

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120425\  
 Data File : VN088445.D  
 Acq On : 04 Dec 2025 15:06  
 Operator : JC\MD  
 Sample : Q3756-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112425W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 25 01:34:52 2025  
 Response via : Initial Calibration

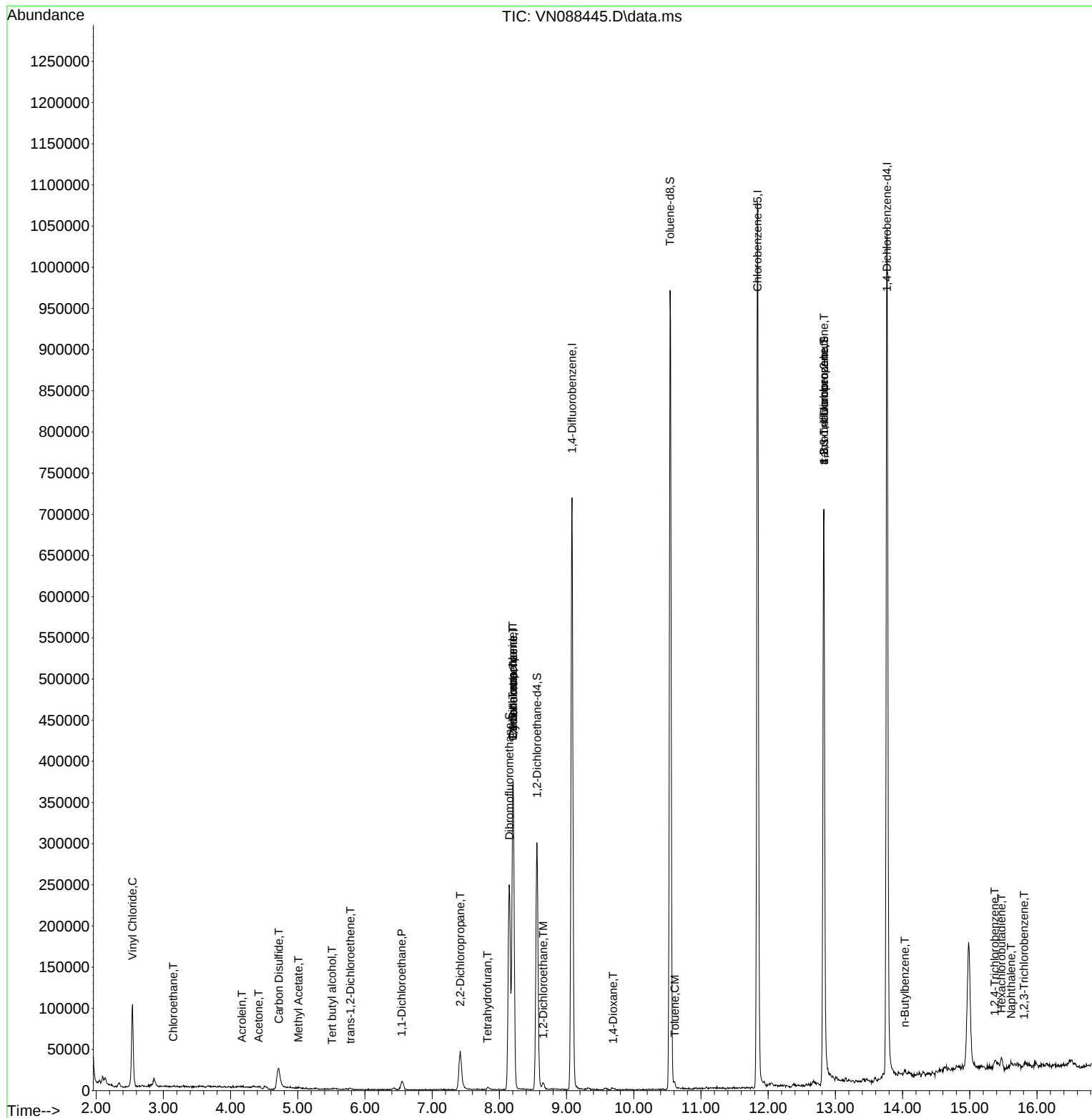
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.206          | 168  | 246275              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.082          | 114  | 564051              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.841         | 117  | 564375              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770         | 152  | 278056              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.559          | 65   | 260534              | 56.158 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 112.320% |        |        |          |
| 35) Dibromofluoromethane      | 8.147          | 113  | 179677              | 45.967 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 91.940%  |        |        |          |
| 50) Toluene-d8                | 10.541         | 98   | 640125              | 44.013 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 88.020%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.829         | 95   | 263053              | 52.713 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 105.420% |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 4) Vinyl Chloride             | 2.542          | 62   | 102480              | 25.356 | ug/l   | 99       |
| 6) Chloroethane               | 3.147          | 64   | 612                 | 0.245  | ug/l # | 42       |
| 11) Tert butyl alcohol        | 5.512          | 59   | 1323                | 1.786  | ug/l # | 72       |
| 13) Acrolein                  | 4.171          | 56   | 277                 | 0.391  | ug/l # | 79       |
| 16) Acetone                   | 4.418          | 43   | 2128                | 1.268  | ug/l   | 98       |
| 17) Carbon Disulfide          | 4.718          | 76   | 15787               | 1.608  | ug/l # | 74       |
| 18) Methyl Acetate            | 5.012          | 43   | 1103                | 0.221  | ug/l # | 68       |
| 21) trans-1,2-Dichloroethene  | 5.783          | 96   | 871                 | 0.262  | ug/l # | 47       |
| 24) 1,1-Dichloroethane        | 6.547          | 63   | 15326               | 2.276  | ug/l   | 95       |
| 26) 2,2-Dichloropropane       | 7.418          | 77   | 3332                | 0.573  | ug/l # | 56       |
| 29) Tetrahydrofuran           | 7.824          | 42   | 2066                | 1.068  | ug/l # | 36       |
| 31) Cyclohexane               | 8.206          | 56   | 8610                | 1.411  | ug/l # | 35       |
| 36) 1,1-Dichloropropene       | 8.200          | 75   | 26248               | 4.351  | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.200          | 117  | 30071               | 5.007  | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.653          | 62   | 6313                | 0.935  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.694          | 88   | 1588                | 22.582 | ug/l # | 100      |
| 52) Toluene                   | 10.612         | 92   | 2534                | 0.248  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.829         | 75   | 153208              | 23.525 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829         | 75   | 153208              | 66.739 | ug/l # | 1        |
| 89) n-Butylbenzene            | 14.035         | 91   | 4179                | 0.252  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.370         | 180  | 2240                | 0.437  | ug/l # | 58       |
| 94) Hexachlorobutadiene       | 15.470         | 225  | 1815                | 0.986  | ug/l   | 87       |
| 95) Naphthalene               | 15.617         | 128  | 5838                | 0.329  | ug/l # | 83       |
| 96) 1,2,3-Trichlorobenzene    | 15.805         | 180  | 1567                | 0.314  | ug/l   | 73       |
| -----                         |                |      |                     |        |        |          |

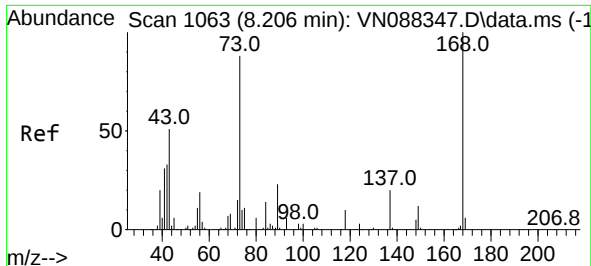
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ALS Vial : 11 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Nov 25 01:34:52 2025  
Response via : Initial Calibration

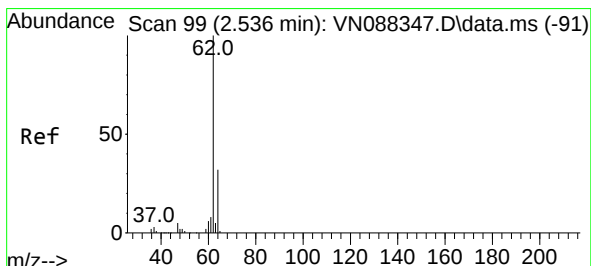
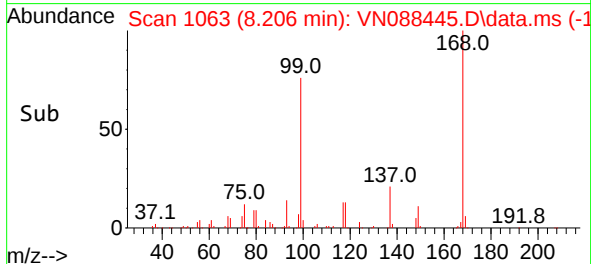
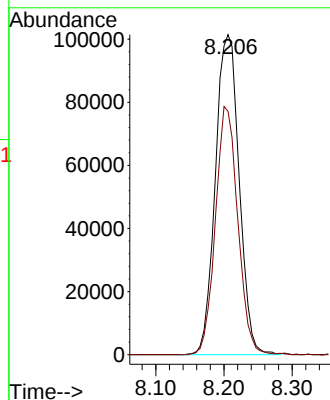
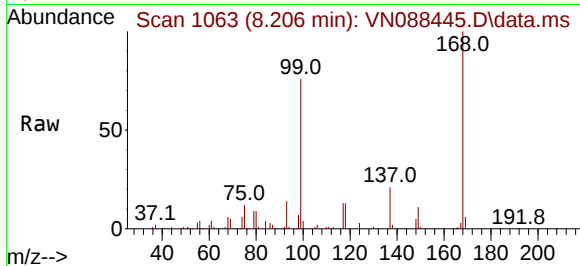




