

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081425\  
 Data File : VN087566.D  
 Acq On : 14 Aug 2025 15:20  
 Operator : JC\MD  
 Sample : Q2842-01 40X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 14 15:39:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 17 02:56:13 2025  
 Response via : Initial Calibration

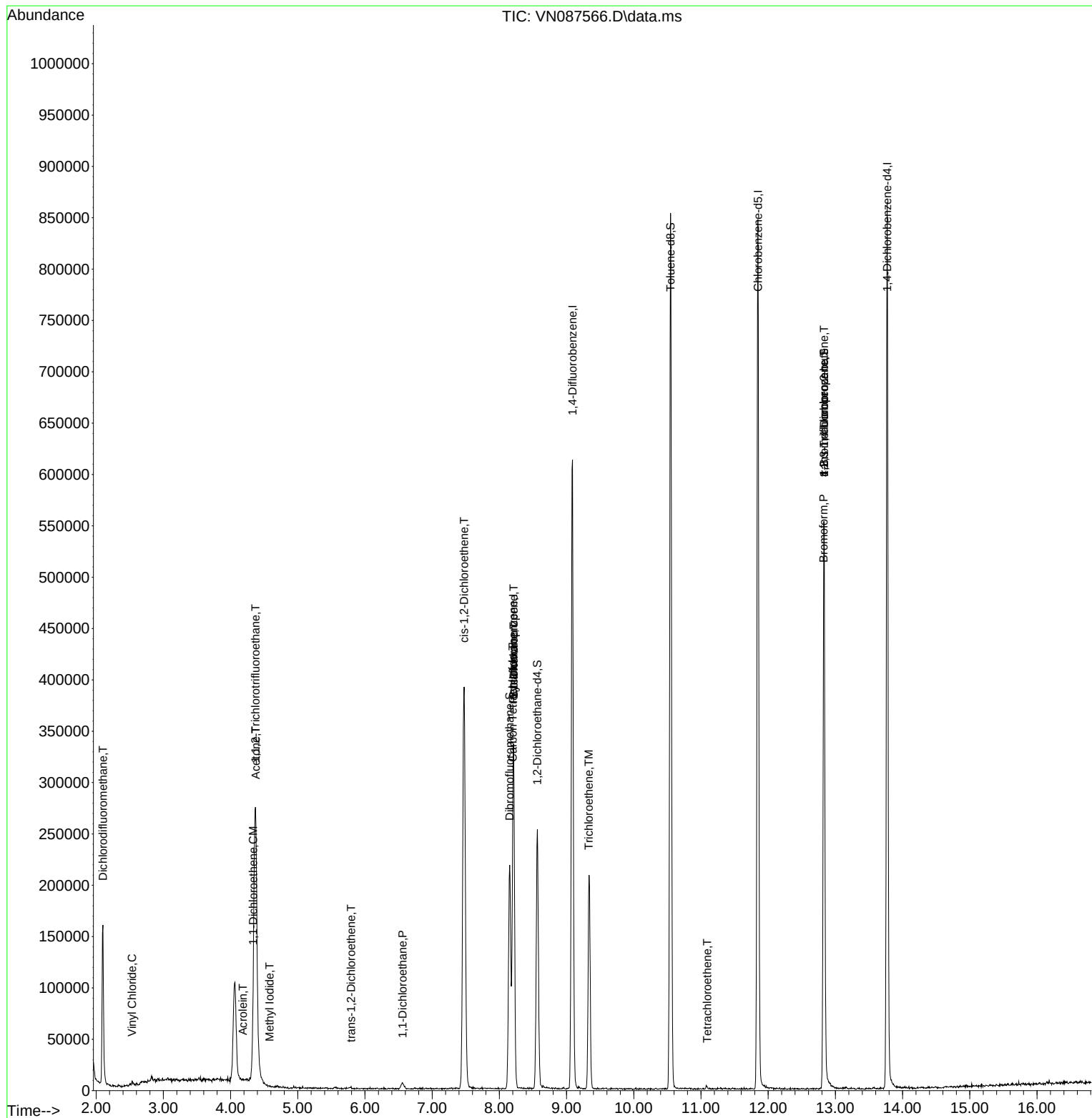
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.206  | 168   | 225616   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.088  | 114   | 494400   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.847 | 117   | 459245   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770 | 152   | 213548   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.565  | 65    | 205410   | 53.657    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 107.320% |
| 35) Dibromofluoromethane      | 8.153  | 113   | 155257   | 45.525    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 91.040%  |
| 50) Toluene-d8                | 10.547 | 98    | 555821   | 45.689    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 91.380%  |
| 62) 4-Bromofluorobenzene      | 12.829 | 95    | 197243   | 43.886    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | =      | 87.780%  |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.100  | 85    | 23345    | 9.742     | ug/l   | 91       |
| 4) Vinyl Chloride             | 2.536  | 62    | 780      | 0.260     | ug/l # | 80       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.371  | 101   | 188722   | 83.020    | ug/l   | 95       |
| 10) Methyl Iodide             | 4.583  | 142   | 78       | 5.661     | ug/l # | 40       |
| 12) 1,1-Dichloroethene        | 4.336  | 96    | 1076     | 0.418     | ug/l # | 36       |
| 13) Acrolein                  | 4.183  | 56    | 607      | 1.041     | ug/l # | 72       |
| 16) Acetone                   | 4.377  | 43    | 3002     | 1.672     | ug/l # | 47       |
| 20) Methylene Chloride        | 5.253  | 84    | 155      | Below Cal | #      | 4        |
| 21) trans-1,2-Dichloroethene  | 5.794  | 96    | 830      | 0.286     | ug/l # | 28       |
| 24) 1,1-Dichloroethane        | 6.559  | 63    | 8637     | 1.531     | ug/l # | 94       |
| 27) cis-1,2-Dichloroethene    | 7.477  | 96    | 234562   | 70.144    | ug/l   | 91       |
| 31) Cyclohexane               | 8.212  | 56    | 7344     | 1.560     | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 8.212  | 75    | 22280    | 4.945     | ug/l # | 53       |
| 38) Carbon Tetrachloride      | 8.200  | 117   | 26752    | 5.390     | ug/l # | 14       |
| 44) Trichloroethene           | 9.329  | 130   | 69531    | 20.207    | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.094 | 164   | 647      | 0.219     | ug/l # | 52       |
| 71) Bromoform                 | 12.823 | 173   | 1338     | 0.472     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.829 | 75    | 117105   | 24.455    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829 | 75    | 117105   | 66.912    | ug/l # | 8        |

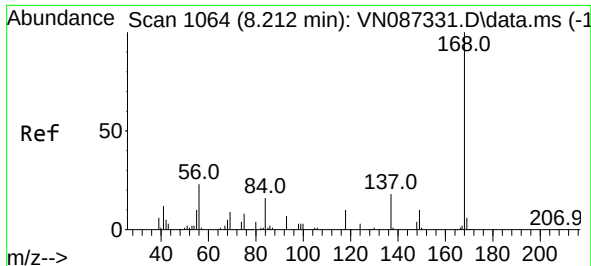
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

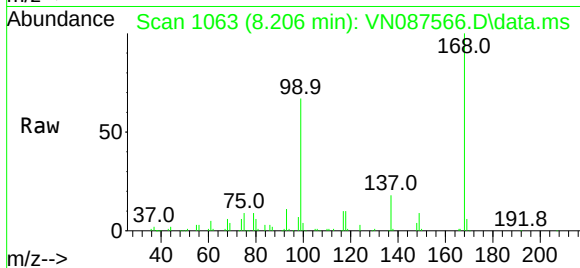
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 17 02:56:13 2025  
Response via : Initial Calibration



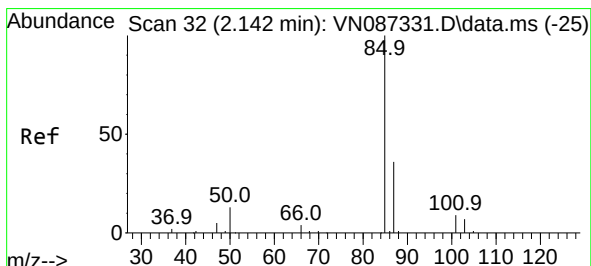
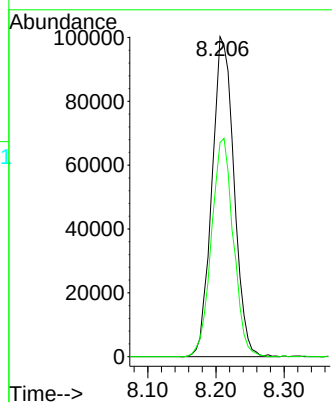
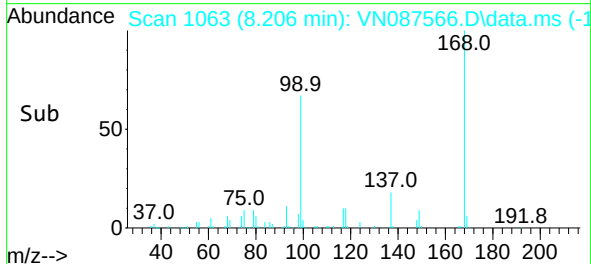


