

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061725\  
 Data File : VN087061.D  
 Acq On : 17 Jun 2025 15:47  
 Operator : JC\MD  
 Sample : Q2320-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC

Quant Time: Jun 18 01:49:59 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

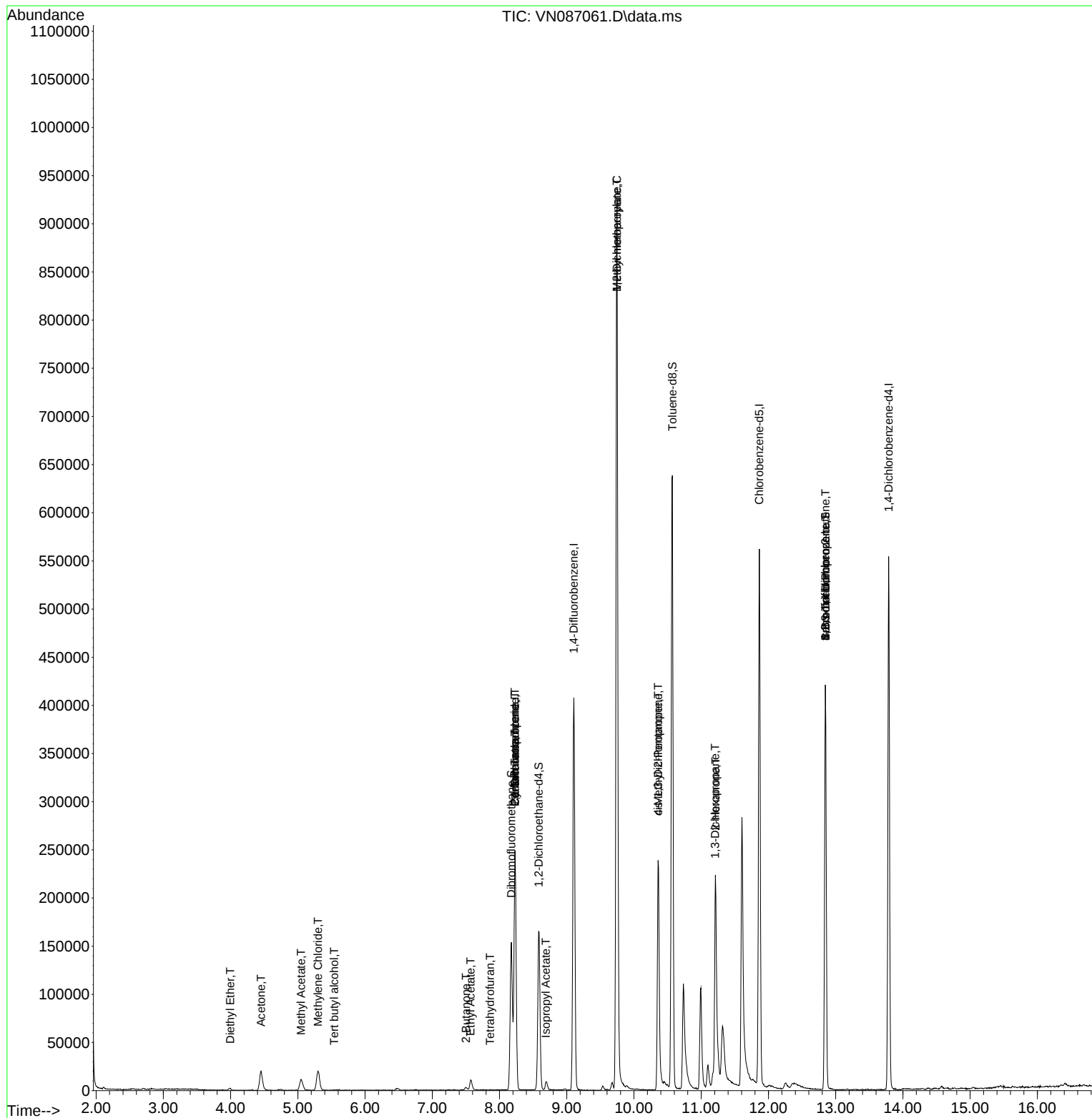
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 195874   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 390146   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 350367   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 166331   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 135617   | 51.712   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 103.420% |          |
| 35) Dibromofluoromethane      | 8.177  | 113   | 116277   | 50.291   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 100.580% |          |
| 50) Toluene-d8                | 10.571 | 98    | 477810   | 52.203   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 104.400% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 167714   | 49.319   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 98.640%  |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 8) Diethyl Ether              | 3.995  | 74    | 1326     | 0.895    | ug/l       | 89       |
| 11) Tert butyl alcohol        | 5.542  | 59    | 189      | 0.266    | ug/l #     | 73       |
| 16) Acetone                   | 4.453  | 43    | 37986    | 27.313   | ug/l       | 92       |
| 18) Methyl Acetate            | 5.047  | 43    | 25284    | 6.239    | ug/l       | 99       |
| 20) Methylene Chloride        | 5.300  | 84    | 18024    | 6.922    | ug/l       | 93       |
| 25) 2-Butanone                | 7.500  | 43    | 4913     | 2.173    | ug/l       | 91       |
| 29) Tetrahydrofuran           | 7.859  | 42    | 301      | 0.204    | ug/l #     | 45       |
| 31) Cyclohexane               | 8.230  | 56    | 3299     | 0.776    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 14545    | 4.222    | ug/l #     | 48       |
| 37) Ethyl Acetate             | 7.571  | 43    | 16391    | 3.737    | ug/l       | 98       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 18562    | 5.488    | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 10650    | 1.513    | ug/l       | 94       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1341     | 0.489    | ug/l #     | 43       |
| 48) Methyl methacrylate       | 9.747  | 41    | 76139    | 23.500   | ug/l #     | 35       |
| 51) 4-Methyl-2-Pentanone      | 10.359 | 43    | 93222    | 21.998   | ug/l #     | 45       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 59048    | 13.176   | ug/l #     | 54       |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 3506     | 0.763    | ug/l #     | 43       |
| 59) 2-Hexanone                | 11.212 | 43    | 32839    | 12.030   | ug/l #     | 57       |
| 71) Bromoform                 | 12.847 | 173   | 996      | 0.541    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 78374    | 19.823   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 78374    | 45.631   | ug/l #     | 16       |

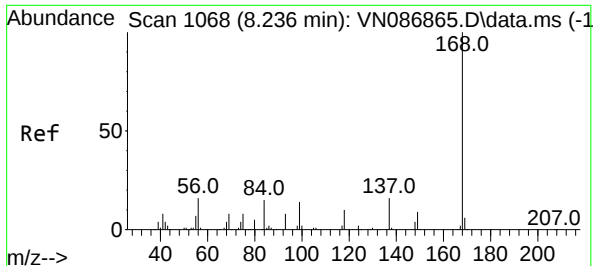
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

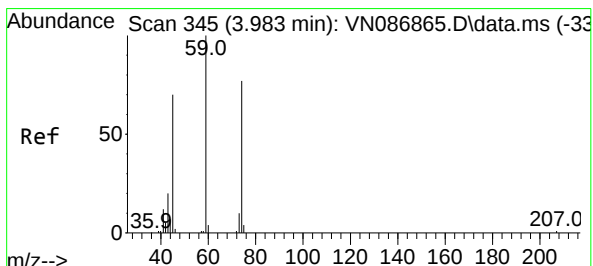
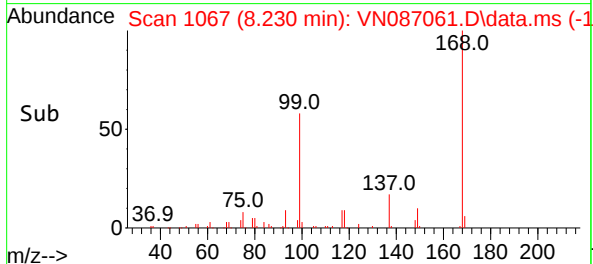
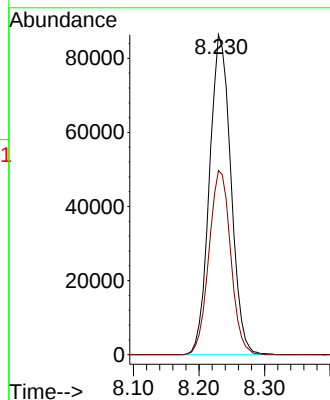
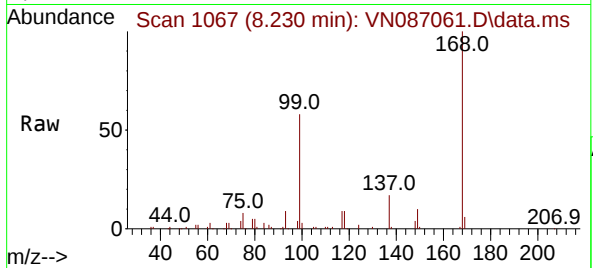




