

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061025\  
 Data File : VN086921.D  
 Acq On : 10 Jun 2025 12:30  
 Operator : JC\MD  
 Sample : Q2250-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11A-13.5-060525

Quant Time: Jun 11 01:52:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 07 02:12:50 2025  
 Response via : Initial Calibration

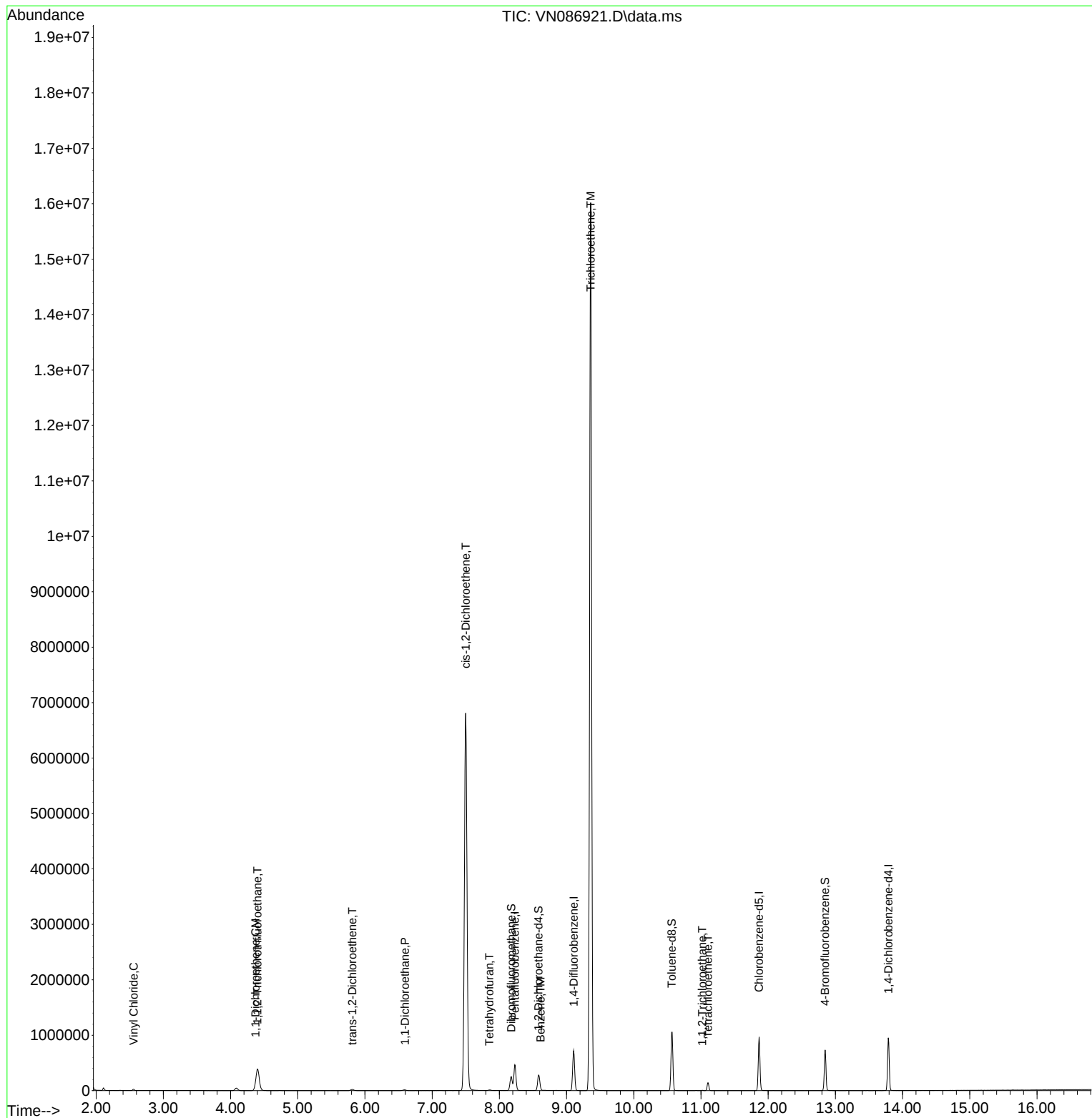
| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.230  | 168   | 361832   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106  | 114   | 672514   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865 | 117   | 593044   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788 | 152   | 281220   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582  | 65    | 231529   | 47.792   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | =      | 95.580%  |
| 35) Dibromofluoromethane     | 8.177  | 113   | 196952   | 49.417   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 98.840%  |
| 50) Toluene-d8               | 10.565 | 98    | 809307   | 51.295   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 102.600% |
| 62) 4-Bromofluorobenzene     | 12.847 | 95    | 293403   | 50.054   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 77 - 121 | Recovery | =      | 100.100% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 4) Vinyl Chloride            | 2.559  | 62    | 24226    | 5.041    | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.400  | 101   | 302235   | 76.617   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.371  | 96    | 16986    | 4.218    | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.812  | 96    | 16472    | 3.676    | ug/l   | 88       |
| 24) 1,1-Dichloroethane       | 6.594  | 63    | 22723    | 2.805    | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.500  | 96    | 4534458  | 846.190  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.853  | 42    | 9084     | 3.339    | ug/l   | 95       |
| 40) Benzene                  | 8.612  | 78    | 8119     | 0.418    | ug/l   | 95       |
| 44) Trichloroethene          | 9.359  | 130   | 6309047  | 1370.098 | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane    | 11.018 | 97    | 2269     | 0.497    | ug/l   | 95       |
| 64) Tetrachloroethene        | 11.106 | 164   | 35442    | 9.443    | ug/l   | 96       |
| -----                        |        |       |          |          |        |          |

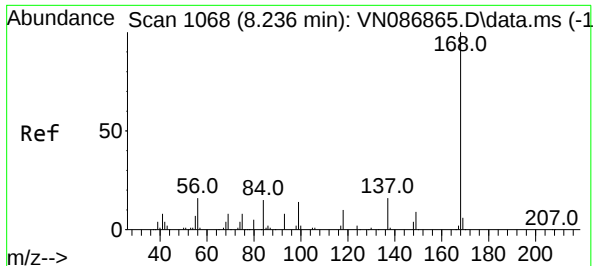
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061025\  
Data File : VN086921.D  
Acq On : 10 Jun 2025 12:30  
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Sample : Q2250-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525