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Instrument :  
MSVOA\_N  
ClientSampleId :

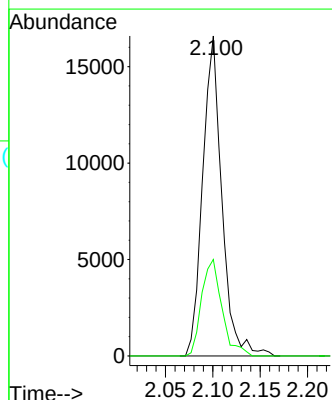
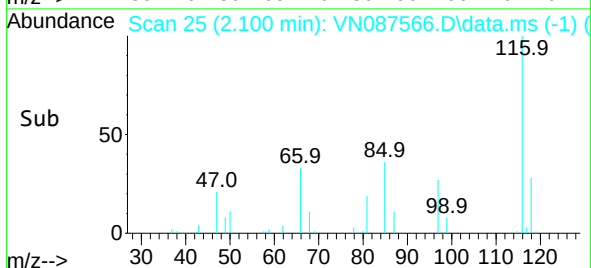
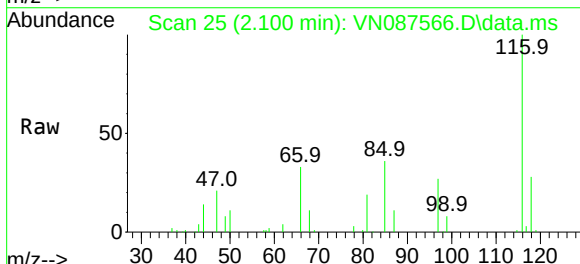


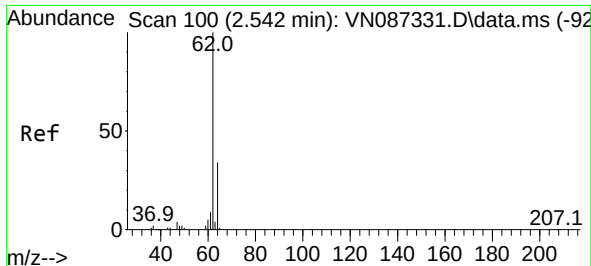
Tgt Ion:168 Resp: 225616  
Ion Ratio Lower Upper  
168 100  
99 66.9 47.9 71.9



#2  
Dichlorodifluoromethane  
Concen: 9.742 ug/l  
RT: 2.100 min Scan# 25  
Delta R.T. -0.041 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

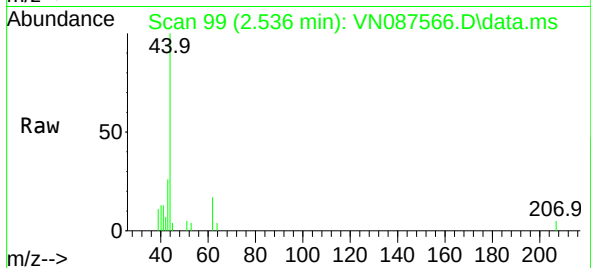
Tgt Ion: 85 Resp: 23345  
Ion Ratio Lower Upper  
85 100  
87 30.2 17.8 53.3



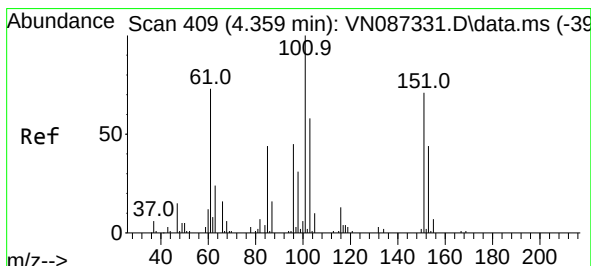
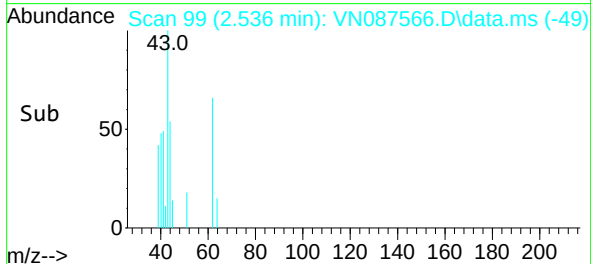
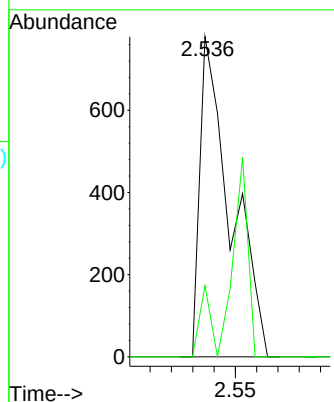


#4  
 Vinyl Chloride  
 Concen: 0.260 ug/l  
 RT: 2.536 min Scan# 91  
 Delta R.T. -0.006 min  
 Lab File: VN087566.D  
 Acq: 14 Aug 2025 15:20

Instrument :  
 MSVOA\_N  
 ClientSampleId :

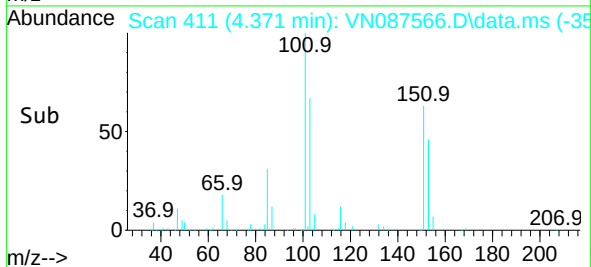
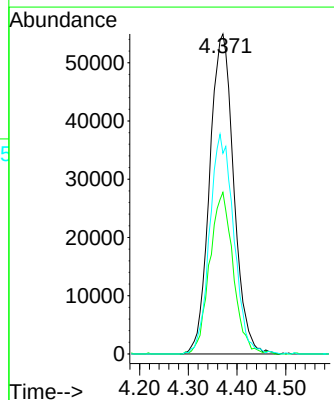
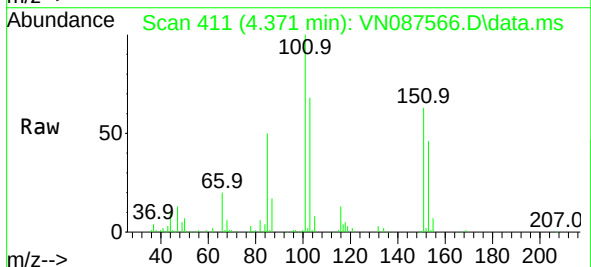


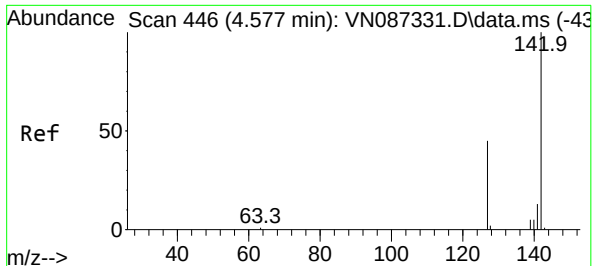
Tgt Ion: 62 Resp: 780  
 Ion Ratio Lower Upper  
 62 100  
 64 22.2 27.0 40.6#



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 83.020 ug/l  
 RT: 4.371 min Scan# 411  
 Delta R.T. 0.012 min  
 Lab File: VN087566.D  
 Acq: 14 Aug 2025 15:20

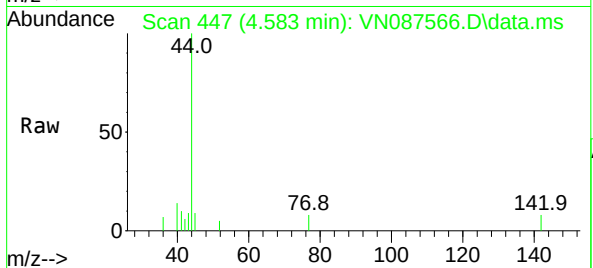
Tgt Ion: 101 Resp: 188722  
 Ion Ratio Lower Upper  
 101 100  
 85 49.1 37.3 55.9  
 151 68.6 58.9 88.3



