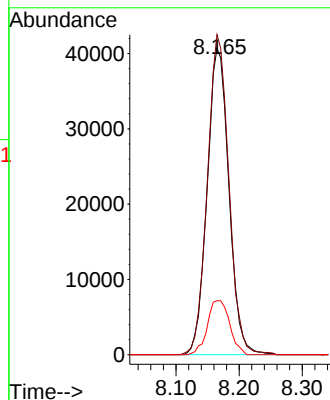
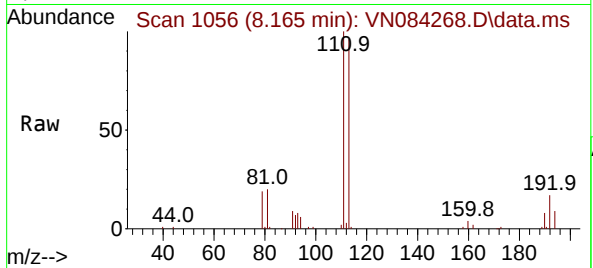




#35  
Dibromofluoromethane  
Concen: 50.945 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

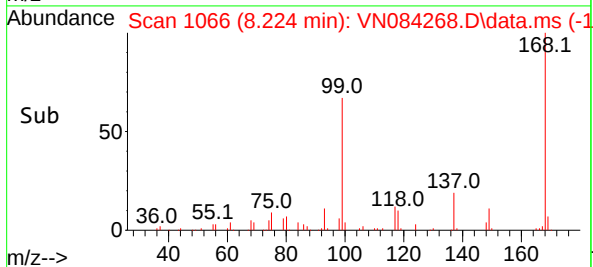
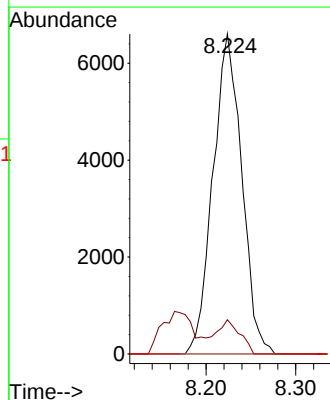
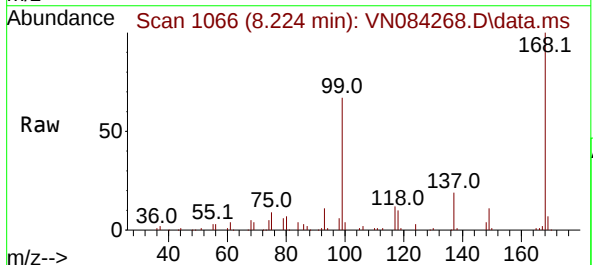
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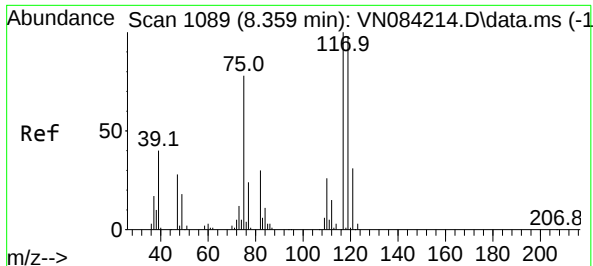
Tgt Ion:113 Resp: 97517  
Ion Ratio Lower Upper  
113 100  
111 103.1 83.3 124.9  
192 18.1 13.5 20.3



#36  
1,1-Dichloropropene  
Concen: 5.292 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

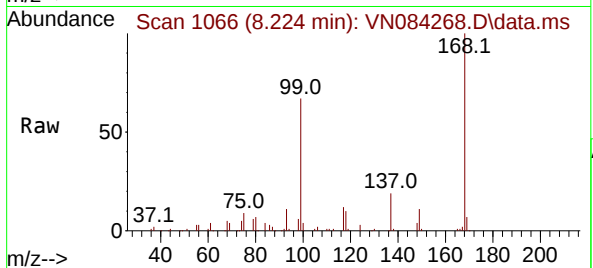
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77 0.0 24.7 37.1#