Quant Time: Jun 11 01:52:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 07 02:12:50 2025  
Response via : Initial Calibration

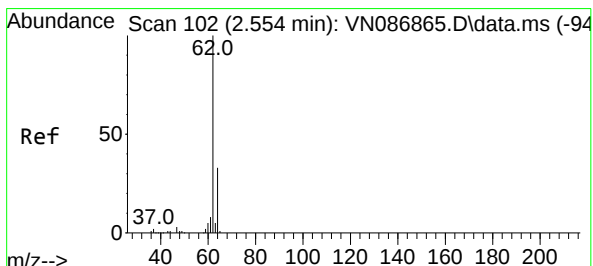
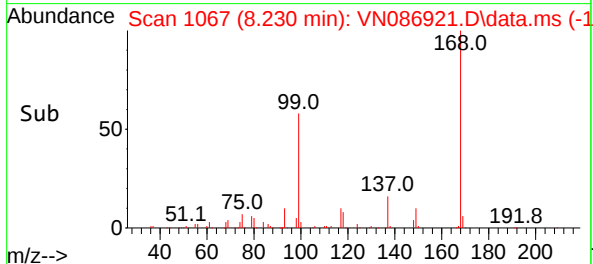
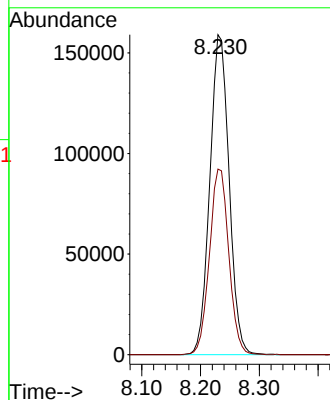
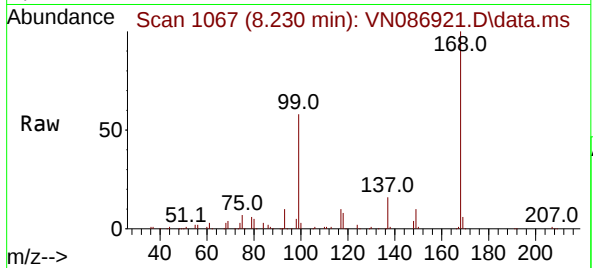




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

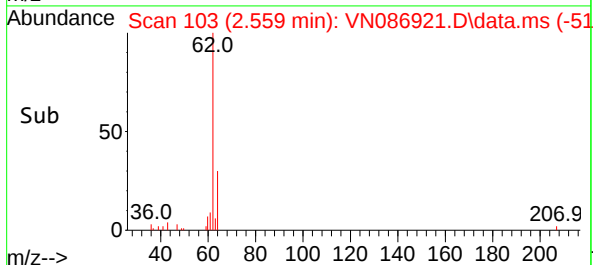
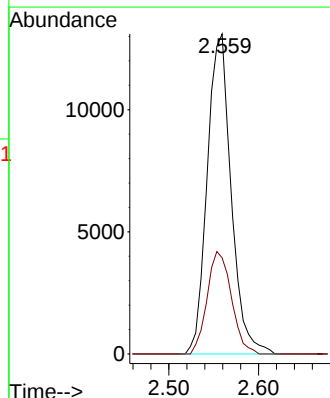
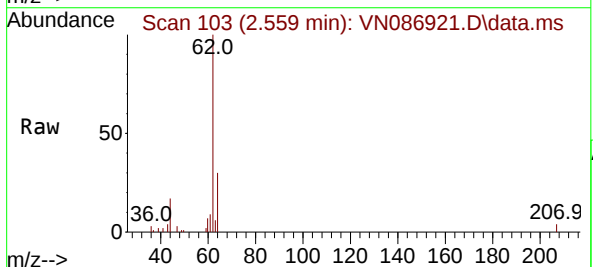
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525

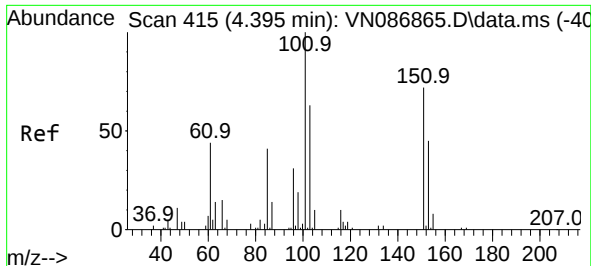
Tgt Ion:168 Resp: 361832  
Ion Ratio Lower Upper  
168 100  
99 58.0 49.1 73.7



#4  
Vinyl Chloride  
Concen: 5.041 ug/l  
RT: 2.559 min Scan# 103  
Delta R.T. 0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

Tgt Ion: 62 Resp: 24226  
Ion Ratio Lower Upper  
62 100  
64 30.0 26.0 39.0

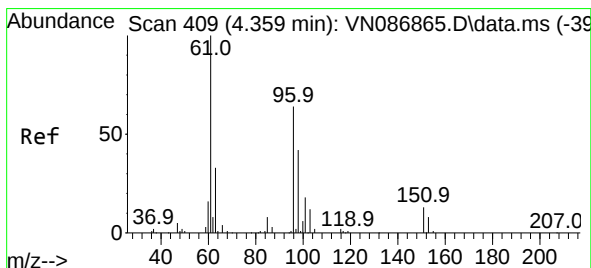
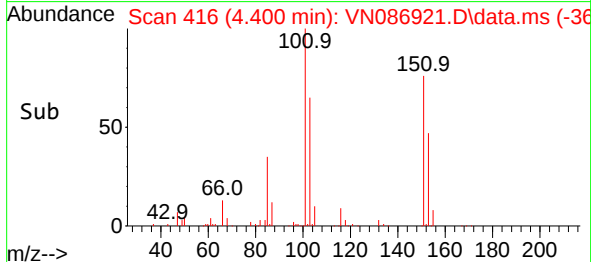
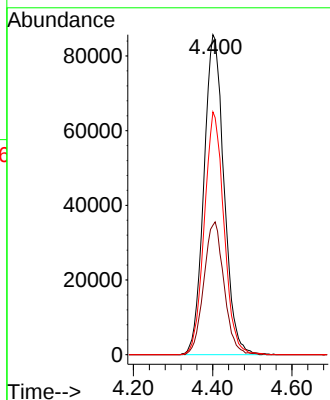
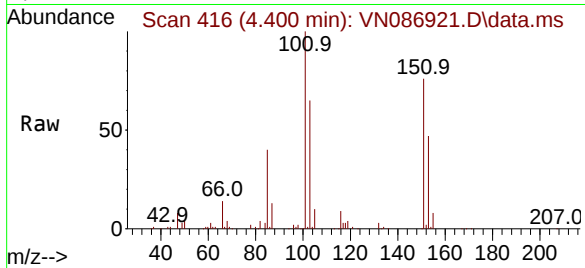




