

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102725\  
 Data File : VN088115.D  
 Acq On : 27 Oct 2025 15:36  
 Operator : JC\MD  
 Sample : Q3451-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-11

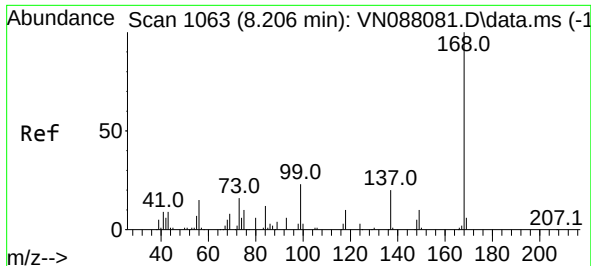
Quant Time: Oct 28 01:28:43 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102325W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 25 00:15:22 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.206          | 168  | 230912              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.083          | 114  | 528997              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.841         | 117  | 520621              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770         | 152  | 245170              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.559          | 65   | 230052              | 57.615 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 115.220% |        |        |          |
| 35) Dibromofluoromethane      | 8.153          | 113  | 169128              | 47.590 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 95.180%  |        |        |          |
| 50) Toluene-d8                | 10.547         | 98   | 628054              | 45.865 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 91.740%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.829         | 95   | 240805              | 49.794 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 99.580%  |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 2.989          | 94   | 515                 | 0.258  | ug/l # | 59       |
| 11) Tert butyl alcohol        | 5.524          | 59   | 408                 | 0.593  | ug/l # | 71       |
| 13) Acrolein                  | 4.159          | 56   | 287                 | 0.371  | ug/l # | 26       |
| 16) Acetone                   | 4.430          | 43   | 107115              | 53.397 | ug/l   | 98       |
| 18) Methyl Acetate            | 5.024          | 43   | 6968                | 1.697  | ug/l # | 77       |
| 20) Methylene Chloride        | 5.271          | 84   | 44825               | 14.908 | ug/l   | 92       |
| 25) 2-Butanone                | 7.483          | 43   | 7570                | 2.864  | ug/l   | 96       |
| 29) Tetrahydrofuran           | 7.847          | 42   | 2323                | 1.348  | ug/l # | 64       |
| 31) Cyclohexane               | 8.212          | 56   | 7175                | 1.284  | ug/l # | 29       |
| 36) 1,1-Dichloropropene       | 8.206          | 75   | 24547               | 4.731  | ug/l # | 43       |
| 38) Carbon Tetrachloride      | 8.206          | 117  | 27016               | 5.041  | ug/l # | 15       |
| 43) Isopropyl Acetate         | 8.677          | 43   | 29954               | 2.911  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.724          | 63   | 1459                | 0.366  | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.724          | 41   | 128804              | 27.113 | ug/l # | 46       |
| 51) 4-Methyl-2-Pentanone      | 10.435         | 43   | 6646                | 1.092  | ug/l # | 85       |
| 54) cis-1,3-Dichloropropene   | 10.341         | 75   | 48818               | 7.588  | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 11.177         | 76   | 3290                | 0.506  | ug/l # | 42       |
| 59) 2-Hexanone                | 11.182         | 43   | 55886               | 13.840 | ug/l # | 55       |
| 76) 1,2,3-Trichloropropane    | 12.829         | 75   | 142160              | 25.362 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829         | 75   | 142160              | 70.747 | ug/l # | 1        |
| -----                         |                |      |                     |        |        |          |

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

Quant Time: Oct 28 01:28:43 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102325W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 25 00:15:22 2025  
Response via : Initial Calibration

