

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041125\  
 Data File : VN086252.D  
 Acq On : 11 Apr 2025 16:15  
 Operator : JC\MD  
 Sample : Q1774-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT-073-IDWGW-20250409

Quant Time: Apr 12 01:50:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 12 01:21:52 2025  
 Response via : Initial Calibration

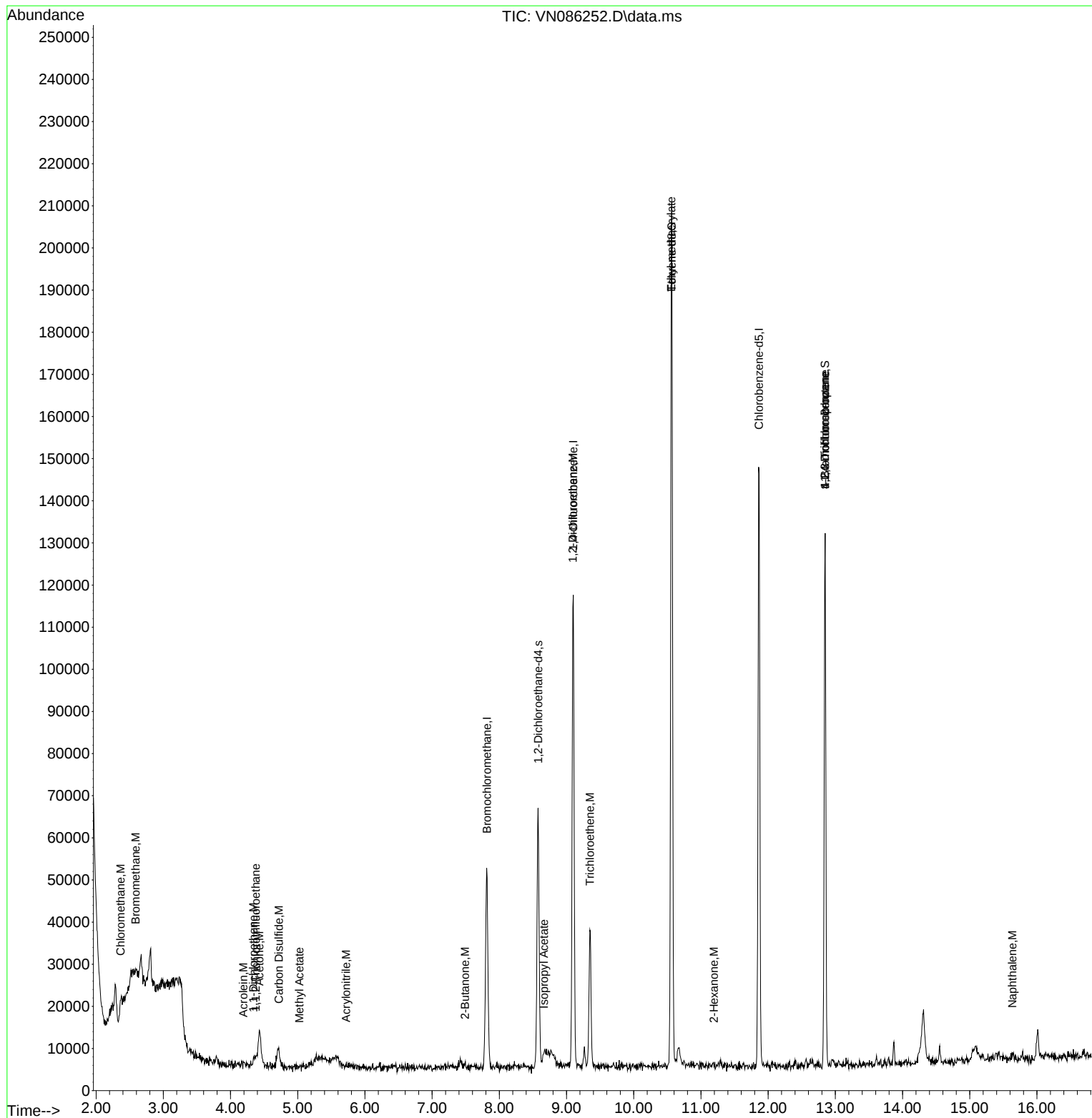
| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.818  | 128   | 16665    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.100  | 114   | 98006    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.865 | 117   | 84075    | 30.000   | ug/l   | 0.00     |
|                              |        |       |          |          |        |          |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.577  | 65    | 49324    | 30.345   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 101.133% |
| 60) 4-Bromofluorobenzene     | 12.847 | 95    | 48470    | 28.956   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 96.533%  |
| 63) Toluene-d8               | 10.565 | 98    | 142745   | 30.074   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 100.233% |
|                              |        |       |          |          |        |          |
| Target Compounds             |        |       |          |          |        | Qvalue   |
| 3) Chloromethane             | 2.365  | 50    | 971      | 0.526    | ug/l # | 69       |
| 5) Bromomethane              | 2.589  | 94    | 207      | 0.236    | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377  | 101   | 1121     | 0.953    | ug/l   | 86       |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 573      | 0.452    | ug/l # | 58       |
| 12) Methyl Acetate           | 5.024  | 43    | 503      | 0.281    | ug/l # | 51       |
| 13) Acrolein                 | 4.189  | 56    | 497      | 2.440    | ug/l   | 93       |
| 14) Acrylonitrile            | 5.718  | 53    | 180      | 0.238    | ug/l # | 18       |
| 15) Acetone                  | 4.430  | 58    | 5740     | 29.925   | ug/l   | 82       |
| 16) Carbon Disulfide         | 4.718  | 76    | 1642     | 0.451    | ug/l # | 74       |
| 30) 2-Butanone               | 7.489  | 43    | 497      | 0.511    | ug/l # | 47       |
| 36) 1,2-Dichloroethane       | 9.094  | 62    | 3471     | 1.986    | ug/l # | 86       |
| 37) Trichloroethene          | 9.347  | 130   | 11784    | 8.744    | ug/l   | 100      |
| 44) Isopropyl Acetate        | 8.665  | 43    | 2347     | 0.645    | ug/l # | 49       |
| 51) Ethyl methacrylate       | 10.559 | 69    | 723      | 0.309    | ug/l   | 74       |
| 59) 2-Hexanone               | 11.194 | 43    | 422      | 0.297    | ug/l # | 30       |
| 72) 1,2,3-Trichloropropane   | 12.847 | 75    | 23546    | 14.091   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene  | 12.847 | 75    | 23546    | 30.561   | ug/l # | 12       |
| 91) Naphthalene              | 15.635 | 128   | 1398     | 0.318    | ug/l # | 79       |
| -----                        |        |       |          |          |        |          |