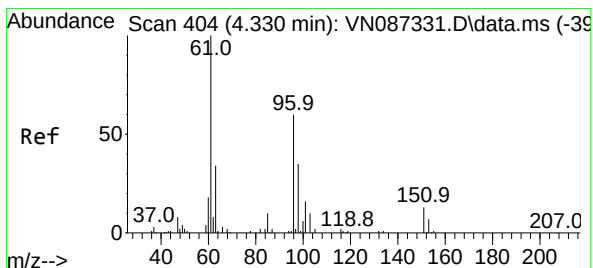
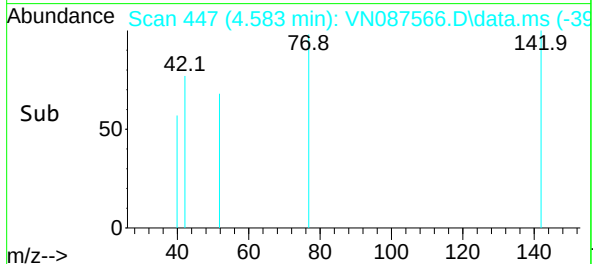
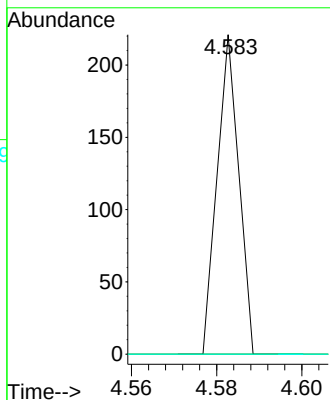


#10  
Methyl Iodide  
Concen: 5.661 ug/l  
RT: 4.583 min Scan# 446  
Delta R.T. 0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Instrument :  
MSVOA\_N  
ClientSampleId :

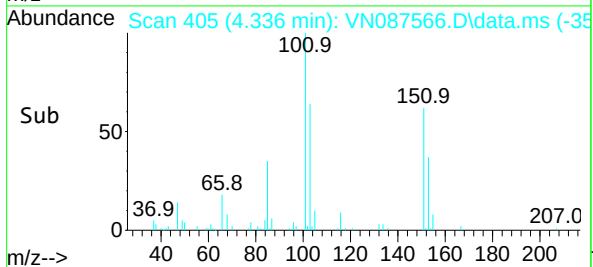
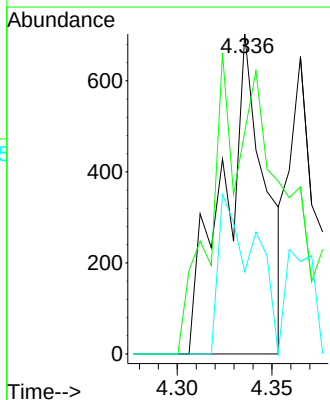
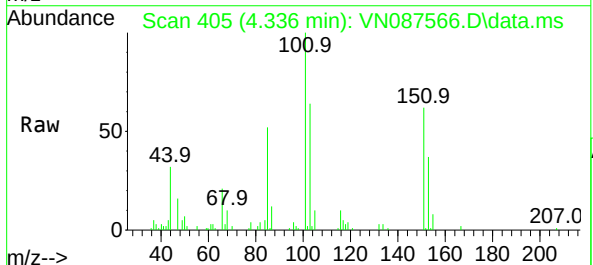


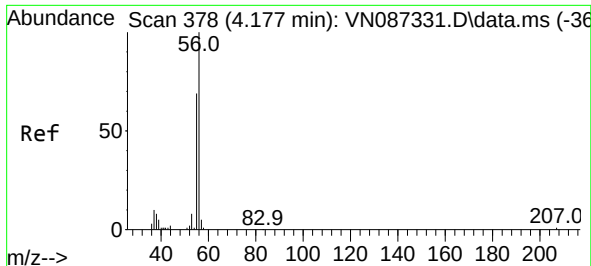
Tgt Ion: 142 Resp: 78  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.7 53.5#  
141 0.0 10.4 15.6#



#12  
1,1-Dichloroethene  
Concen: 0.418 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Tgt Ion: 96 Resp: 1076  
Ion Ratio Lower Upper  
96 100  
61 69.4 132.3 198.5#  
98 25.7 46.8 70.2#

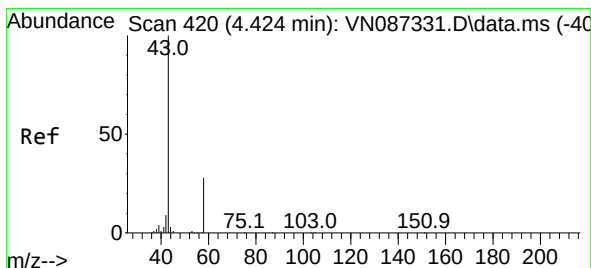
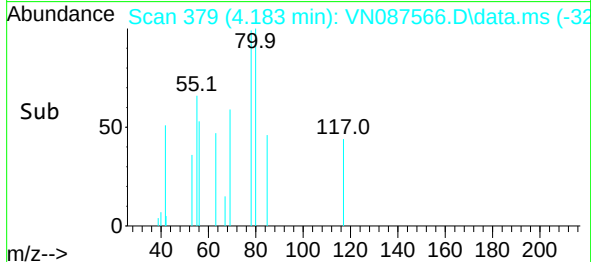
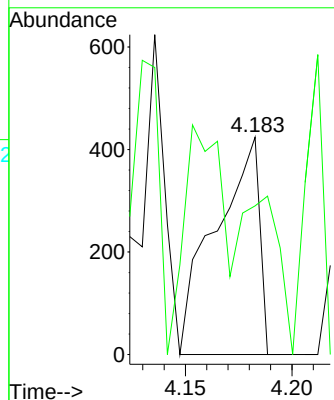
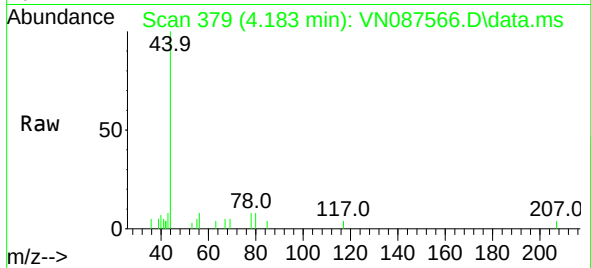




#13  
Acrolein  
Concen: 1.041 ug/l  
RT: 4.183 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

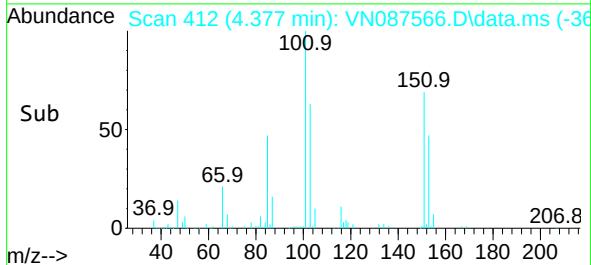
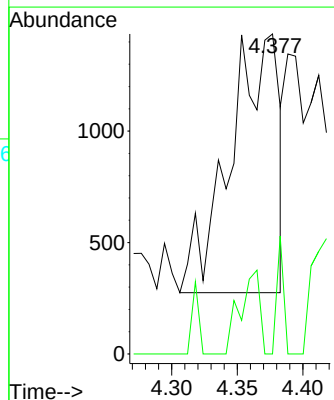
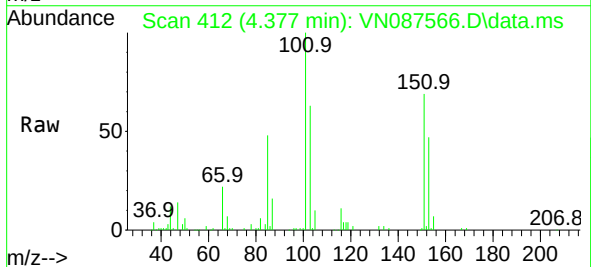
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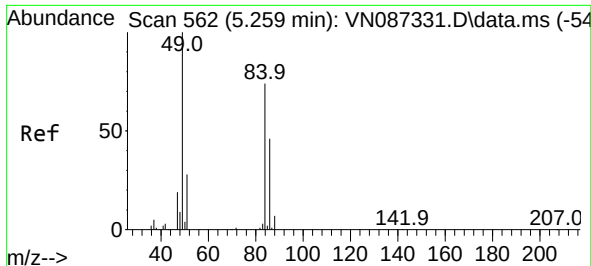
Tgt Ion: 56 Resp: 607  
Ion Ratio Lower Upper  
56 100  
55 47.0 56.2 84.4#



#16  
Acetone  
Concen: 1.672 ug/l  
RT: 4.377 min Scan# 412  
Delta R.T. -0.047 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