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

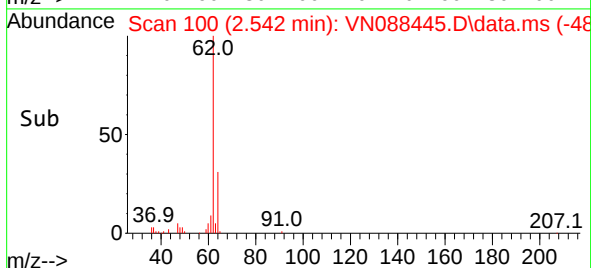
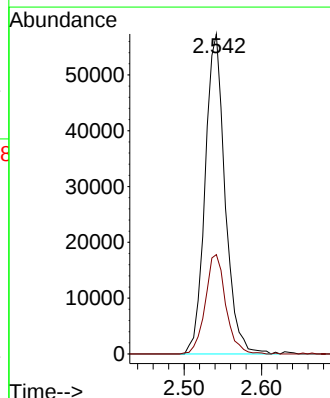
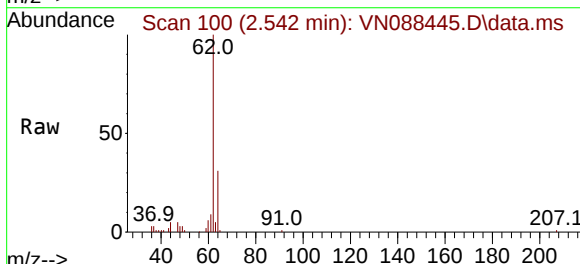
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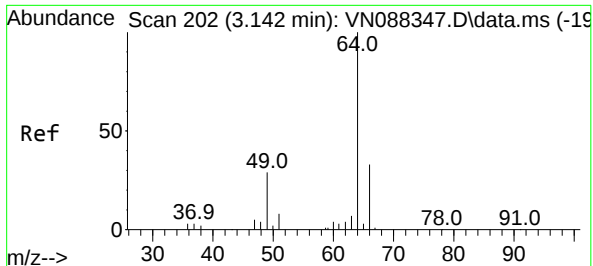
Tgt Ion:168 Resp: 246275  
Ion Ratio Lower Upper  
168 100  
99 76.1 57.1 85.7



#4  
Vinyl Chloride  
Concen: 25.356 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 62 Resp: 102480  
Ion Ratio Lower Upper  
62 100  
64 31.0 25.4 38.2

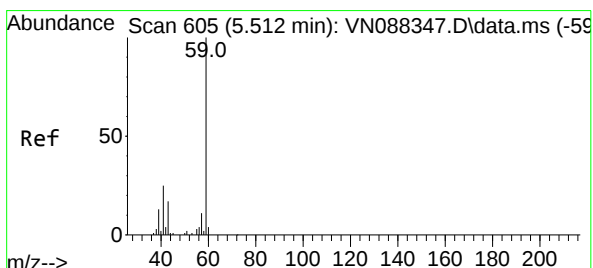
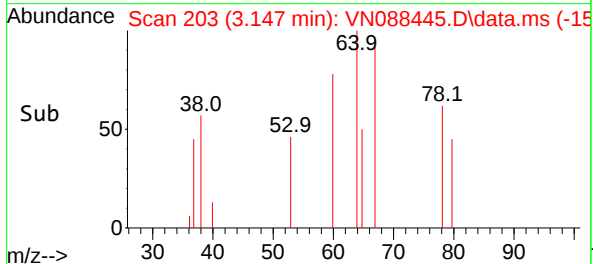
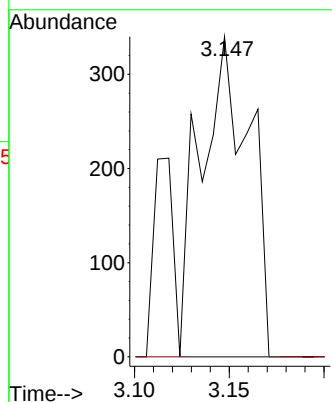
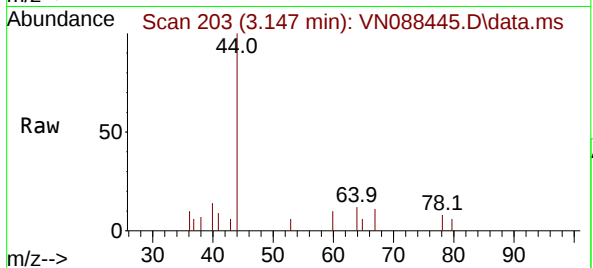




#6  
Chloroethane  
Concen: 0.245 ug/l  
RT: 3.147 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

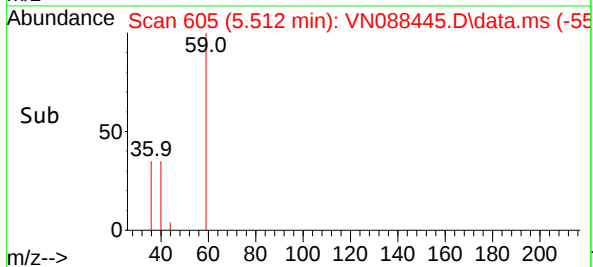
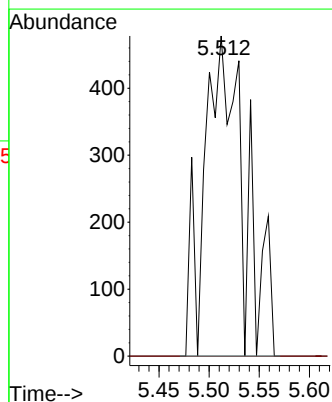
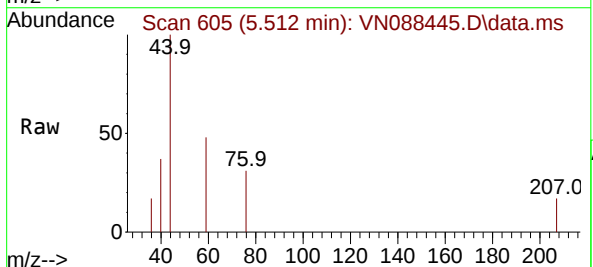
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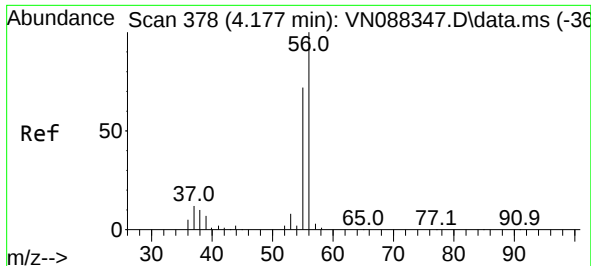
Tgt Ion: 64 Resp: 612  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.4 39.6#



#11  
Tert butyl alcohol  
Concen: 1.786 ug/l  
RT: 5.512 min Scan# 605  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 59 Resp: 1323  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

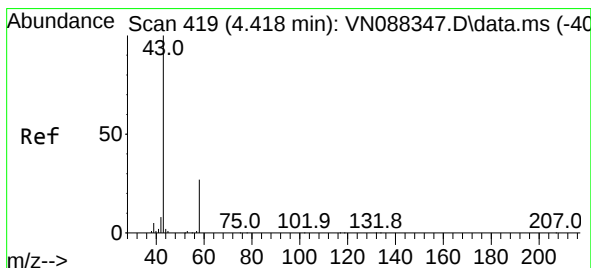
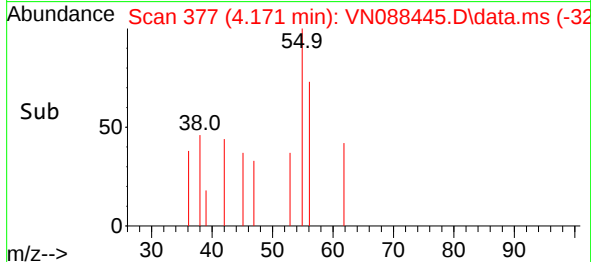
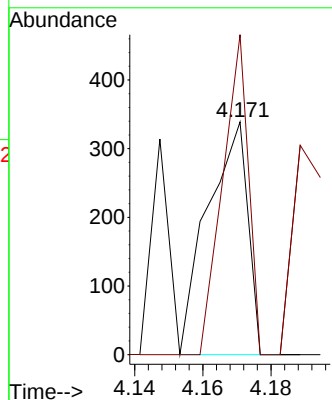
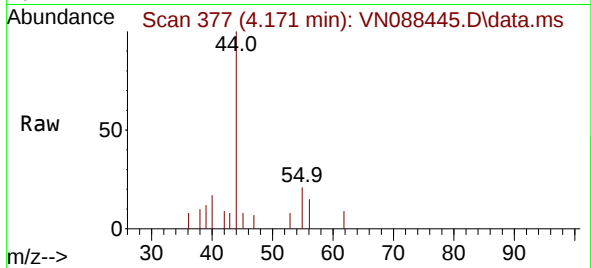




#13  
Acrolein  
Concen: 0.391 ug/l  
RT: 4.171 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

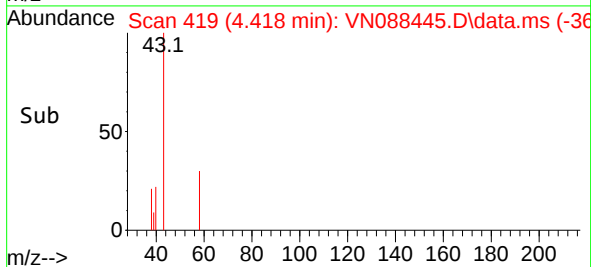
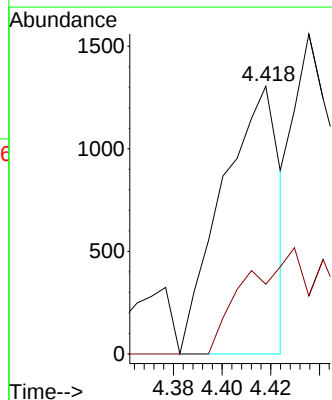
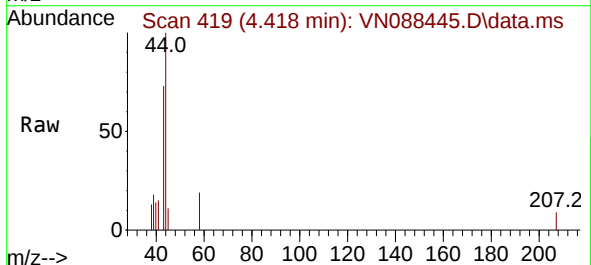
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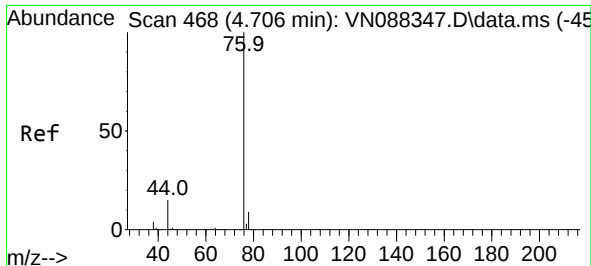
Tgt Ion: 56 Resp: 277  
Ion Ratio Lower Upper  
56 100  
55 87.7 56.3 84.5#