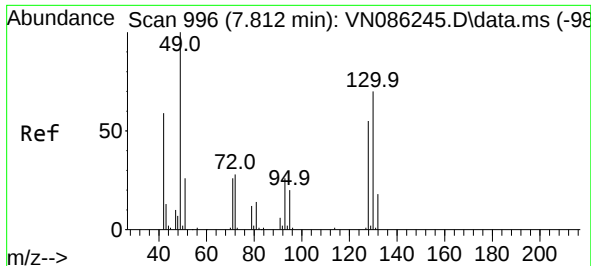
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041125\  
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QLast Update : Sat Apr 12 01:21:52 2025  
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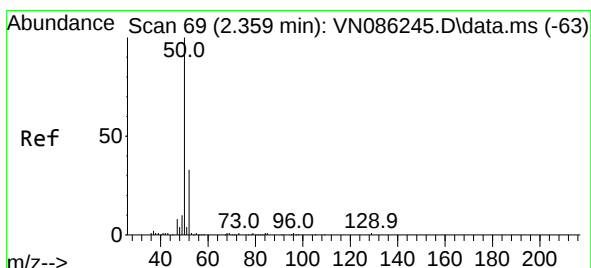
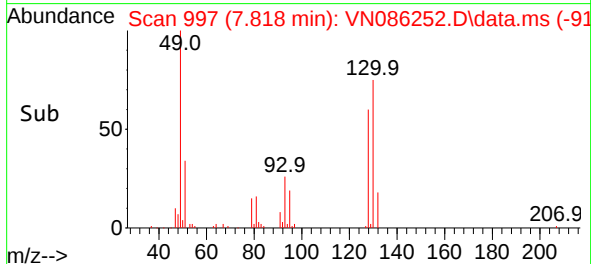
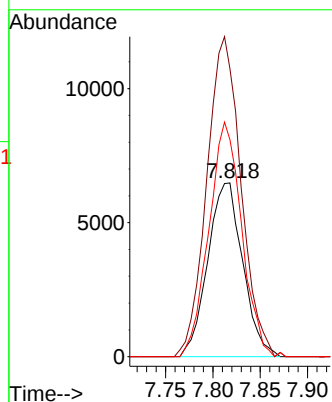
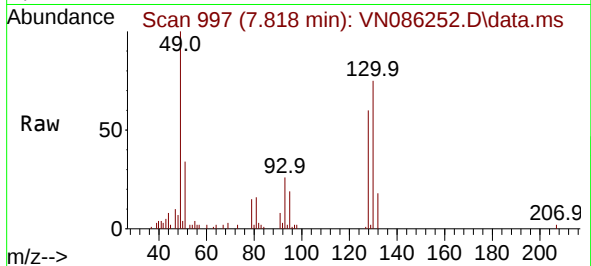




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.818 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

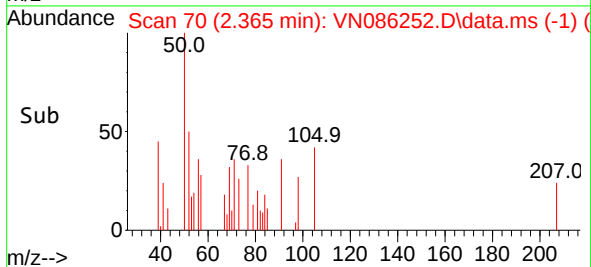
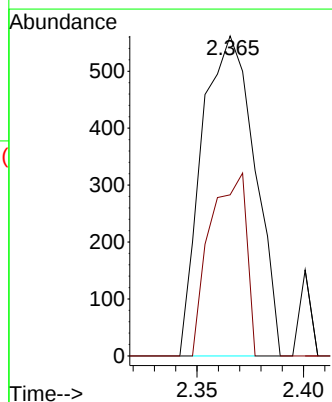
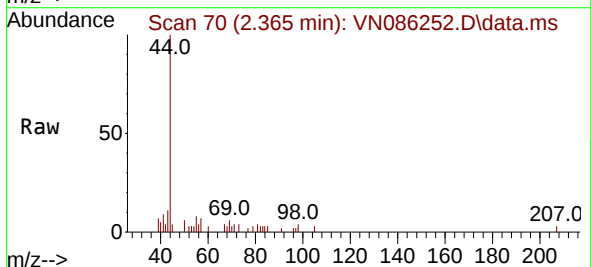
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-073-IDWGW-20250409

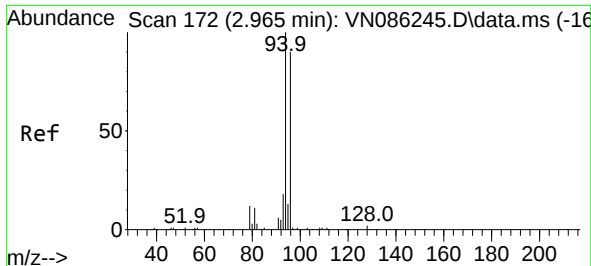
Tgt Ion:128 Resp: 16665  
Ion Ratio Lower Upper  
128 100  
49 179.9 0.0 452.5  
130 126.8 0.0 315.0



#3  
Chloromethane  
Concen: 0.526 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion: 50 Resp: 971  
Ion Ratio Lower Upper  
50 100  
52 50.4 26.4 39.6#

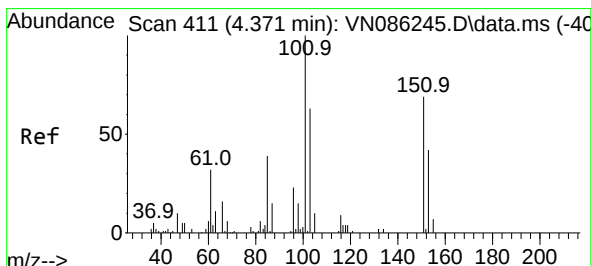
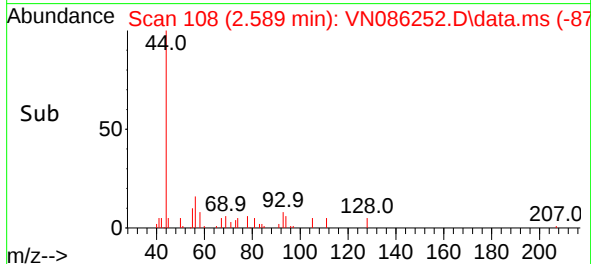
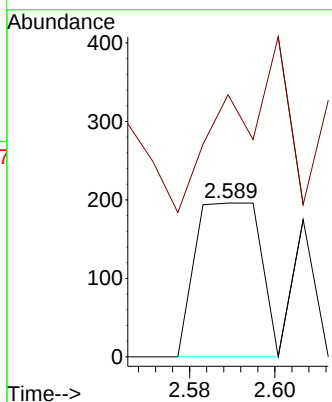
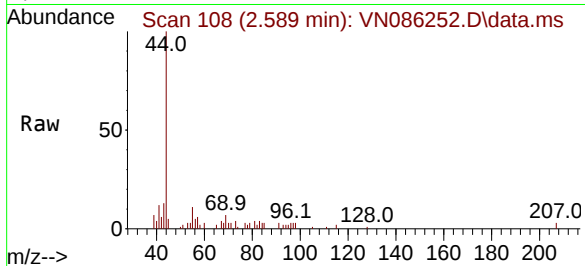




#5  
Bromomethane  
Concen: 0.236 ug/l  
RT: 2.589 min Scan# 108  
Delta R.T. -0.376 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

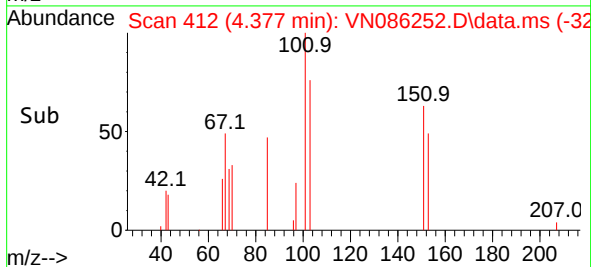
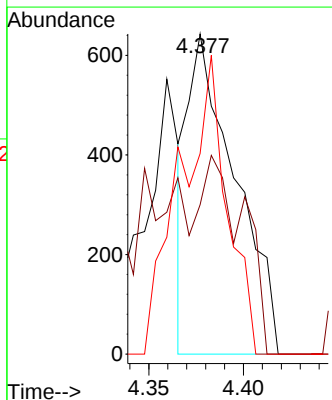
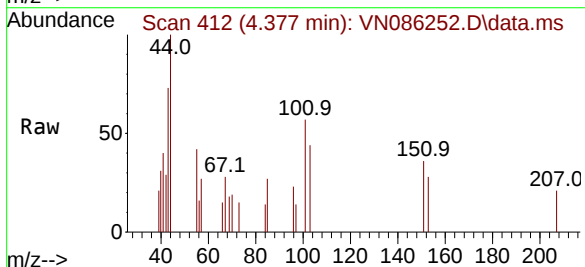
Instrument :  
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ClientSampleId :  
TT-073-IDWGW-20250409