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 76.617 ug/l  
RT: 4.400 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

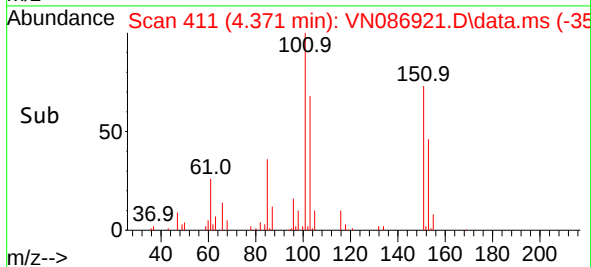
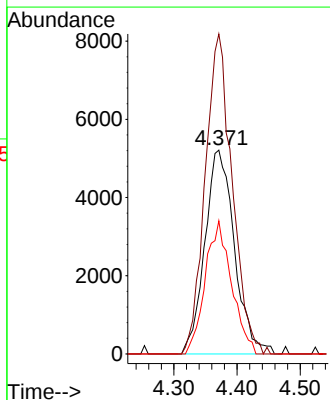
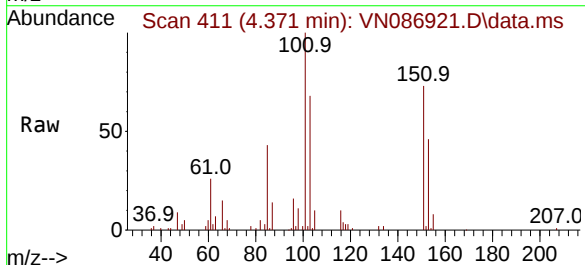
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525

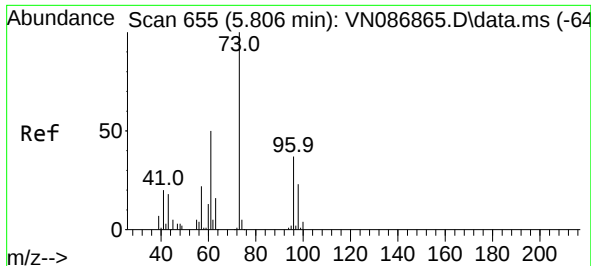
Tgt Ion:101 Resp: 302235  
Ion Ratio Lower Upper  
101 100  
85 41.6 33.8 50.8  
151 74.1 58.7 88.1



#12  
1,1-Dichloroethene  
Concen: 4.218 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. 0.012 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

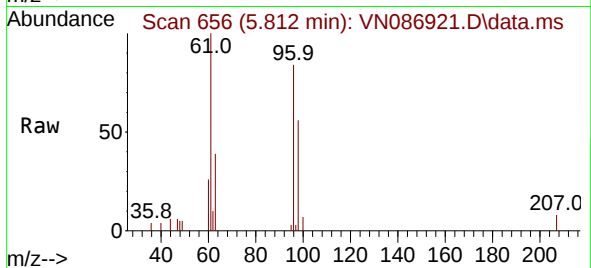
Tgt Ion: 96 Resp: 16986  
Ion Ratio Lower Upper  
96 100  
61 157.0 125.8 188.6  
98 65.3 52.5 78.7



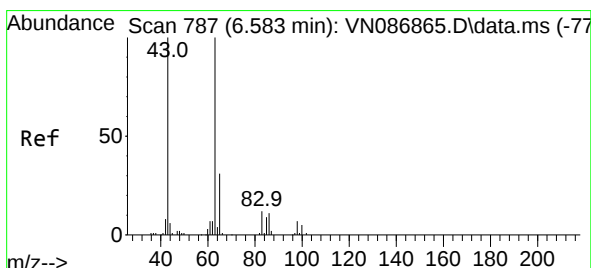
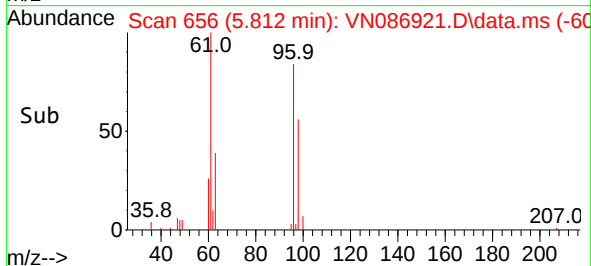
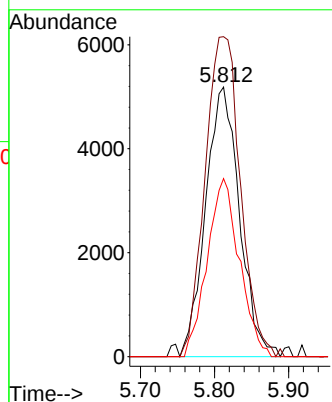


#21  
trans-1,2-Dichloroethene  
Concen: 3.676 ug/l  
RT: 5.812 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525