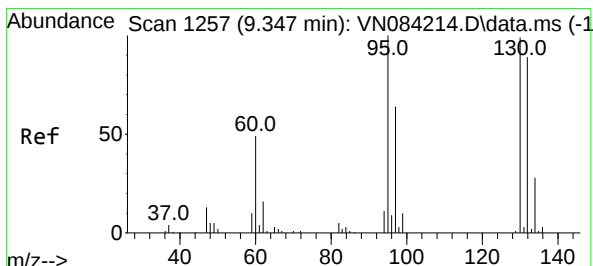
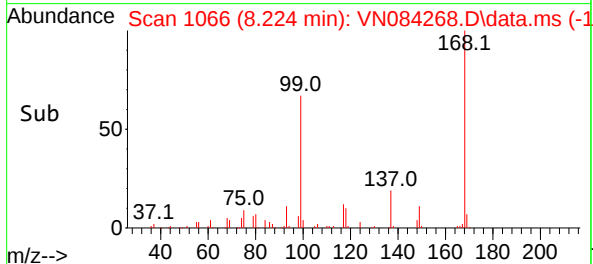
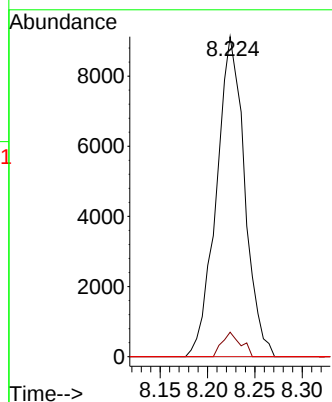


#38  
Carbon Tetrachloride  
Concen: 6.216 ug/l  
RT: 8.224 min Scan# 11  
Delta R.T. -0.135 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT161S1-20240925

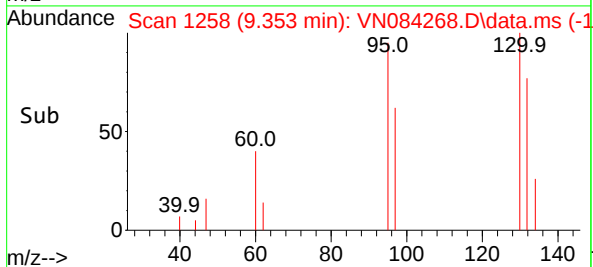
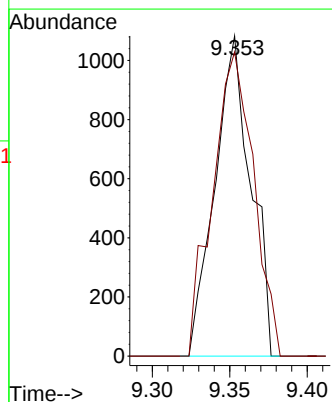
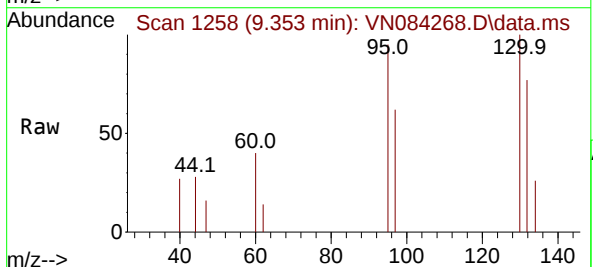


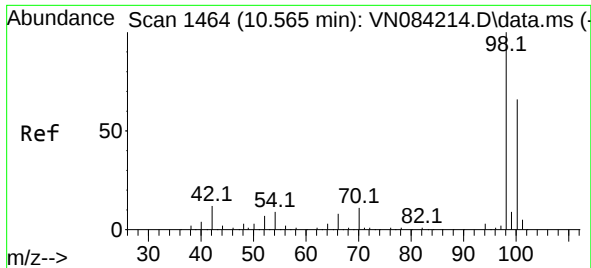
Tgt Ion:117 Resp: 18959  
Ion Ratio Lower Upper  
117 100  
119 7.6 78.7 118.1#  
121 0.0 24.4 36.6#