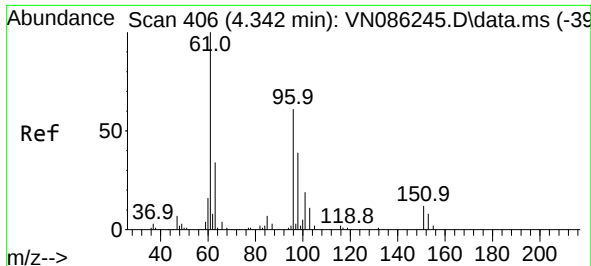
Tgt Ion: 94 Resp: 207  
Ion Ratio Lower Upper  
94 100  
96 76.5 72.2 108.2



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.953 ug/l  
RT: 4.377 min Scan# 412  
Delta R.T. 0.006 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion: 101 Resp: 1121  
Ion Ratio Lower Upper  
101 100  
85 40.1 0.0 93.0  
151 54.8 0.0 138.6

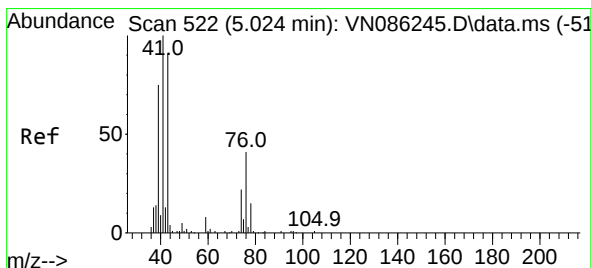
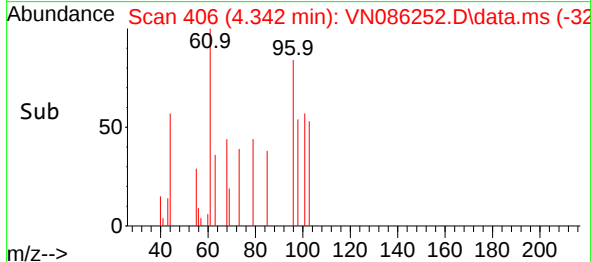
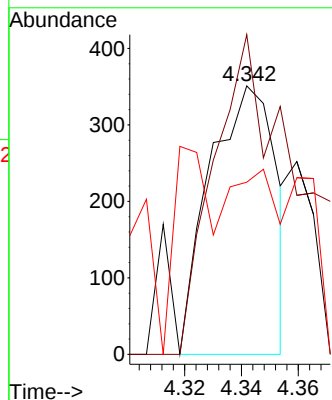
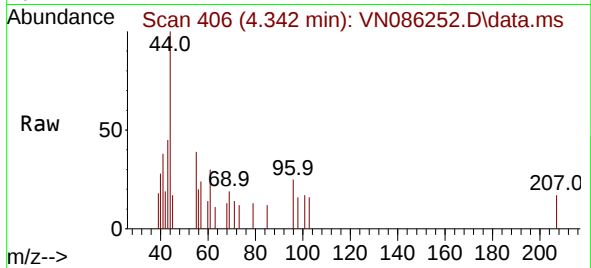




#10  
1,1-Dichloroethene  
Concen: 0.452 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.000 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

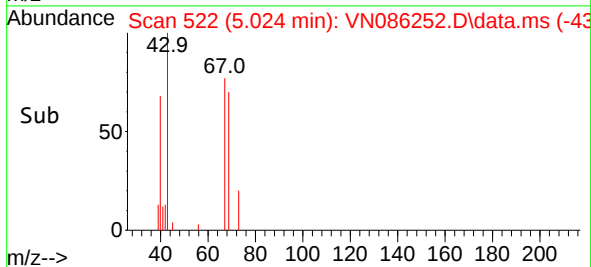
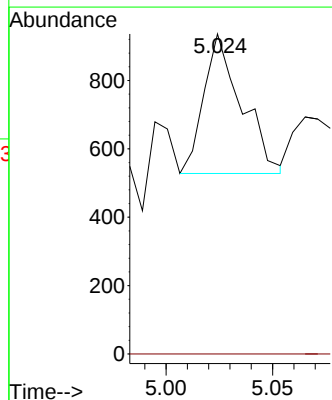
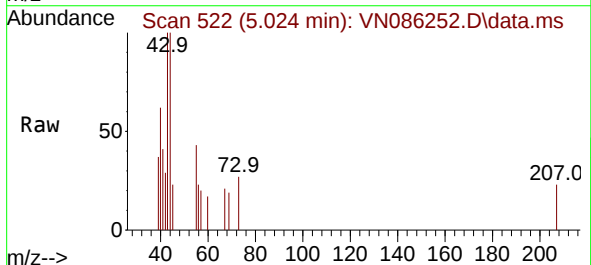
Instrument :  
MSVOA\_N  
ClientSampleId :  
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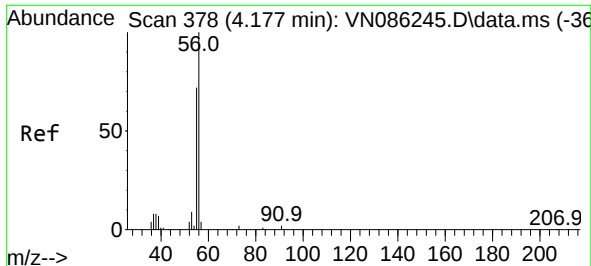
Tgt Ion: 96 Resp: 573  
Ion Ratio Lower Upper  
96 100  
61 119.1 131.1 196.7#  
98 15.7 51.6 77.4#



#12  
Methyl Acetate  
Concen: 0.281 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.000 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion: 43 Resp: 503  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.1 28.7#

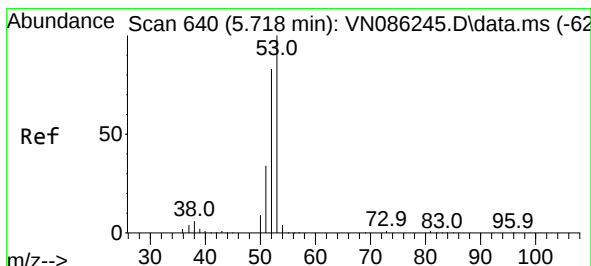
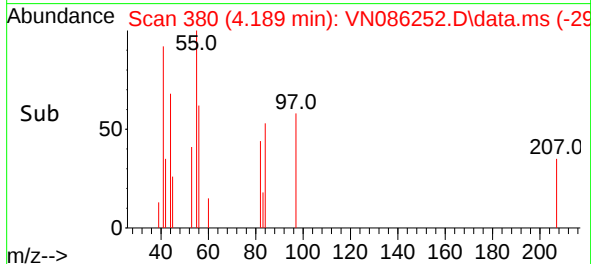
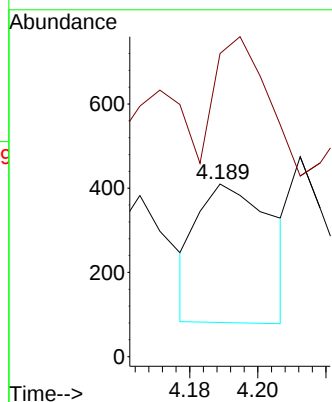
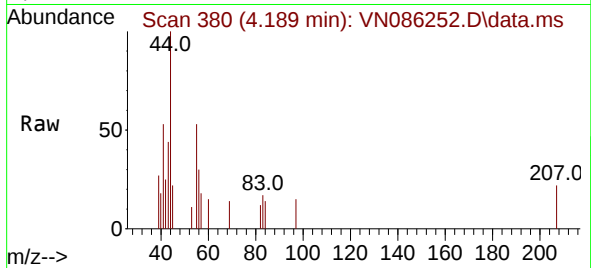




