

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091625\  
 Data File : VN087861.D  
 Acq On : 16 Sep 2025 19:19  
 Operator : JC\MD  
 Sample : Q3021-05 200X  
 Misc : 1.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 17 01:29:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 22 02:55:42 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.206  | 168  | 257495   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.083  | 114  | 579892   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.847 | 117  | 559964   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152  | 283351   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.565  | 65    | 250255   | 47.435   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 94.860%  |
| 35) Dibromofluoromethane    | 8.153  | 113   | 201206   | 48.057   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 96.120%  |
| 50) Toluene-d8              | 10.547 | 98    | 732504   | 46.744   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 93.480%  |
| 62) 4-Bromofluorobenzene    | 12.829 | 95    | 279549   | 50.162   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 100.320% |

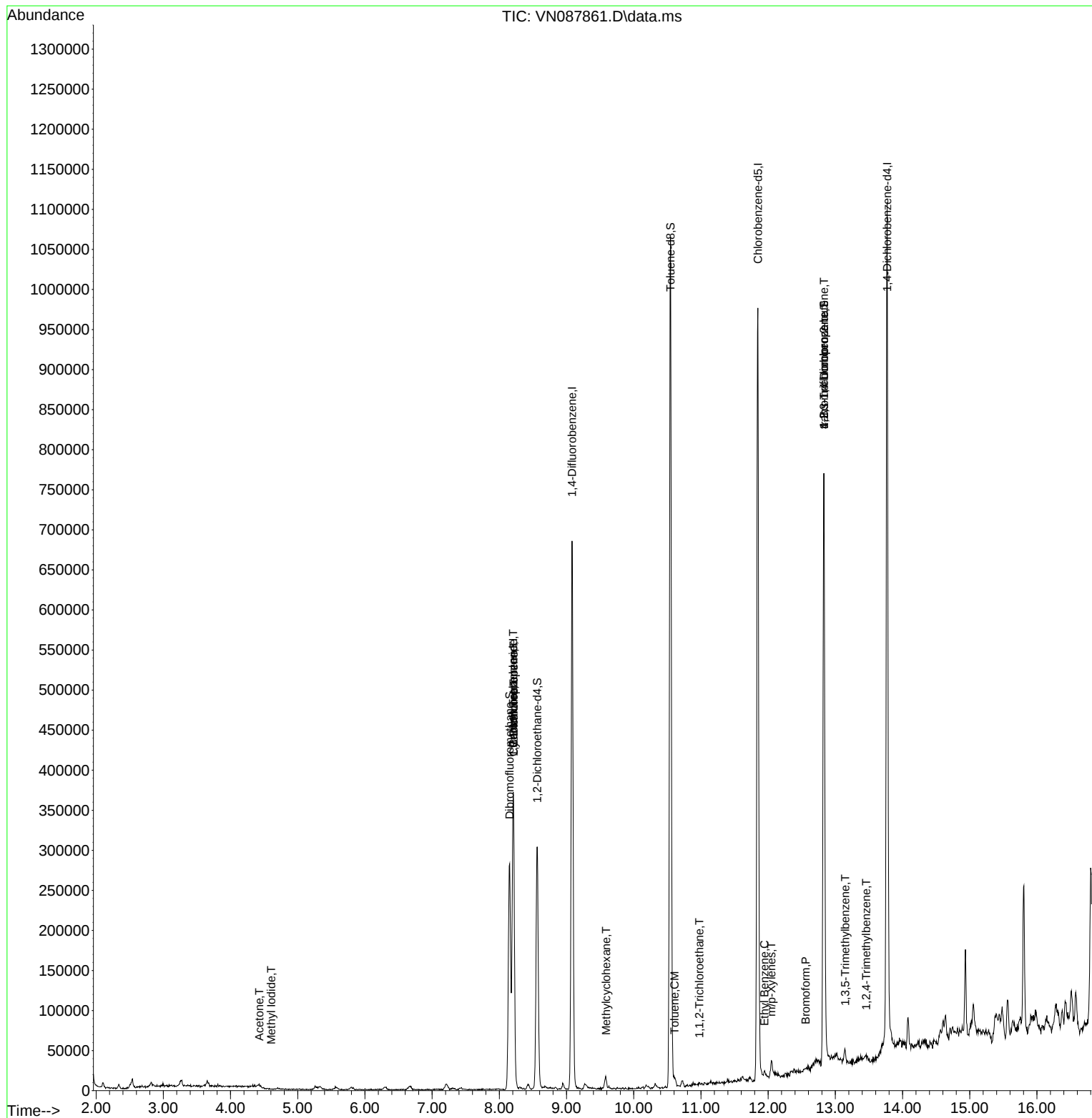
| Target Compounds              |        |     |        |           | Qvalue |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| 10) Methyl Iodide             | 4.606  | 142 | 124    | 6.850     | ug/l # | 38 |
| 16) Acetone                   | 4.430  | 43  | 4703   | 1.638     | ug/l # | 89 |
| 20) Methylene Chloride        | 5.271  | 84  | 1340   | Below Cal | #      | 71 |
| 31) Cyclohexane               | 8.212  | 56  | 10555  | 1.591     | ug/l # | 21 |
| 36) 1,1-Dichloropropene       | 8.212  | 75  | 23639  | 3.680     | ug/l # | 53 |
| 38) Carbon Tetrachloride      | 8.206  | 117 | 28853  | 4.550     | ug/l # | 14 |
| 39) Methylcyclohexane         | 9.588  | 83  | 5713   | 0.808     | ug/l # | 73 |
| 52) Toluene                   | 10.606 | 92  | 4144   | 0.339     | ug/l   | 88 |
| 55) 1,1,2-Trichloroethane     | 10.977 | 97  | 1237   | 0.262     | ug/l # | 24 |
| 67) Ethyl Benzene             | 11.947 | 91  | 5547   | 0.230     | ug/l # | 73 |
| 68) m/p-Xylenes               | 12.047 | 106 | 3187   | 0.360     | ug/l   | 87 |
| 71) Bromoform                 | 12.559 | 173 | 965    | 0.272     | ug/l # | 28 |
| 76) 1,2,3-Trichloropropane    | 12.829 | 75  | 153098 | 23.041    | ug/l # | 1  |
| 80) 1,3,5-Trimethylbenzene    | 13.147 | 105 | 3989   | 0.205     | ug/l   | 92 |
| 81) trans-1,4-Dichloro-2-b... | 12.829 | 75  | 153098 | 60.997    | ug/l # | 1  |
| 84) 1,2,4-Trimethylbenzene    | 13.459 | 105 | 8220   | 0.423     | ug/l   | 96 |

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

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Sample : Q3021-05 200X  
Misc : 1.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Sep 17 01:29:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 22 02:55:42 2025  
Response via : Initial Calibration