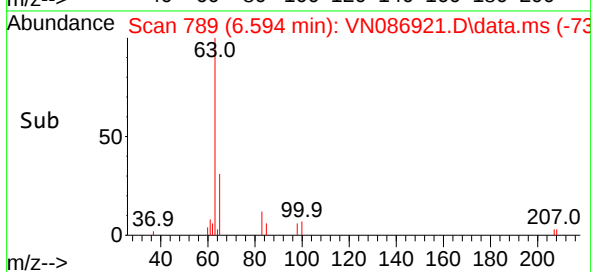
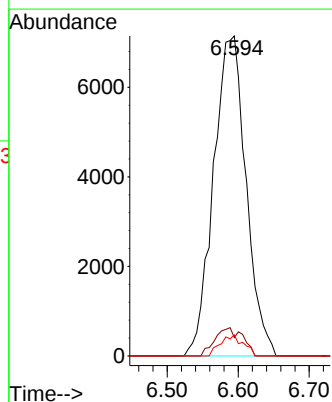
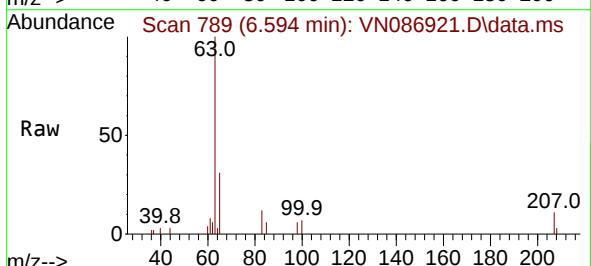


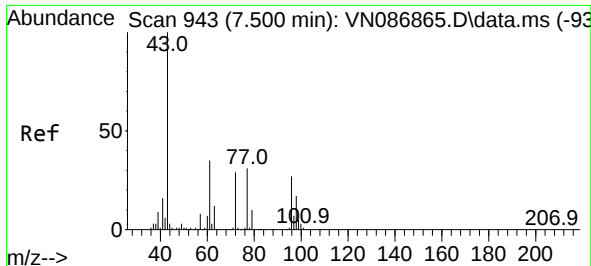
Tgt Ion: 96 Resp: 16472  
Ion Ratio Lower Upper  
96 100  
61 118.7 109.2 163.8  
98 66.1 49.8 74.8



#24  
1,1-Dichloroethane  
Concen: 2.805 ug/l  
RT: 6.594 min Scan# 789  
Delta R.T. 0.012 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

Tgt Ion: 63 Resp: 22723  
Ion Ratio Lower Upper  
63 100  
98 5.8 3.6 10.8  
100 6.6 2.6 7.8





#27

cis-1,2-Dichloroethene

Concen: 846.190 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

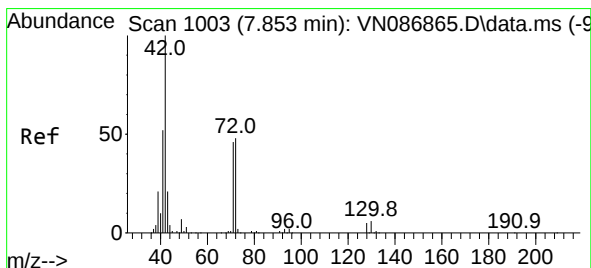
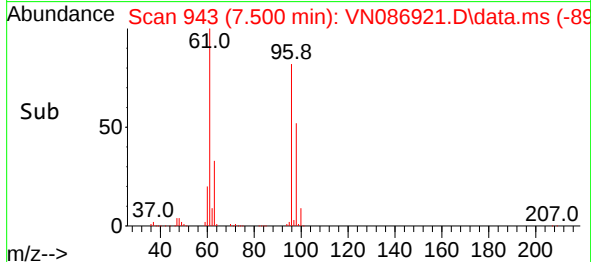
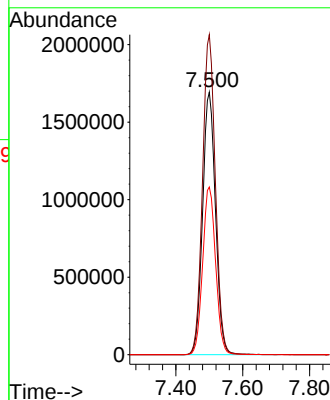
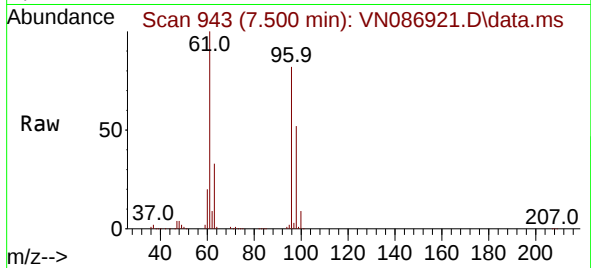
MSVOA\_N

ClientSampleId :

MW-11A-13.5-060525

Tgt Ion: 96 Resp: 4534458

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 121.3 | 0.0   | 278.0 |
| 98  | 64.3  | 0.0   | 128.2 |



#29

Tetrahydrofuran

Concen: 3.339 ug/l

RT: 7.853 min Scan# 1003

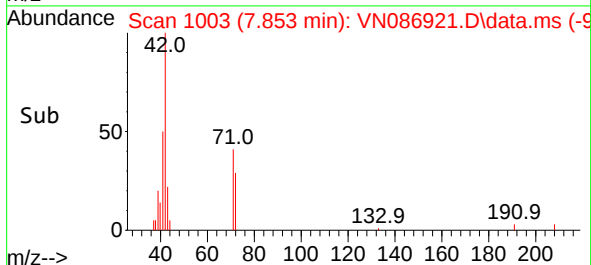
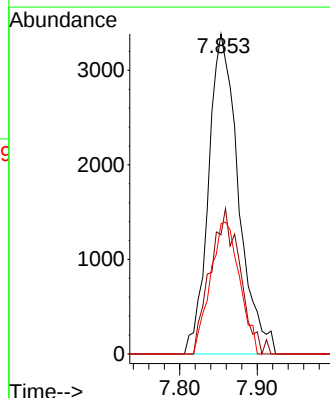
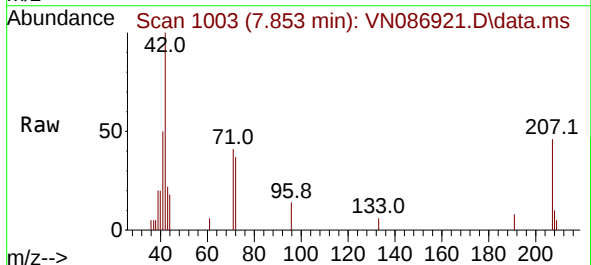
Delta R.T. -0.000 min