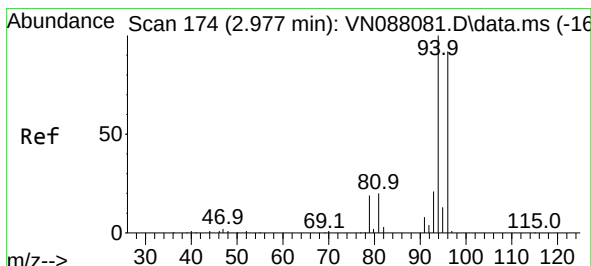
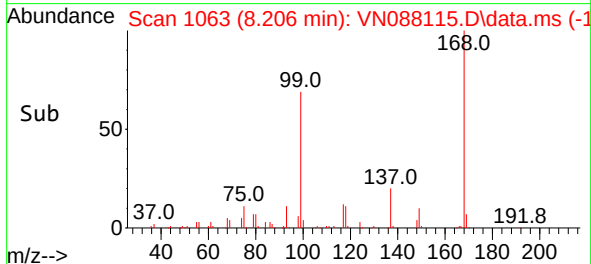
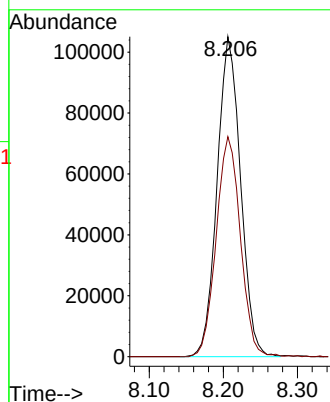
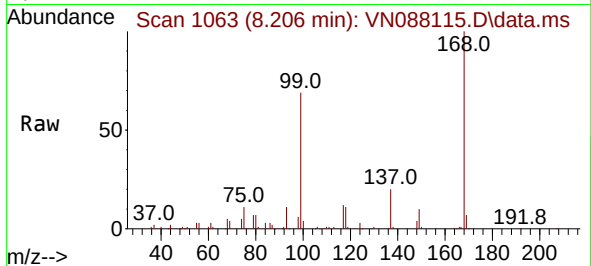




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

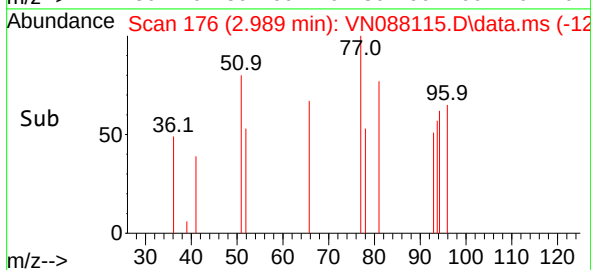
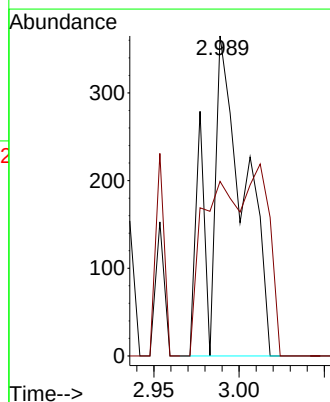
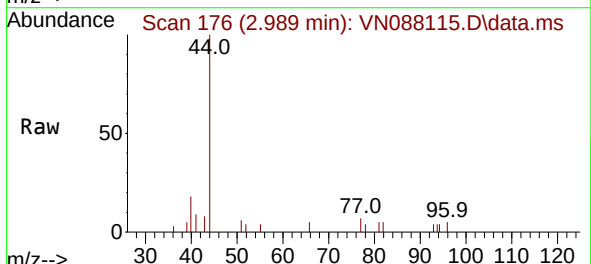
Instrument :  
MSVOA\_N  
ClientSampleId :  
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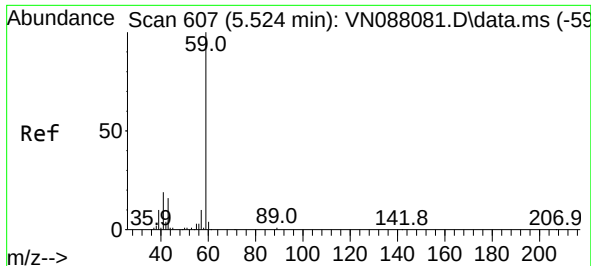
Tgt Ion:168 Resp: 230912  
Ion Ratio Lower Upper  
168 100  
99 68.7 57.2 85.8



#5  
Bromomethane  
Concen: 0.258 ug/l  
RT: 2.989 min Scan# 176  
Delta R.T. 0.018 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 94 Resp: 515  
Ion Ratio Lower Upper  
94 100  
96 54.5 75.4 113.2#