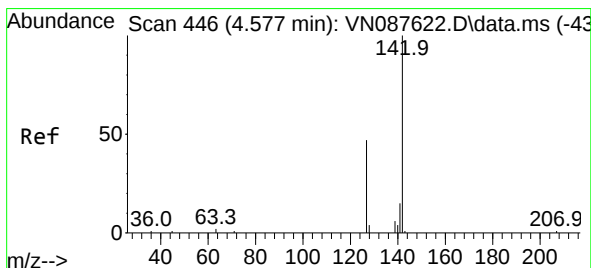
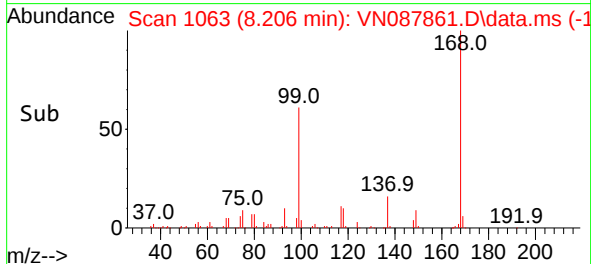
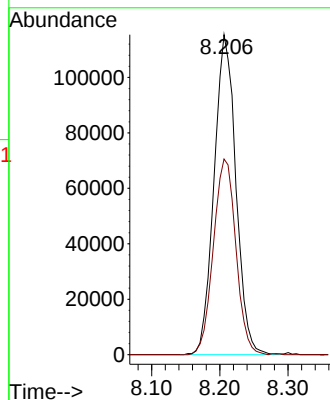
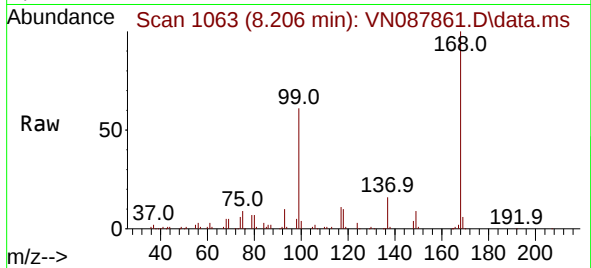




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. 0.000 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

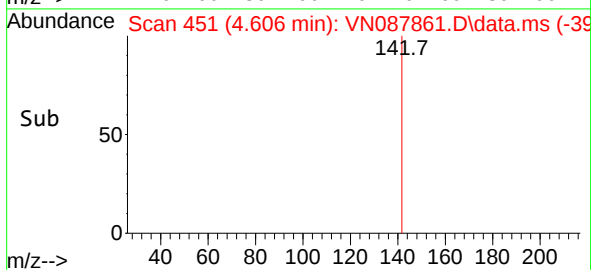
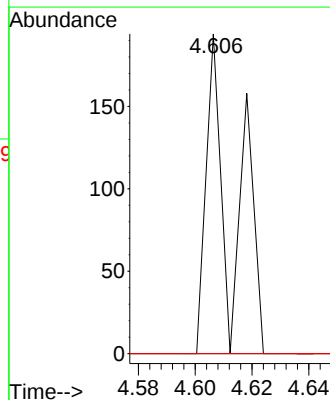
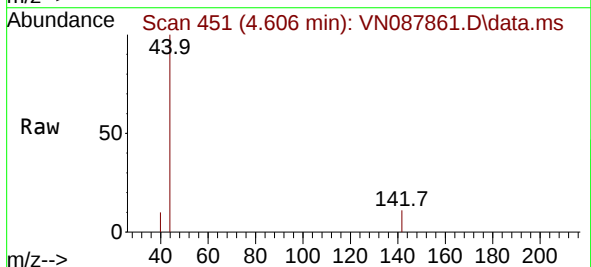
Instrument :  
MSVOA\_N  
ClientSampleId :

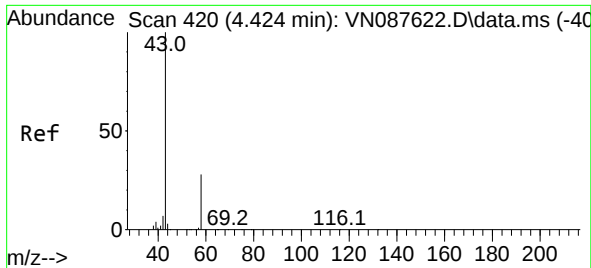
Tgt Ion:168 Resp: 257495  
Ion Ratio Lower Upper  
168 100  
99 61.1 57.2 85.8



#10  
Methyl Iodide  
Concen: 6.850 ug/l  
RT: 4.606 min Scan# 451  
Delta R.T. 0.029 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion:142 Resp: 124  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.0 57.0#  
141 0.0 12.0 18.0#

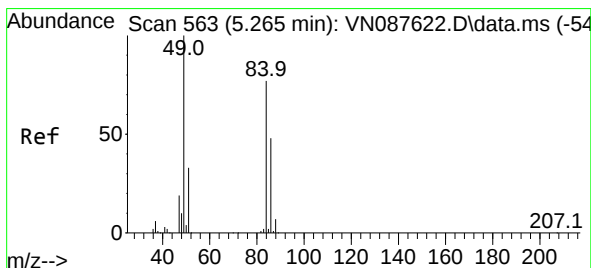
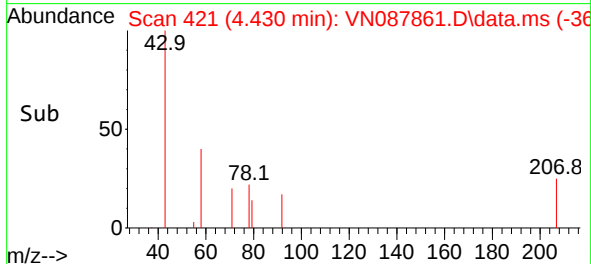
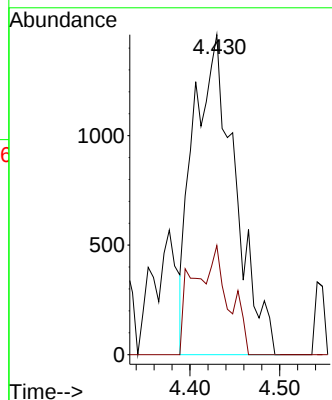
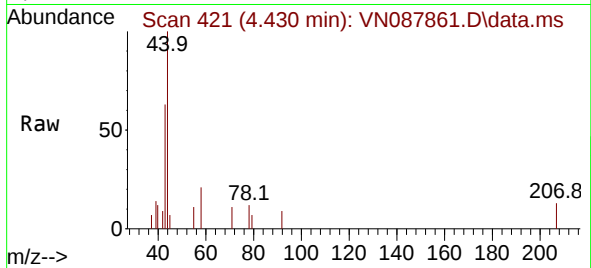




#16  
Acetone  
Concen: 1.638 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

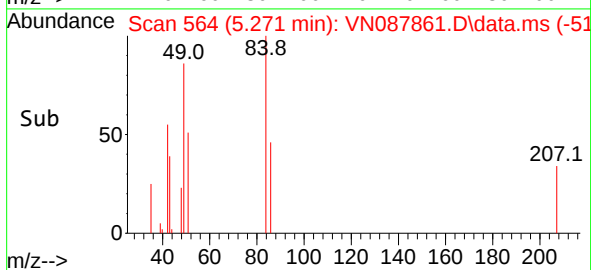
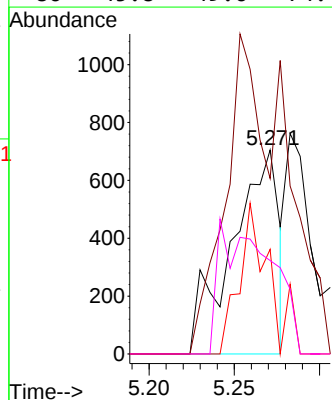
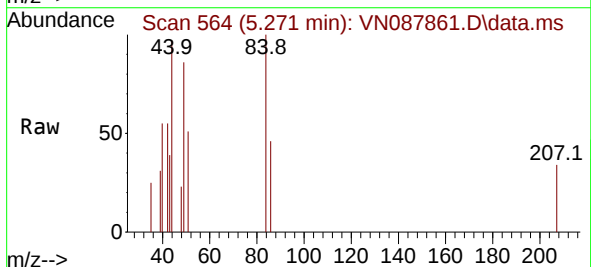
Instrument :  
MSVOA\_N  
ClientSampleId :