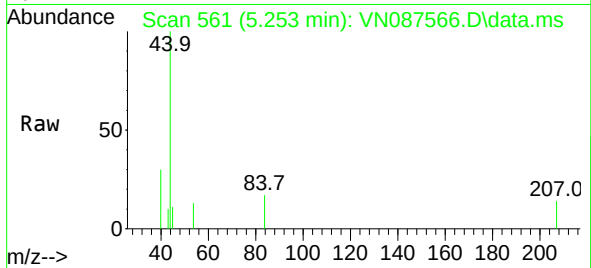
Tgt Ion: 43 Resp: 3002  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.3 33.5#



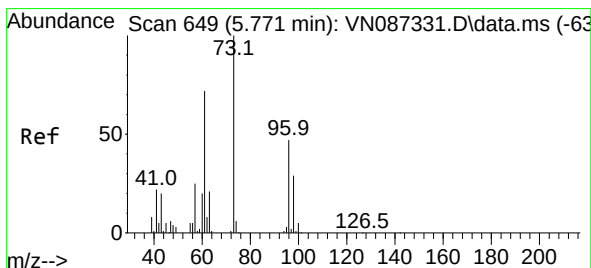
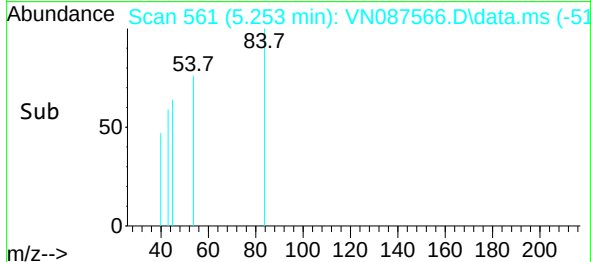
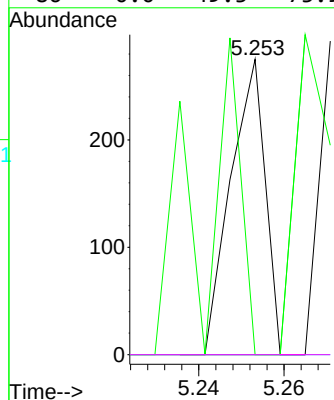


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.253 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Instrument :  
MSVOA\_N  
ClientSampleId :

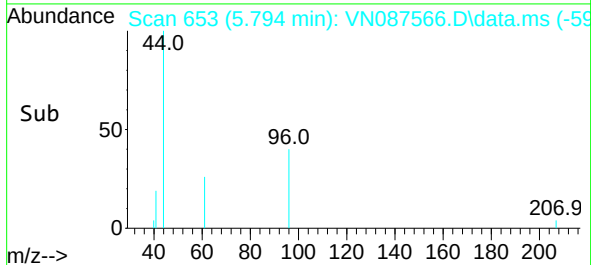
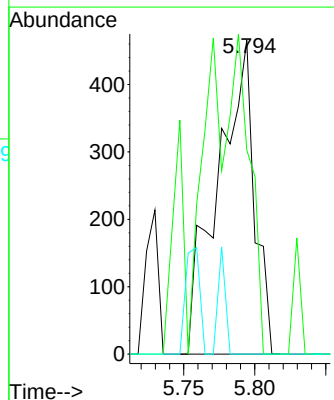
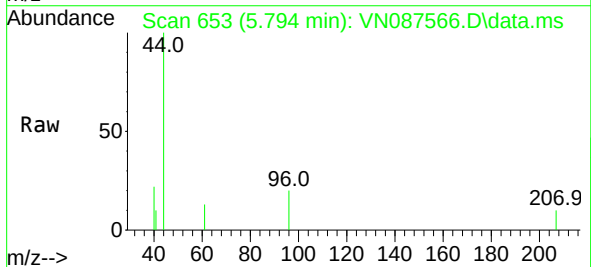


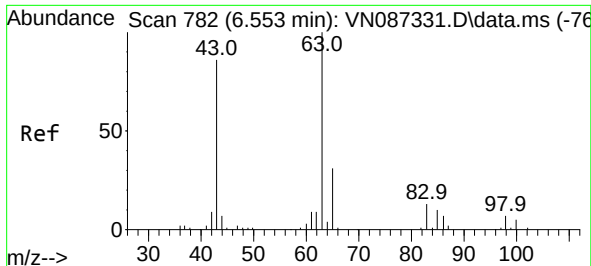
Tgt Ion: 84 Resp: 155  
Ion Ratio Lower Upper  
84 100  
49 0.0 107.5 161.3#  
51 0.0 30.2 45.2#  
86 0.0 49.3 73.9#



#21  
trans-1,2-Dichloroethene  
Concen: 0.286 ug/l  
RT: 5.794 min Scan# 653  
Delta R.T. 0.023 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

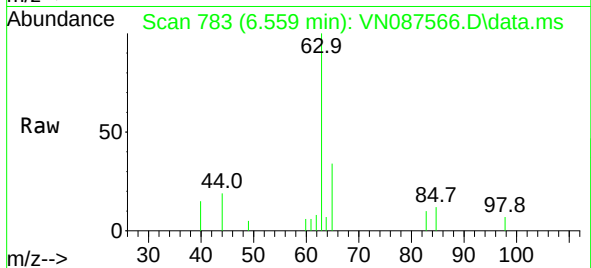
Tgt Ion: 96 Resp: 830  
Ion Ratio Lower Upper  
96 100  
61 65.0 122.0 183.0#  
98 0.0 50.0 75.0#



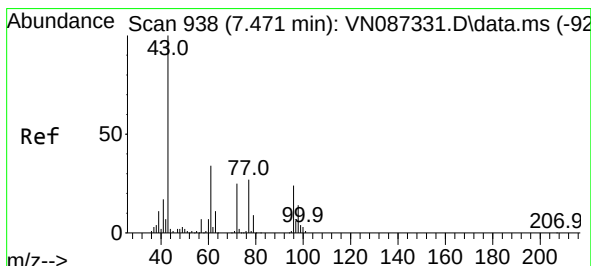
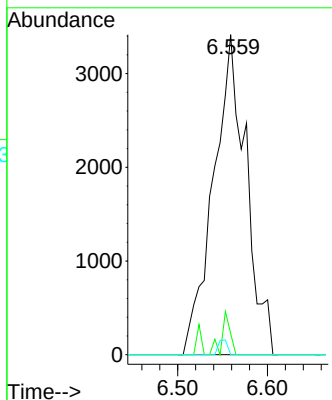
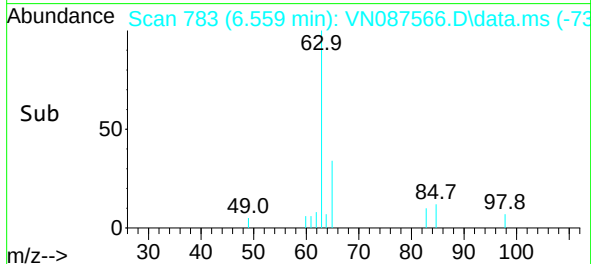


#24  
 1,1-Dichloroethane  
 Concen: 1.531 ug/l  
 RT: 6.559 min Scan# 71  
 Delta R.T. 0.006 min  
 Lab File: VN087566.D  
 Acq: 14 Aug 2025 15:20

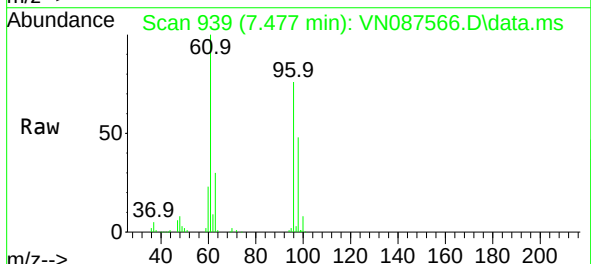
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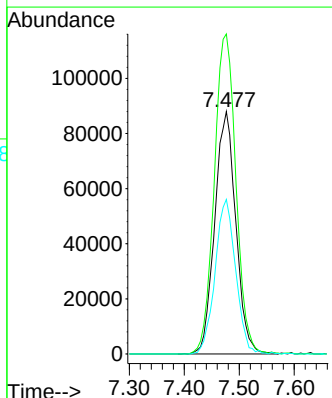
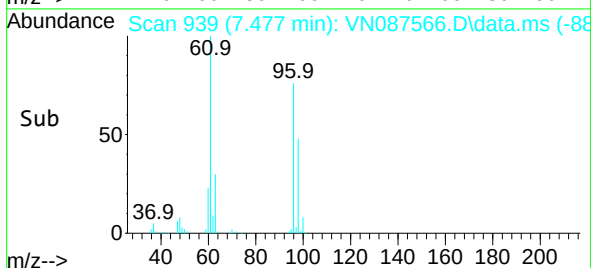
Tgt Ion: 63 Resp: 8637  
 Ion Ratio Lower Upper  
 63 100  
 98 6.6 3.3 9.9  
 100 0.0 2.5 7.4#