#16  
Acetone  
Concen: 1.268 ug/l  
RT: 4.418 min Scan# 419  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 43 Resp: 2128  
Ion Ratio Lower Upper  
43 100  
58 26.1 21.7 32.5

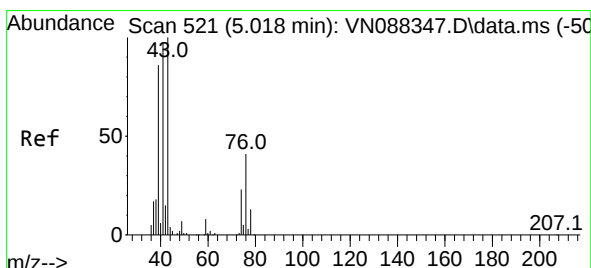
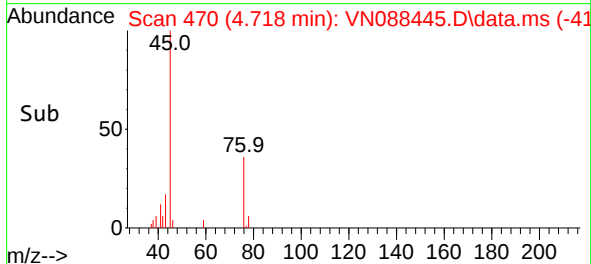
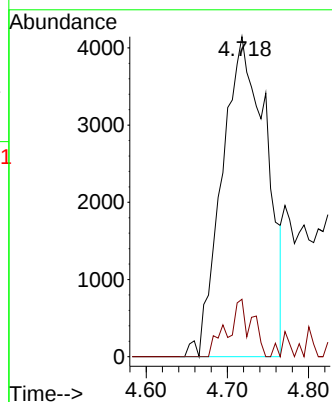
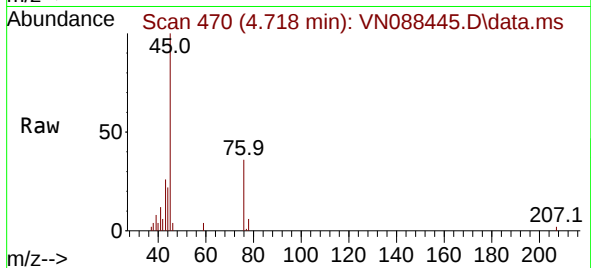




#17  
Carbon Disulfide  
Concen: 1.608 ug/l  
RT: 4.718 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

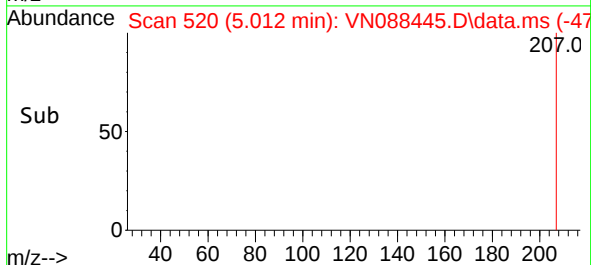
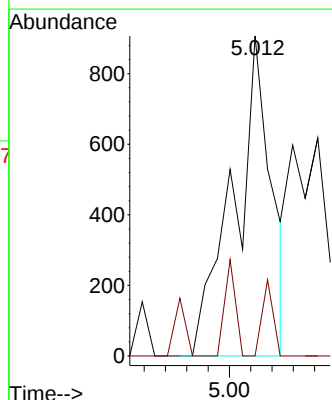
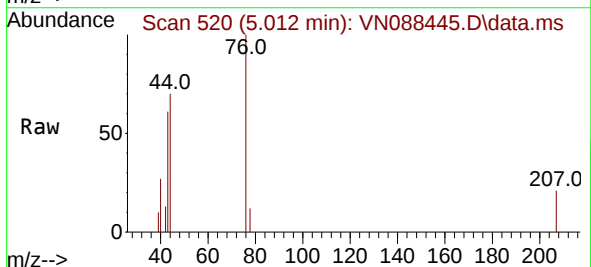
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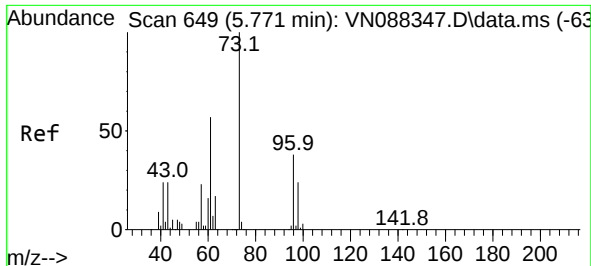
Tgt Ion: 76 Resp: 15787  
Ion Ratio Lower Upper  
76 100  
78 18.0 7.0 10.4#



#18  
Methyl Acetate  
Concen: 0.221 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 43 Resp: 1103  
Ion Ratio Lower Upper  
43 100  
74 6.9 17.9 26.9#

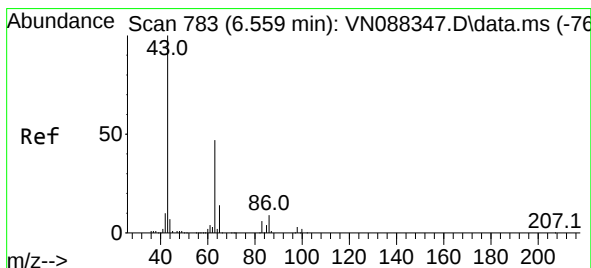
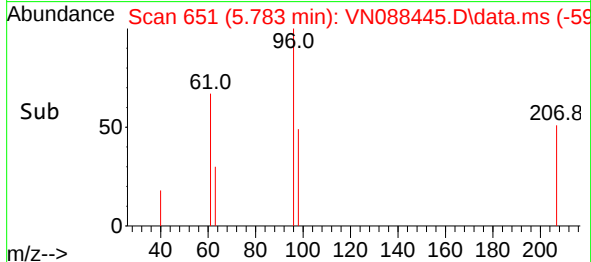
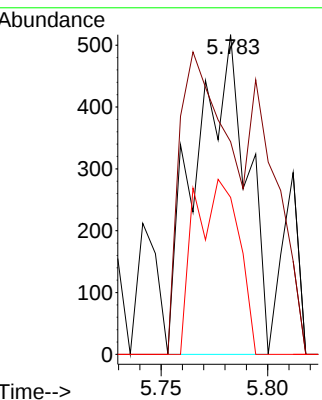
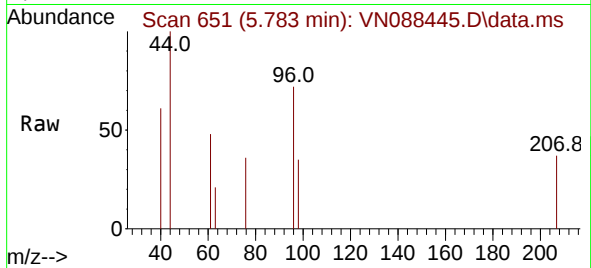




#21  
trans-1,2-Dichloroethene  
Concen: 0.262 ug/l  
RT: 5.783 min Scan# 61  
Delta R.T. 0.012 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

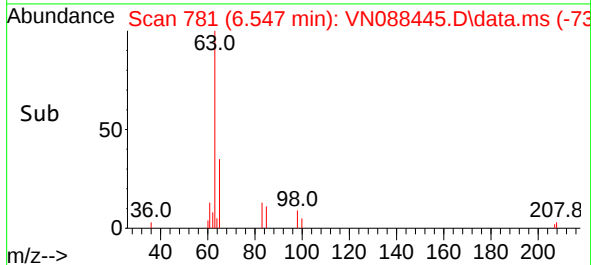
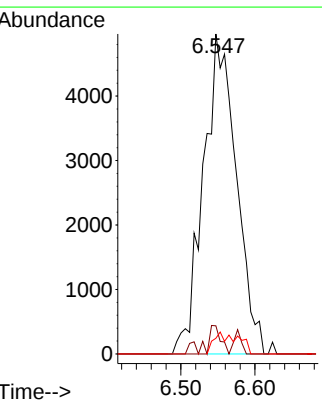
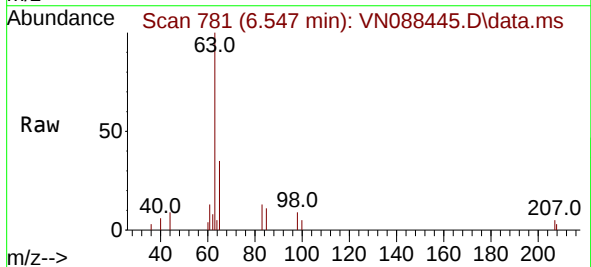
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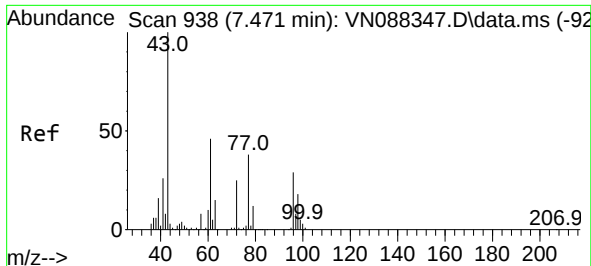
Tgt Ion: 96 Resp: 871  
Ion Ratio Lower Upper  
96 100  
61 66.5 122.4 183.6#  
98 49.1 50.9 76.3#