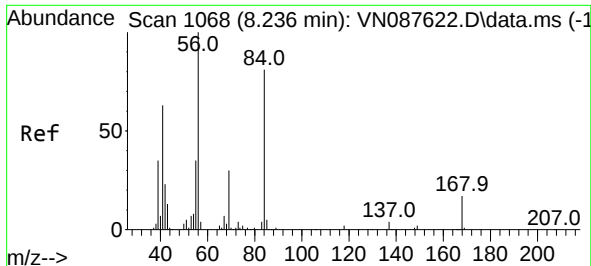
Tgt Ion: 43 Resp: 4703  
Ion Ratio Lower Upper  
43 100  
58 34.1 22.6 33.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.271 min Scan# 564  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

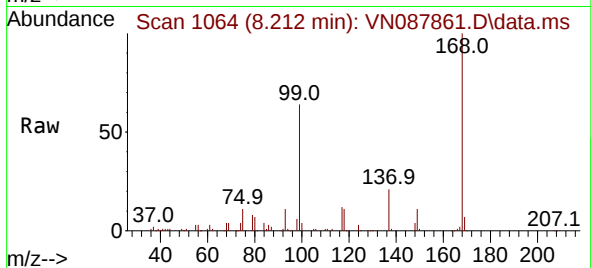
Tgt Ion: 84 Resp: 1340  
Ion Ratio Lower Upper  
84 100  
49 86.1 103.4 155.2#  
51 51.3 33.8 50.8#  
86 45.8 49.6 74.4#



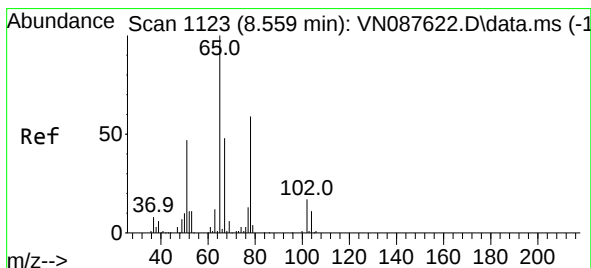
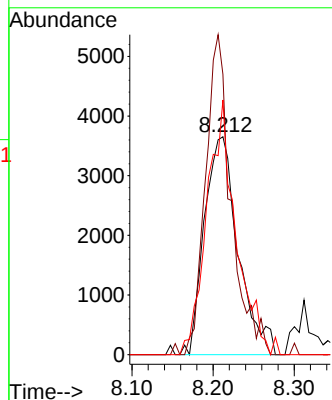
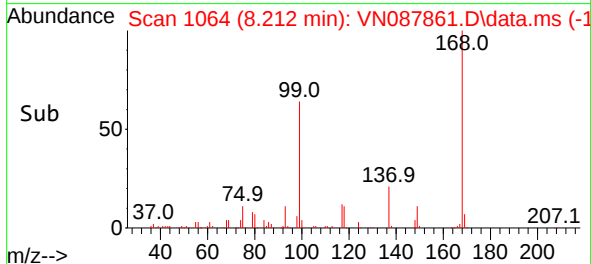


#31  
Cyclohexane  
Concen: 1.591 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.024 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Instrument :  
MSVOA\_N  
ClientSampleId :

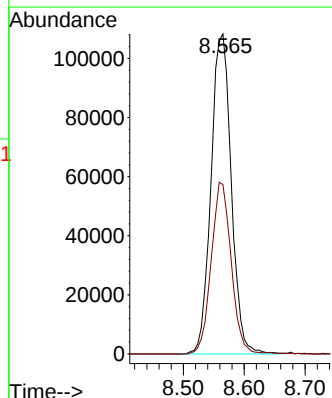
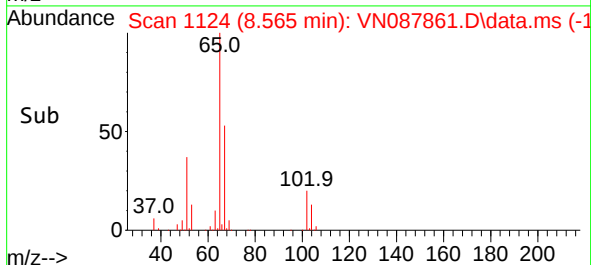
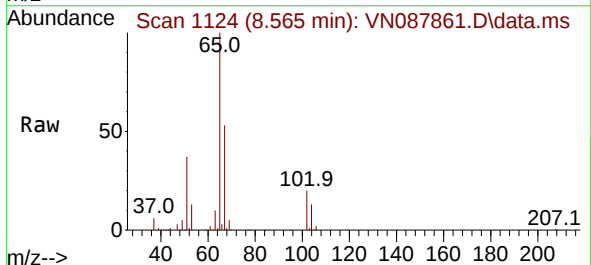


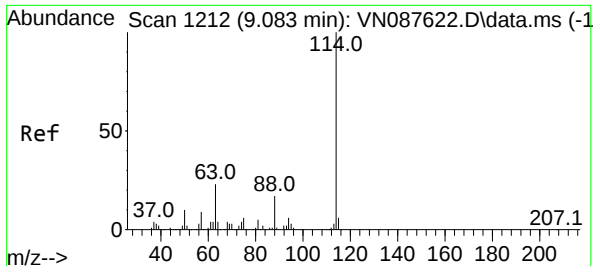
Tgt Ion: 56 Resp: 10555  
Ion Ratio Lower Upper  
56 100  
69 128.6 23.7 35.5#  
84 116.9 64.7 97.1#



#33  
1,2-Dichloroethane-d4  
Concen: 47.435 ug/l  
RT: 8.565 min Scan# 1124  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion: 65 Resp: 250255  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 100.0

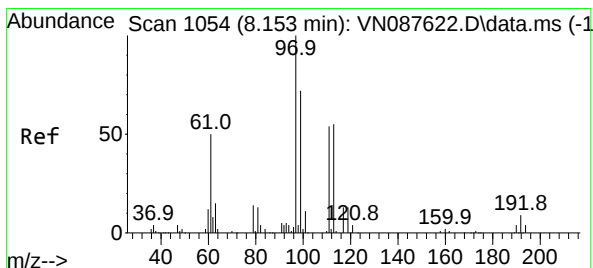
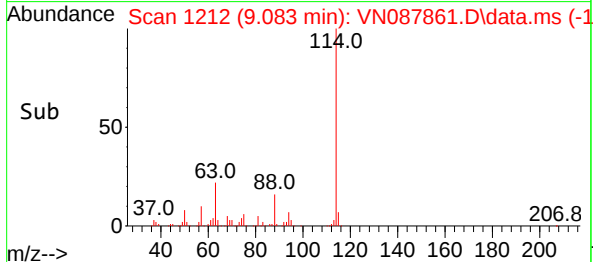
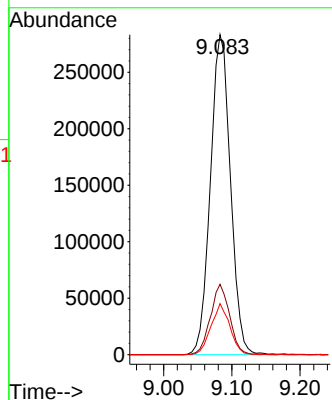
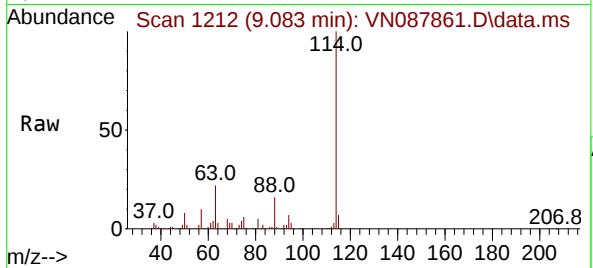




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.083 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