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

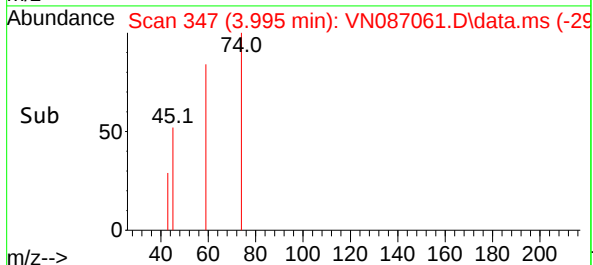
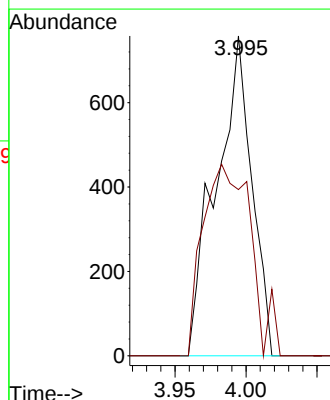
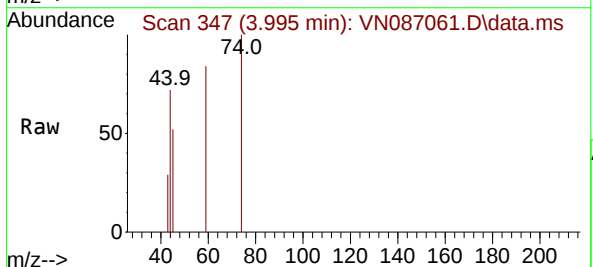
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC

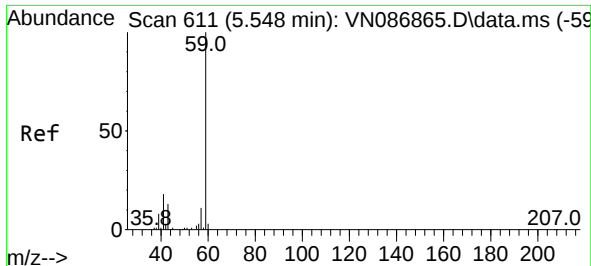
Tgt Ion:168 Resp: 195874  
Ion Ratio Lower Upper  
168 100  
99 57.6 49.1 73.7



#8  
Diethyl Ether  
Concen: 0.895 ug/l  
RT: 3.995 min Scan# 347  
Delta R.T. 0.012 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 74 Resp: 1326  
Ion Ratio Lower Upper  
74 100  
45 80.7 45.5 136.5

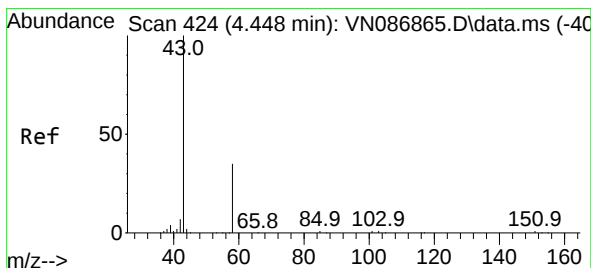
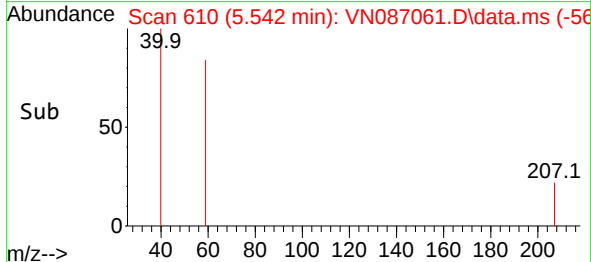
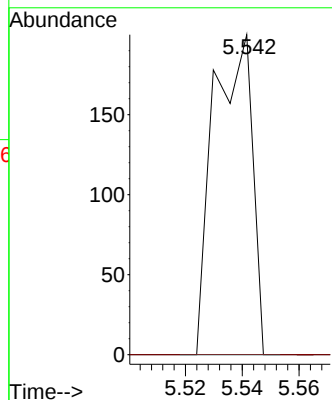
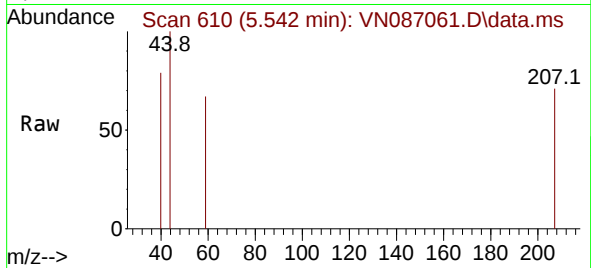




#11  
Tert butyl alcohol  
Concen: 0.266 ug/l  
RT: 5.542 min Scan# 611  
Delta R.T. -0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

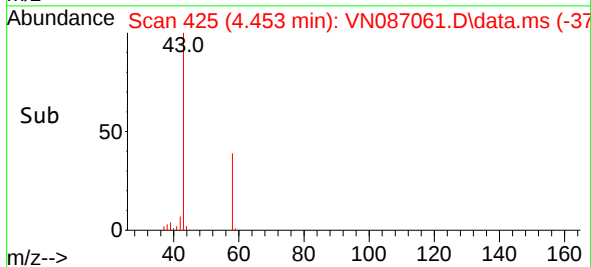
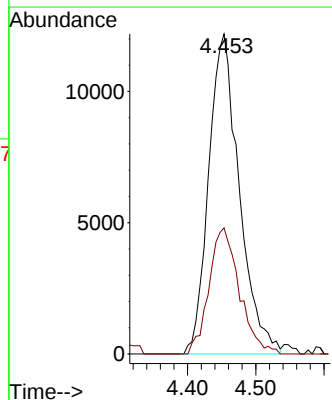
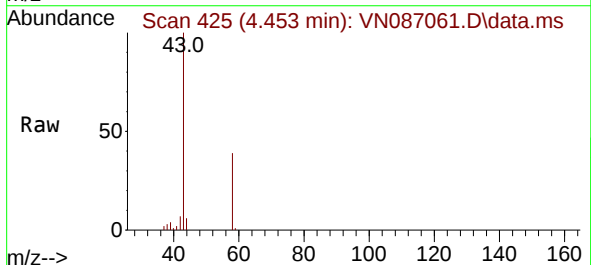
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC

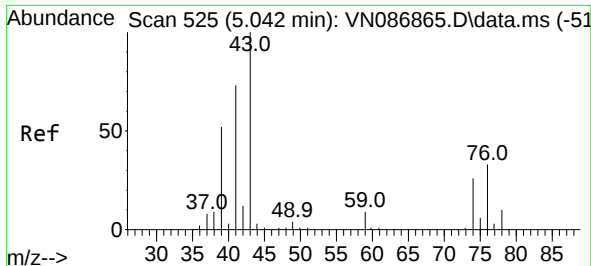
Tgt Ion: 59 Resp: 189  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#



#16  
Acetone  
Concen: 27.313 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 43 Resp: 37986  
Ion Ratio Lower Upper  
43 100  
58 39.4 28.0 42.0

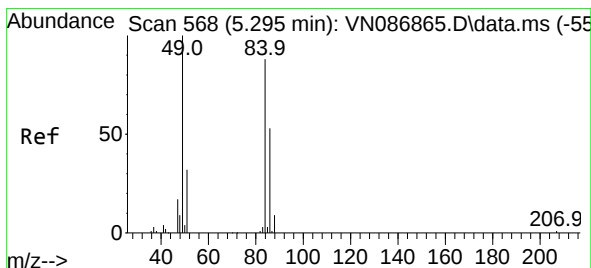
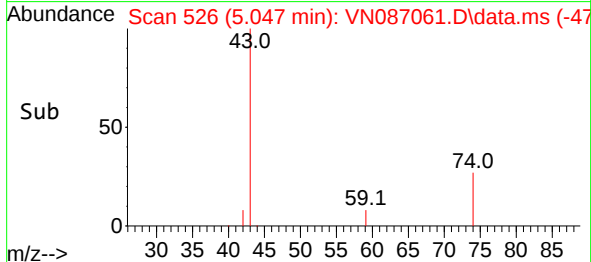
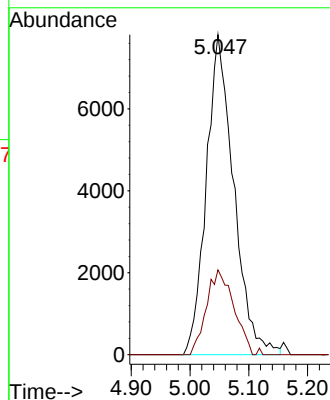
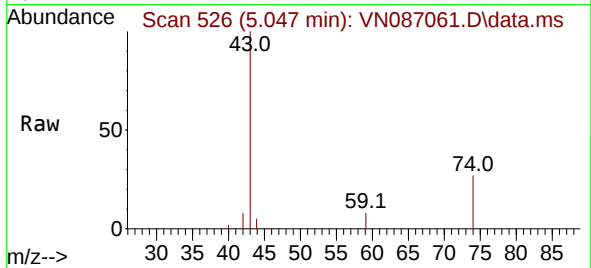