#44  
Trichloroethene  
Concen: 0.862 ug/l  
RT: 9.353 min Scan# 1258  
Delta R.T. 0.006 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Tgt Ion:130 Resp: 1744  
Ion Ratio Lower Upper  
130 100  
95 95.0 0.0 203.0

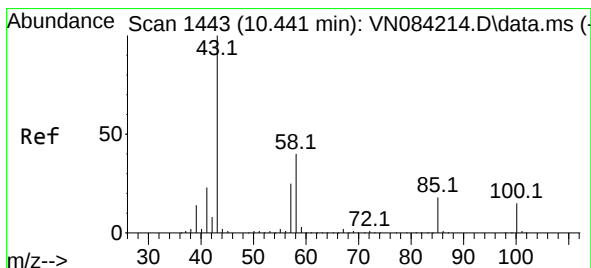
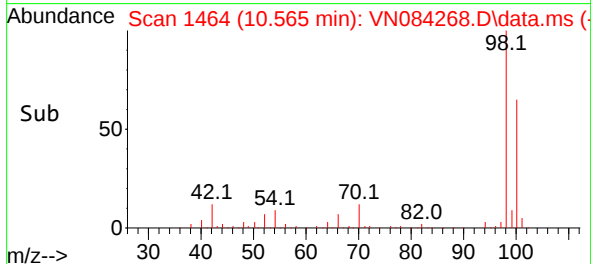
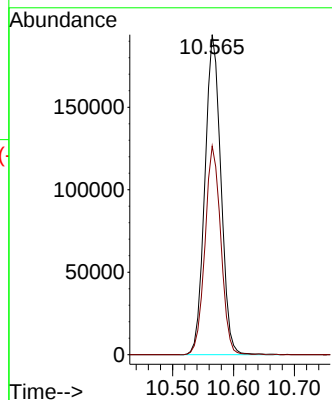
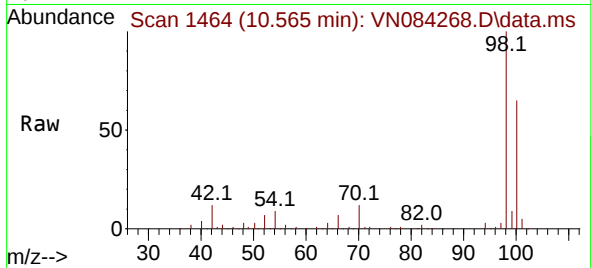




#50  
Toluene-d8  
Concen: 50.228 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

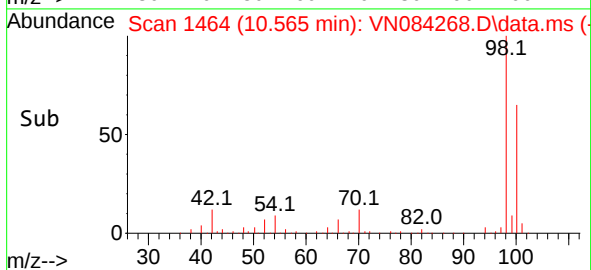
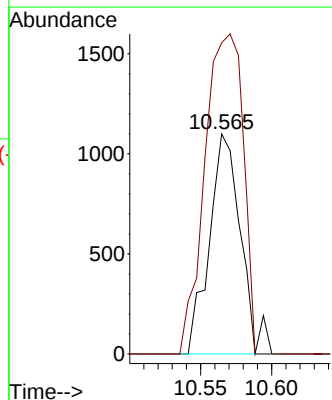
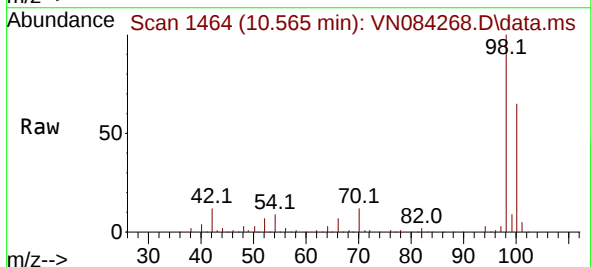
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT161S1-20240925