#13  
Acrolein  
Concen: 2.440 ug/l  
RT: 4.189 min Scan# 378  
Delta R.T. 0.012 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

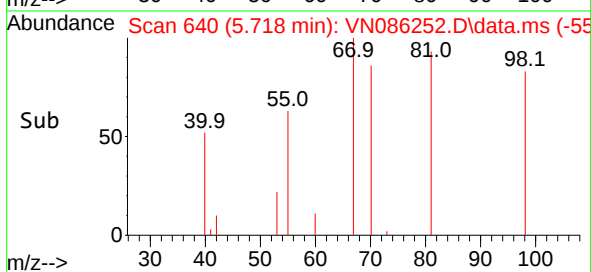
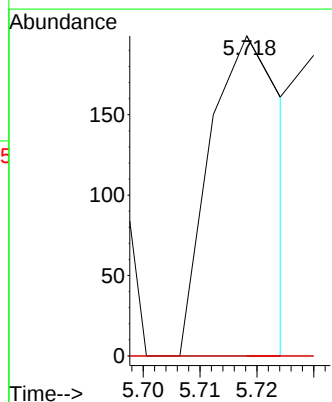
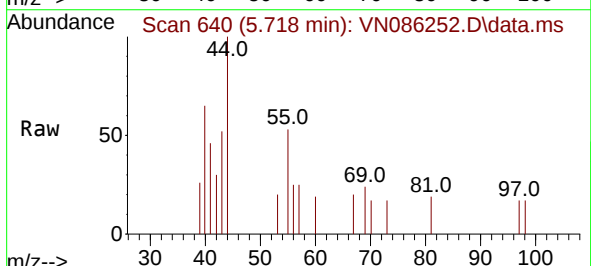
Instrument :  
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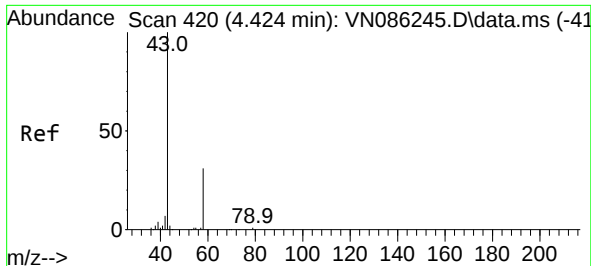
Tgt Ion: 56 Resp: 497  
Ion Ratio Lower Upper  
56 100  
55 76.7 56.5 84.7



#14  
Acrylonitrile  
Concen: 0.238 ug/l  
RT: 5.718 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion: 53 Resp: 180  
Ion Ratio Lower Upper  
53 100  
52 0.0 40.2 120.6#  
51 0.0 17.5 52.6#





#15

Acetone

Concen: 29.925 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

Instrument :

MSVOA\_N

ClientSampleId :

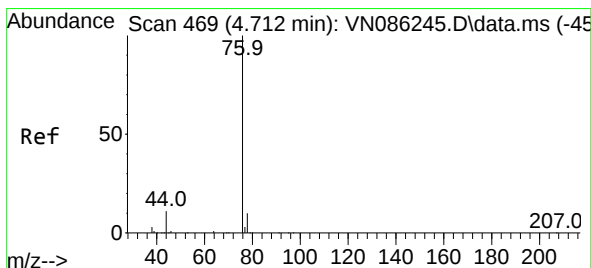
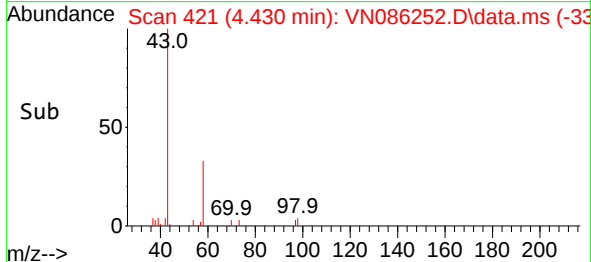
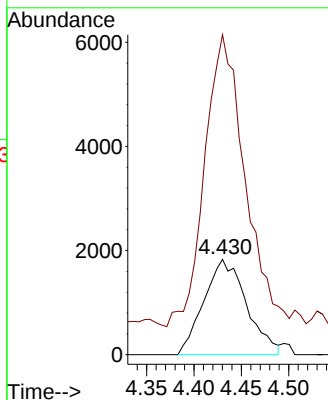
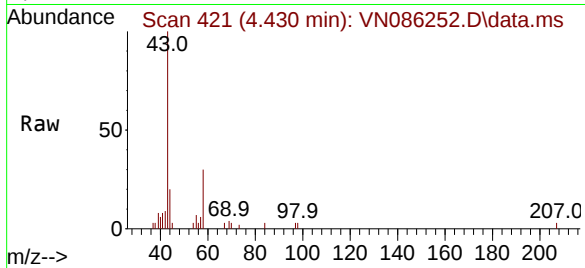
TT-073-IDWGW-20250409

Tgt Ion: 58 Resp: 5740

Ion Ratio Lower Upper

58 100

43 289.9 261.8 392.8



#16

Carbon Disulfide

Concen: 0.451 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN086252.D

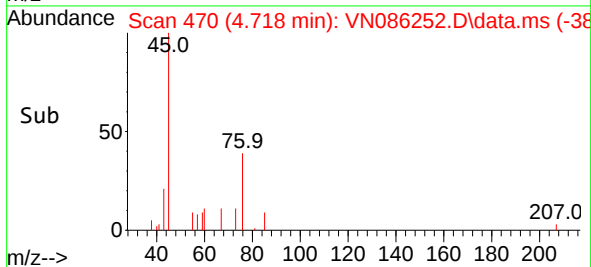
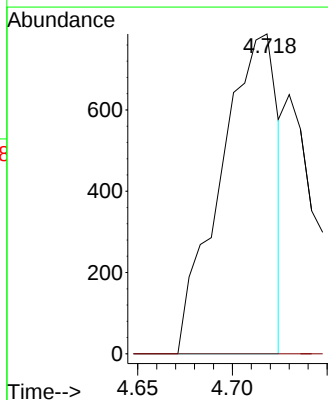
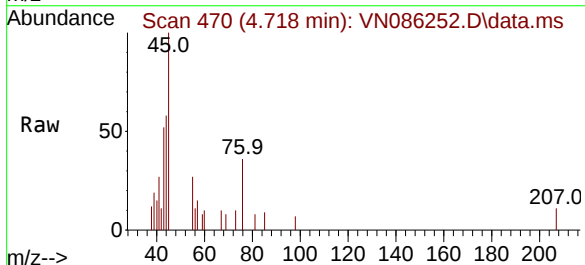
Acq: 11 Apr 2025 16:15