#18  
Methyl Acetate  
Concen: 6.239 ug/l  
RT: 5.047 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

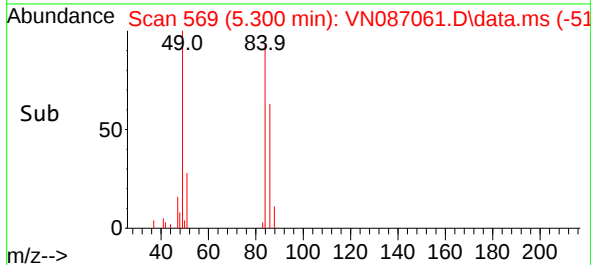
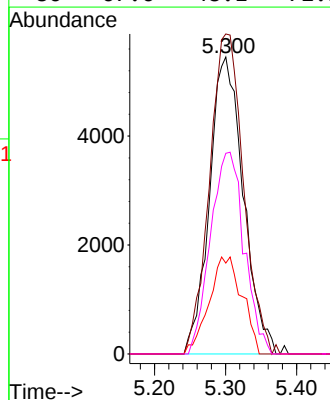
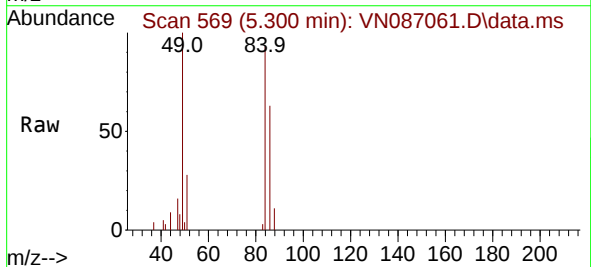
Instrument :  
MSVOA\_N  
ClientSampleId :  
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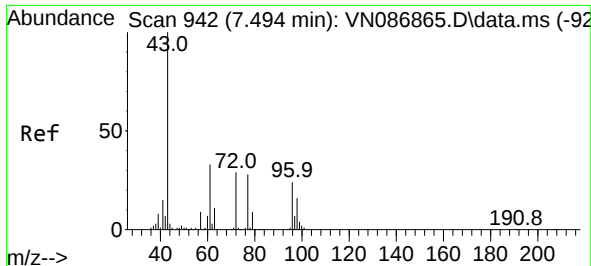
Tgt Ion: 43 Resp: 25284  
Ion Ratio Lower Upper  
43 100  
74 26.3 20.7 31.1



#20  
Methylene Chloride  
Concen: 6.922 ug/l  
RT: 5.300 min Scan# 569  
Delta R.T. 0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 84 Resp: 18024  
Ion Ratio Lower Upper  
84 100  
49 107.8 90.5 135.7  
51 30.6 28.5 42.7  
86 67.6 48.1 72.1

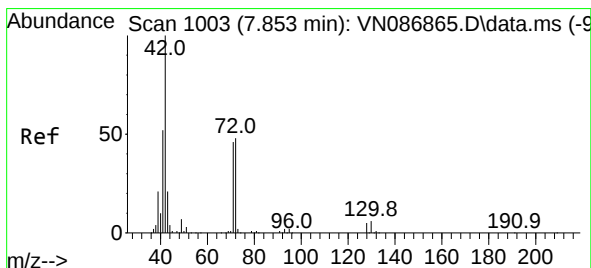
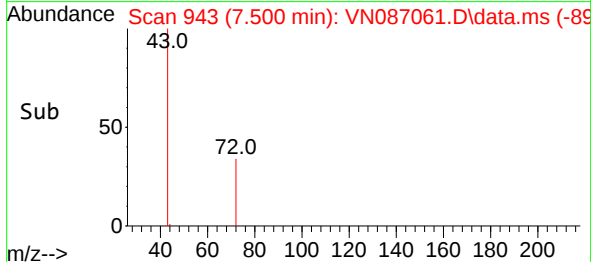
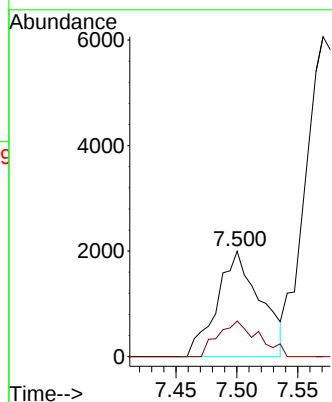
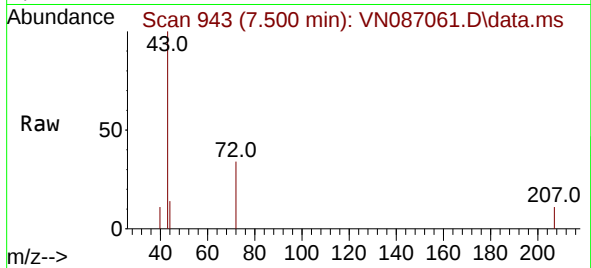




#25  
2-Butanone  
Concen: 2.173 ug/l  
RT: 7.500 min Scan# 94  
Delta R.T. 0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

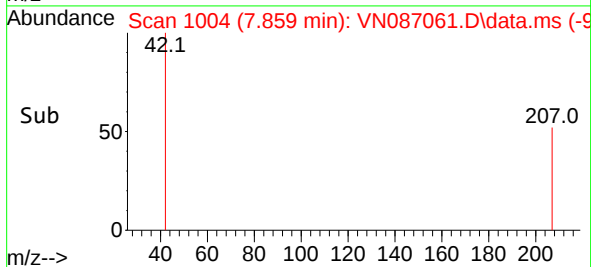
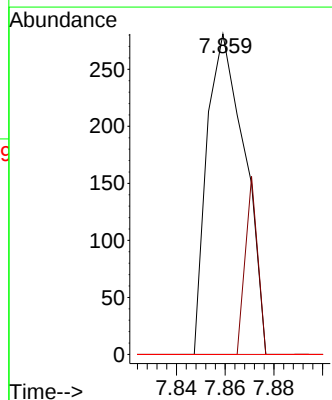
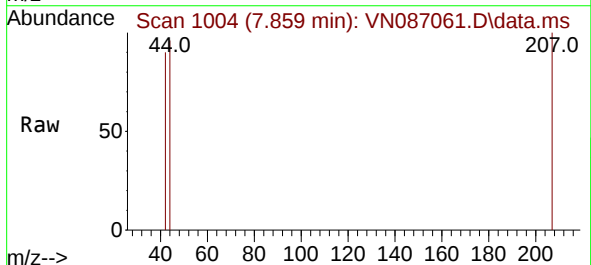
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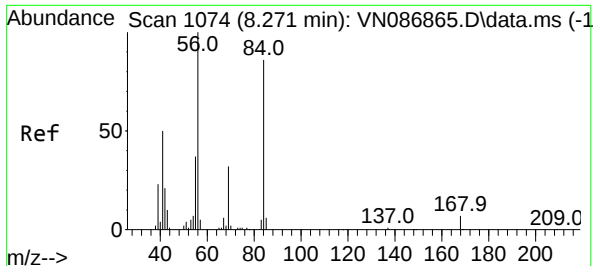
Tgt Ion: 43 Resp: 4913  
Ion Ratio Lower Upper  
43 100  
72 33.8 23.0 34.6



#29  
Tetrahydrofuran  
Concen: 0.204 ug/l  
RT: 7.859 min Scan# 1004  
Delta R.T. 0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 42 Resp: 301  
Ion Ratio Lower Upper  
42 100  
72 18.3 37.8 56.6#  
71 0.0 35.6 53.4#

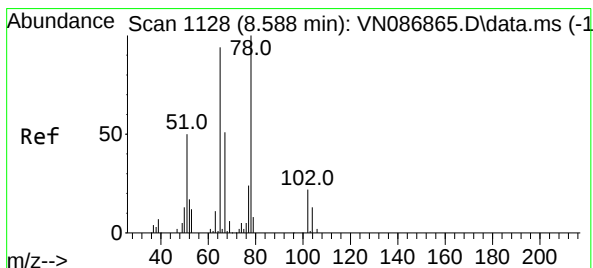
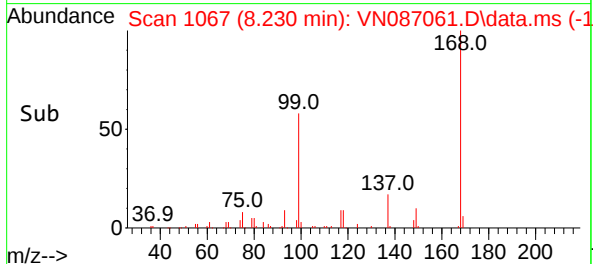
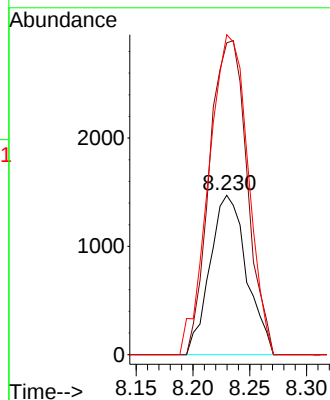
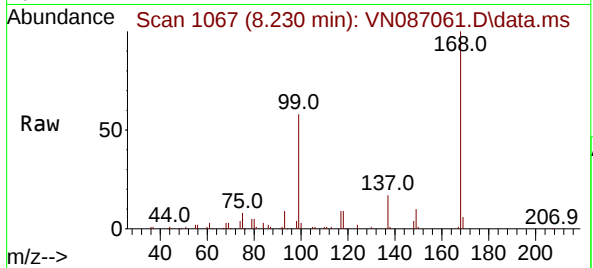