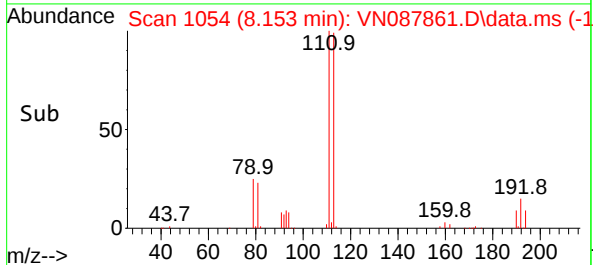
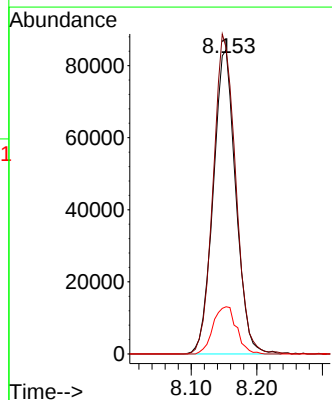
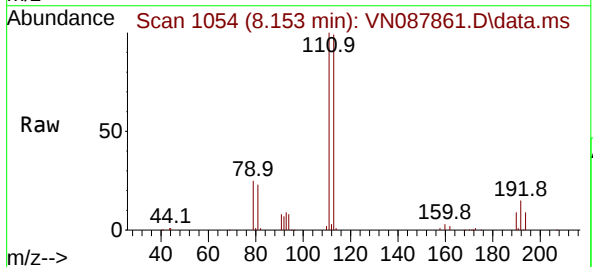
Instrument :  
MSVOA\_N  
ClientSampleId :

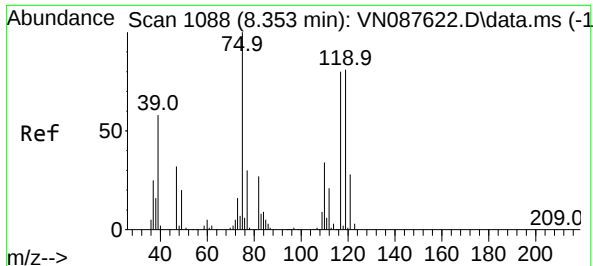
Tgt Ion:114 Resp: 579892  
Ion Ratio Lower Upper  
114 100  
63 22.0 0.0 45.2  
88 15.9 0.0 33.4



#35  
Dibromofluoromethane  
Concen: 48.057 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. -0.000 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion:113 Resp: 201206  
Ion Ratio Lower Upper  
113 100  
111 104.7 82.8 124.2  
192 16.2 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.680 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

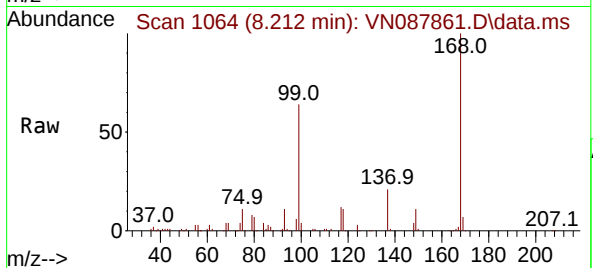
Lab File: VN087861.D

Acq: 16 Sep 2025 19:19

Instrument :

MSVOA\_N

ClientSampleId :



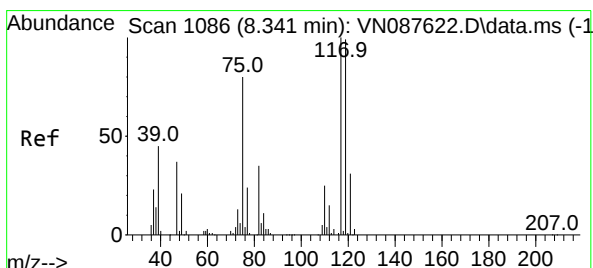
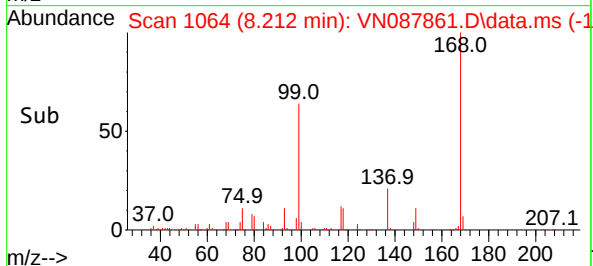
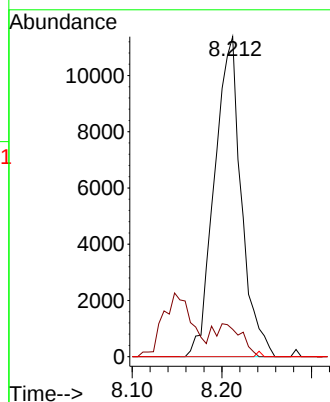
Tgt Ion: 75 Resp: 23639

Ion Ratio Lower Upper

75 100

110 10.8 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.550 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN087861.D

Acq: 16 Sep 2025 19:19

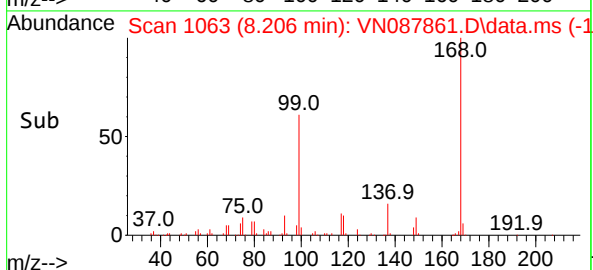
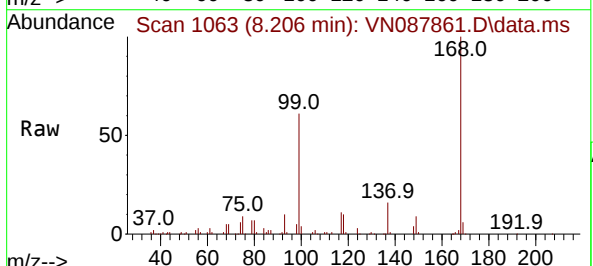
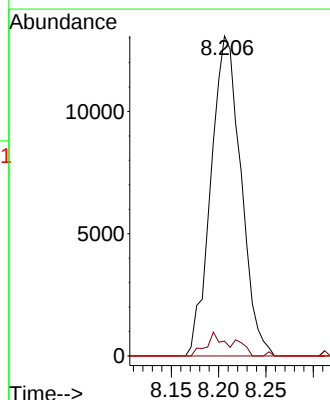
Tgt Ion: 117 Resp: 28853