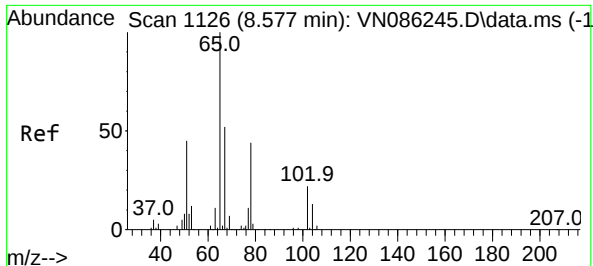
Tgt Ion: 76 Resp: 1642

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#27

1,2-Dichloroethane-d4

Concen: 30.345 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

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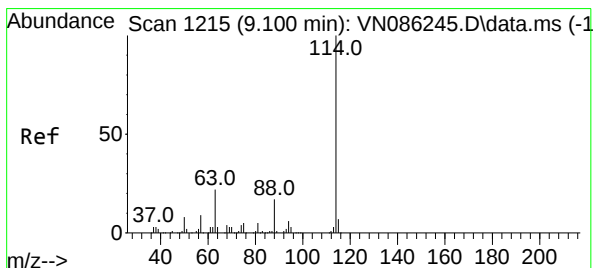
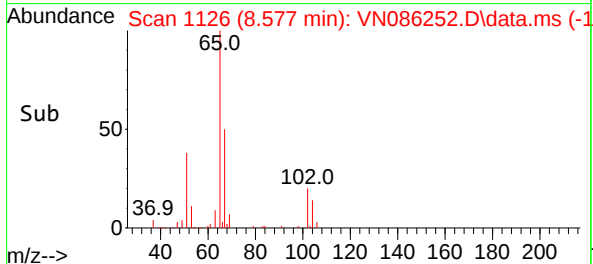
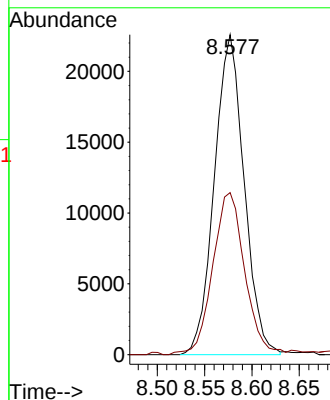
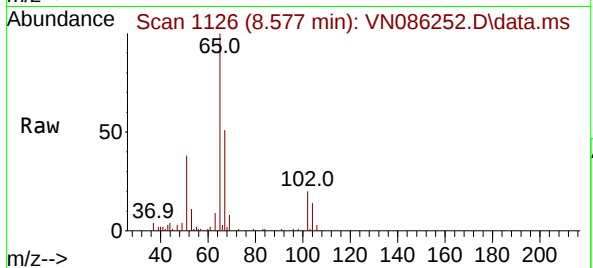
TT-073-IDWGW-20250409

Tgt Ion: 65 Resp: 49324

Ion Ratio Lower Upper

65 100

67 53.9 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

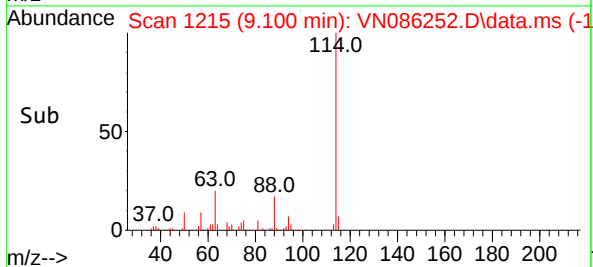
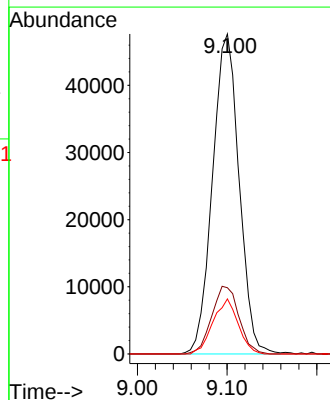
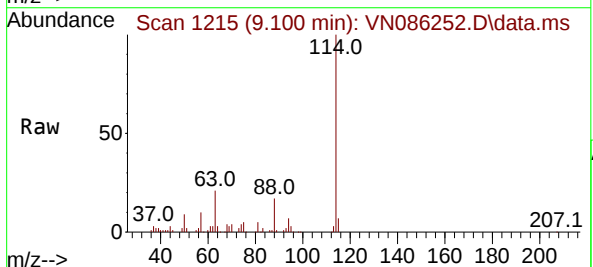
Tgt Ion: 114 Resp: 98006

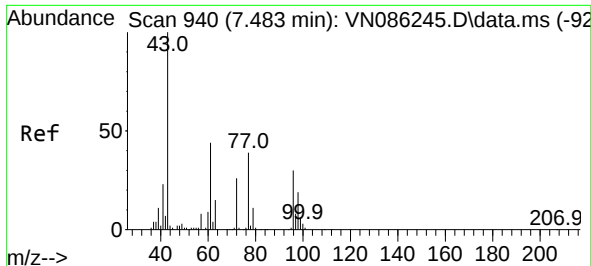
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.3 13.4 20.2

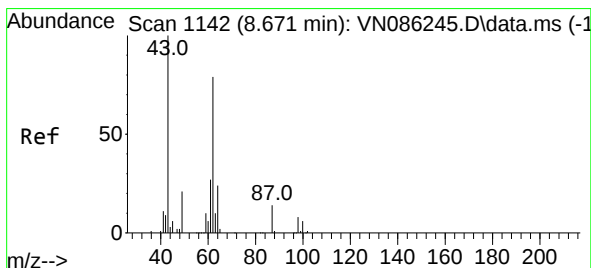
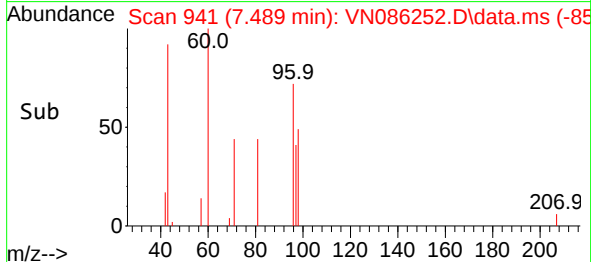
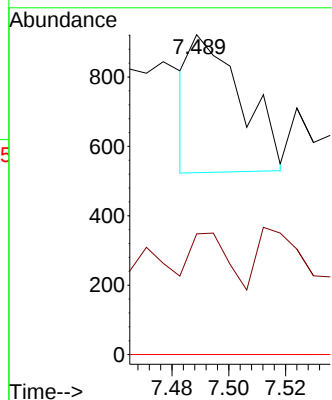
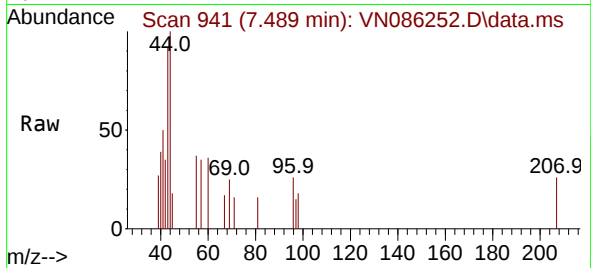




#30  
2-Butanone  
Concen: 0.511 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

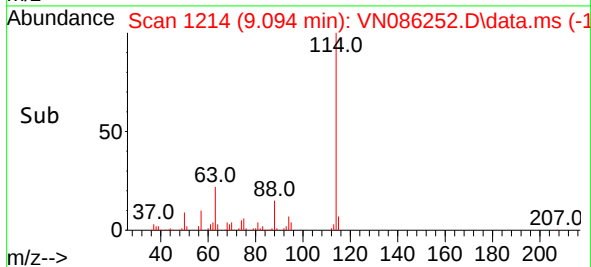
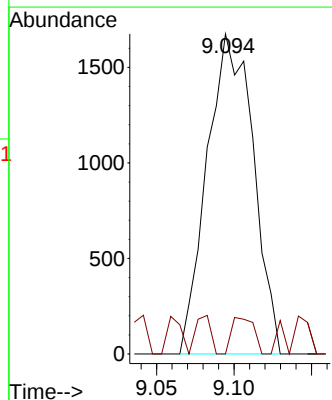
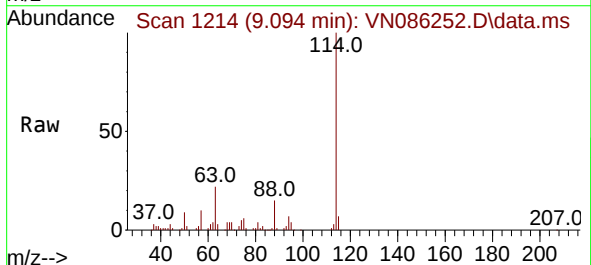
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-073-IDWGW-20250409