#24  
1,1-Dichloroethane  
Concen: 2.276 ug/l  
RT: 6.547 min Scan# 781  
Delta R.T. -0.012 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 63 Resp: 15326  
Ion Ratio Lower Upper  
63 100  
98 8.8 3.4 10.2  
100 4.9 1.9 5.7

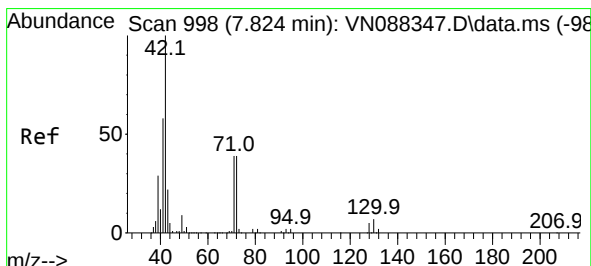
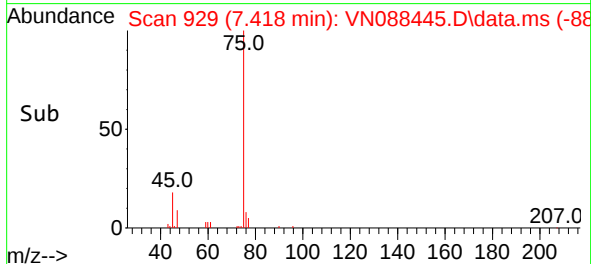
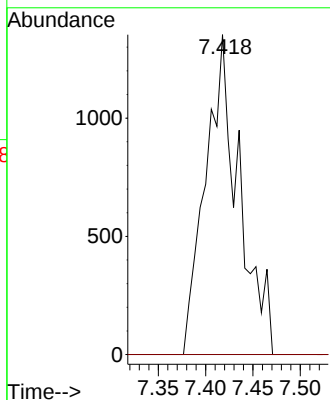
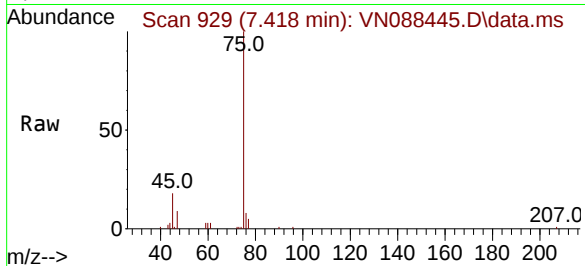




#26  
2,2-Dichloropropane  
Concen: 0.573 ug/l  
RT: 7.418 min Scan# 91  
Delta R.T. -0.053 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

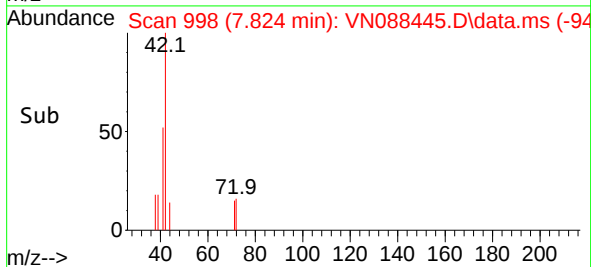
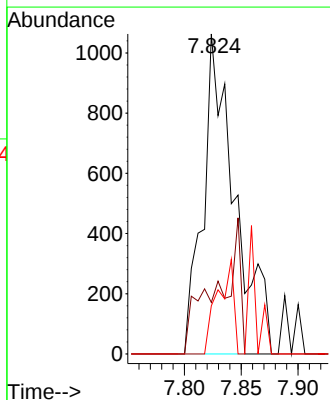
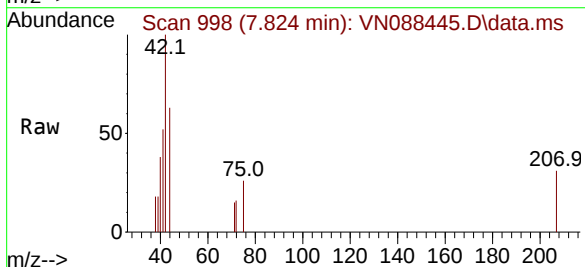
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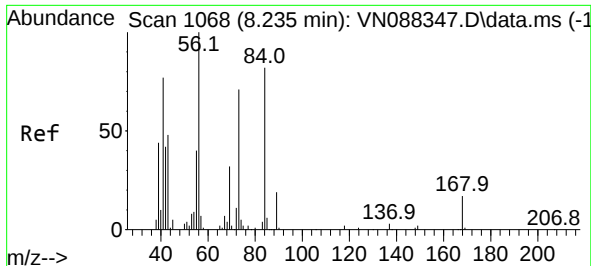
Tgt Ion: 77 Resp: 3332  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.3 30.9#



#29  
Tetrahydrofuran  
Concen: 1.068 ug/l  
RT: 7.824 min Scan# 998  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 42 Resp: 2066  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.2 48.4#  
71 0.0 31.1 46.7#

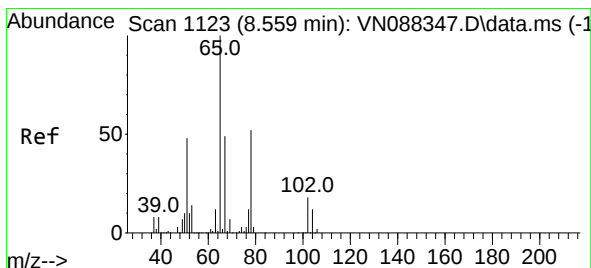
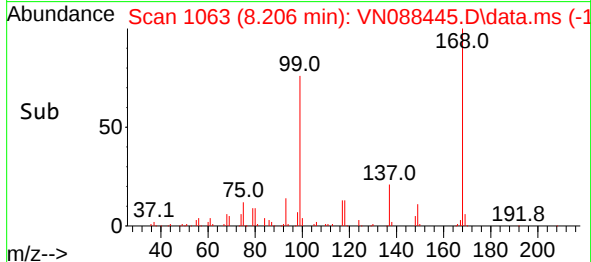
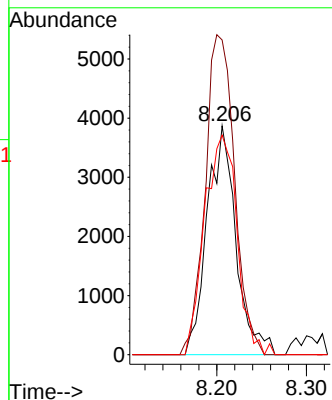
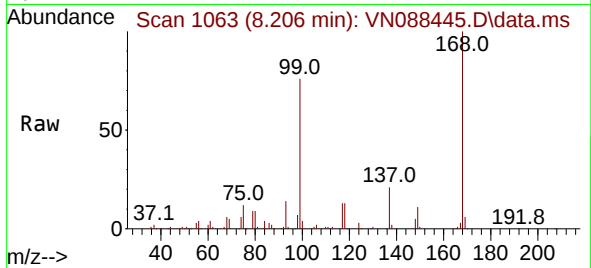




#31  
Cyclohexane  
Concen: 1.411 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.029 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

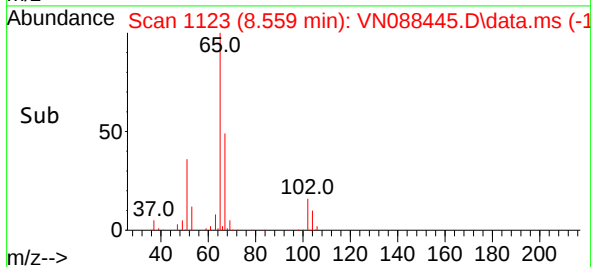
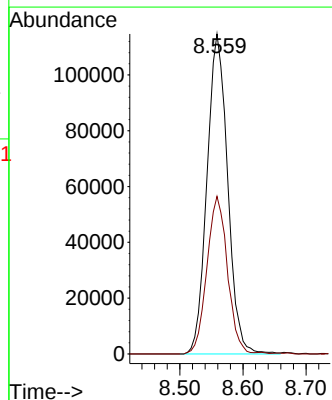
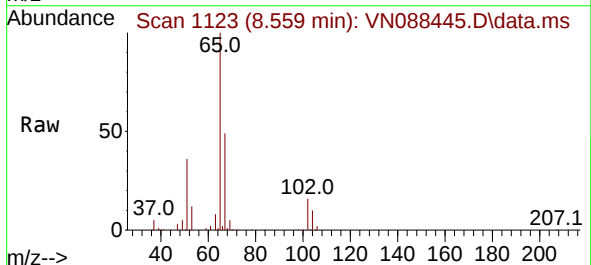
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-01-190-120225

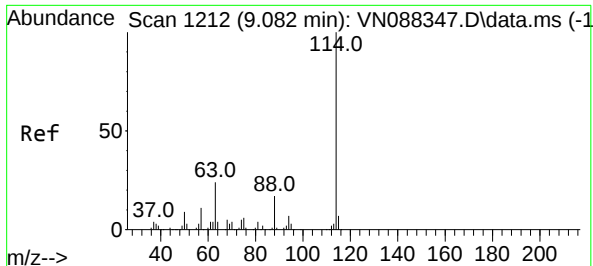
Tgt Ion: 56 Resp: 8610  
Ion Ratio Lower Upper  
56 100  
69 137.5 25.3 37.9#  
84 96.0 65.4 98.2



#33  
1,2-Dichloroethane-d4  
Concen: 56.158 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 65 Resp: 260534  
Ion Ratio Lower Upper  
65 100  
67 48.8 0.0 100.8