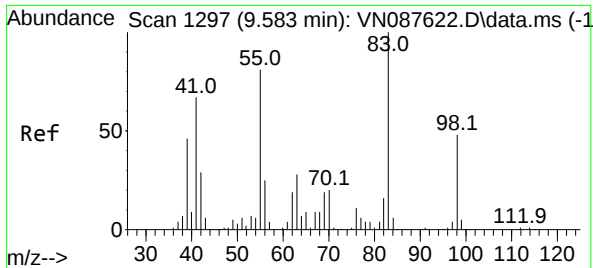
Ion Ratio Lower Upper

117 100

119 4.7 79.0 118.6#

121 0.0 25.0 37.6#

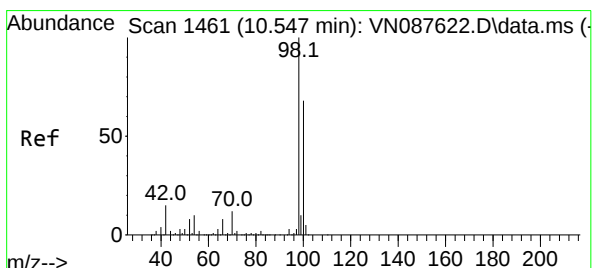
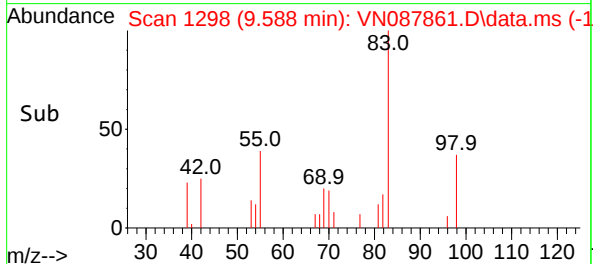
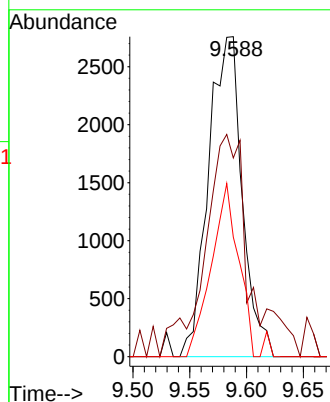
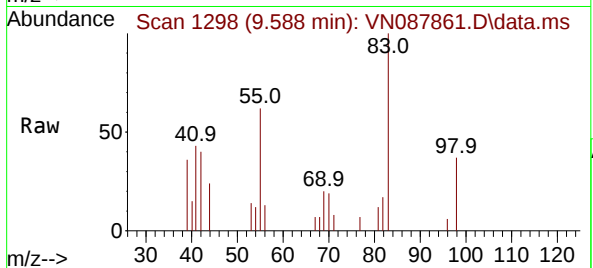




#39  
Methylcyclohexane  
Concen: 0.808 ug/l  
RT: 9.588 min Scan# 1298  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

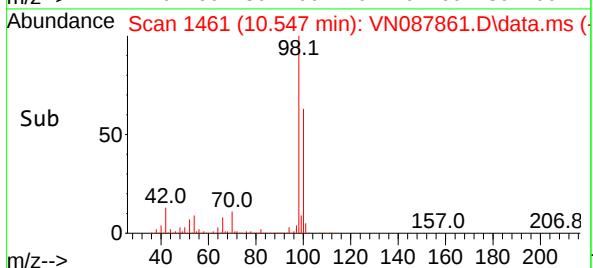
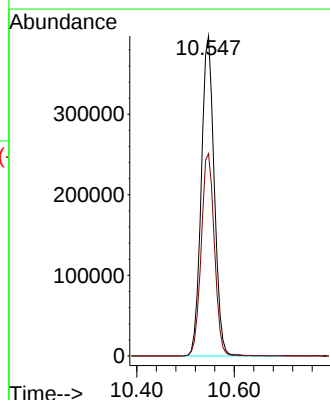
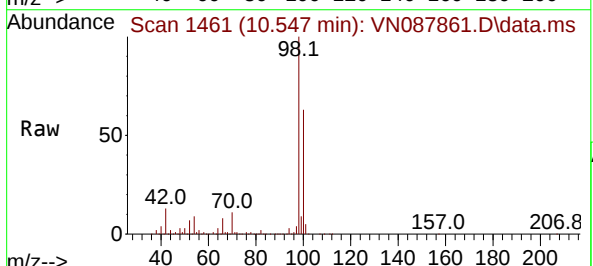
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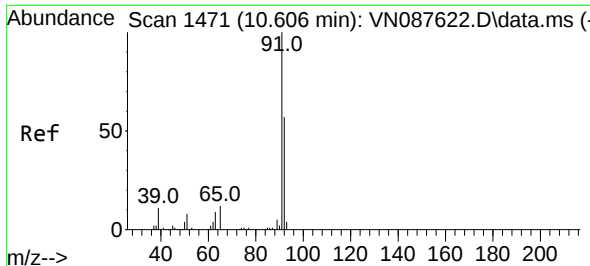
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Ion Ratio Lower Upper  
83 100  
55 50.3 64.6 96.8#  
98 37.4 38.4 57.6#



#50  
Toluene-d8  
Concen: 46.744 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion: 98 Resp: 732504  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.8 79.2

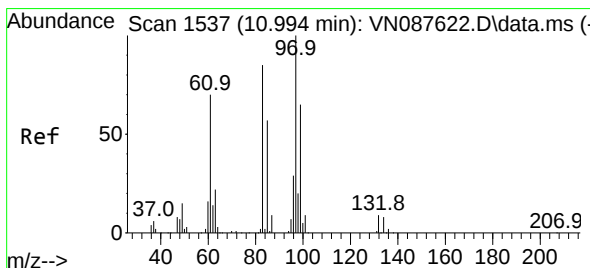
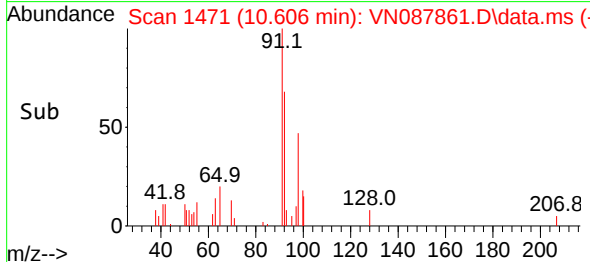
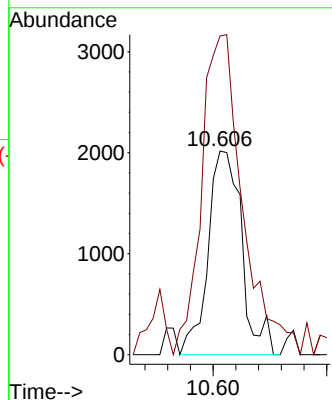
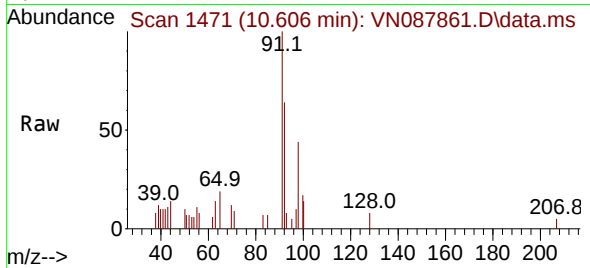




#52  
Toluene  
Concen: 0.339 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

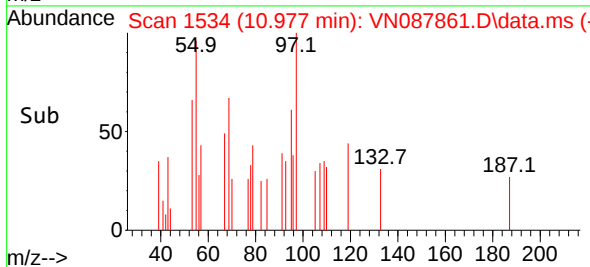
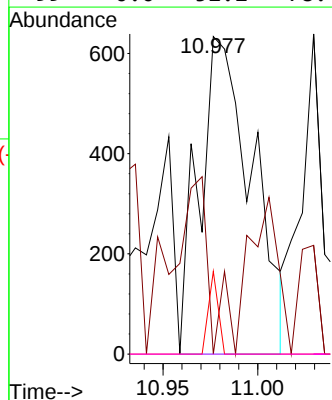
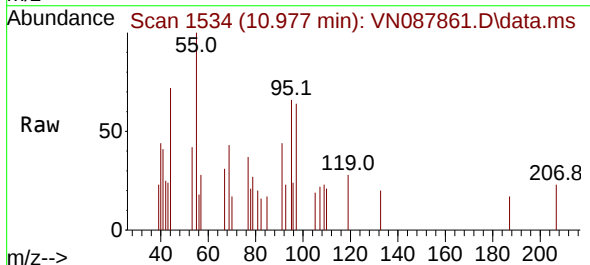
Instrument :  
MSVOA\_N  
ClientSampleId :