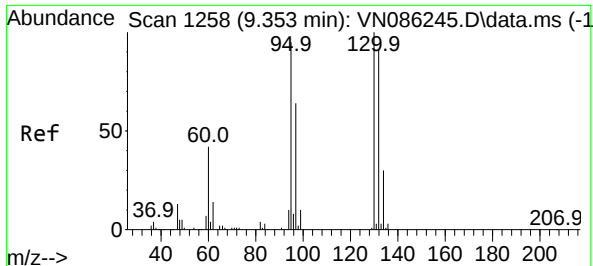
Tgt Ion: 43 Resp: 497  
Ion Ratio Lower Upper  
43 100  
57 28.4 6.4 9.6#  
72 0.0 21.5 32.3#



#36  
1,2-Dichloroethane  
Concen: 1.986 ug/l  
RT: 9.094 min Scan# 1214  
Delta R.T. 0.424 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion: 62 Resp: 3471  
Ion Ratio Lower Upper  
62 100  
98 5.5 8.6 12.8#





#37

Trichloroethene

Concen: 8.744 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

Instrument :

MSVOA\_N

ClientSampleId :

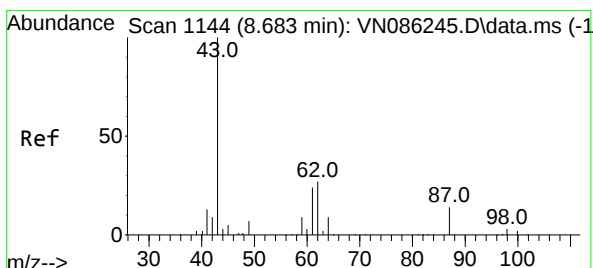
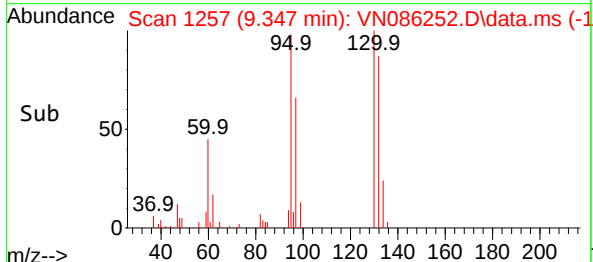
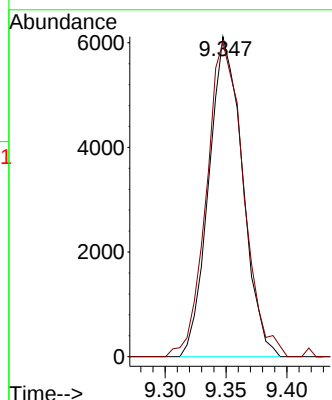
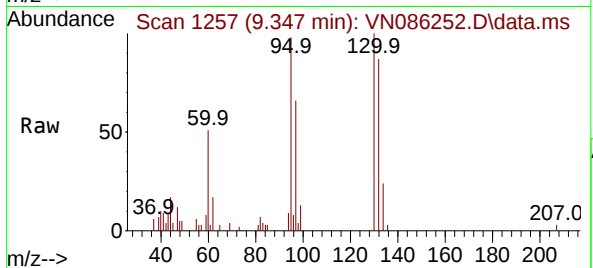
TT-073-IDWGW-20250409

Tgt Ion:130 Resp: 11784

Ion Ratio Lower Upper

130 100

95 95.4 76.4 114.6



#44

Isopropyl Acetate

Concen: 0.645 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.017 min

Lab File: VN086252.D

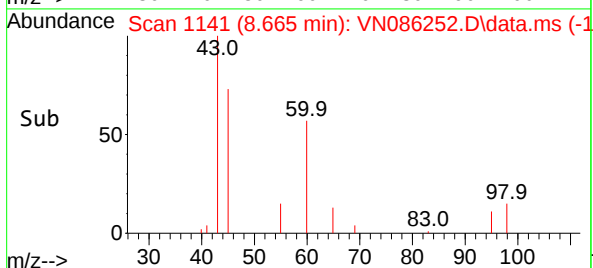
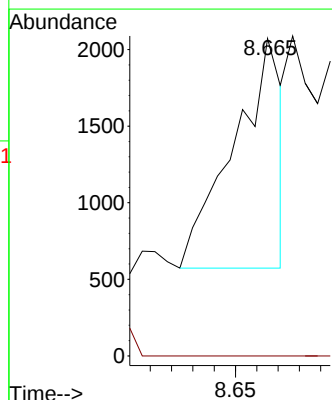
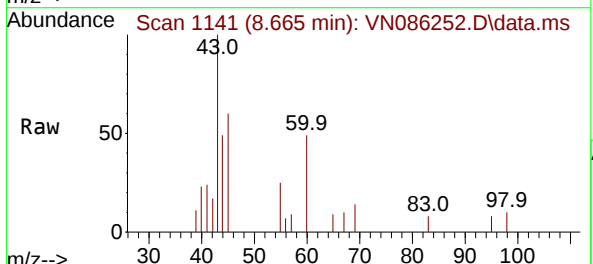
Acq: 11 Apr 2025 16:15

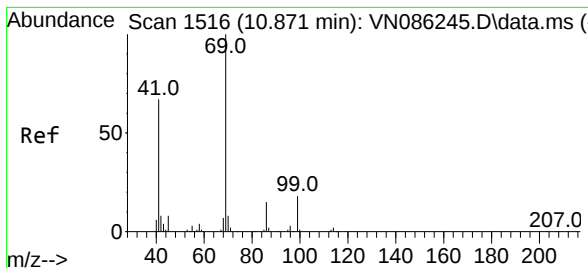
Tgt Ion: 43 Resp: 2347

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#





#51

Ethyl methacrylate

Concen: 0.309 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.312 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

Instrument :

MSVOA\_N

ClientSampleId :

TT-073-IDWGW-20250409

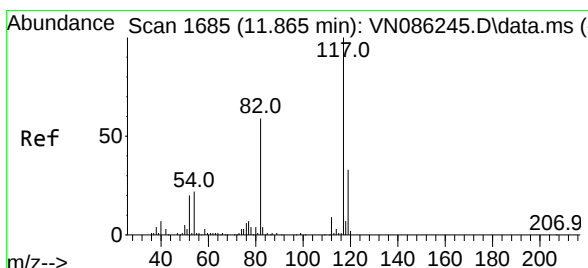
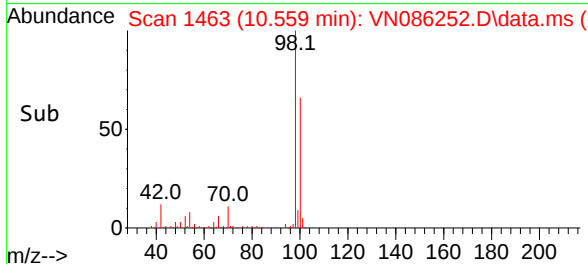
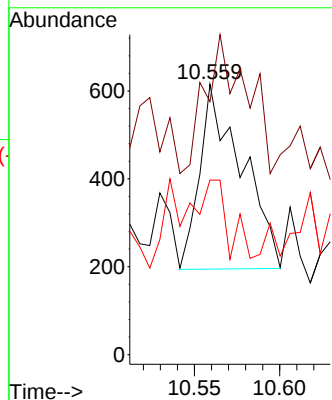
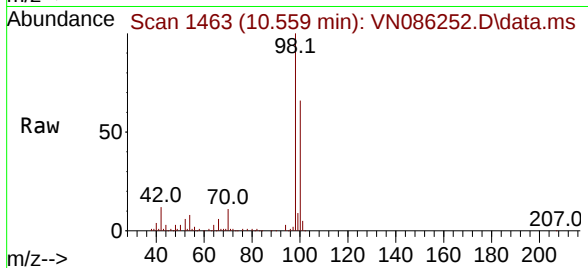
Tgt Ion: 69 Resp: 723