#31  
Cyclohexane  
Concen: 0.776 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.041 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

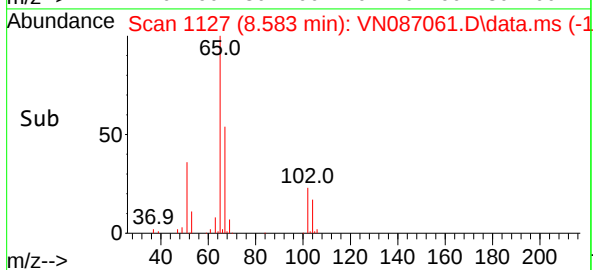
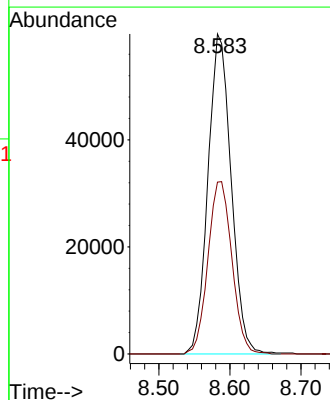
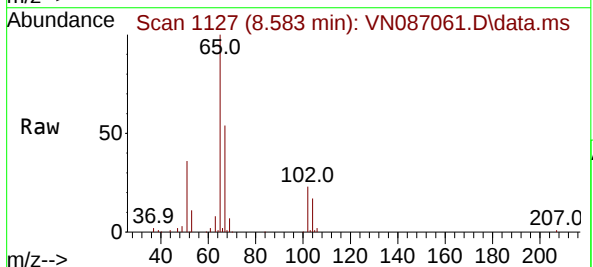
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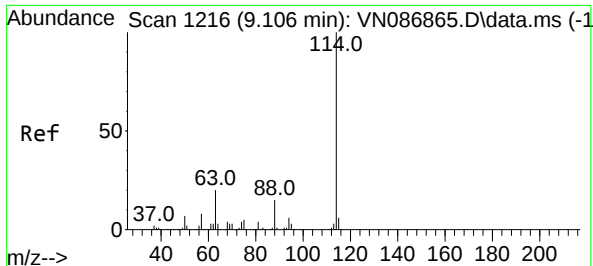
Tgt Ion: 56 Resp: 3299  
Ion Ratio Lower Upper  
56 100  
69 195.6 25.4 38.0#  
84 200.7 68.8 103.2#



#33  
1,2-Dichloroethane-d4  
Concen: 51.712 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 65 Resp: 135617  
Ion Ratio Lower Upper  
65 100  
67 55.6 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087061.D

Acq: 17 Jun 2025 15:47

Instrument :

MSVOA\_N

ClientSampleId :

WC

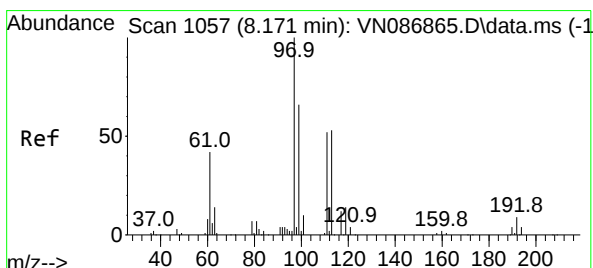
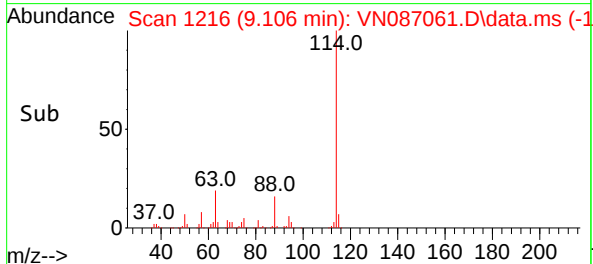
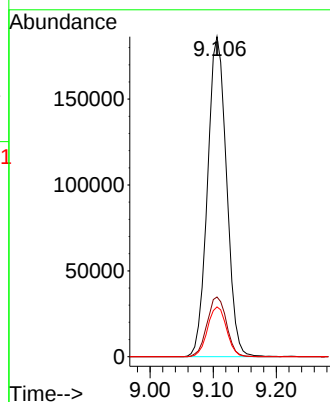
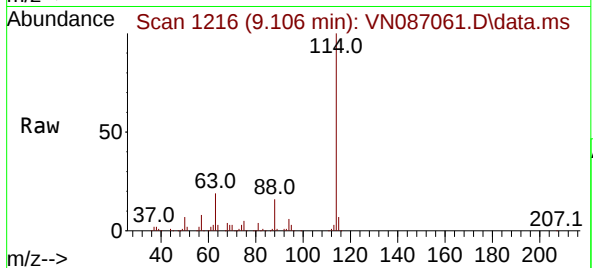
Tgt Ion:114 Resp: 390146

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.6

88 15.6 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.291 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087061.D

Acq: 17 Jun 2025 15:47

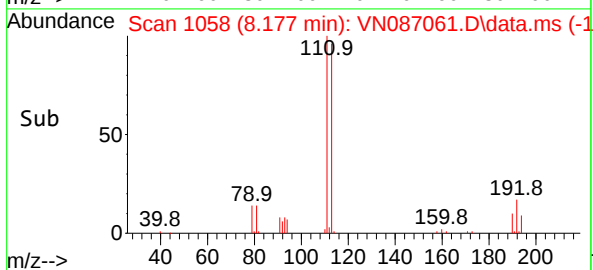
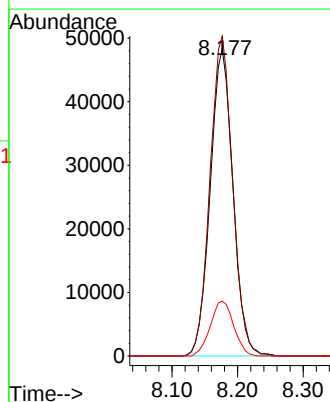
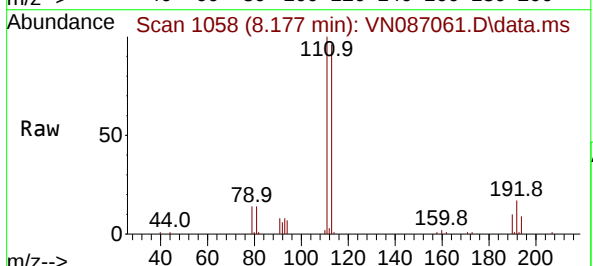
Tgt Ion:113 Resp: 116277

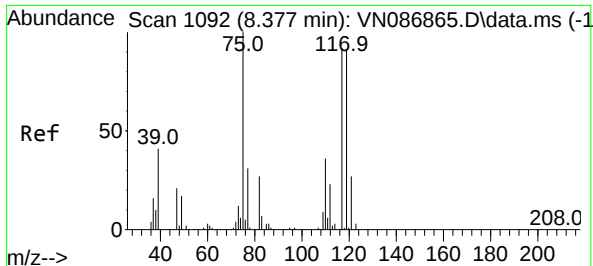
Ion Ratio Lower Upper

113 100

111 103.7 84.2 126.2

192 18.3 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.222 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN087061.D

Acq: 17 Jun 2025 15:47

Instrument :

MSVOA\_N

ClientSampleId :

WC

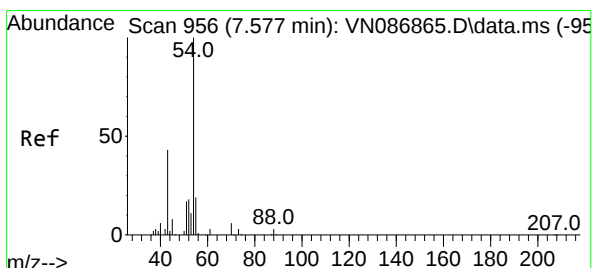
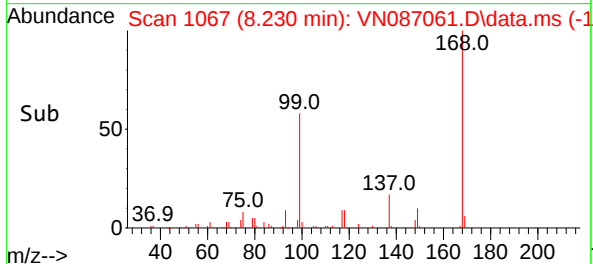
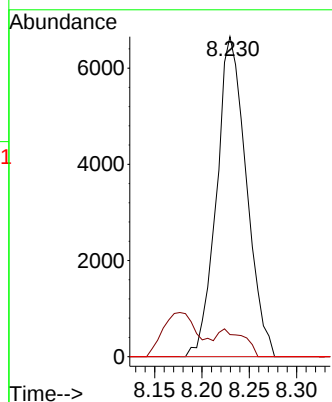
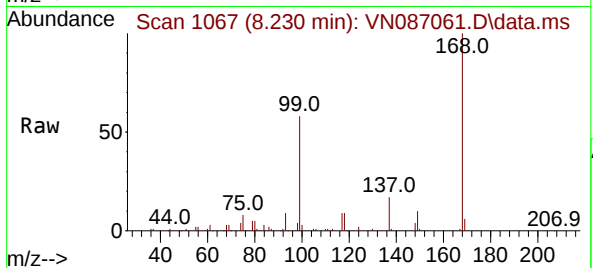
Tgt Ion: 75 Resp: 14545