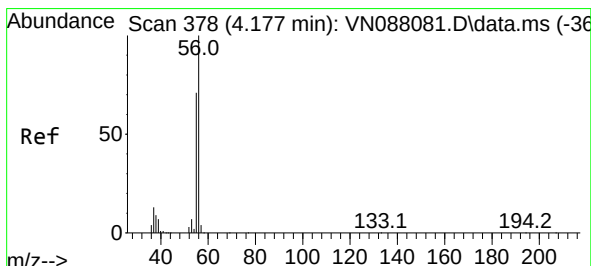
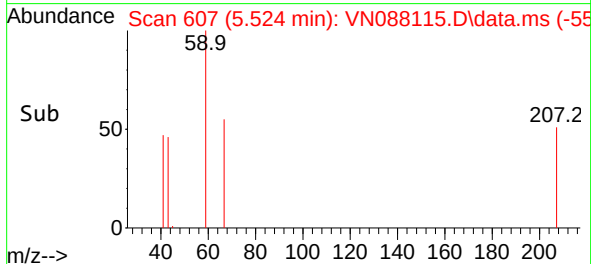
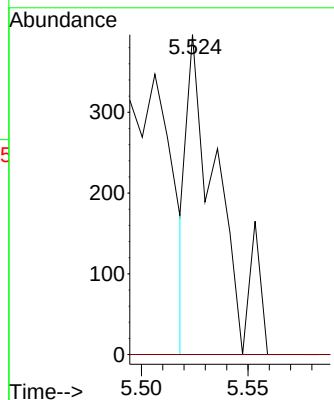
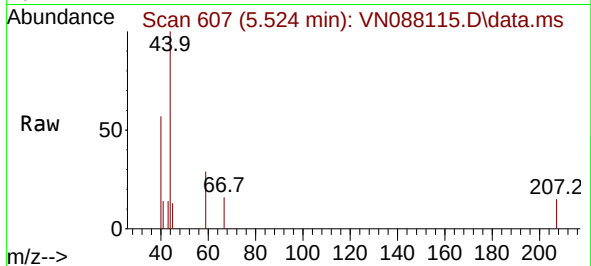




#11  
Tert butyl alcohol  
Concen: 0.593 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

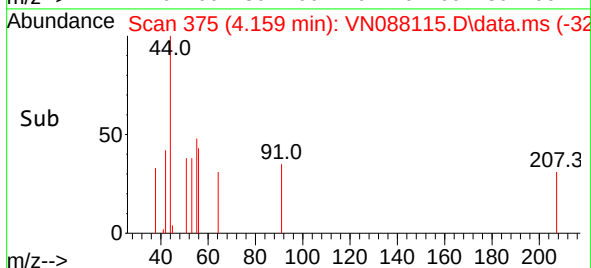
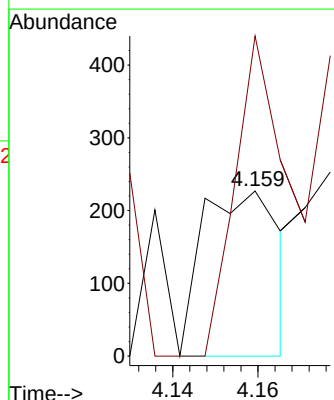
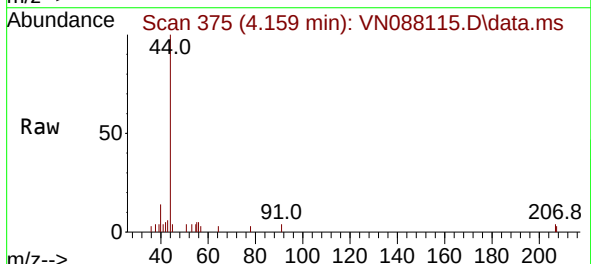
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-11

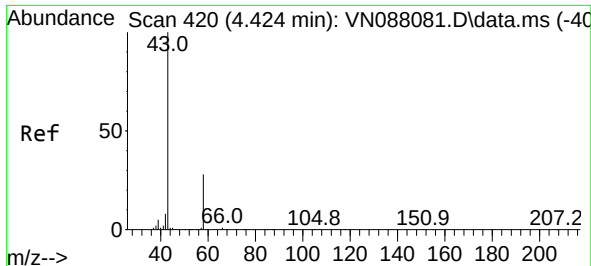
Tgt Ion: 59 Resp: 408  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.4#



#13  
Acrolein  
Concen: 0.371 ug/l  
RT: 4.159 min Scan# 375  
Delta R.T. -0.012 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 56 Resp: 287  
Ion Ratio Lower Upper  
56 100  
55 133.4 57.3 85.9#