Ion Ratio Lower Upper

69 100

41 39.1 33.6 100.6

39 41.3 17.8 53.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

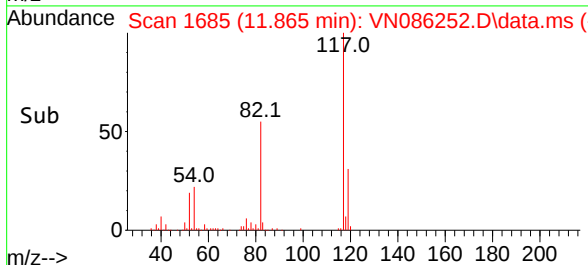
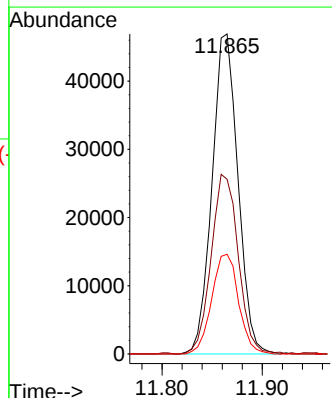
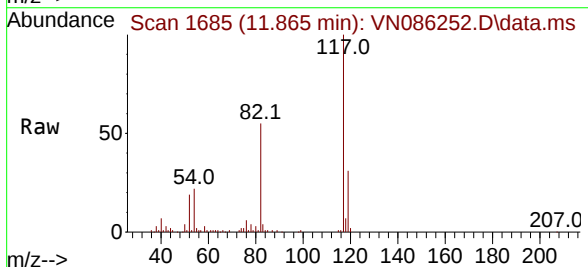
Tgt Ion: 117 Resp: 84075

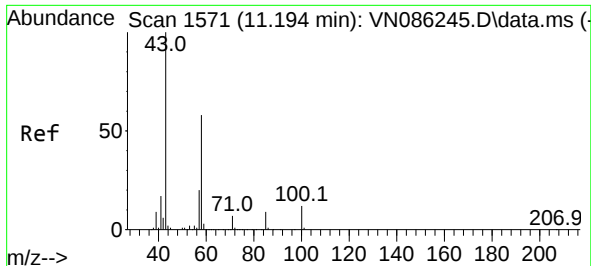
Ion Ratio Lower Upper

117 100

82 58.8 47.3 70.9

119 32.3 25.9 38.9

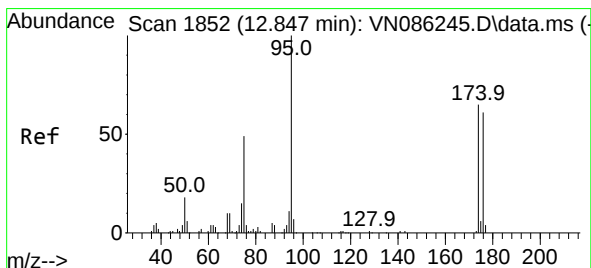
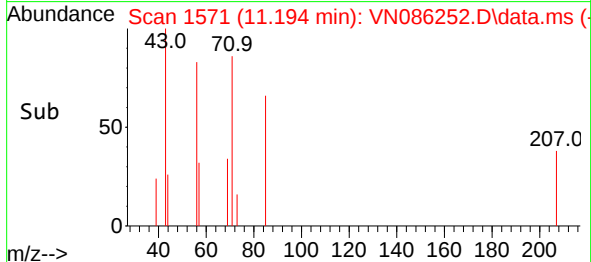
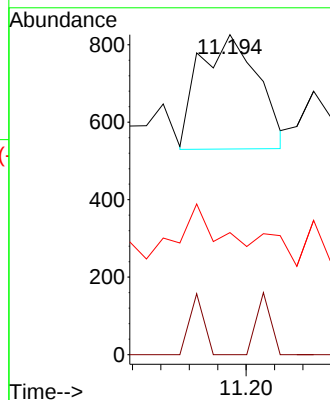
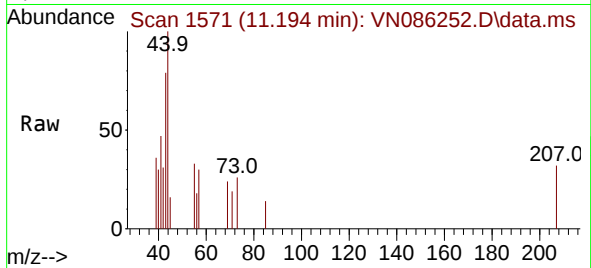




#59  
2-Hexanone  
Concen: 0.297 ug/l  
RT: 11.194 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

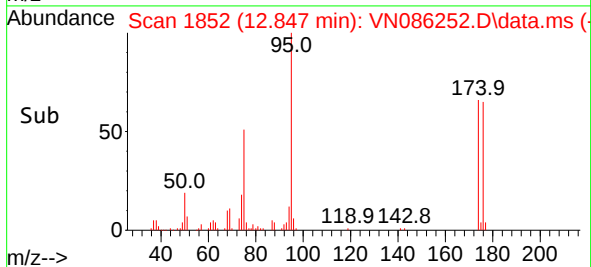
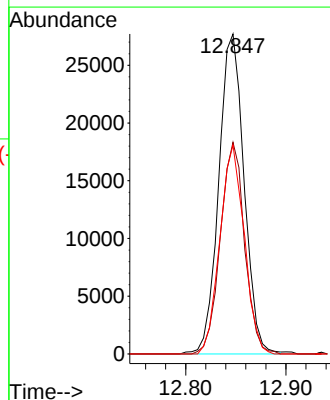
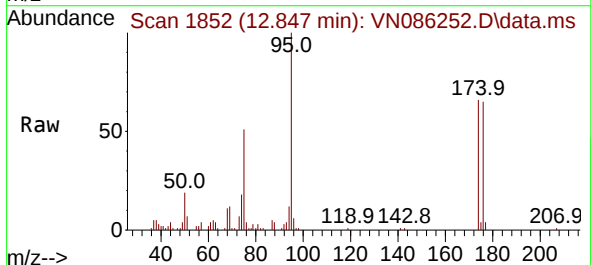
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-073-IDWGW-20250409

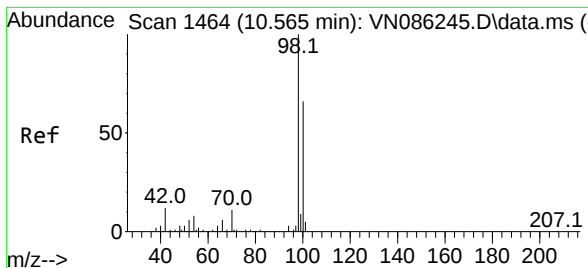
Tgt Ion: 43 Resp: 422  
Ion Ratio Lower Upper  
43 100  
58 0.0 45.3 67.9#  
57 42.2 15.8 23.6#