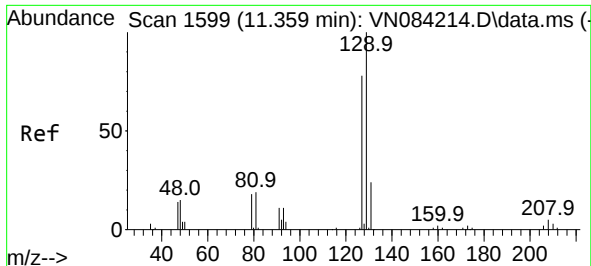
Tgt Ion: 98 Resp: 353728  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.620 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.124 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Tgt Ion: 43 Resp: 1684  
Ion Ratio Lower Upper  
43 100  
58 178.6 31.6 47.4#

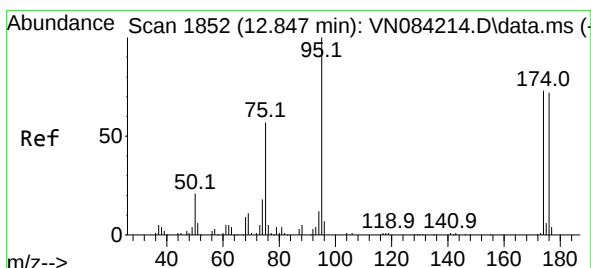
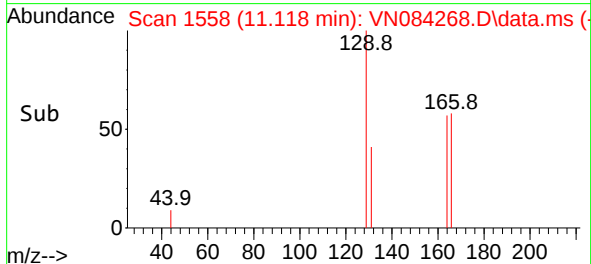
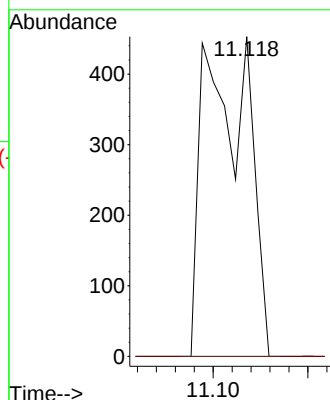
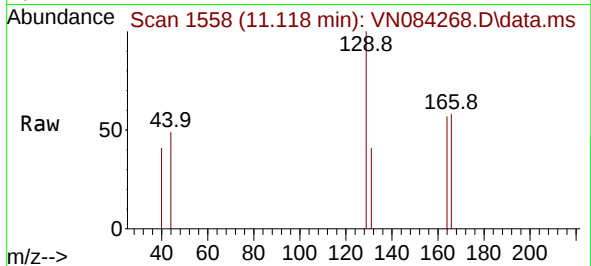




#60  
Dibromochloromethane  
Concen: 0.330 ug/l  
RT: 11.118 min Scan# 11  
Delta R.T. -0.241 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