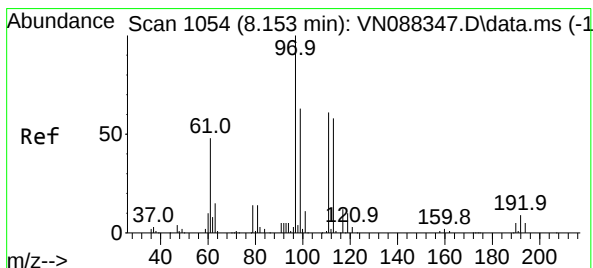
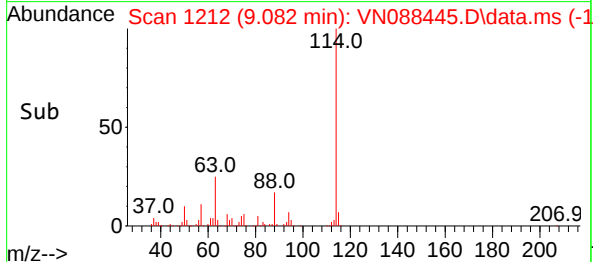
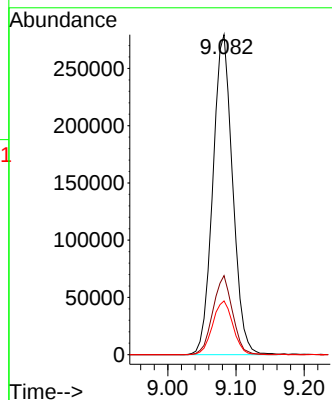
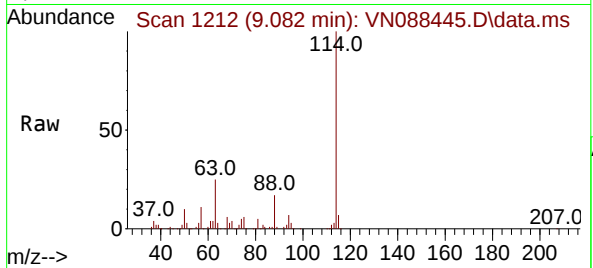




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.082 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

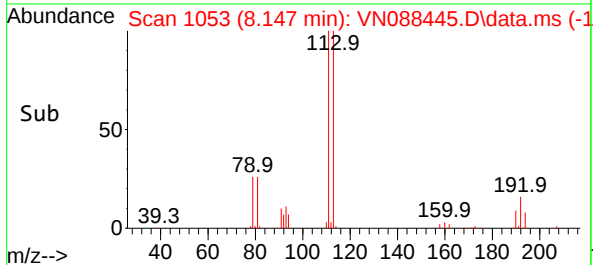
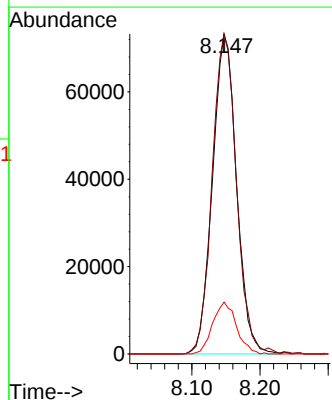
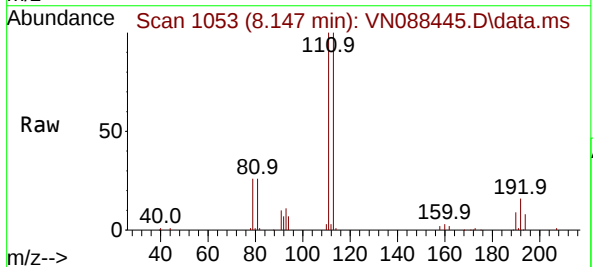
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-01-190-120225

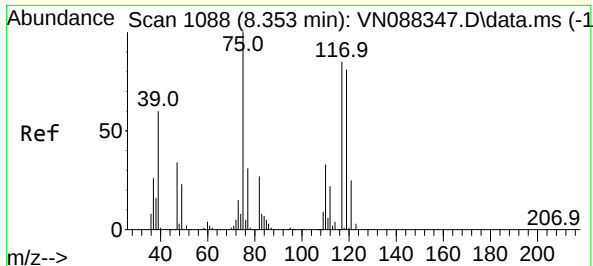
Tgt Ion:114 Resp: 564051  
Ion Ratio Lower Upper  
114 100  
63 24.7 0.0 49.0  
88 16.8 0.0 34.0



#35  
Dibromofluoromethane  
Concen: 45.967 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion:113 Resp: 179677  
Ion Ratio Lower Upper  
113 100  
111 100.9 82.5 123.7  
192 16.1 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.351 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

Instrument :

MSVOA\_N

ClientSampleId :

BR-01-190-120225

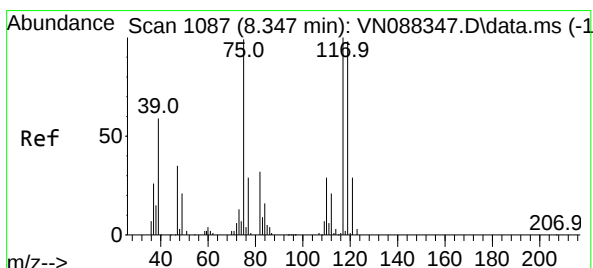
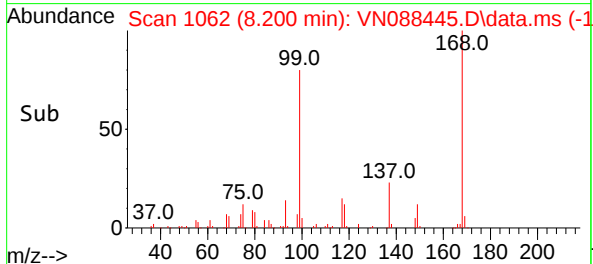
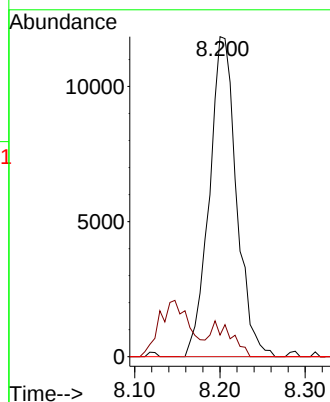
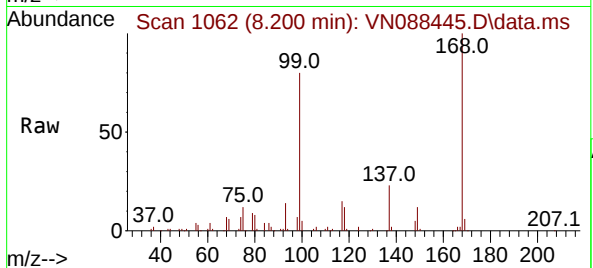
Tgt Ion: 75 Resp: 26248

Ion Ratio Lower Upper

75 100

110 8.5 15.8 47.4#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 5.007 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.147 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

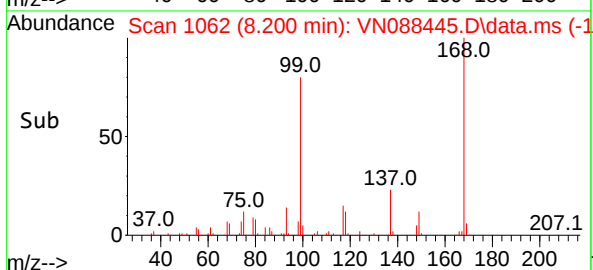
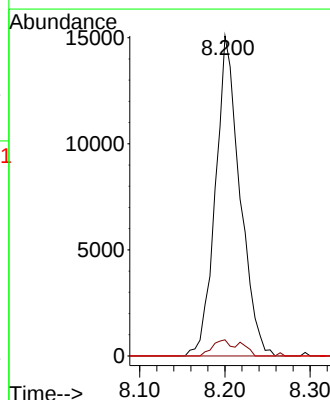
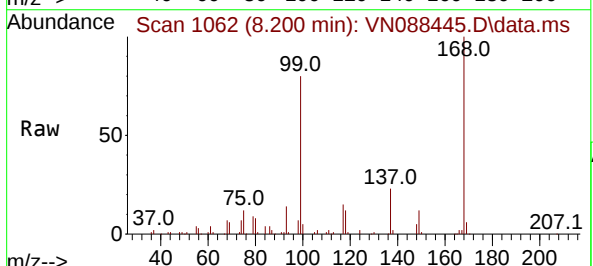
Tgt Ion: 117 Resp: 30071

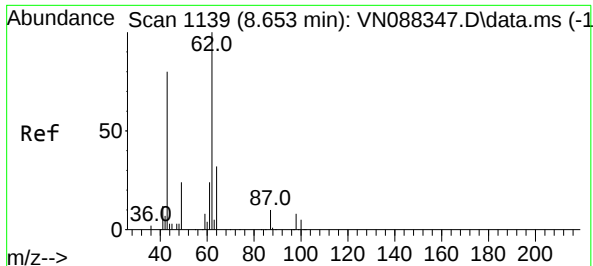
Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.4#

121 0.0 23.4 35.2#





#42

1,2-Dichloroethane

Concen: 0.935 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

Instrument :

MSVOA\_N

ClientSampleId :