Ion Ratio Lower Upper

75 100

110 7.5 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 3.737 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.006 min

Lab File: VN087061.D

Acq: 17 Jun 2025 15:47

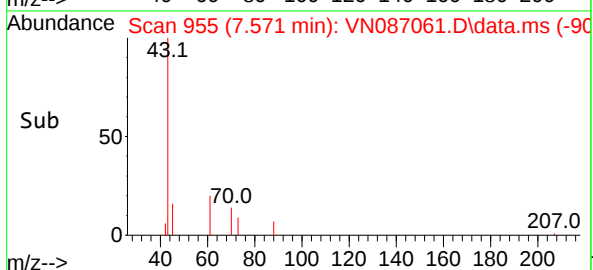
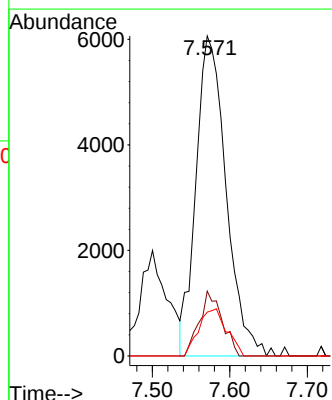
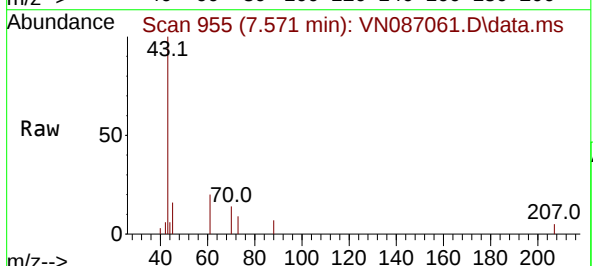
Tgt Ion: 43 Resp: 16391

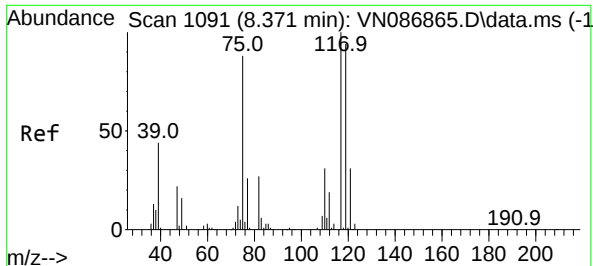
Ion Ratio Lower Upper

43 100

61 15.3 12.1 18.1

70 13.6 9.8 14.6

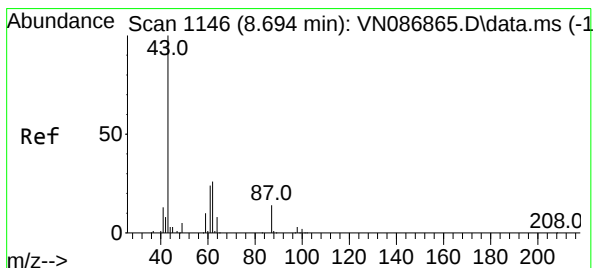
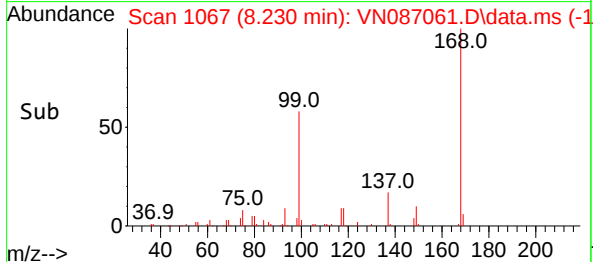
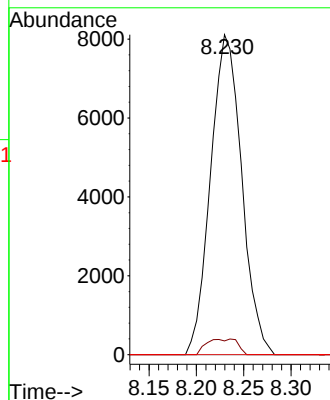
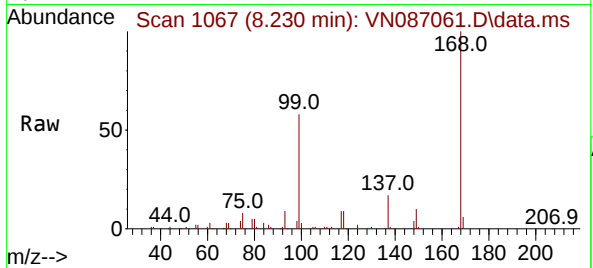




#38  
Carbon Tetrachloride  
Concen: 5.488 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

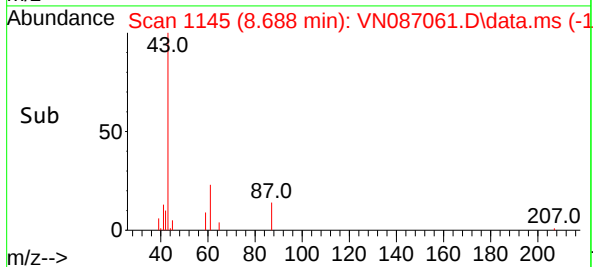
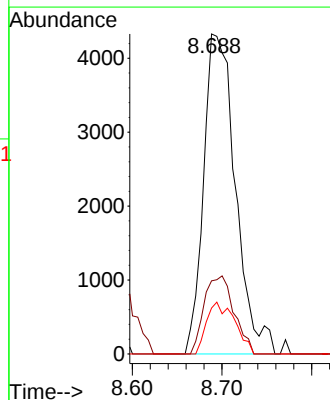
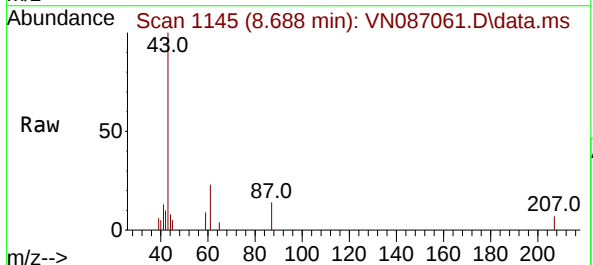
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC

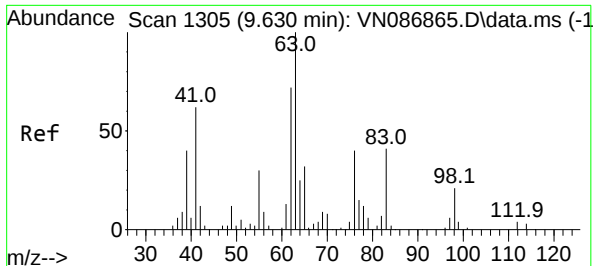
Tgt Ion:117 Resp: 18562  
Ion Ratio Lower Upper  
117 100  
119 4.3 75.0 112.6#  
121 0.0 24.9 37.3#



#43  
Isopropyl Acetate  
Concen: 1.513 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. -0.006 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 43 Resp: 10650  
Ion Ratio Lower Upper  
43 100  
61 22.9 22.1 33.1  
87 14.4 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.489 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.118 min

Lab File: VN087061.D

Acq: 17 Jun 2025 15:47

Instrument :

MSVOA\_N

ClientSampleId :