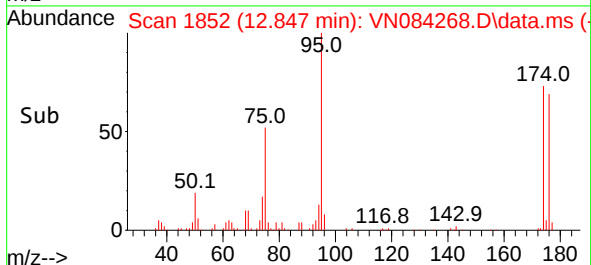
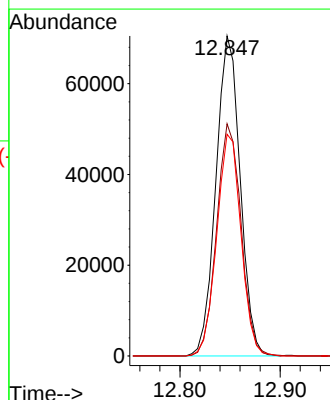
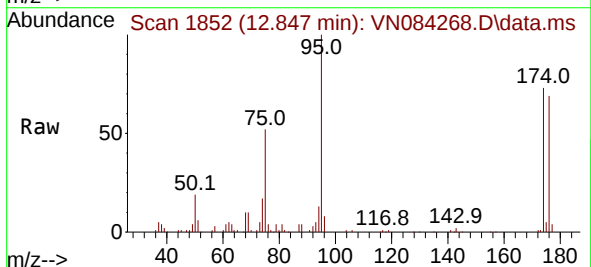
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT161S1-20240925

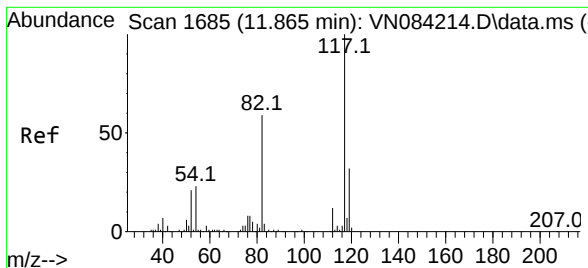
Tgt Ion:129 Resp: 739  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.3 114.9#



#62  
4-Bromofluorobenzene  
Concen: 46.204 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084268.D  
Acq: 02 Oct 2024 16:33

Tgt Ion: 95 Resp: 118543  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 145.2  
176 69.3 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084268.D

Acq: 02 Oct 2024 16:33

Instrument :

MSVOA\_N

ClientSampleId :

TT161S1-20240925

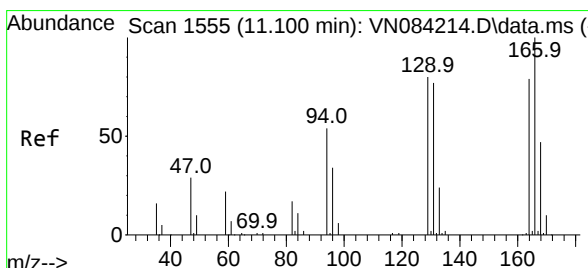
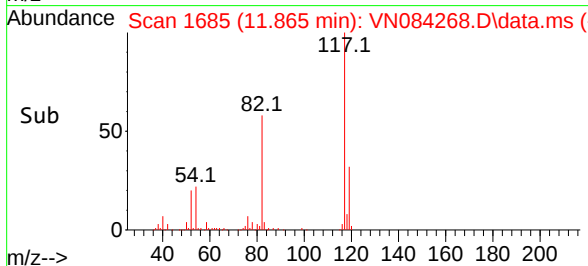
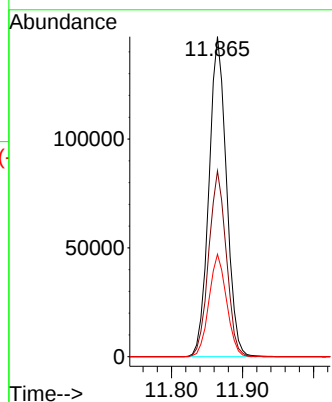
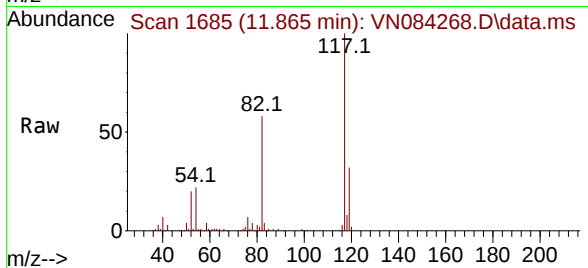
Tgt Ion:117 Resp: 252289