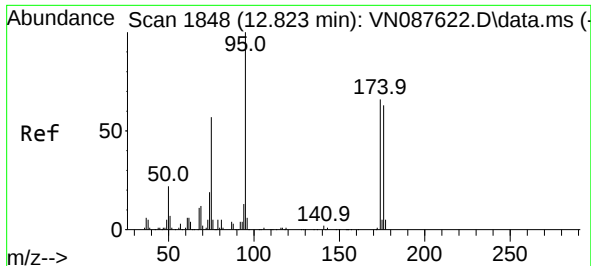
Tgt Ion: 92 Resp: 4144  
Ion Ratio Lower Upper  
92 100  
91 192.1 140.4 210.6



#55  
1,1,2-Trichloroethane  
Concen: 0.262 ug/l  
RT: 10.977 min Scan# 1534  
Delta R.T. -0.018 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion: 97 Resp: 1237  
Ion Ratio Lower Upper  
97 100  
83 0.0 68.2 102.4#  
85 26.0 45.5 68.3#  
99 0.0 52.2 78.4#

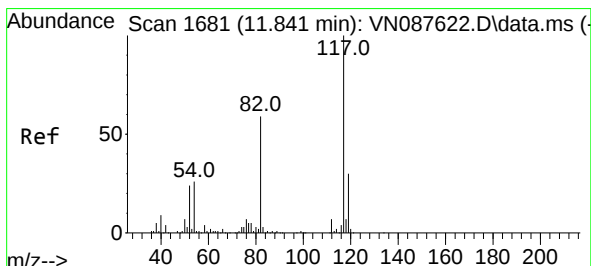
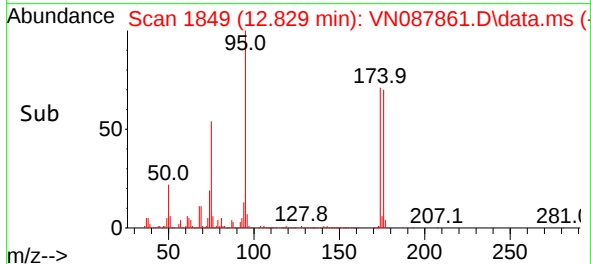
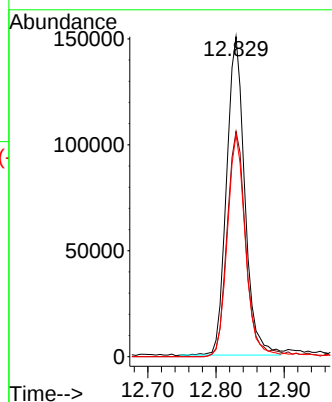
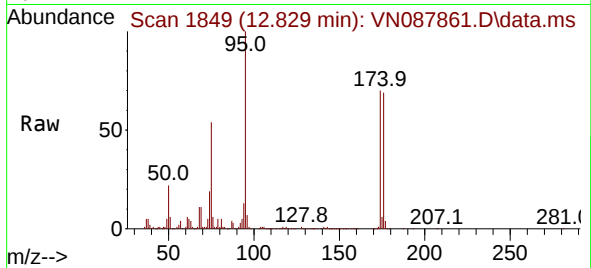




#62  
4-Bromofluorobenzene  
Concen: 50.162 ug/l  
RT: 12.829 min Scan# 1848  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

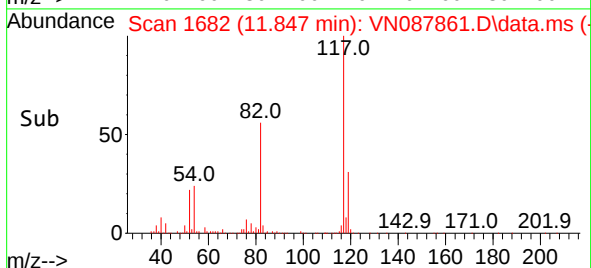
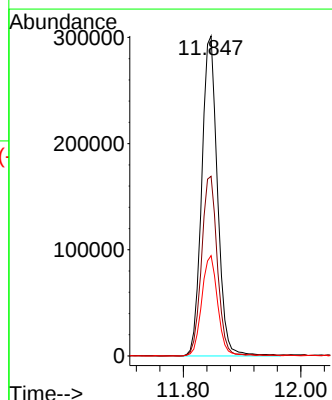
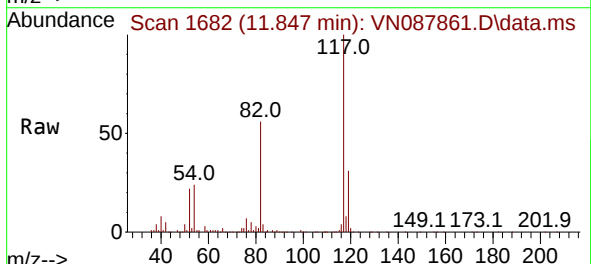
Instrument :  
MSVOA\_N  
ClientSampleId :

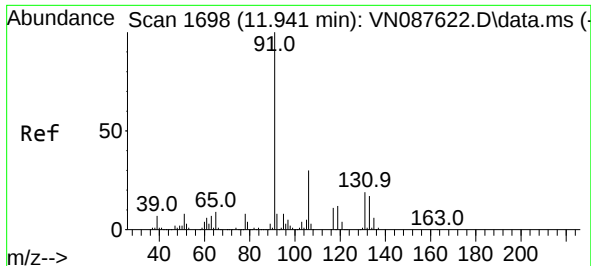
Tgt Ion: 95 Resp: 279549  
Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 138.4  
176 69.5 0.0 132.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion: 117 Resp: 559964  
Ion Ratio Lower Upper  
117 100  
82 56.2 47.4 71.2  
119 31.3 24.3 36.5

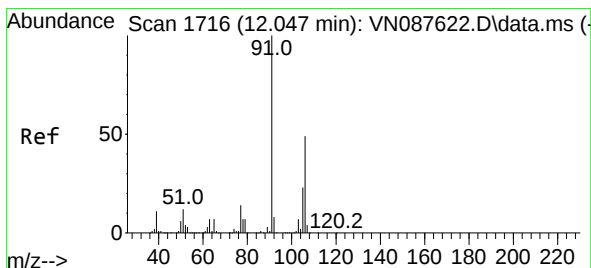
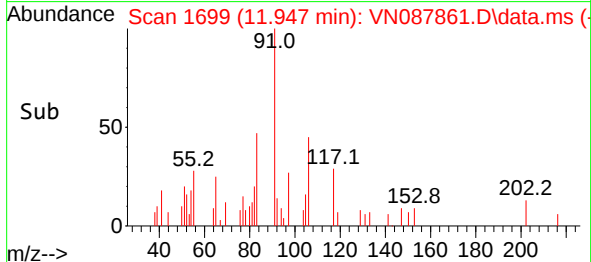
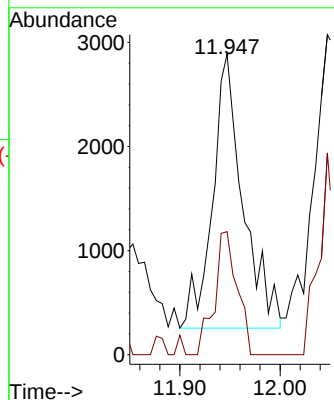
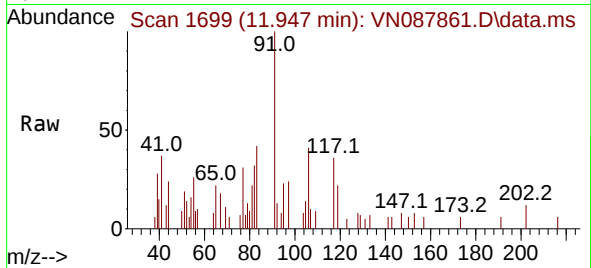