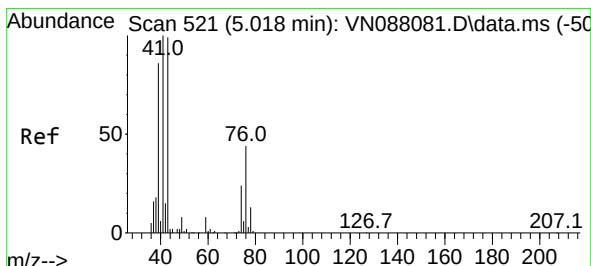
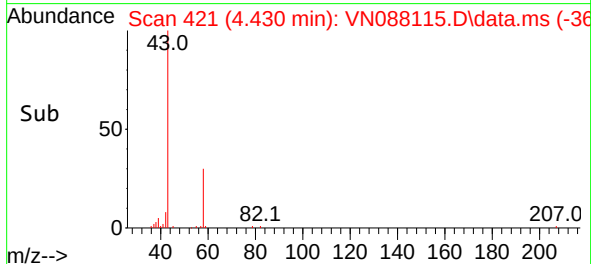
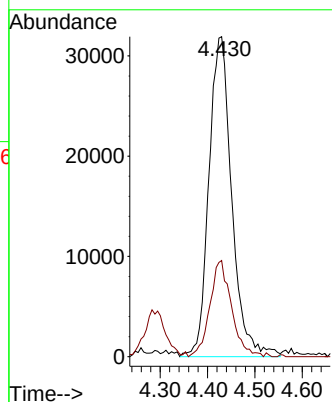
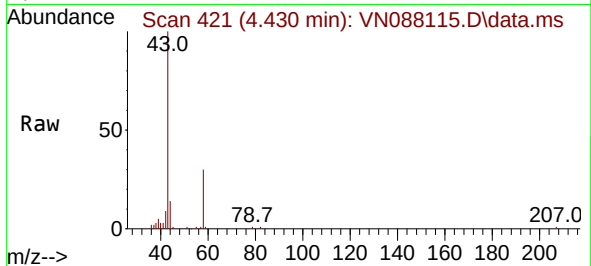




#16  
Acetone  
Concen: 53.397 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

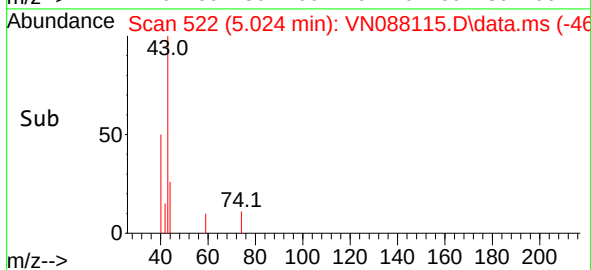
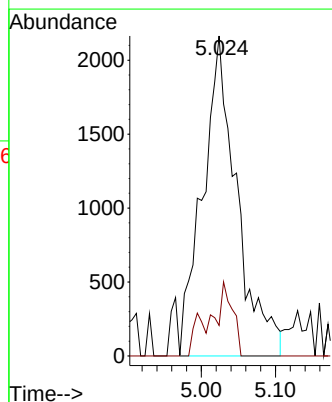
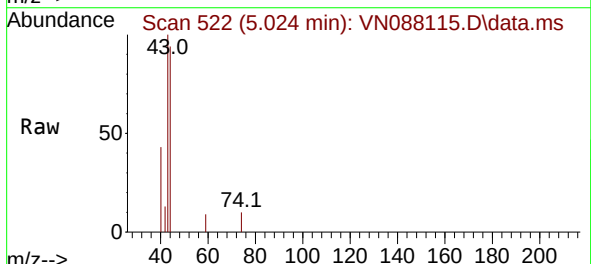
Instrument :  
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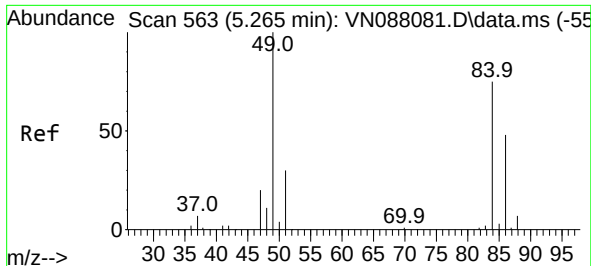
Tgt Ion: 43 Resp: 107115  
Ion Ratio Lower Upper  
43 100  
58 29.4 22.6 33.8