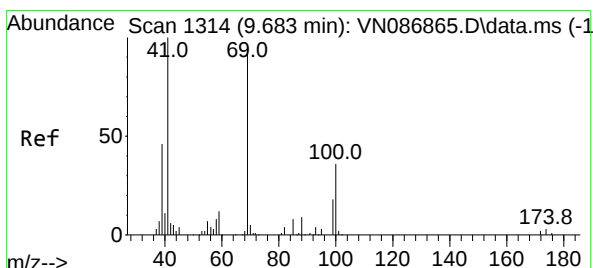
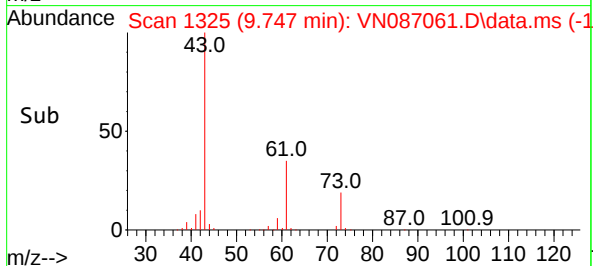
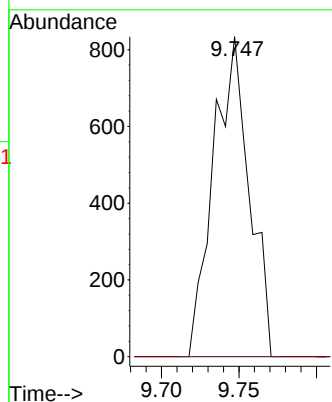
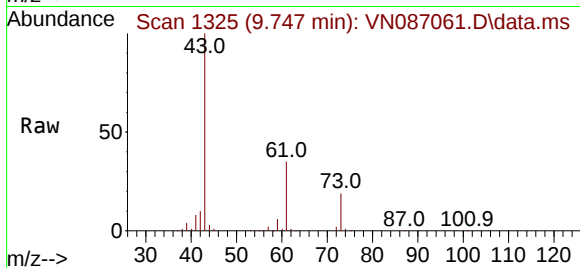
WC

Tgt Ion: 63 Resp: 1341

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 23.500 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087061.D

Acq: 17 Jun 2025 15:47

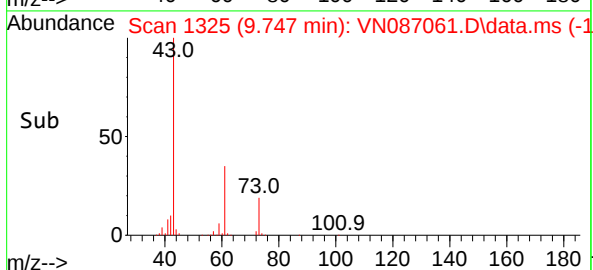
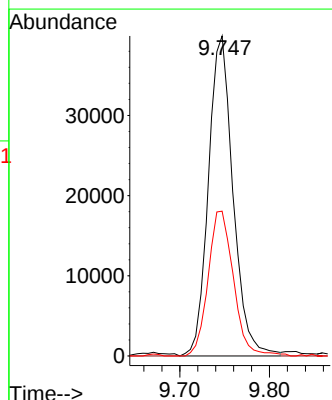
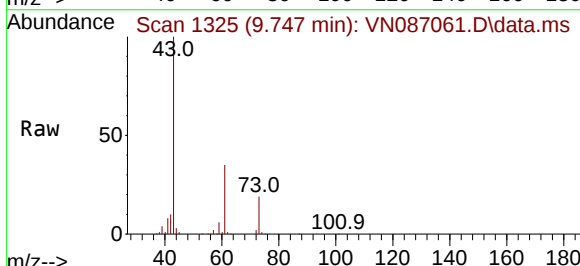
Tgt Ion: 41 Resp: 76139

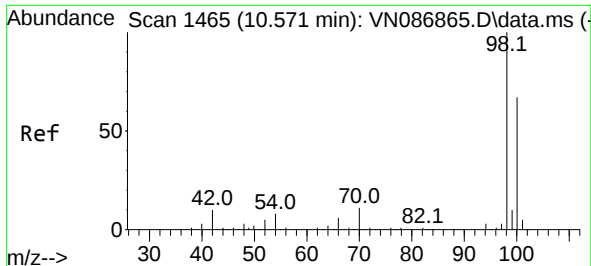
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 46.6 40.2 60.4

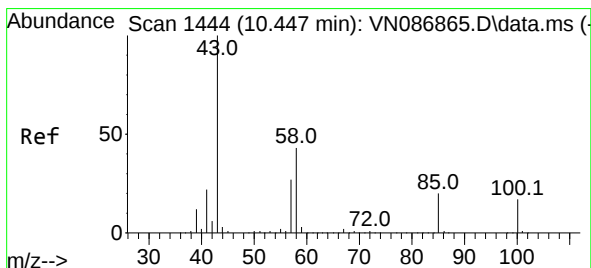
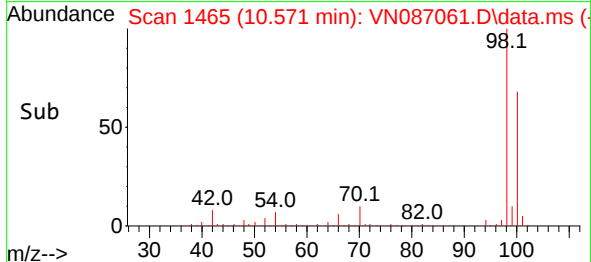
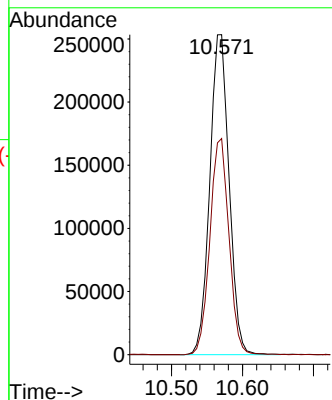
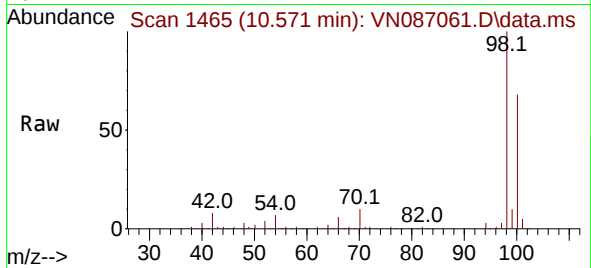




#50  
Toluene-d8  
Concen: 52.203 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

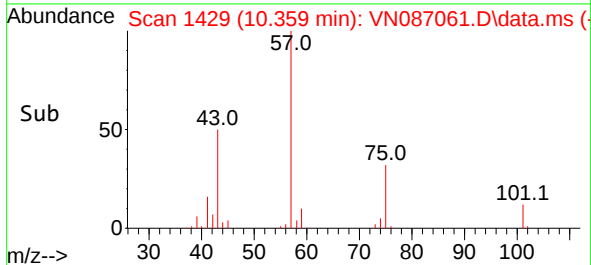
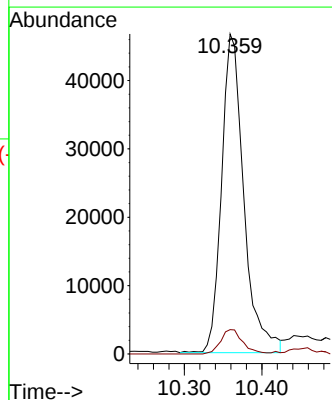
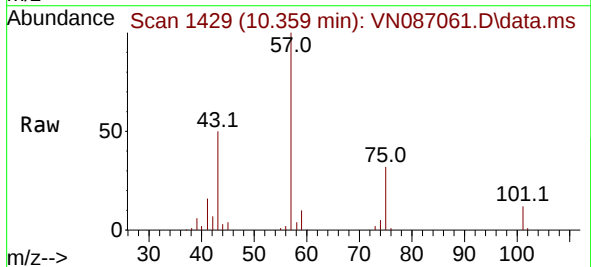
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MSVOA\_N  
ClientSampleId :  
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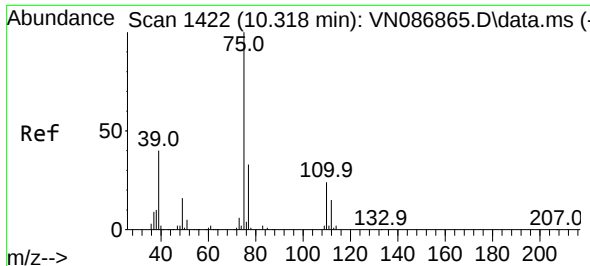
Tgt Ion: 98 Resp: 477810  
Ion Ratio Lower Upper  
98 100  
100 66.7 53.4 80.0



#51  
4-Methyl-2-Pentanone  
Concen: 21.998 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. -0.088 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 43 Resp: 93222  
Ion Ratio Lower Upper  
43 100  
58 7.6 34.2 51.4#