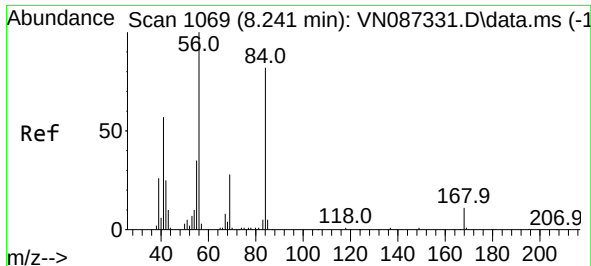
#27  
 cis-1,2-Dichloroethene  
 Concen: 70.144 ug/l  
 RT: 7.477 min Scan# 939  
 Delta R.T. 0.006 min  
 Lab File: VN087566.D  
 Acq: 14 Aug 2025 15:20



Tgt Ion: 96 Resp: 234562  
 Ion Ratio Lower Upper  
 96 100  
 61 135.3 0.0 297.8  
 98 62.2 0.0 132.4

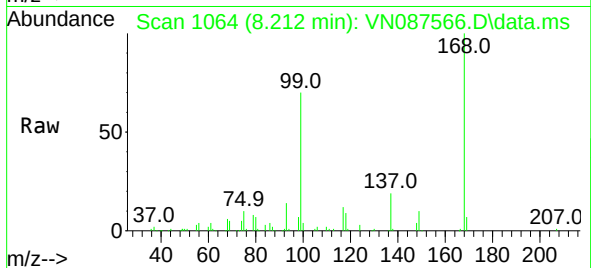




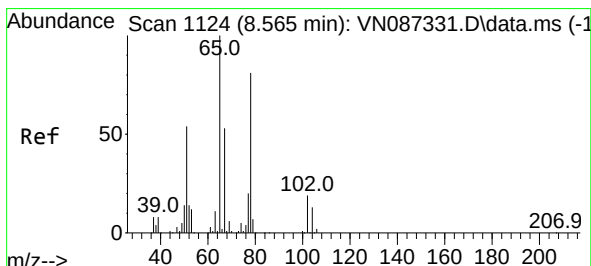
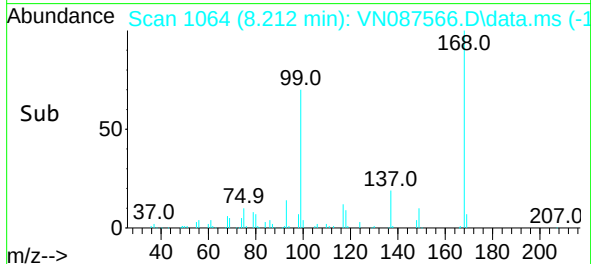
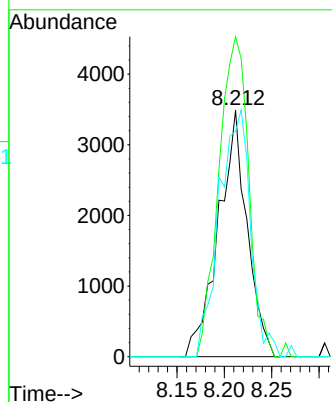


#31  
Cyclohexane  
Concen: 1.560 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.029 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Instrument :  
MSVOA\_N  
ClientSampleId :

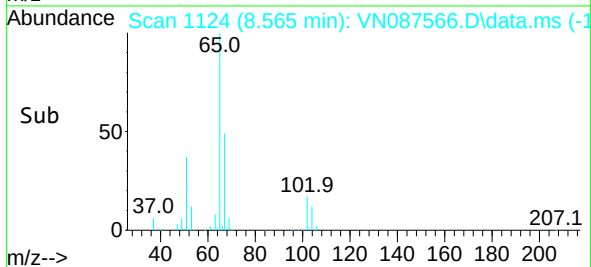
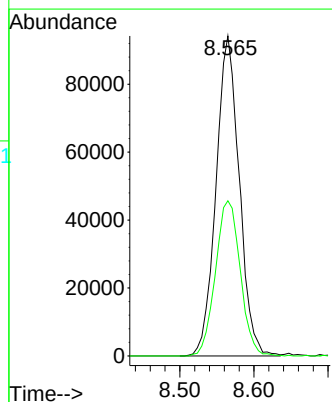
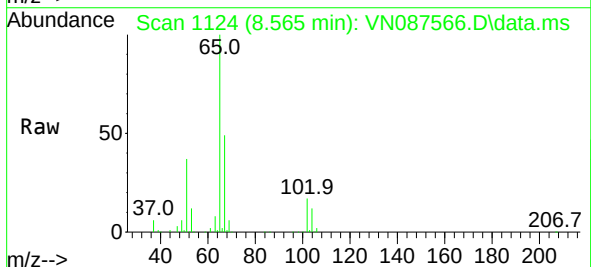


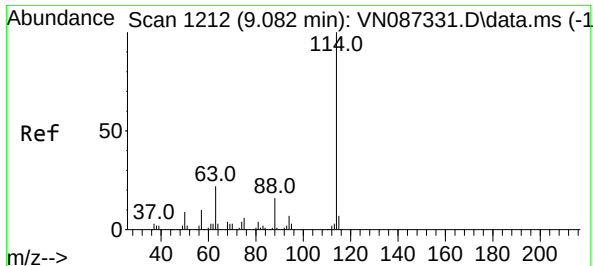
Tgt Ion: 56 Resp: 7344  
Ion Ratio Lower Upper  
56 100  
69 129.8 22.7 34.1#  
84 91.4 65.8 98.6



#33  
1,2-Dichloroethane-d4  
Concen: 53.657 ug/l  
RT: 8.565 min Scan# 1124  
Delta R.T. 0.000 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Tgt Ion: 65 Resp: 205410  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087566.D

Acq: 14 Aug 2025 15:20

Instrument :

MSVOA\_N

ClientSampleId :

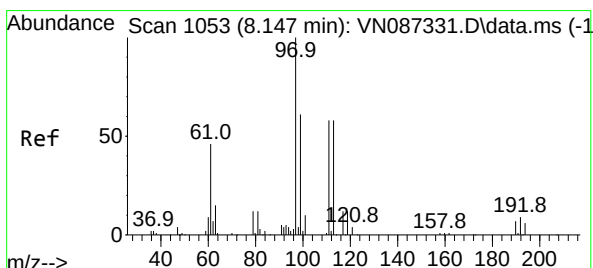
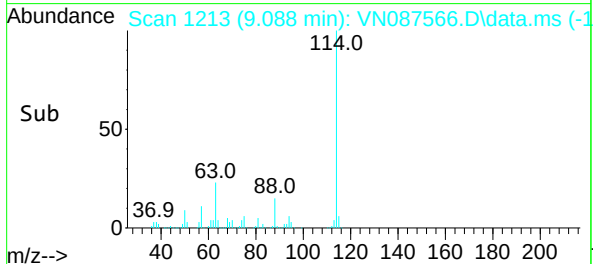
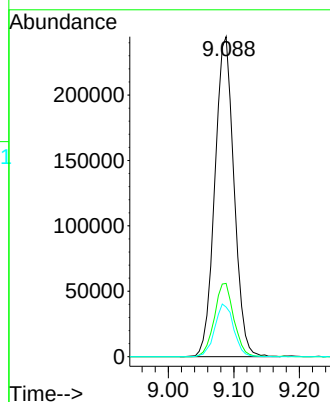
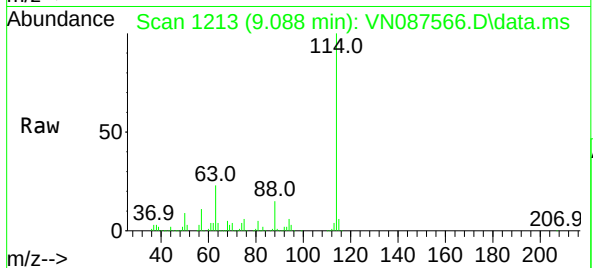
Tgt Ion:114 Resp: 494400