#18  
Methyl Acetate  
Concen: 1.697 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.012 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 43 Resp: 6968  
Ion Ratio Lower Upper  
43 100  
74 11.1 17.6 26.4#

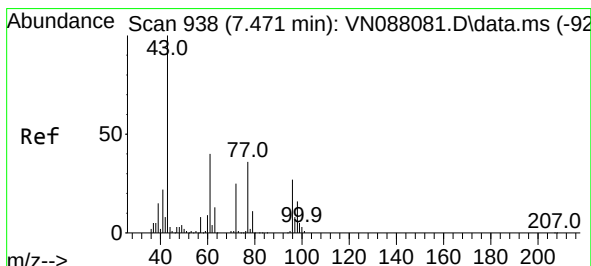
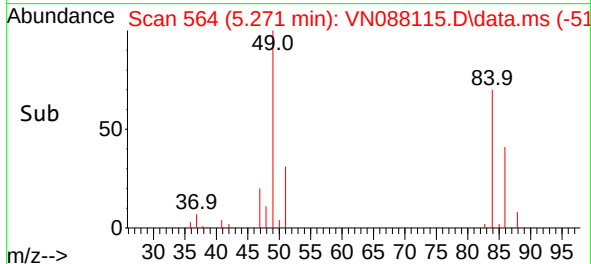
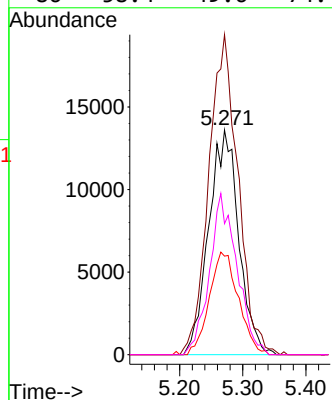
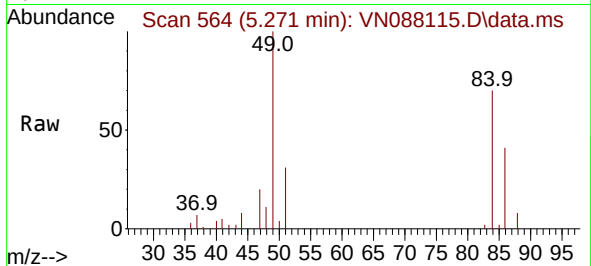




#20  
Methylene Chloride  
Concen: 14.908 ug/l  
RT: 5.271 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

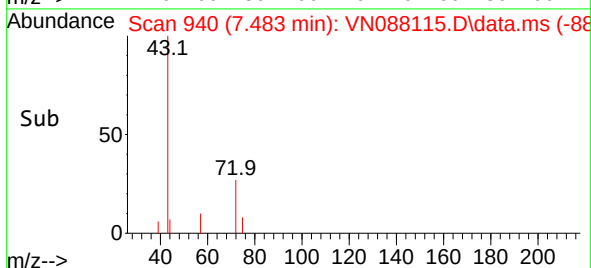
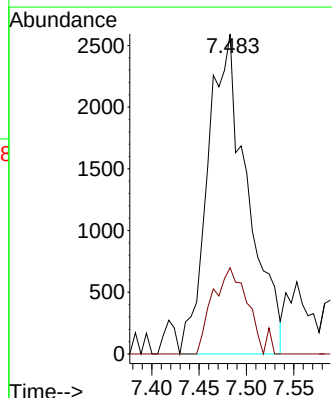
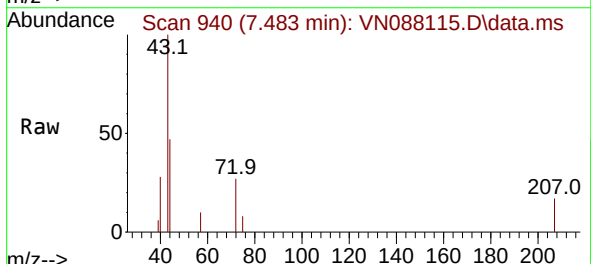
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MSVOA\_N  
ClientSampleId :  
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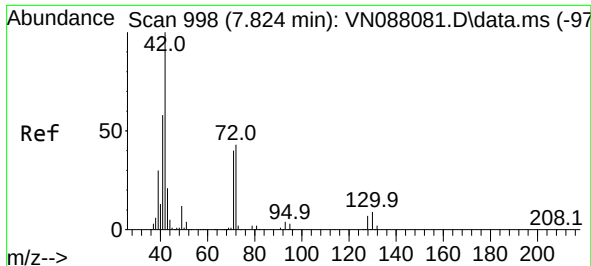
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 44825 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 142.5 | 103.4 | 155.2 |
| 51       | 43.9  | 33.8  | 50.8  |
| 86       | 58.4  | 49.6  | 74.4  |