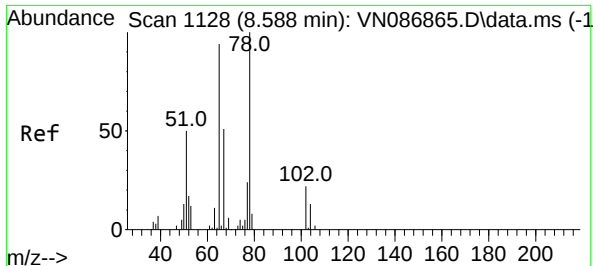
Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Tgt Ion: 42 Resp: 9084

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 45.2  | 37.8  | 56.6  |
| 71  | 40.1  | 35.6  | 53.4  |





#33

1,2-Dichloroethane-d4

Concen: 47.792 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA\_N

ClientSampleId :

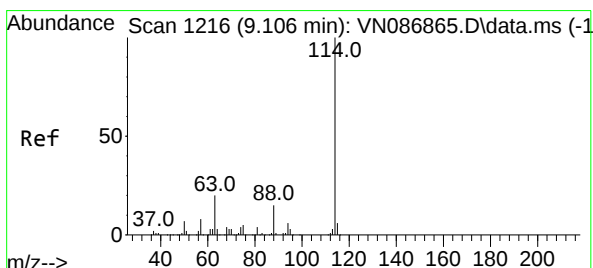
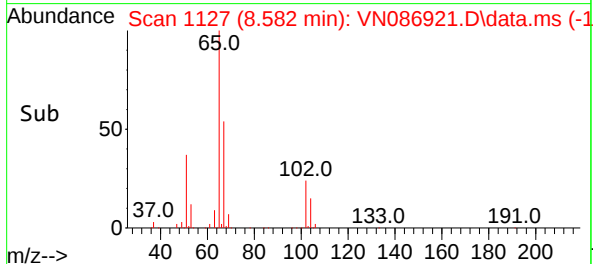
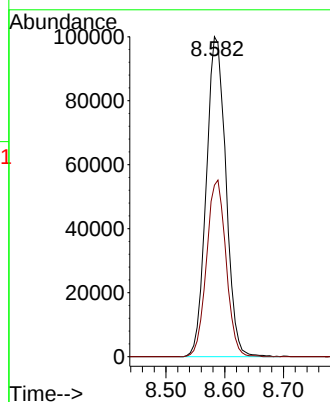
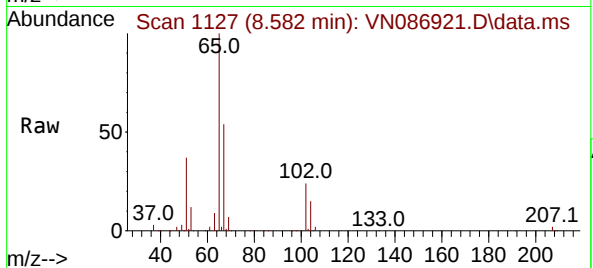
MW-11A-13.5-060525

Tgt Ion: 65 Resp: 231529

Ion Ratio Lower Upper

65 100

67 54.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

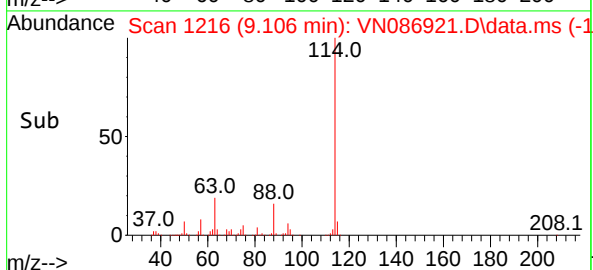
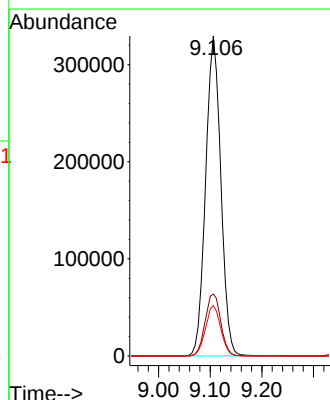
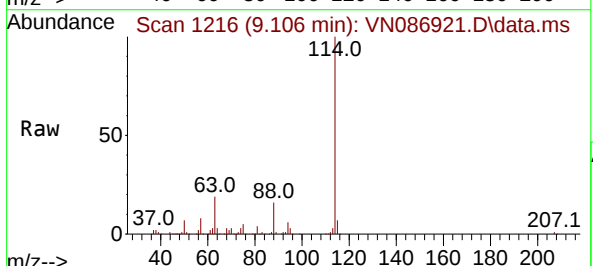
Tgt Ion: 114 Resp: 672514

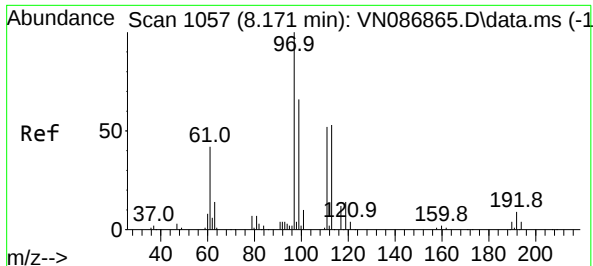
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.7 0.0 30.2

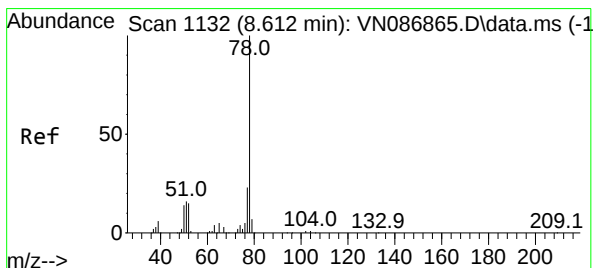
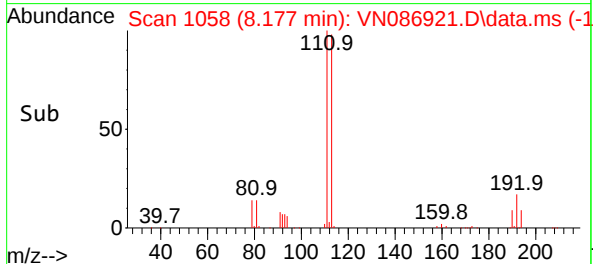
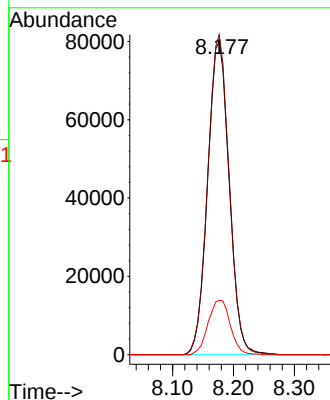
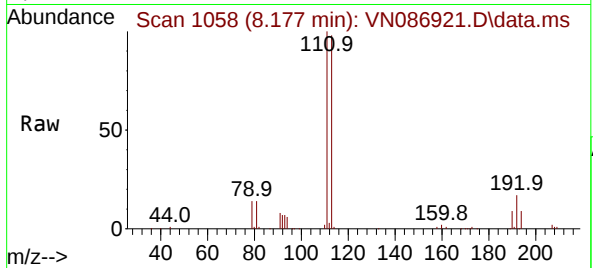