#67  
Ethyl Benzene  
Concen: 0.230 ug/l  
RT: 11.947 min Scan# 1699  
Delta R.T. 0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

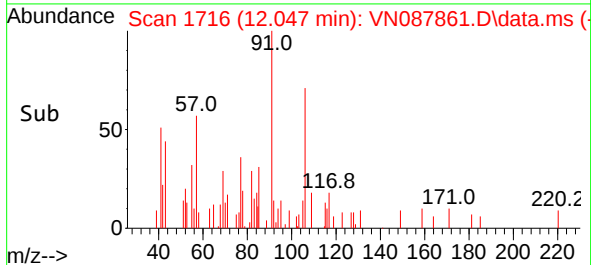
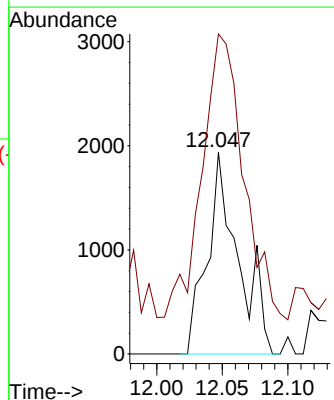
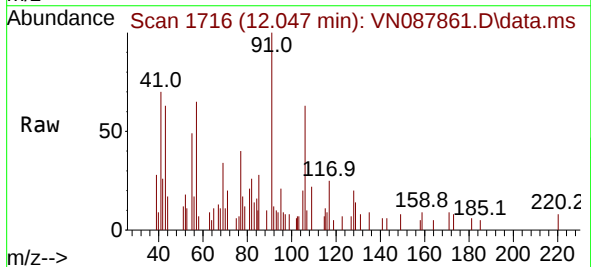
Instrument :  
MSVOA\_N  
ClientSampleId :

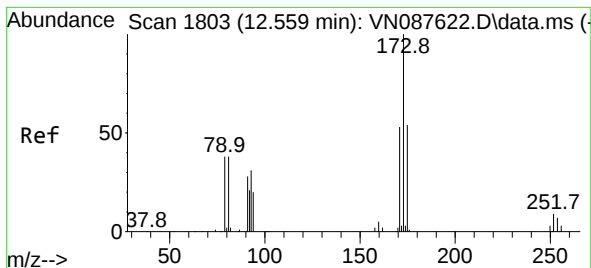
Tgt Ion: 91 Resp: 5547  
Ion Ratio Lower Upper  
91 100  
106 44.9 24.1 36.1#



#68  
m/p-Xylenes  
Concen: 0.360 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion:106 Resp: 3187  
Ion Ratio Lower Upper  
106 100  
91 190.7 169.3 253.9





#71

Bromoform

Concen: 0.272 ug/l

RT: 12.559 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VN087861.D

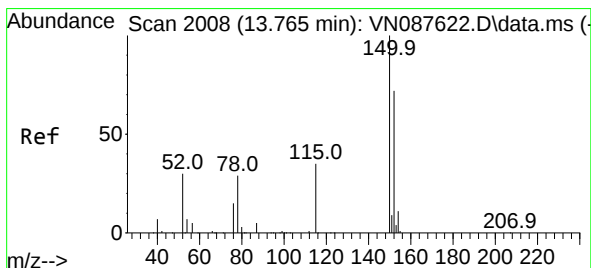
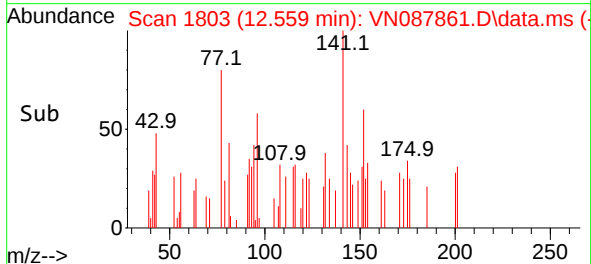
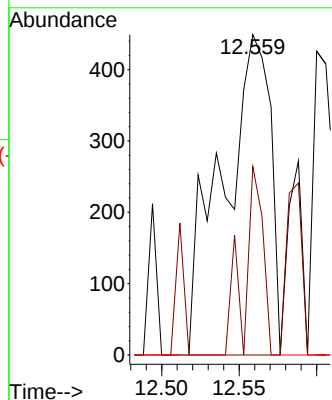
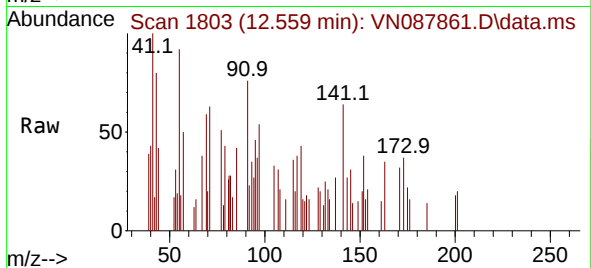
Acq: 16 Sep 2025 19:19

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:173 | Resp: | 965   |
| Ion Ratio   | Lower | Upper |
| 173         | 100   |       |
| 175         | 0.0   | 24.9  |
| 254         | 0.0   | 0.1   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

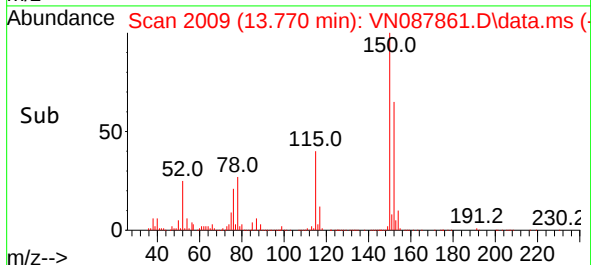
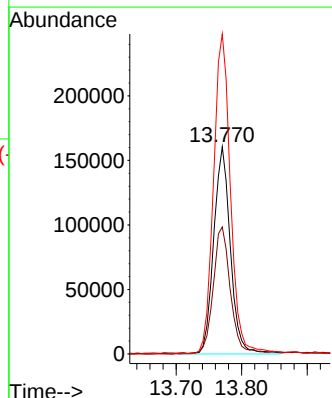
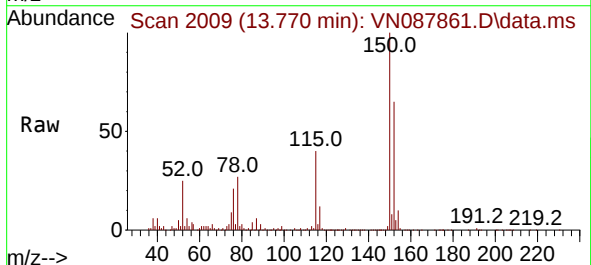
RT: 13.770 min Scan# 2009

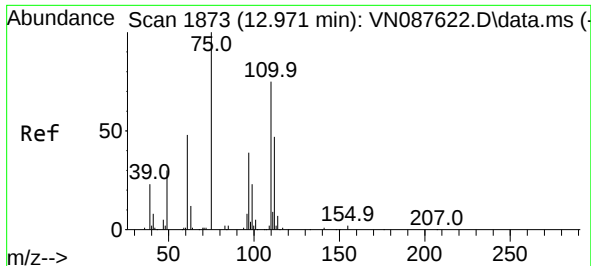
Delta R.T. 0.006 min

Lab File: VN087861.D

Acq: 16 Sep 2025 19:19

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:152 | Resp: | 283351 |
| Ion Ratio   | Lower | Upper  |
| 152         | 100   |        |
| 115         | 62.1  | 32.3   |
| 150         | 156.4 | 0.0    |