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 15.5 0.0 32.8



#35

Dibromofluoromethane

Concen: 45.525 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087566.D

Acq: 14 Aug 2025 15:20

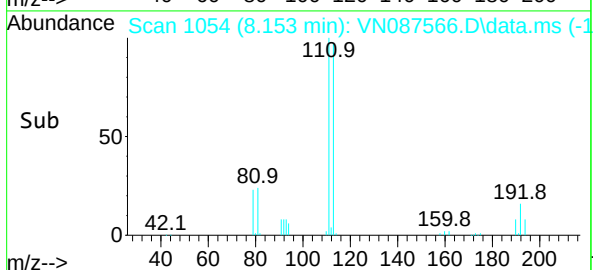
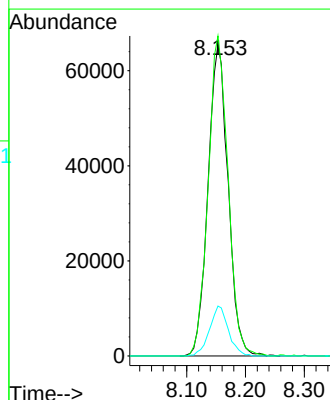
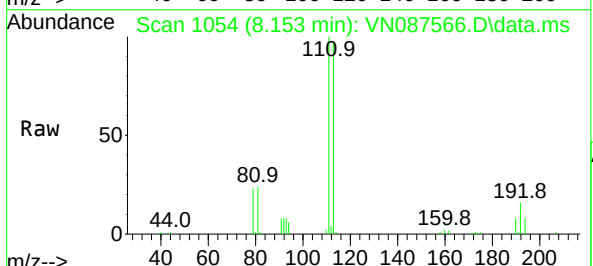
Tgt Ion:113 Resp: 155257

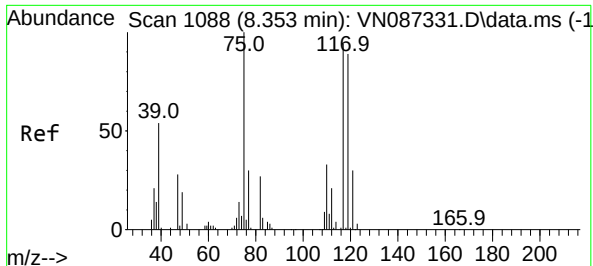
Ion Ratio Lower Upper

113 100

111 102.1 82.5 123.7

192 15.1 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.945 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087566.D

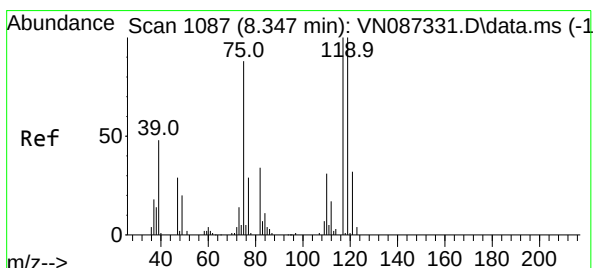
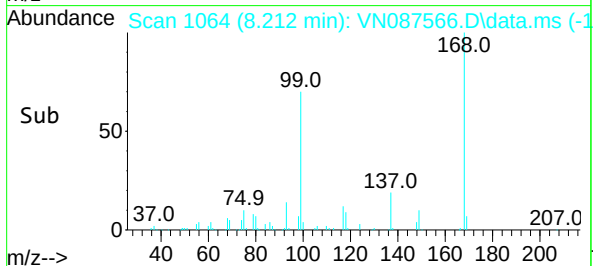
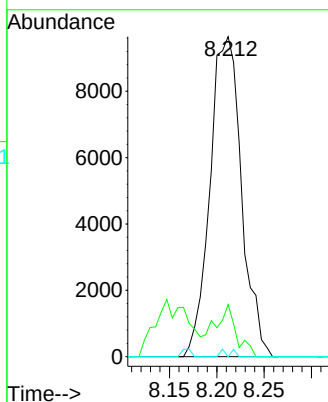
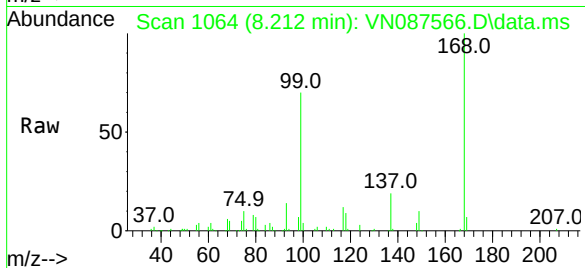
Acq: 14 Aug 2025 15:20

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 22280 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 11.7  | 16.7  | 50.1# |
| 77       | 0.7   | 25.2  | 37.8# |



#38

Carbon Tetrachloride

Concen: 5.390 ug/l

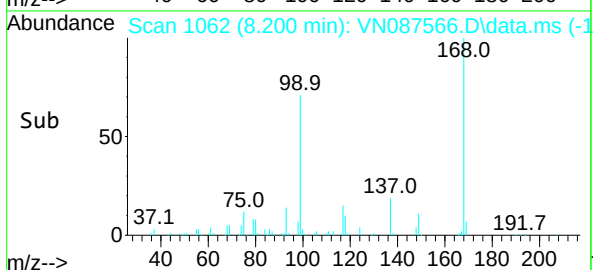
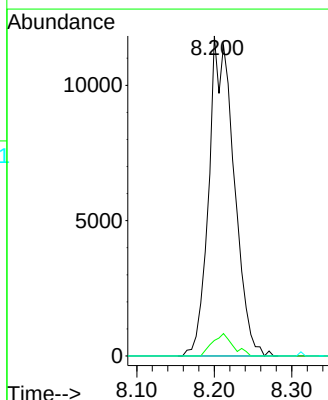
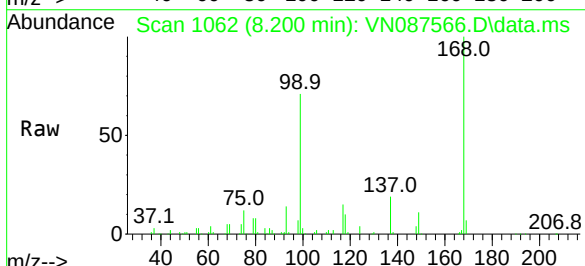
RT: 8.200 min Scan# 1062

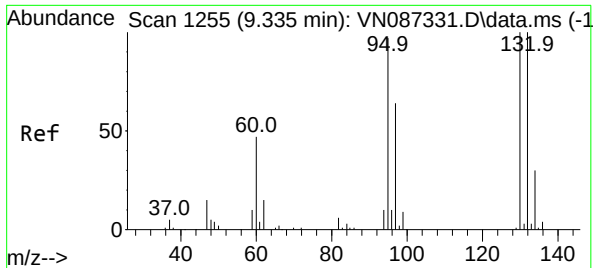
Delta R.T. -0.147 min

Lab File: VN087566.D

Acq: 14 Aug 2025 15:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 26752  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.8   | 80.2  | 120.2# |
| 121      | 0.0   | 25.4  | 38.2#  |

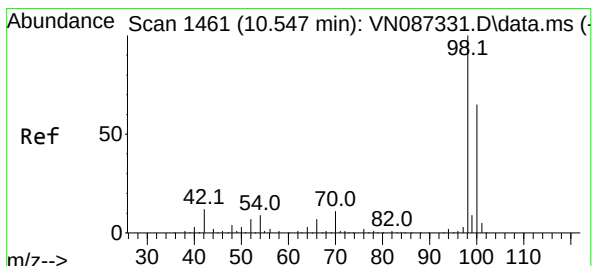
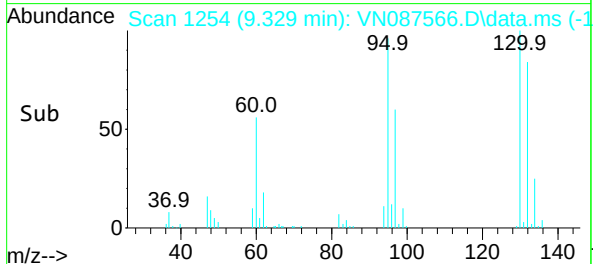
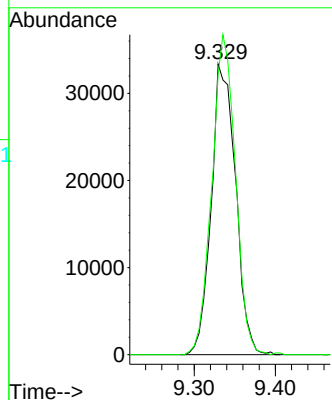
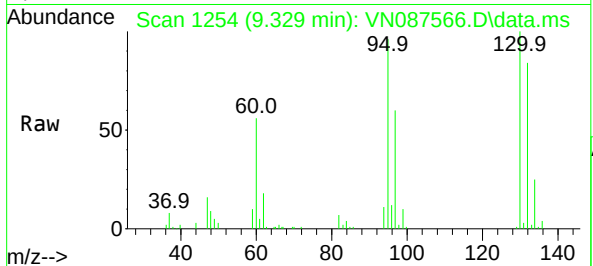