#35  
Dibromofluoromethane  
Concen: 49.417 ug/l  
RT: 8.177 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

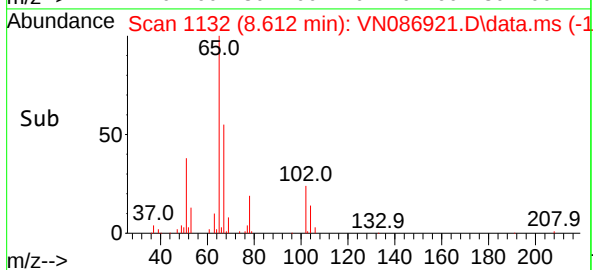
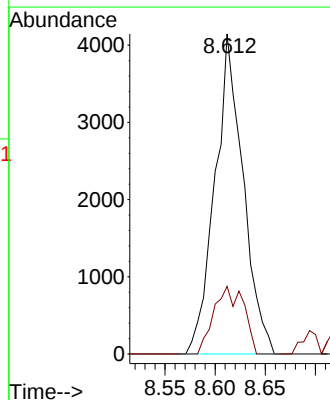
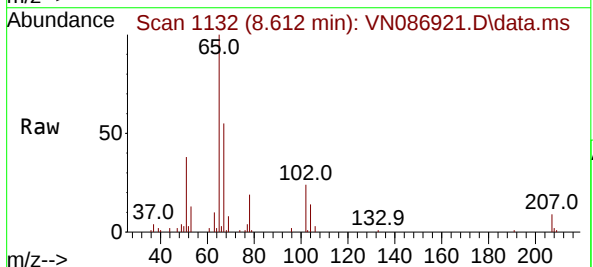
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525

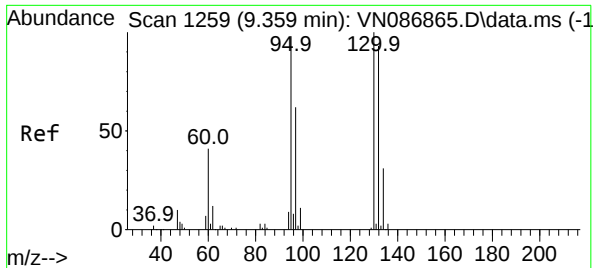
Tgt Ion:113 Resp: 196952  
Ion Ratio Lower Upper  
113 100  
111 101.7 84.2 126.2  
192 17.8 14.2 21.4



#40  
Benzene  
Concen: 0.418 ug/l  
RT: 8.612 min Scan# 1132  
Delta R.T. -0.000 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

Tgt Ion: 78 Resp: 8119  
Ion Ratio Lower Upper  
78 100  
77 21.1 18.7 28.1

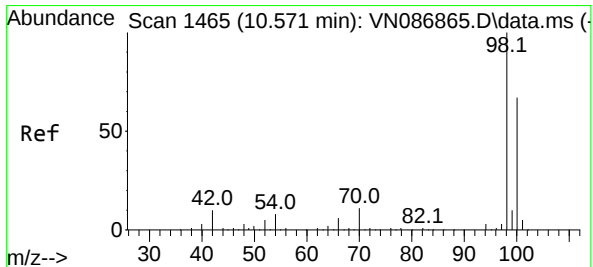
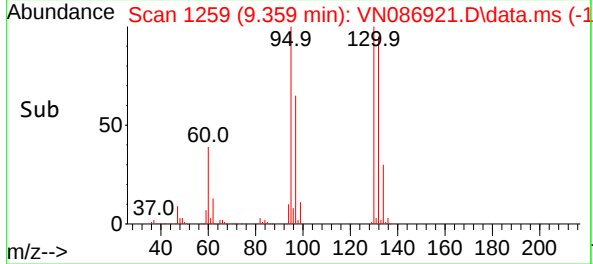
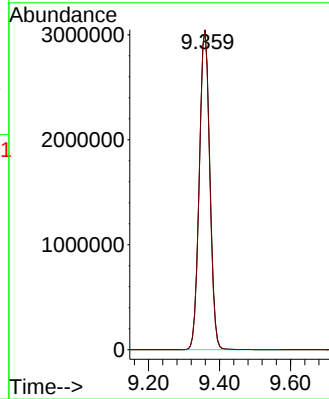
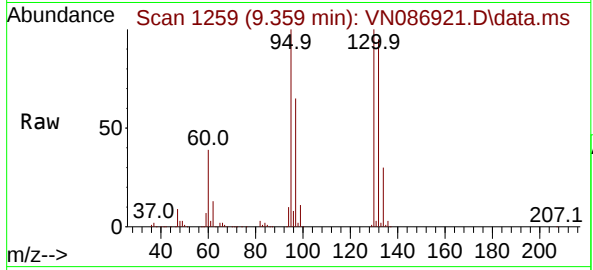




#44  
Trichloroethene  
Concen: 1370.098 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. -0.000 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