Ion Ratio Lower Upper

117 100

82 58.0 47.2 70.8

119 32.0 25.4 38.0



#64

Tetrachloroethene

Concen: 0.509 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084268.D

Acq: 02 Oct 2024 16:33

Tgt Ion:164 Resp: 894

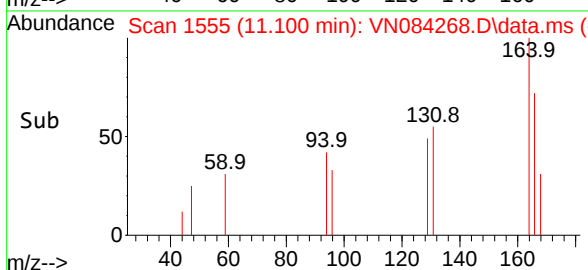
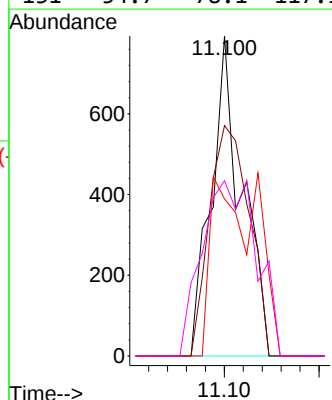
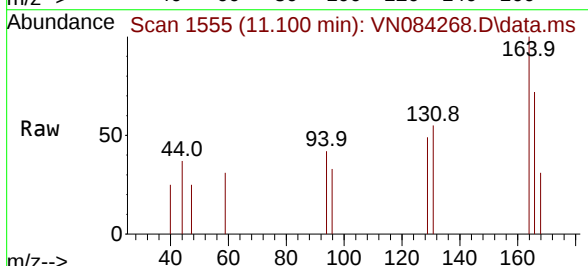
Ion Ratio Lower Upper

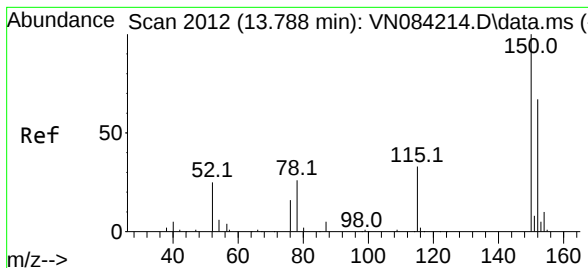
164 100

166 72.0 101.0 151.4#

129 49.1 80.8 121.2#

131 54.7 78.1 117.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN084268.D

Acq: 02 Oct 2024 16:33

Instrument :

MSVOA\_N

ClientSampleId :

TT161S1-20240925

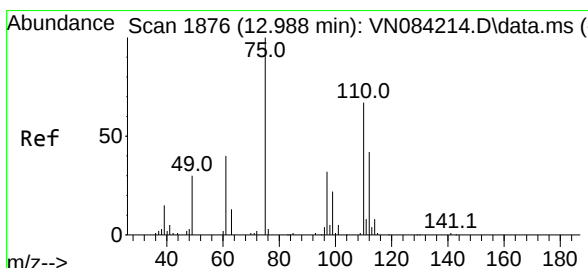
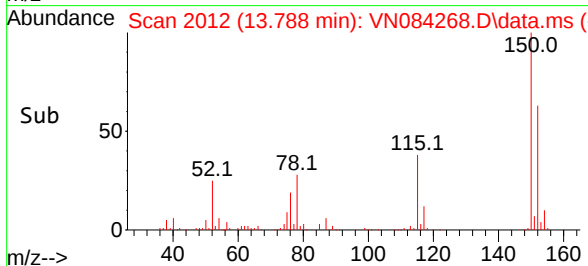
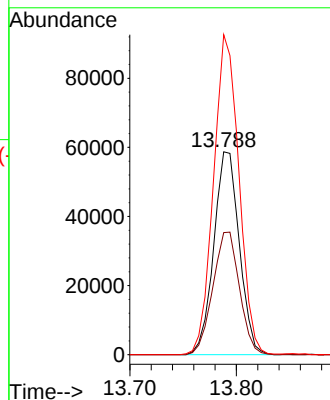
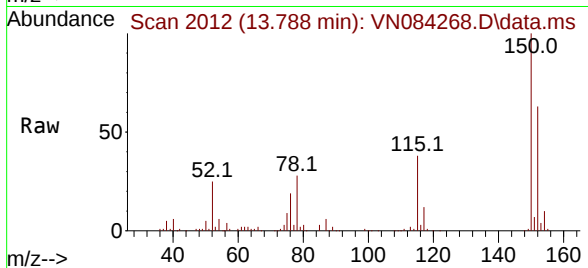
Tgt Ion:152 Resp: 97632