#44  
Trichloroethene  
Concen: 20.207 ug/l  
RT: 9.329 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

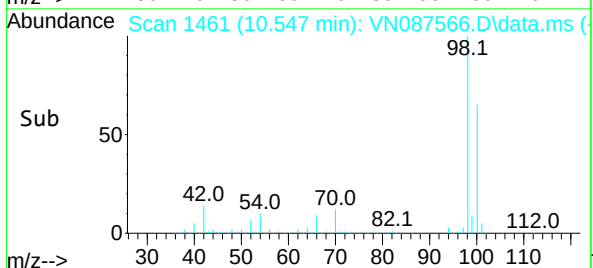
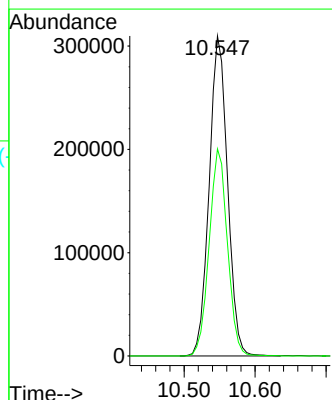
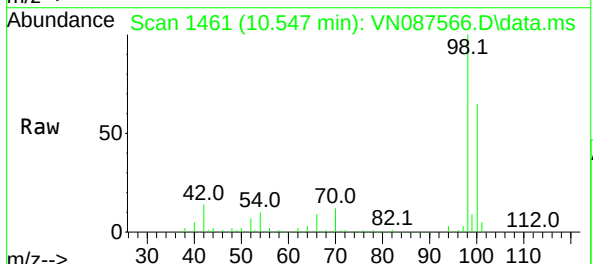
Instrument :  
MSVOA\_N  
ClientSampleId :

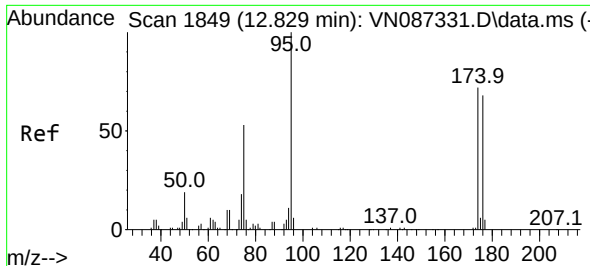
Tgt Ion:130 Resp: 69531  
Ion Ratio Lower Upper  
130 100  
95 96.4 0.0 195.2



#50  
Toluene-d8  
Concen: 45.689 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Tgt Ion: 98 Resp: 555821  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.1 78.1

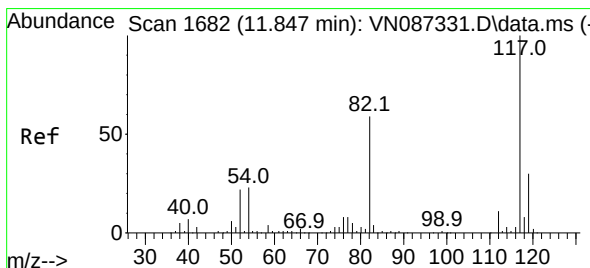
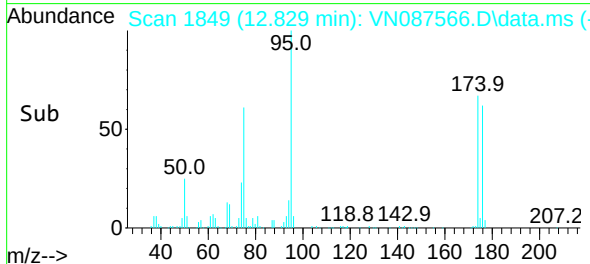
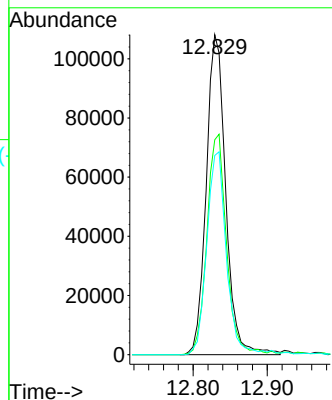
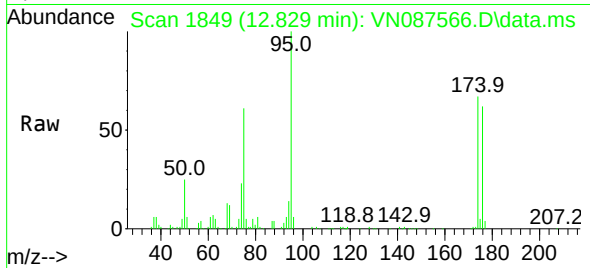




#62  
4-Bromofluorobenzene  
Concen: 43.886 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

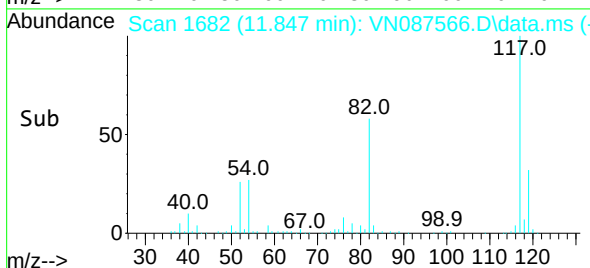
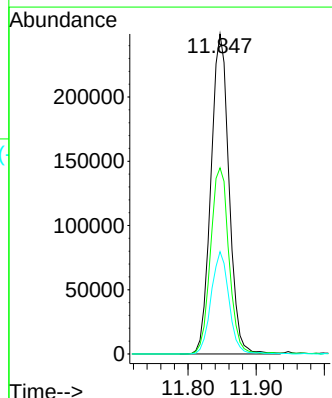
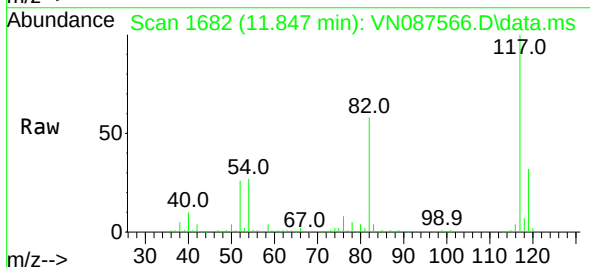
Instrument :  
MSVOA\_N  
ClientSampleId :

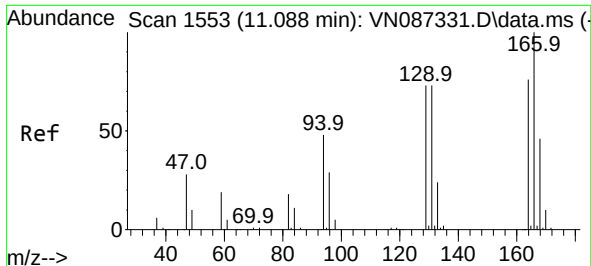
Tgt Ion: 95 Resp: 197243  
Ion Ratio Lower Upper  
95 100  
174 69.3 0.0 149.4  
176 64.4 0.0 141.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. -0.000 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

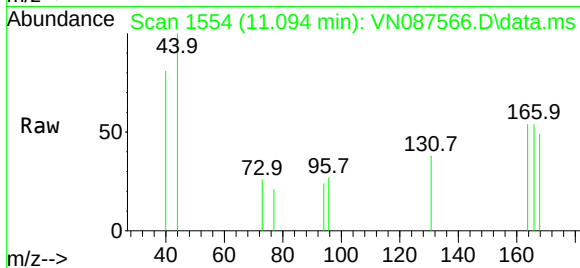
Tgt Ion: 117 Resp: 459245  
Ion Ratio Lower Upper  
117 100  
82 58.2 47.4 71.2  
119 32.0 23.8 35.8



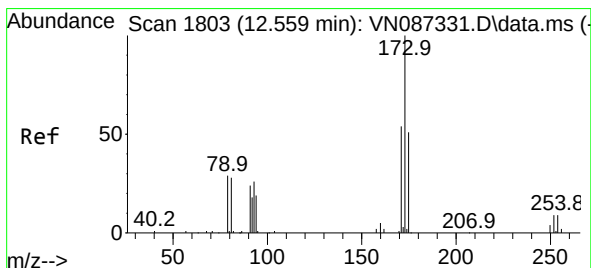
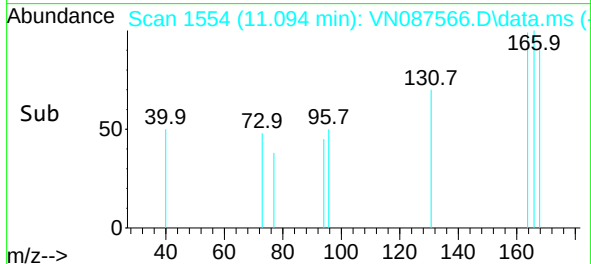
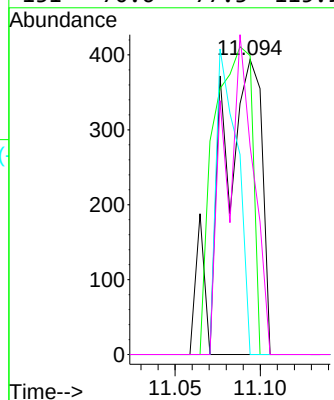