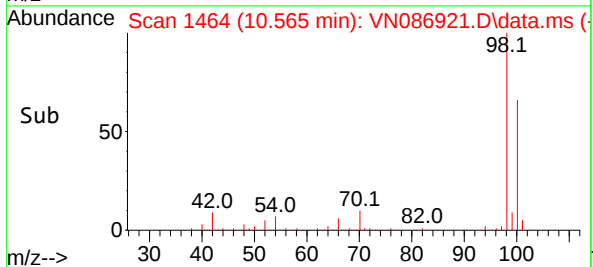
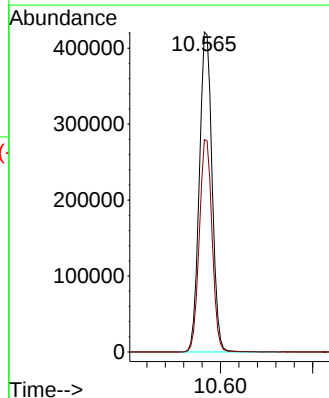
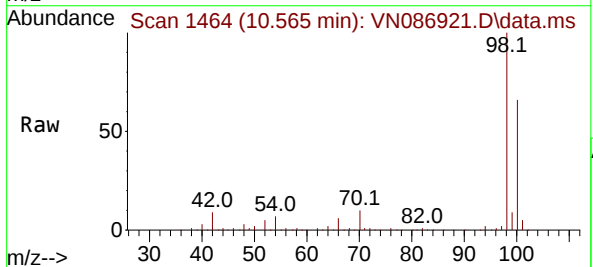
Instrument :  
MSVOA\_N  
ClientSampleId :  
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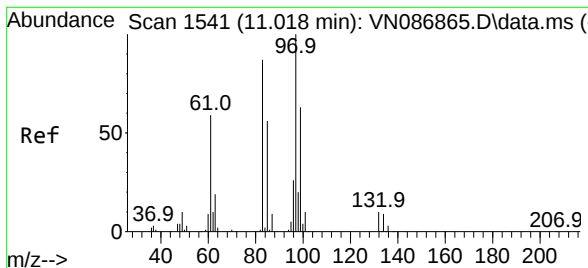
Tgt Ion:130 Resp: 6309047  
Ion Ratio Lower Upper  
130 100  
95 100.4 0.0 196.2



#50  
Toluene-d8  
Concen: 51.295 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

Tgt Ion: 98 Resp: 809307  
Ion Ratio Lower Upper  
98 100  
100 66.5 53.4 80.0



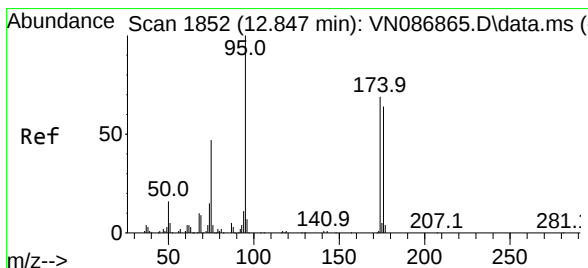
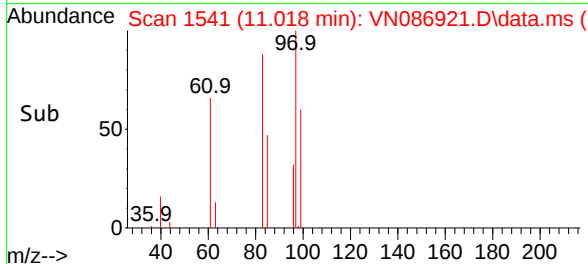
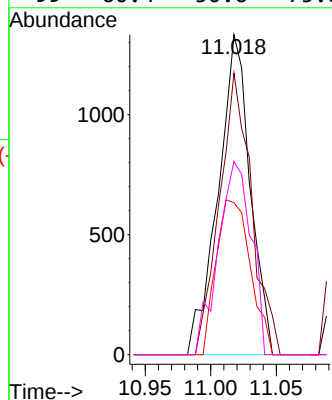
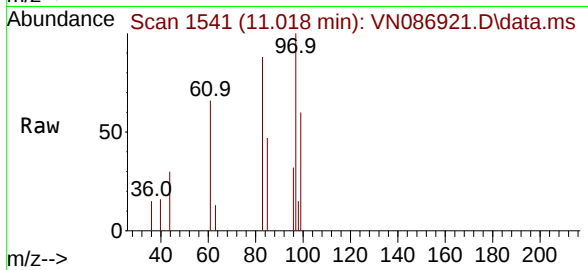


#55  
 1,1,2-Trichloroethane  
 Concen: 0.497 ug/l  
 RT: 11.018 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VN086921.D  
 Acq: 10 Jun 2025 12:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11A-13.5-060525

Tgt Ion: 97 Resp: 2269

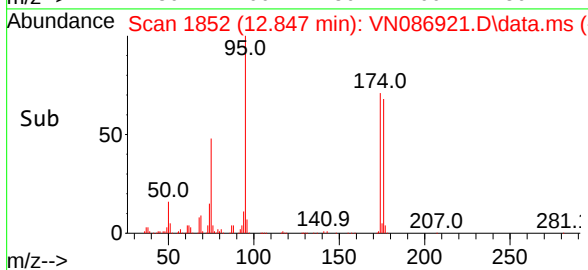
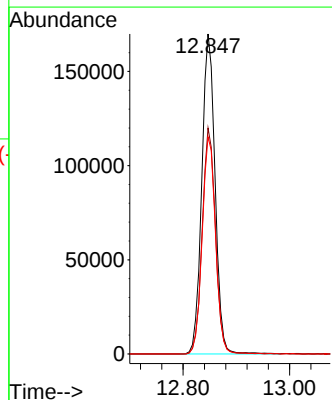
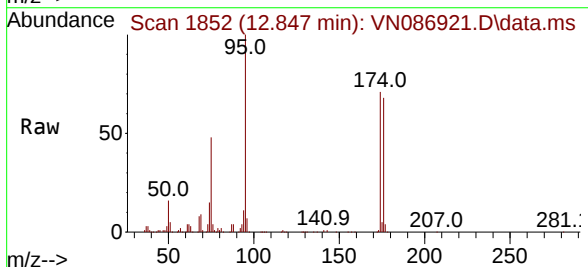
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.0  | 69.7  | 104.5 |
| 85  | 47.5  | 45.1  | 67.7  |
| 99  | 60.4  | 50.6  | 75.8  |