Ion Ratio Lower Upper

152 100

115 62.9 31.3 93.9

150 157.0 0.0 349.8



#76

1,2,3-Trichloropropane

Concen: 31.316 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084268.D

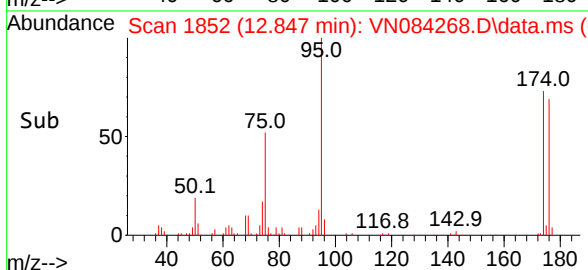
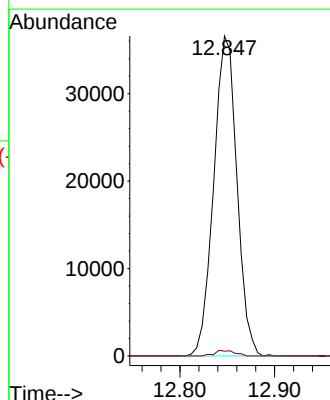
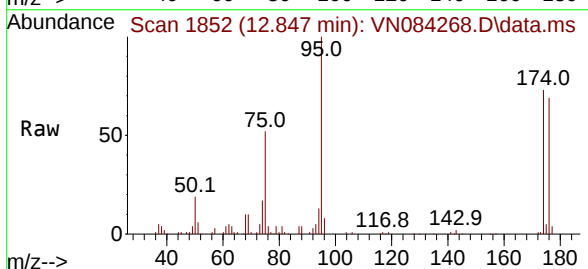
Acq: 02 Oct 2024 16:33

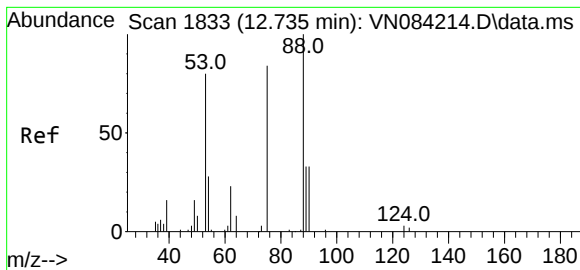
Tgt Ion: 75 Resp: 62418

Ion Ratio Lower Upper

75 100

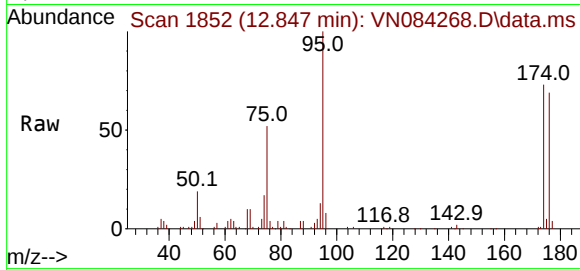
77 1.5 96.9 290.7#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 75.078 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN084268.D  
 Acq: 02 Oct 2024 16:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT161S1-20240925



Tgt Ion: 75 Resp: 62418  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 35.5 53.3#