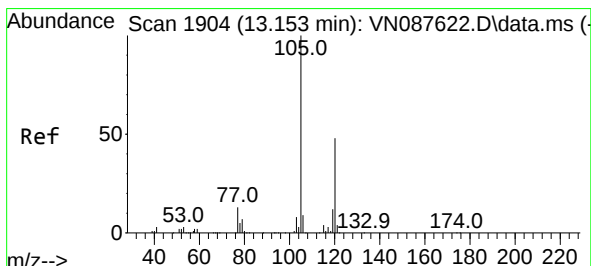
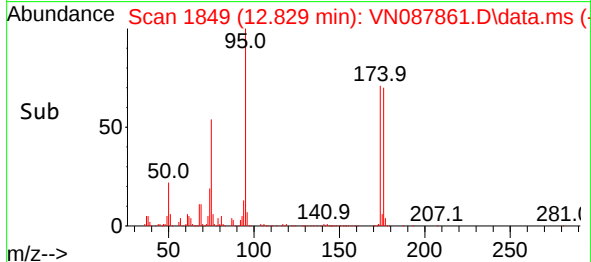
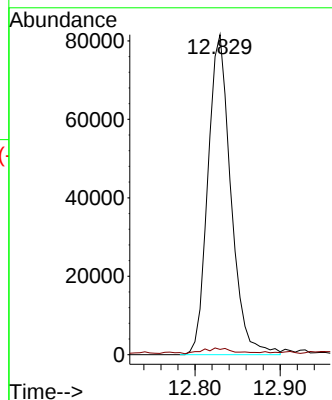
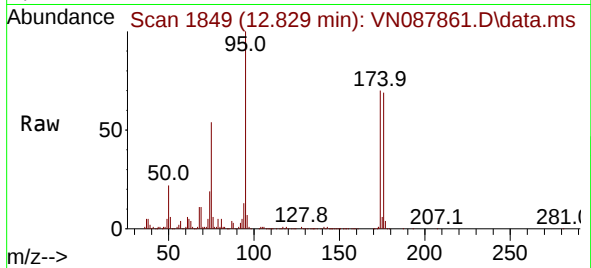




#76  
1,2,3-Trichloropropane  
Concen: 23.041 ug/l  
RT: 12.829 min Scan# 11  
Delta R.T. -0.141 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

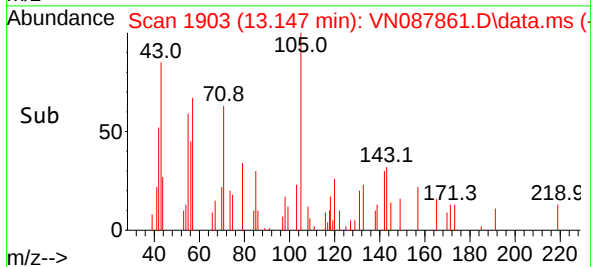
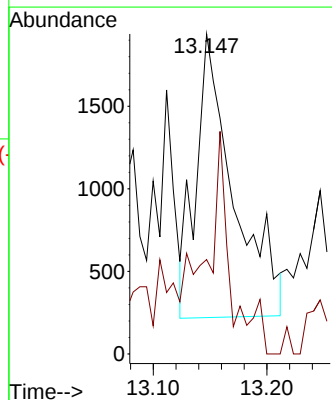
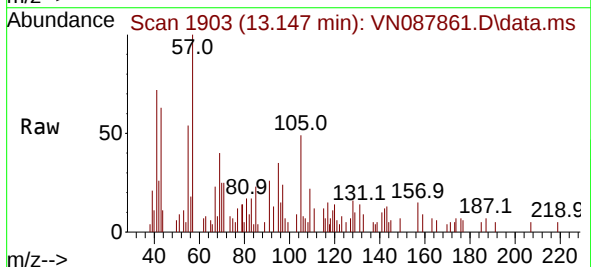
Instrument :  
MSVOA\_N  
ClientSampleId :

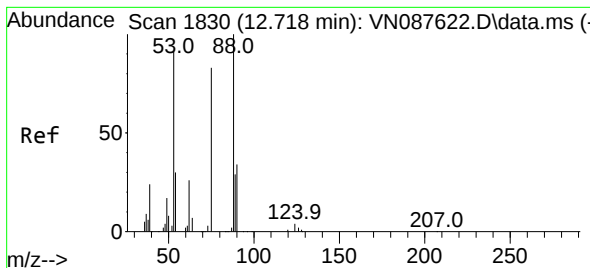
Tgt Ion: 75 Resp: 153098  
Ion Ratio Lower Upper  
75 100  
77 2.3 89.1 267.4#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.205 ug/l  
RT: 13.147 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VN087861.D  
Acq: 16 Sep 2025 19:19

Tgt Ion: 105 Resp: 3989  
Ion Ratio Lower Upper  
105 100  
120 52.0 23.2 69.6

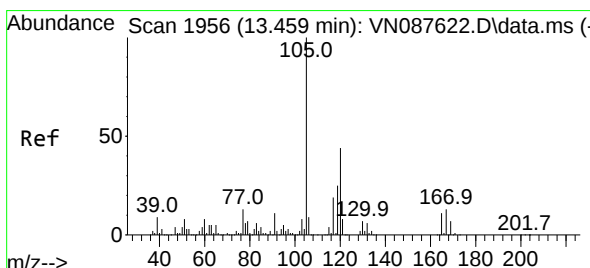
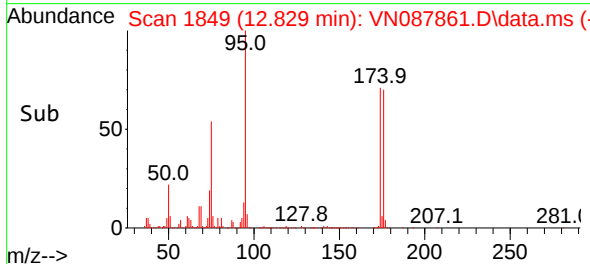
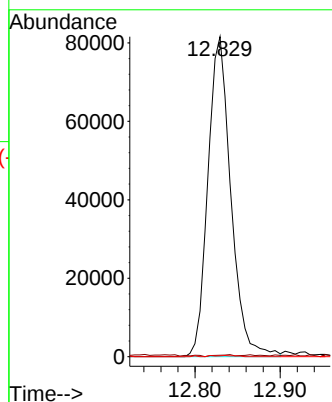
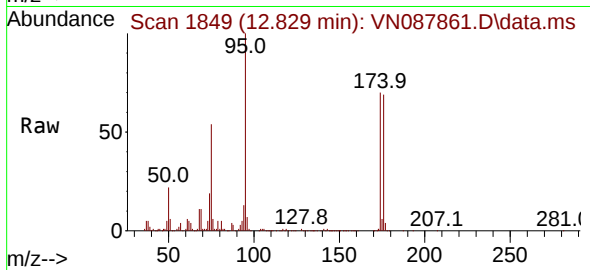




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 60.997 ug/l  
 RT: 12.829 min Scan# 1849  
 Delta R.T. 0.112 min  
 Lab File: VN087861.D  
 Acq: 16 Sep 2025 19:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion: 75 Resp: 153098  
 Ion Ratio Lower Upper  
 75 100  
 53 0.5 101.8 152.6#  
 89 0.4 35.6 53.4#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.423 ug/l  
 RT: 13.459 min Scan# 1956  
 Delta R.T. -0.000 min  
 Lab File: VN087861.D  
 Acq: 16 Sep 2025 19:19

Tgt Ion:105 Resp: 8220  
 Ion Ratio Lower Upper  
 105 100  
 120 41.5 22.0 66.0