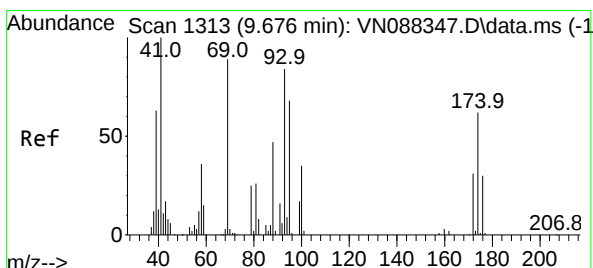
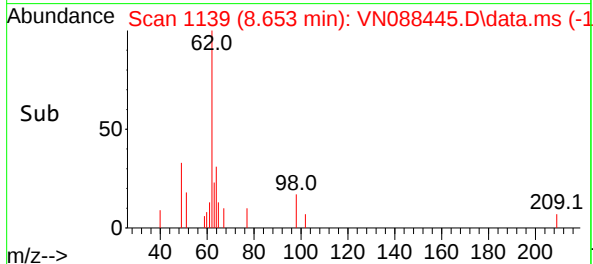
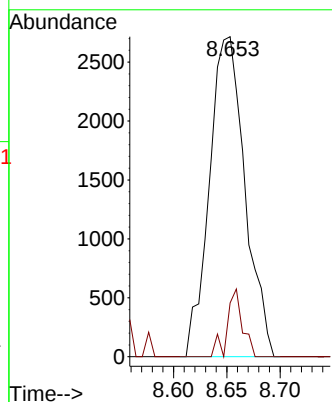
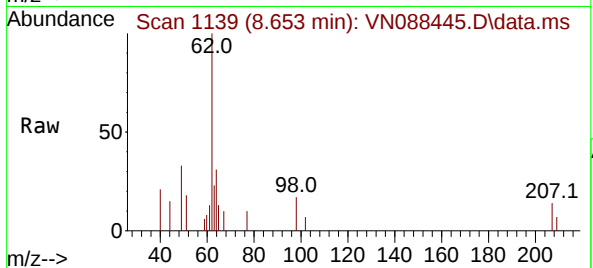
BR-01-190-120225

Tgt Ion: 62 Resp: 6313

Ion Ratio Lower Upper

62 100

98 9.0 0.0 16.2



#49

1,4-Dioxane

Concen: 22.582 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.018 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

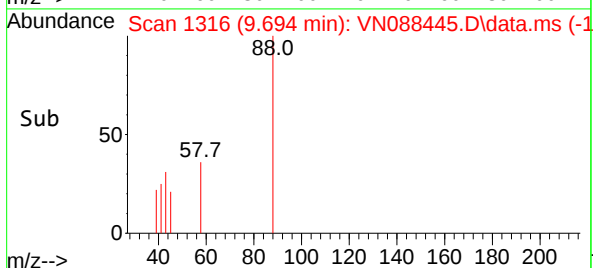
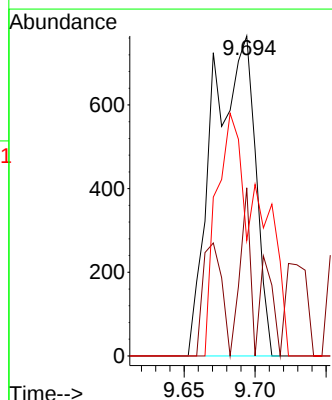
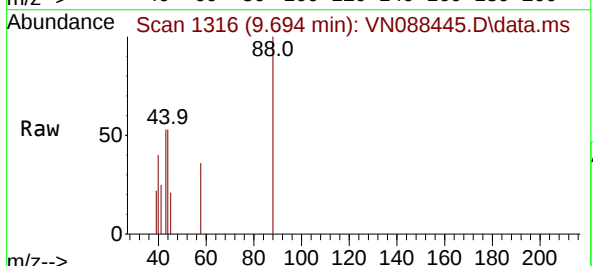
Tgt Ion: 88 Resp: 1588

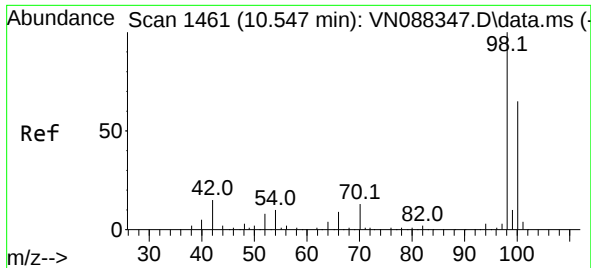
Ion Ratio Lower Upper

88 100

43 21.7 0.0 0.0#

58 77.4 62.0 93.0

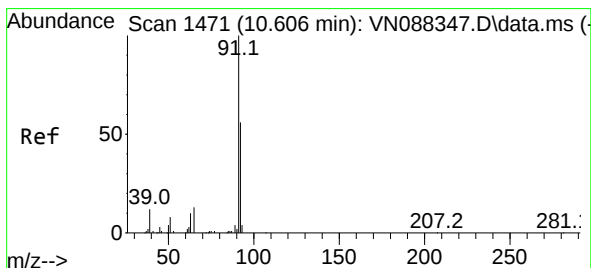
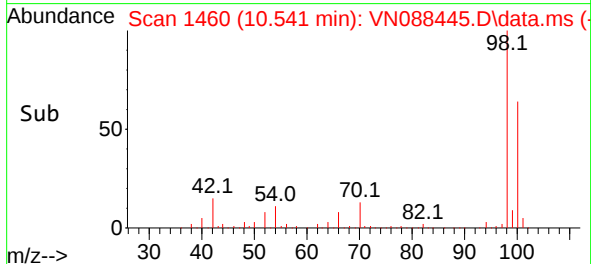
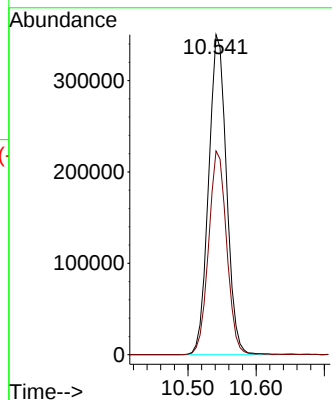
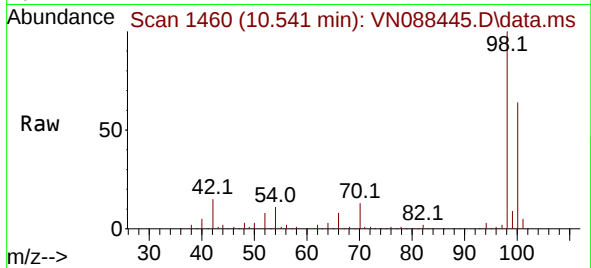




#50  
Toluene-d8  
Concen: 44.013 ug/l  
RT: 10.541 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

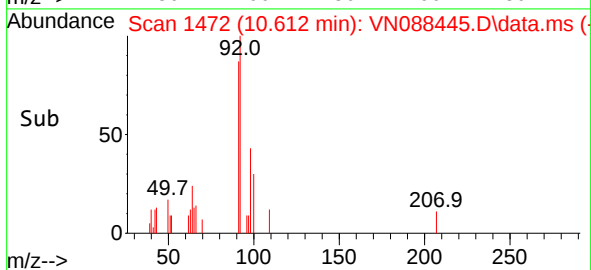
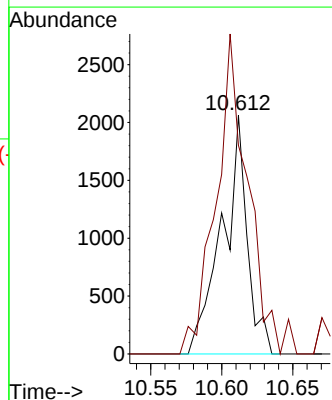
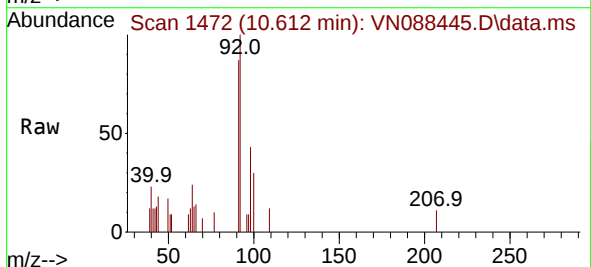
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-01-190-120225

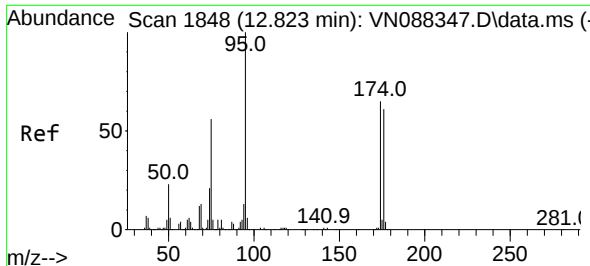
Tgt Ion: 98 Resp: 640125  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.2 78.2



#52  
Toluene  
Concen: 0.248 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 92 Resp: 2534  
Ion Ratio Lower Upper  
92 100  
91 171.7 140.2 210.2

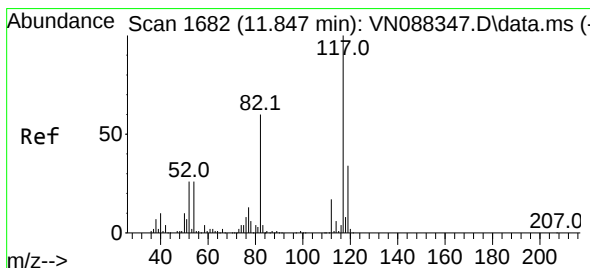
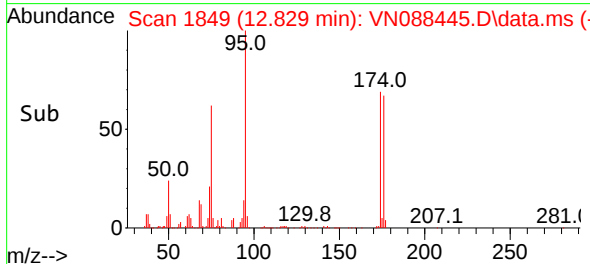
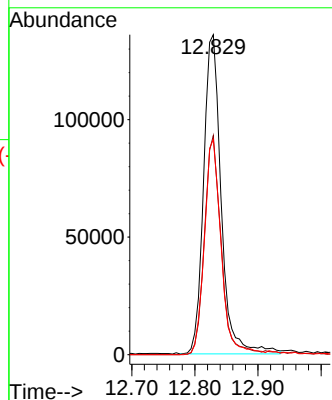
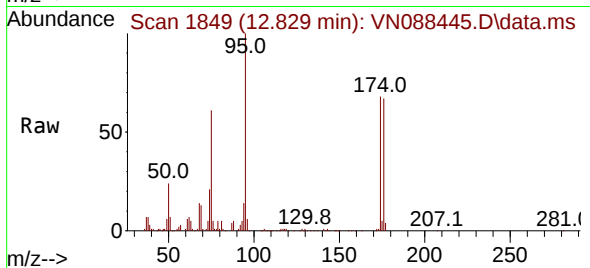