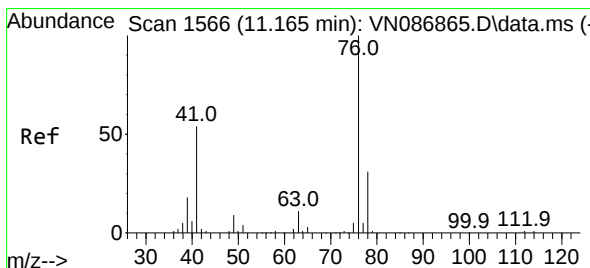
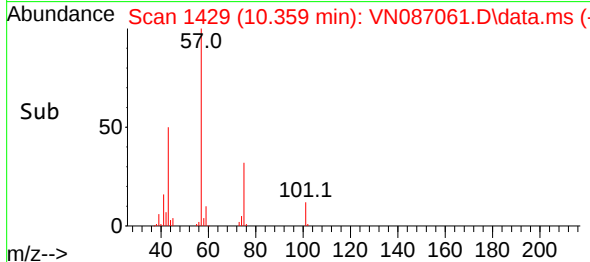
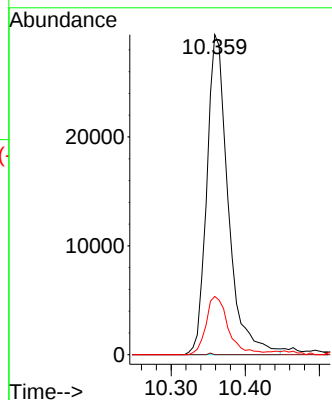
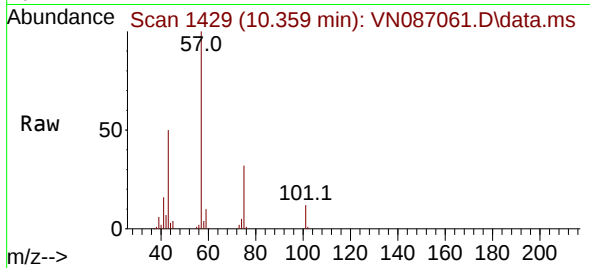




#54  
 cis-1,3-Dichloropropene  
 Concen: 13.176 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.041 min  
 Lab File: VN087061.D  
 Acq: 17 Jun 2025 15:47

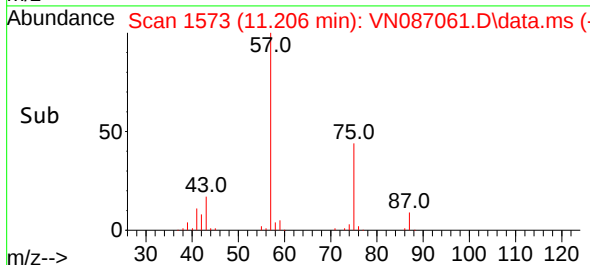
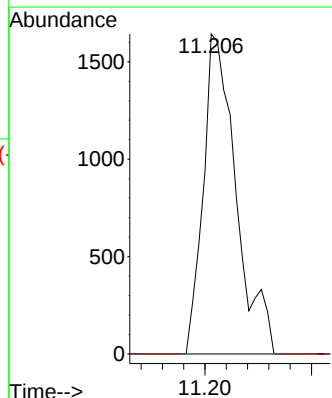
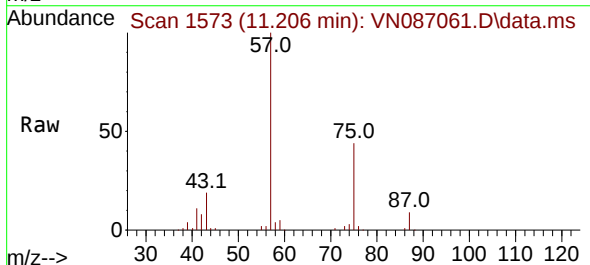
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC

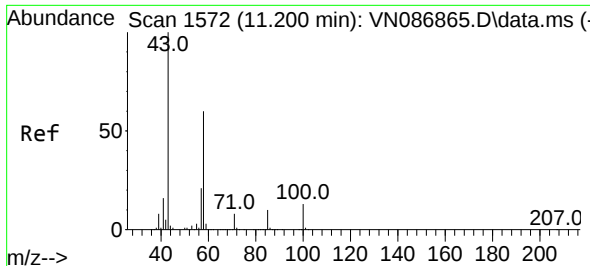
Tgt Ion: 75 Resp: 59048  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.2 39.4#  
 39 17.7 32.3 48.5#



#57  
 1,3-Dichloropropane  
 Concen: 0.763 ug/l  
 RT: 11.206 min Scan# 1573  
 Delta R.T. 0.041 min  
 Lab File: VN087061.D  
 Acq: 17 Jun 2025 15:47

Tgt Ion: 76 Resp: 3506  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.3 37.9#

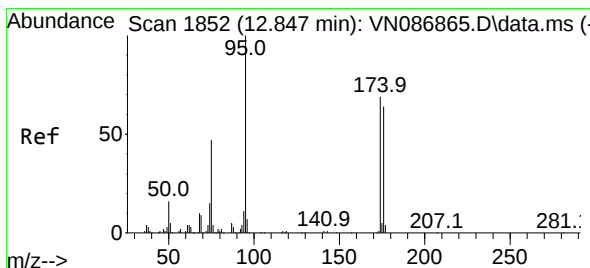
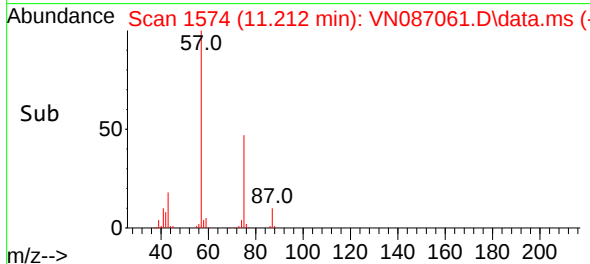
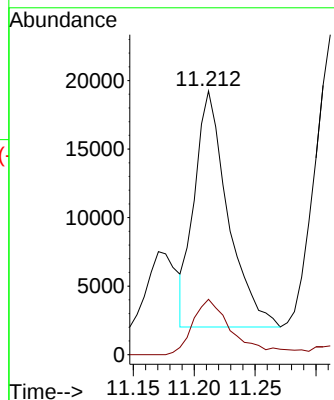
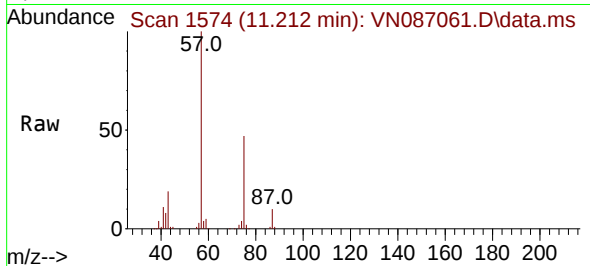




#59  
2-Hexanone  
Concen: 12.030 ug/l  
RT: 11.212 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

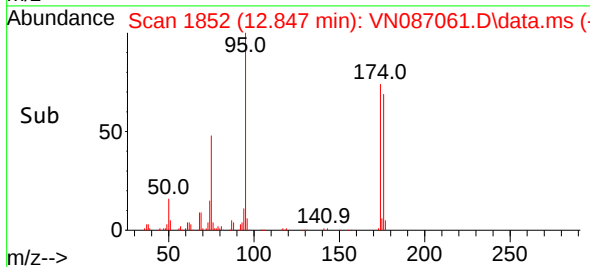
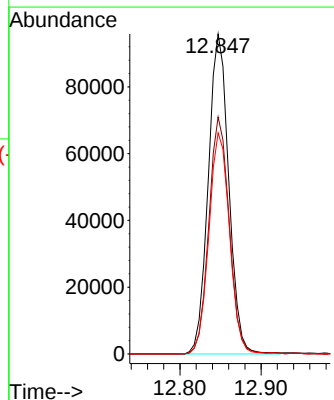
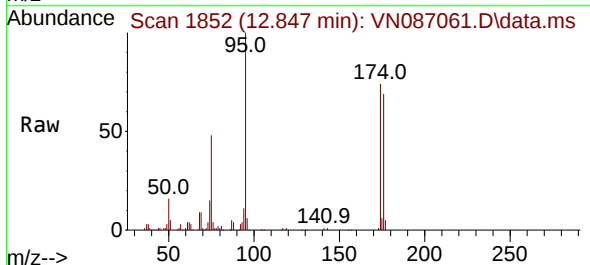
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC

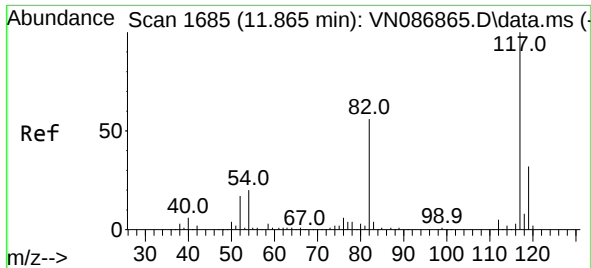
Tgt Ion: 43 Resp: 32839  
Ion Ratio Lower Upper  
43 100  
58 27.8 30.4 91.3#



#62  
4-Bromofluorobenzene  
Concen: 49.319 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion: 95 Resp: 167714  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 141.8  
176 69.5 0.0 132.6