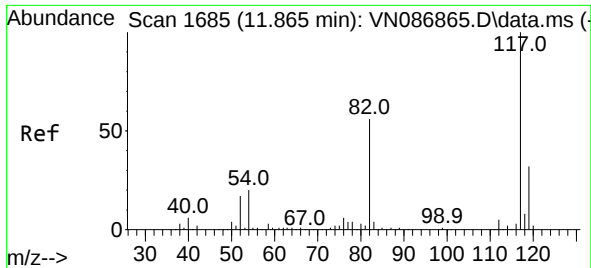


#62  
 4-Bromofluorobenzene  
 Concen: 50.054 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.000 min  
 Lab File: VN086921.D  
 Acq: 10 Jun 2025 12:30

Tgt Ion: 95 Resp: 293403

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 70.2  | 0.0   | 141.8 |
| 176 | 68.2  | 0.0   | 132.6 |

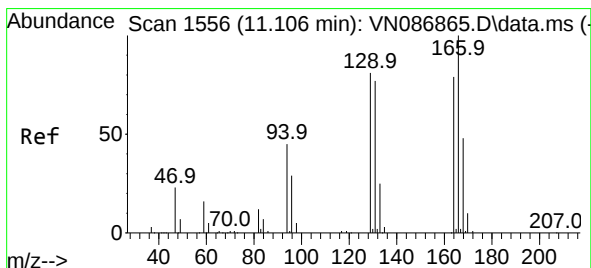
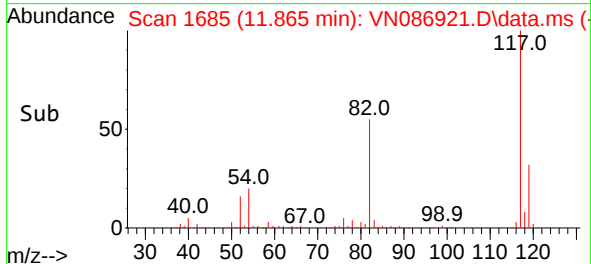
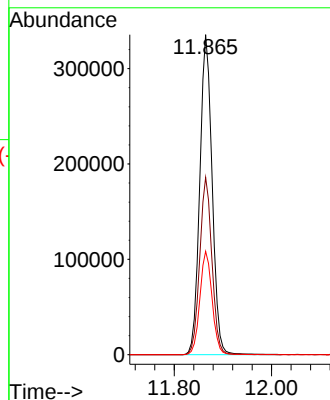
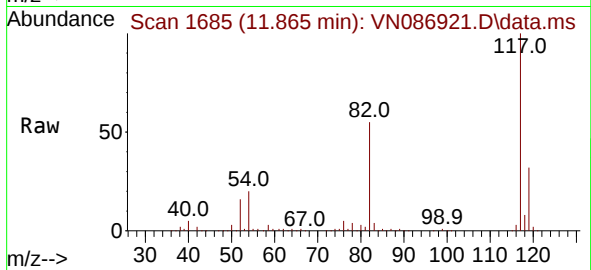




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

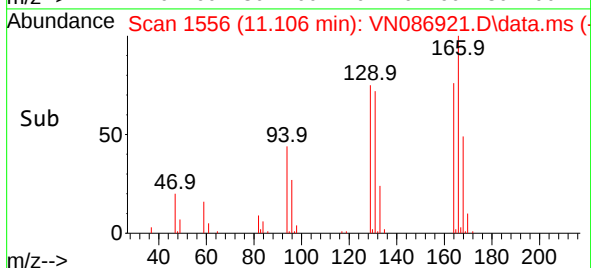
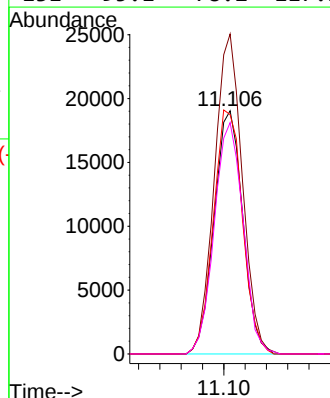
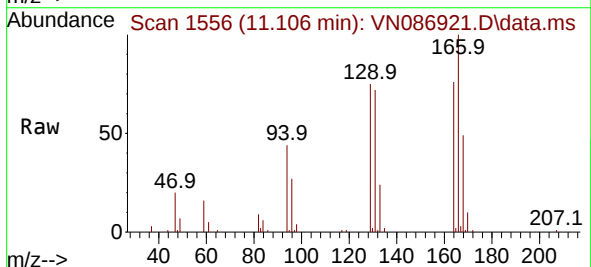
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525

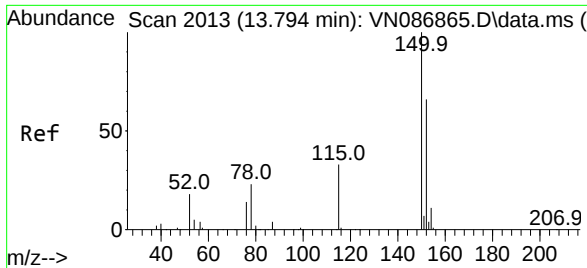
Tgt Ion:117 Resp: 593044  
Ion Ratio Lower Upper  
117 100  
82 55.4 44.6 67.0  
119 32.3 25.5 38.3



#64  
Tetrachloroethene  
Concen: 9.443 ug/l  
RT: 11.106 min Scan# 1556  
Delta R.T. -0.000 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

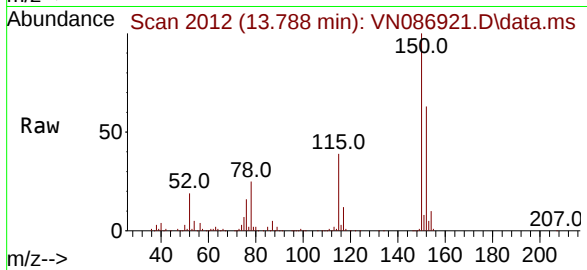
Tgt Ion:164 Resp: 35442  
Ion Ratio Lower Upper  
164 100  
166 131.5 101.8 152.8  
129 98.4 83.0 124.4  
131 95.1 78.2 117.2





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN086921.D  
Acq: 10 Jun 2025 12:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11A-13.5-060525



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.9  | 30.1  | 90.5  |
| 150     | 158.4 | 0.0   | 345.0 |