#64  
Tetrachloroethene  
Concen: 0.219 ug/l  
RT: 11.094 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Instrument :  
MSVOA\_N  
ClientSampleId :

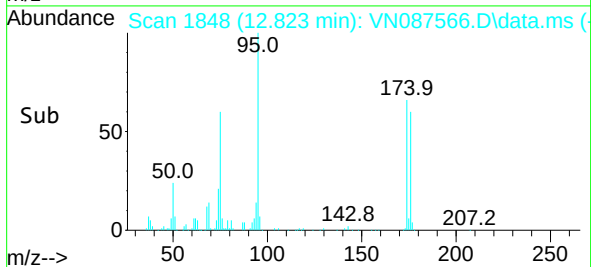
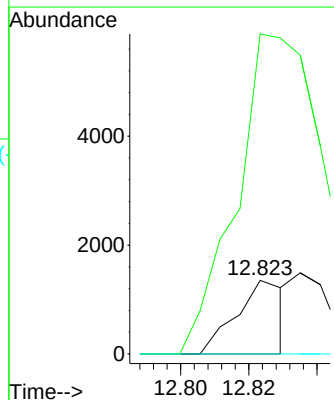
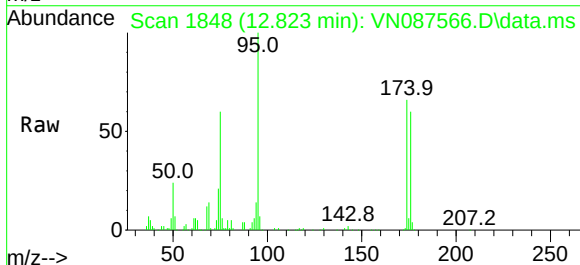


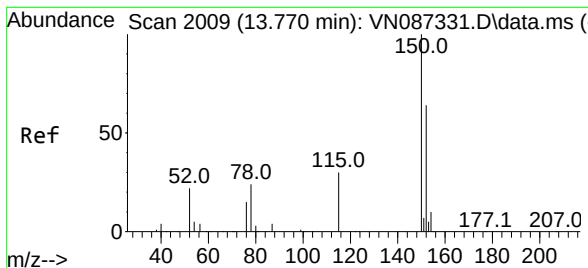
Tgt Ion:164 Resp: 647  
Ion Ratio Lower Upper  
164 100  
166 101.3 105.5 158.3#  
129 0.0 77.4 116.2#  
131 70.6 77.3 115.9#



#71  
Bromoform  
Concen: 0.472 ug/l  
RT: 12.823 min Scan# 1848  
Delta R.T. 0.265 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Tgt Ion:173 Resp: 1338  
Ion Ratio Lower Upper  
173 100  
175 600.0 24.1 72.3#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087566.D

Acq: 14 Aug 2025 15:20

Instrument :

MSVOA\_N

ClientSampleId :

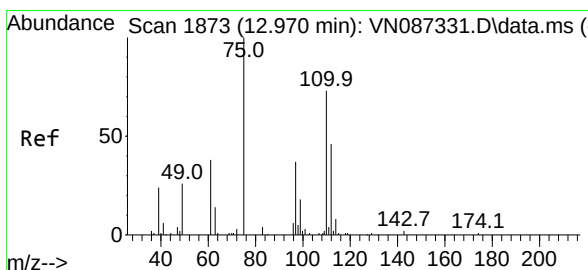
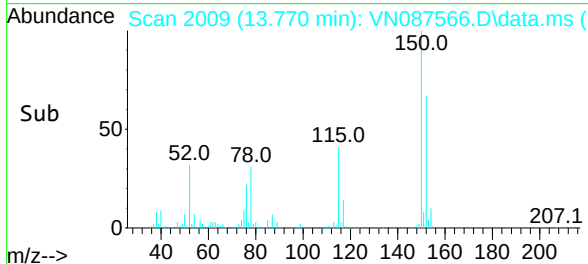
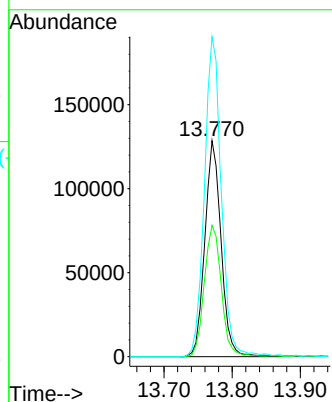
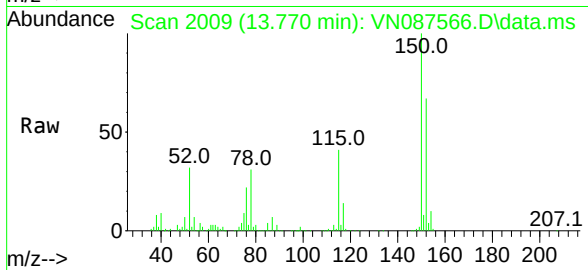
Tgt Ion:152 Resp: 213548

Ion Ratio Lower Upper

152 100

115 63.6 31.1 93.5

150 154.0 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.455 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087566.D

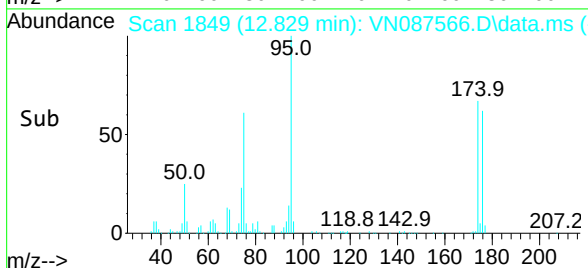
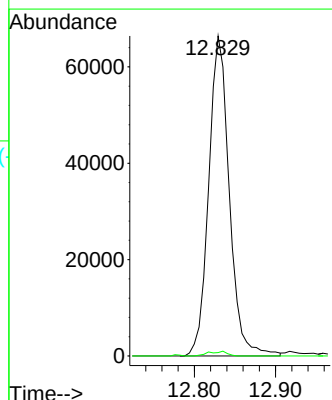
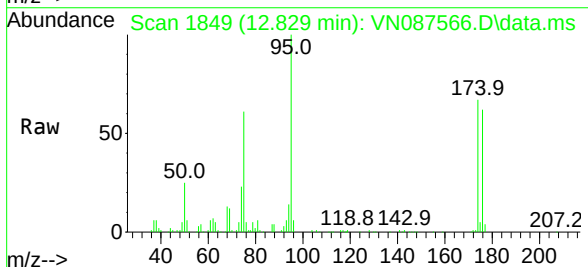
Acq: 14 Aug 2025 15:20

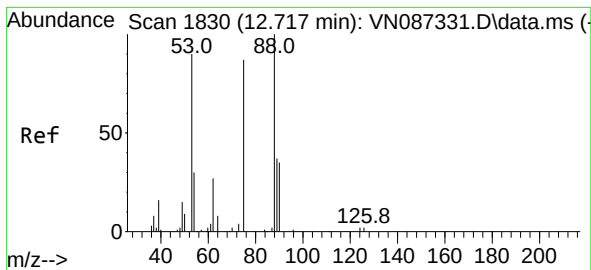
Tgt Ion: 75 Resp: 117105

Ion Ratio Lower Upper

75 100

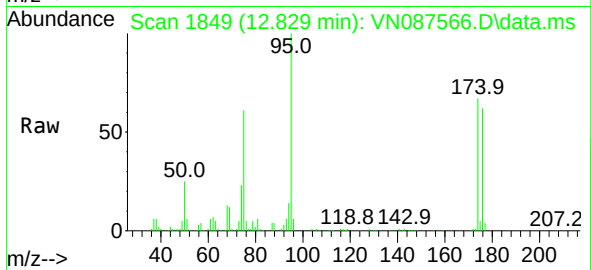
77 1.3 94.5 283.6#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.912 ug/l  
RT: 12.829 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN087566.D  
Acq: 14 Aug 2025 15:20

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 117105  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.5 125.3#  
89 0.0 38.4 57.6#