#62  
4-Bromofluorobenzene  
Concen: 52.713 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

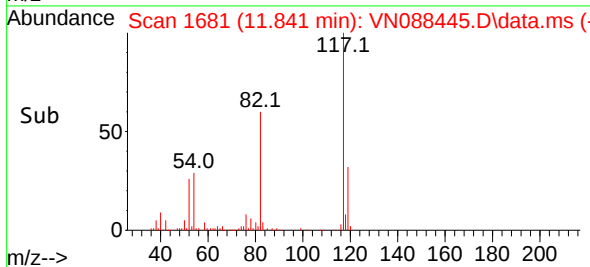
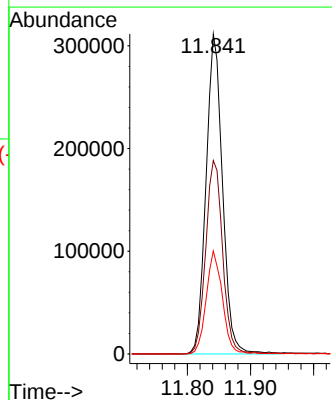
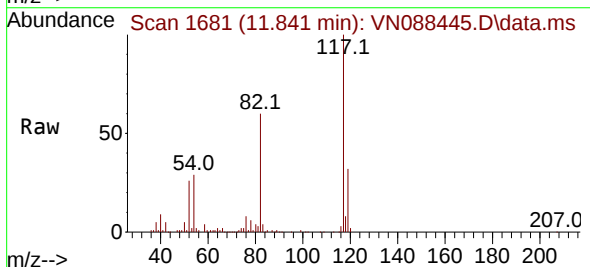
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-01-190-120225

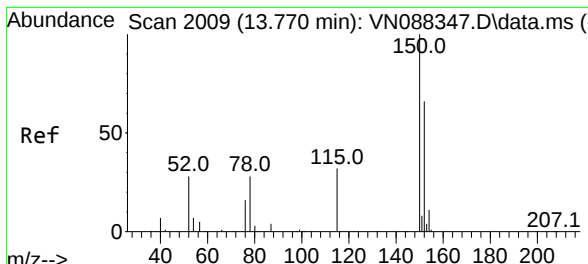
Tgt Ion: 95 Resp: 263053  
Ion Ratio Lower Upper  
95 100  
174 64.8 0.0 139.0  
176 64.3 0.0 132.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 117 Resp: 564375  
Ion Ratio Lower Upper  
117 100  
82 60.4 47.8 71.8  
119 32.2 26.9 40.3

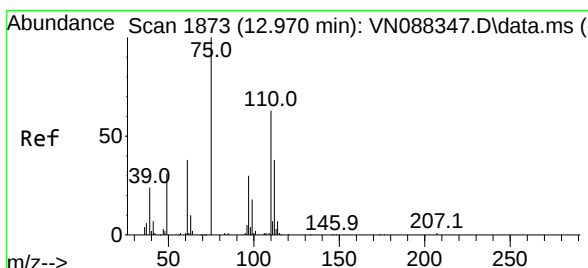
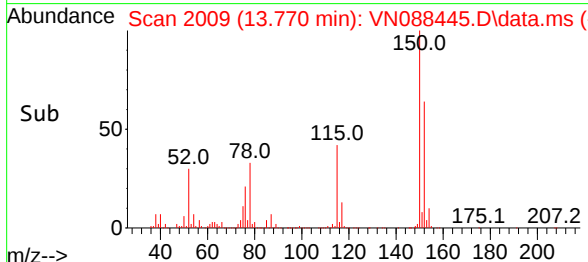
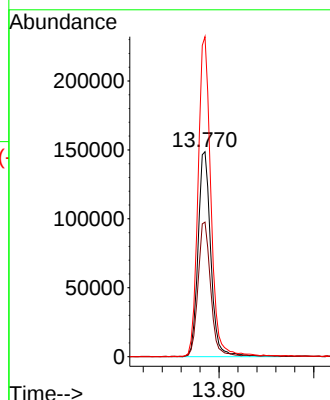
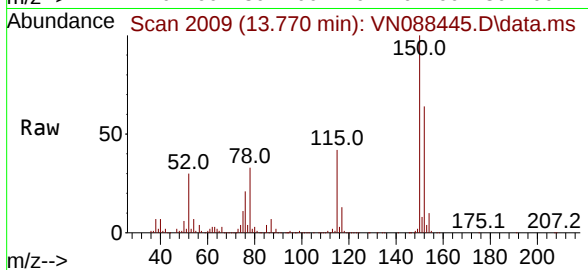




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.770 min Scan# 2009  
 Delta R.T. -0.000 min  
 Lab File: VN088445.D  
 Acq: 04 Dec 2025 15:06

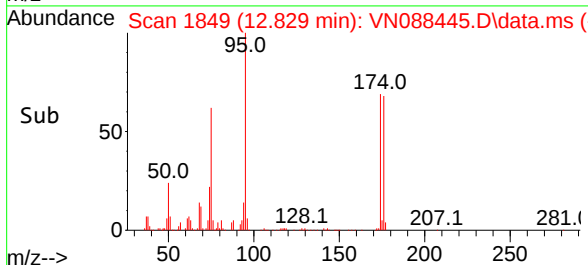
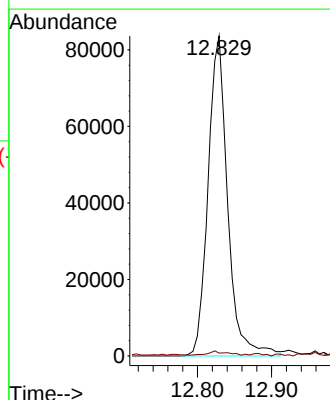
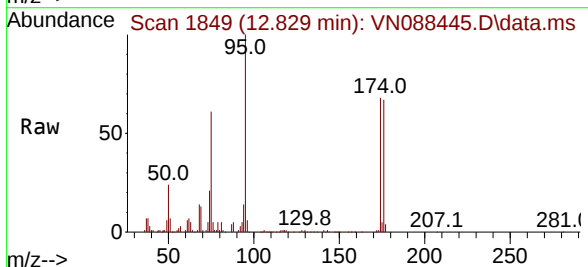
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BR-01-190-120225

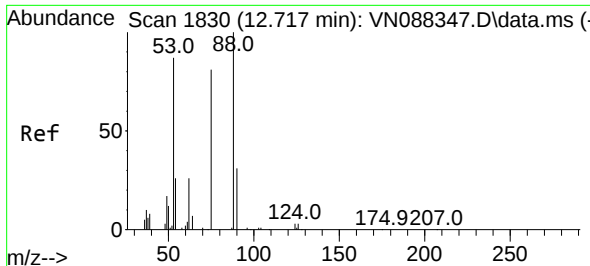
Tgt Ion:152 Resp: 278056  
 Ion Ratio Lower Upper  
 152 100  
 115 65.0 33.0 98.9  
 150 156.8 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 23.525 ug/l  
 RT: 12.829 min Scan# 1849  
 Delta R.T. -0.141 min  
 Lab File: VN088445.D  
 Acq: 04 Dec 2025 15:06

Tgt Ion: 75 Resp: 153208  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 87.2 261.6#

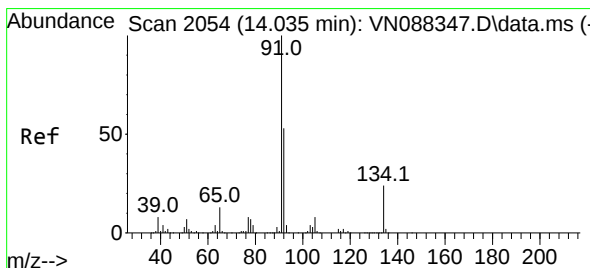
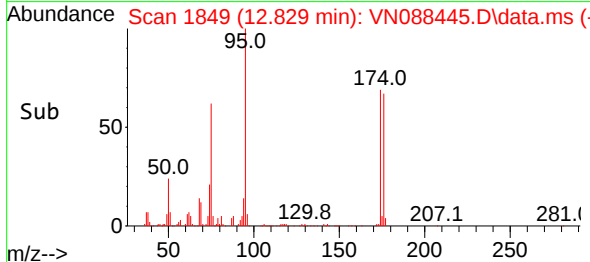
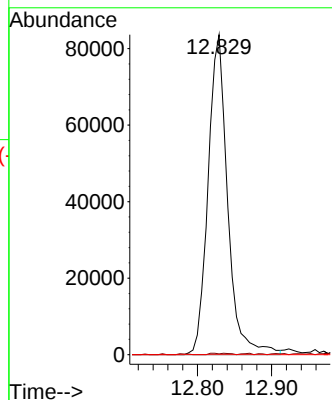
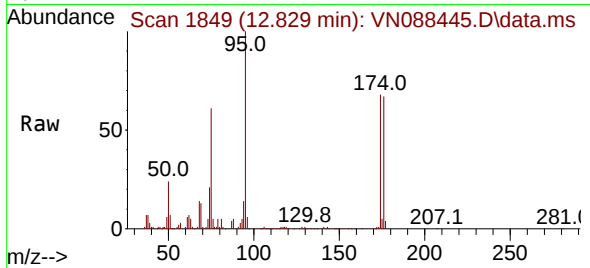




#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.739 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