#60  
4-Bromofluorobenzene  
Concen: 28.956 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion: 95 Resp: 48470  
Ion Ratio Lower Upper  
95 100  
174 63.3 52.7 79.1  
176 62.7 49.8 74.8





#63

Toluene-d8

Concen: 30.074 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

Instrument :

MSVOA\_N

ClientSampleId :

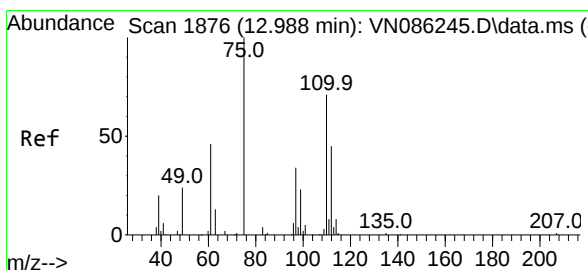
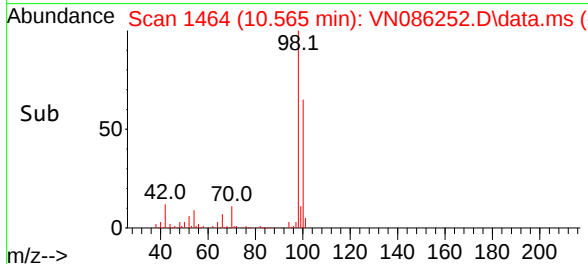
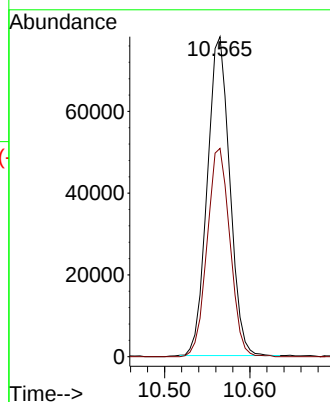
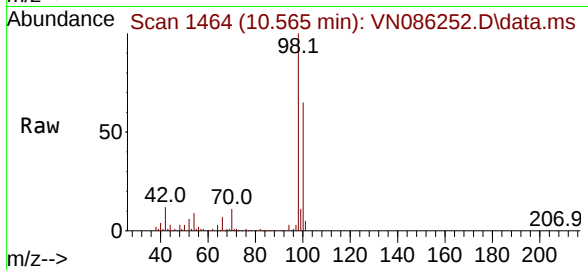
TT-073-IDWGW-20250409

Tgt Ion: 98 Resp: 142745

Ion Ratio Lower Upper

98 100

100 66.4 52.3 78.5



#72

1,2,3-Trichloropropane

Concen: 14.091 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086252.D

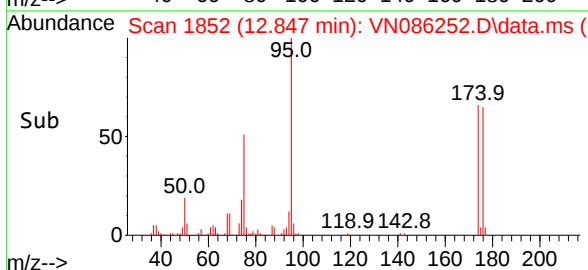
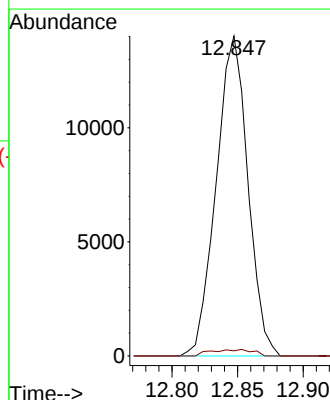
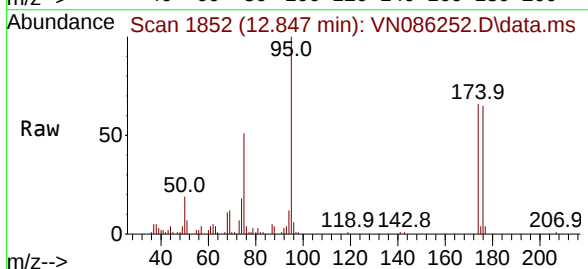
Acq: 11 Apr 2025 16:15

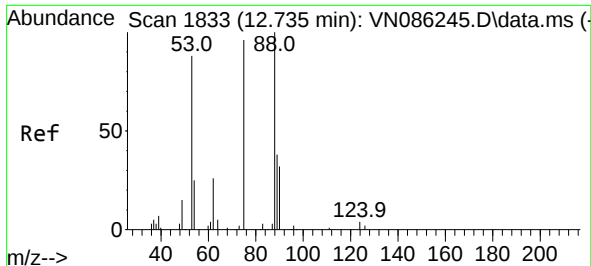
Tgt Ion: 75 Resp: 23546

Ion Ratio Lower Upper

75 100

77 1.8 0.0 380.0

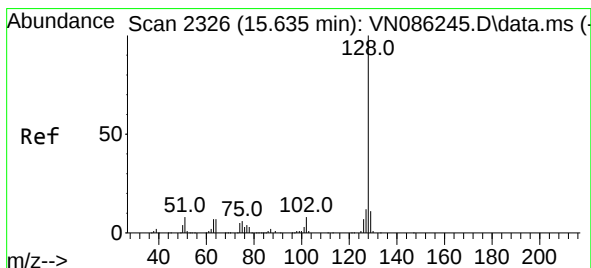
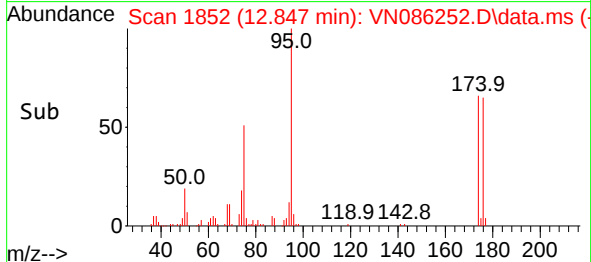
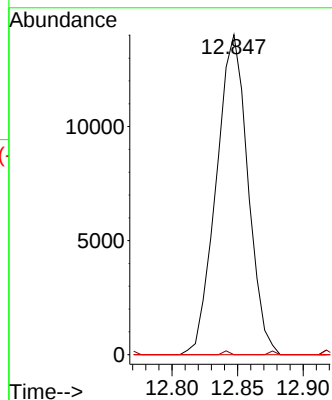
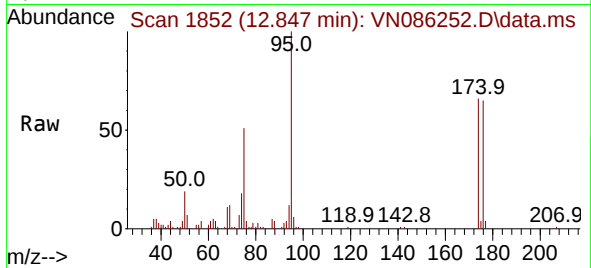




#77  
t-1,4-Dichloro-2-butene  
Concen: 30.561 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-073-IDWGW-20250409

Tgt Ion: 75 Resp: 23546  
Ion Ratio Lower Upper  
75 100  
53 0.0 46.4 139.2#  
89 0.0 22.5 67.5#



#91  
Naphthalene  
Concen: 0.318 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. 0.000 min  
Lab File: VN086252.D  
Acq: 11 Apr 2025 16:15

Tgt Ion:128 Resp: 1398  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 14.4 8.8 13.2#