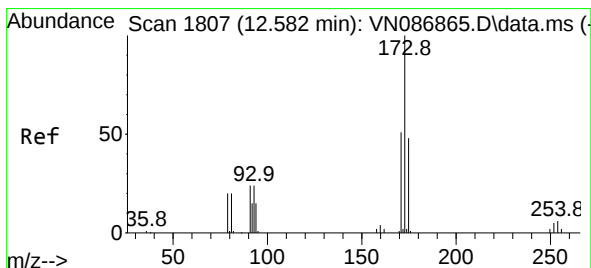
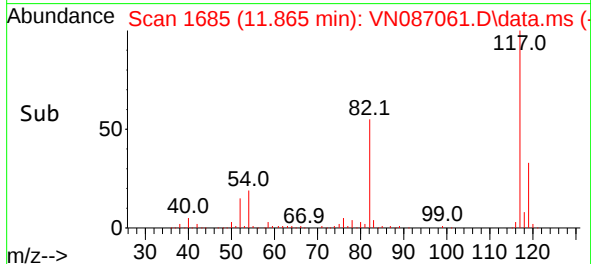
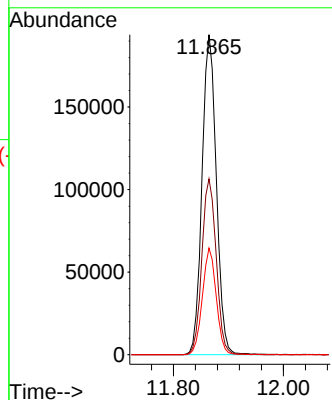
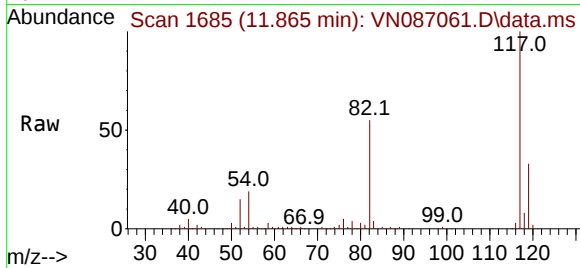




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

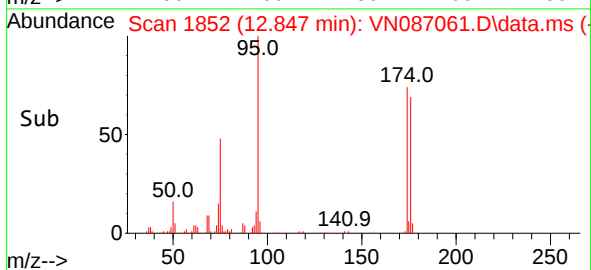
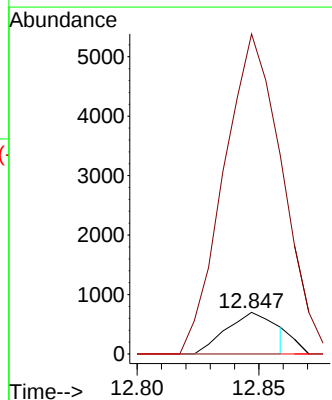
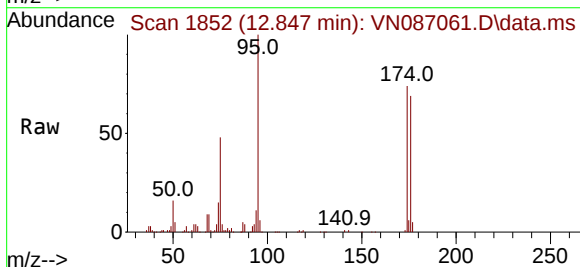
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MSVOA\_N  
ClientSampleId :  
WC

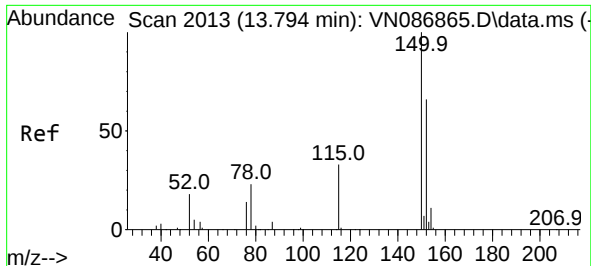
Tgt Ion:117 Resp: 350367  
Ion Ratio Lower Upper  
117 100  
82 54.9 44.6 67.0  
119 33.3 25.5 38.3



#71  
Bromoform  
Concen: 0.541 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN087061.D  
Acq: 17 Jun 2025 15:47

Tgt Ion:173 Resp: 996  
Ion Ratio Lower Upper  
173 100  
175 804.7 24.1 72.4#  
254 0.0 0.0 0.0

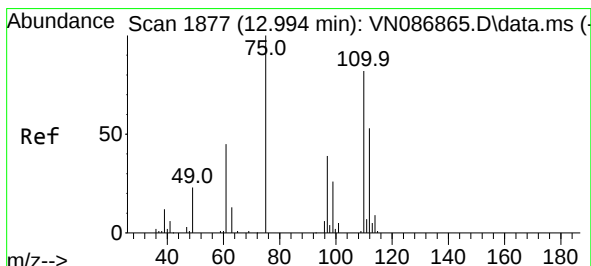
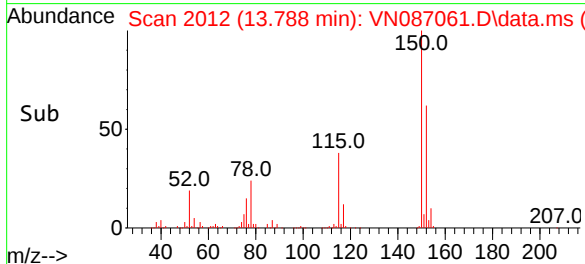
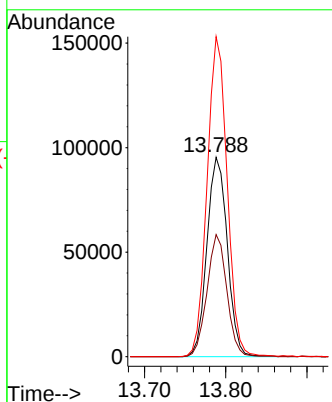
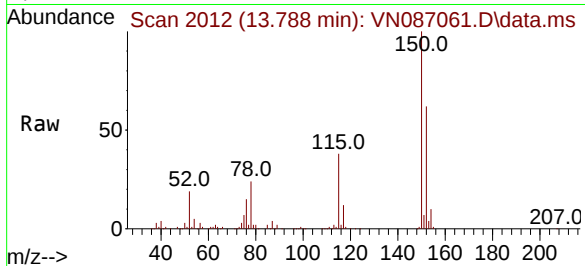




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VN087061.D  
 Acq: 17 Jun 2025 15:47

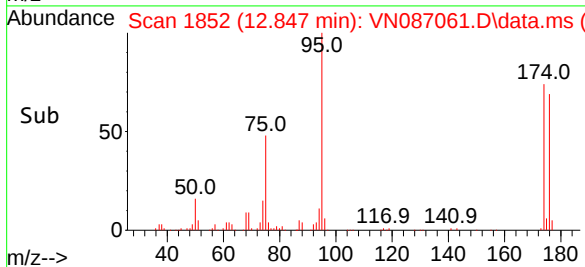
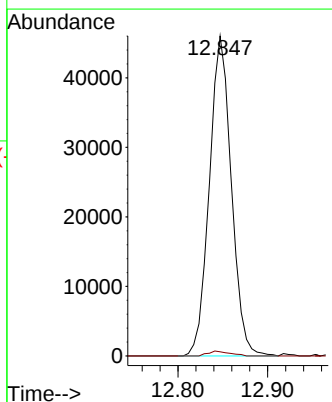
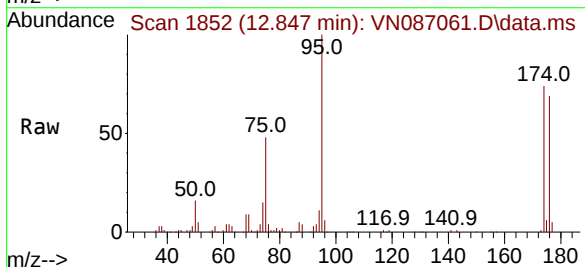
Instrument :  
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 ClientSampleId :  
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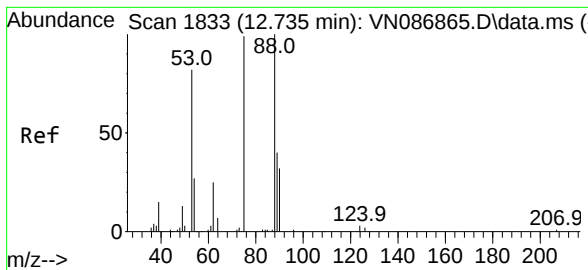
Tgt Ion:152 Resp: 166331  
 Ion Ratio Lower Upper  
 152 100  
 115 59.7 30.1 90.5  
 150 157.5 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 19.823 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN087061.D  
 Acq: 17 Jun 2025 15:47

Tgt Ion: 75 Resp: 78374  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 79.3 237.9#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 45.631 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN087061.D  
 Acq: 17 Jun 2025 15:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC

Tgt Ion: 75 Resp: 78374  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 66.6 99.8#  
 89 0.0 36.7 55.1#