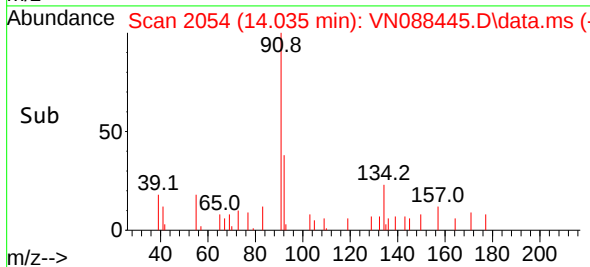
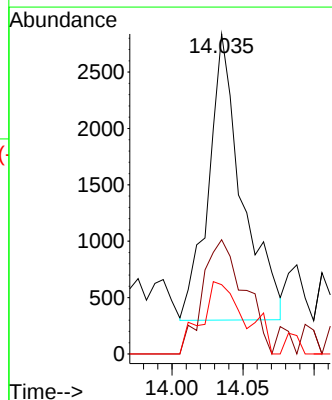
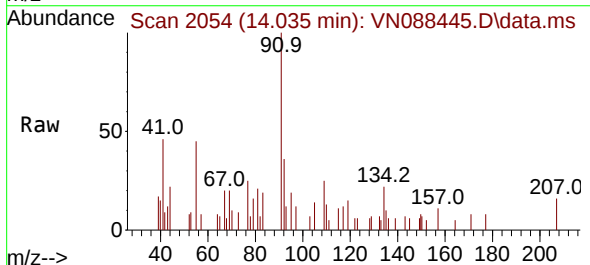
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-01-190-120225

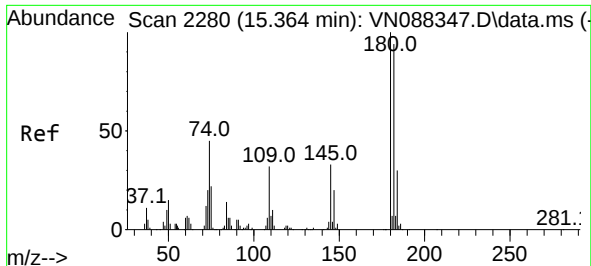
Tgt Ion: 75 Resp: 153208  
Ion Ratio Lower Upper  
75 100  
53 0.2 92.2 138.4#  
89 0.0 0.0 0.0



#89  
n-Butylbenzene  
Concen: 0.252 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion: 91 Resp: 4179  
Ion Ratio Lower Upper  
91 100  
92 49.3 26.1 78.3  
134 32.4 11.7 35.1

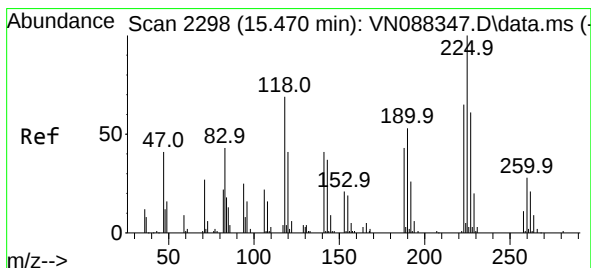
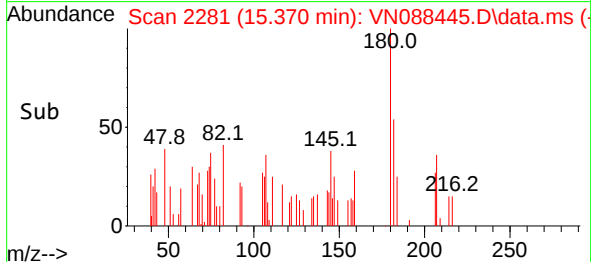
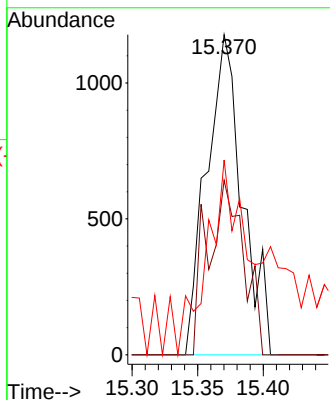
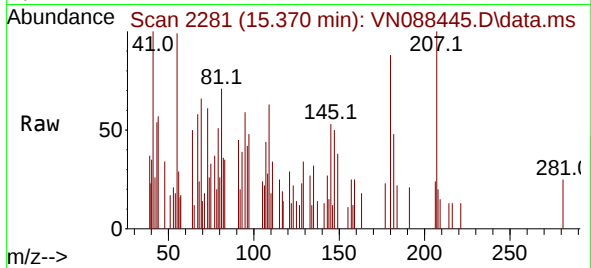




#93  
1,2,4-Trichlorobenzene  
Concen: 0.437 ug/l  
RT: 15.370 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

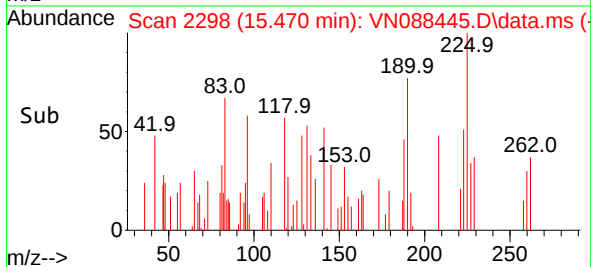
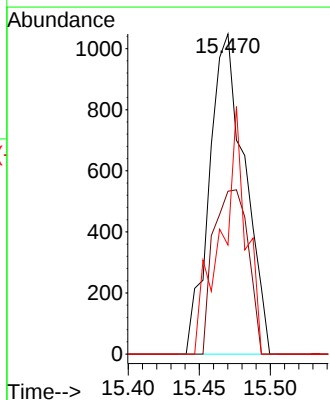
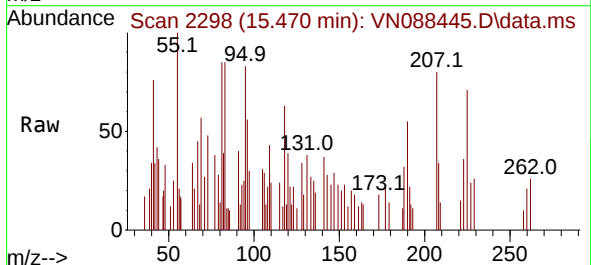
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-01-190-120225

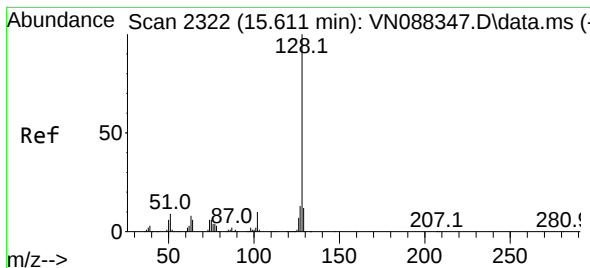
Tgt Ion:180 Resp: 2240  
Ion Ratio Lower Upper  
180 100  
182 54.6 46.1 138.2  
145 61.4 16.7 50.1#



#94  
Hexachlorobutadiene  
Concen: 0.986 ug/l  
RT: 15.470 min Scan# 2298  
Delta R.T. -0.000 min  
Lab File: VN088445.D  
Acq: 04 Dec 2025 15:06

Tgt Ion:225 Resp: 1815  
Ion Ratio Lower Upper  
225 100  
223 50.5 32.3 96.8  
227 54.7 29.9 89.8





#95

Naphthalene

Concen: 0.329 ug/l

RT: 15.617 min Scan# 2322

Delta R.T. 0.006 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

Instrument :

MSVOA\_N

ClientSampleId :

BR-01-190-120225

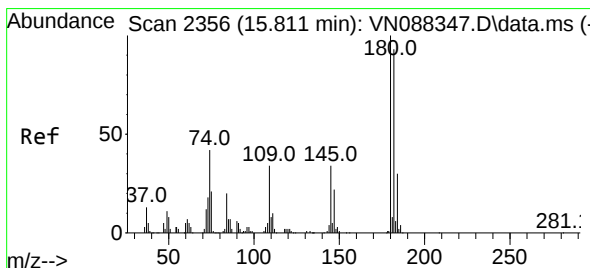
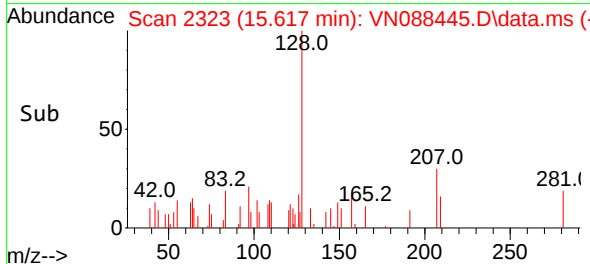
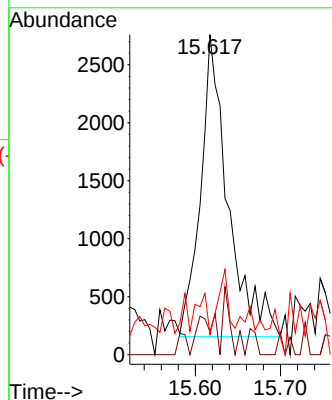
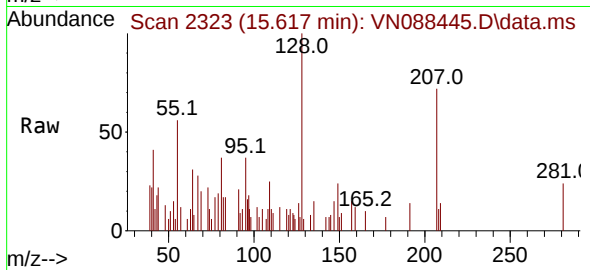
Tgt Ion:128 Resp: 5838

Ion Ratio Lower Upper

128 100

127 6.1 10.4 15.6#

129 5.2 9.0 13.6#



#96

1,2,3-Trichlorobenzene

Concen: 0.314 ug/l

RT: 15.805 min Scan# 2355

Delta R.T. -0.006 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

Tgt Ion:180 Resp: 1567

Ion Ratio Lower Upper

180 100

182 119.3 45.9 137.7

145 23.6 17.8 53.4