#25  
2-Butanone  
Concen: 2.864 ug/l  
RT: 7.483 min Scan# 940  
Delta R.T. 0.018 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7570  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 27.0  | 19.9  | 29.9  |

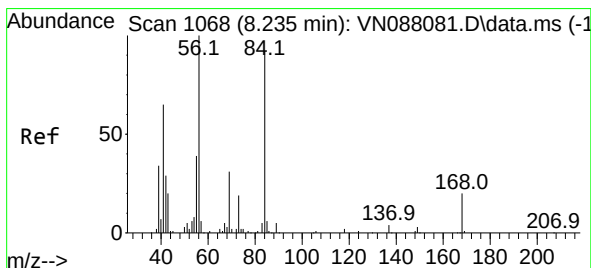
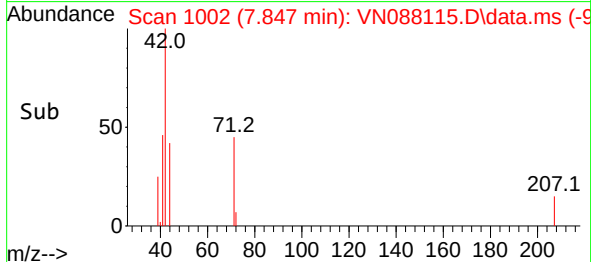
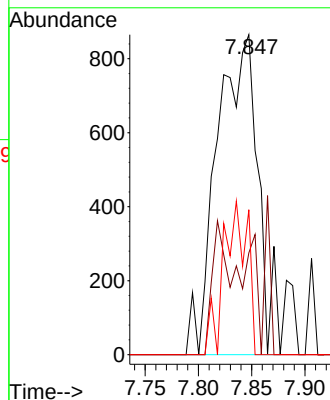
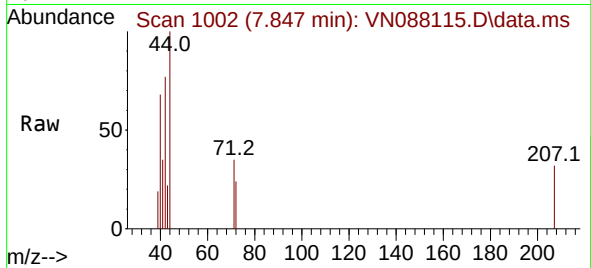




#29  
Tetrahydrofuran  
Concen: 1.348 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.023 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

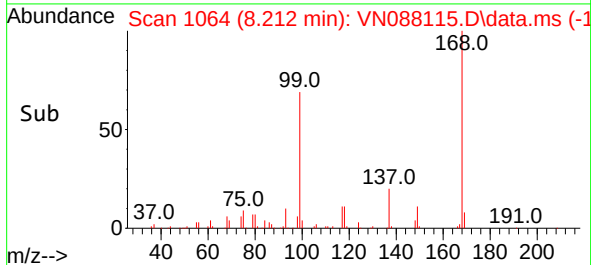
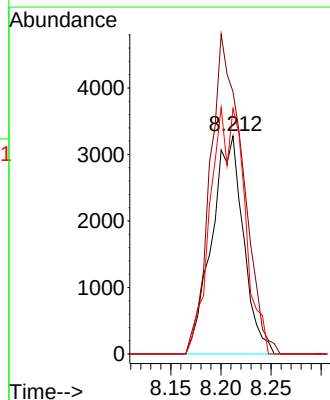
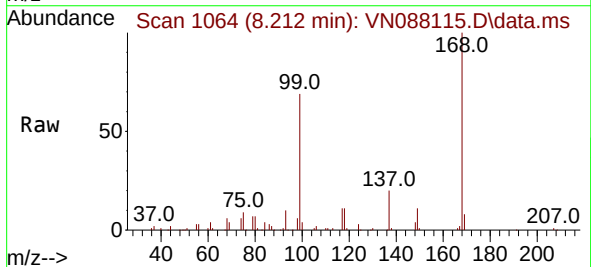
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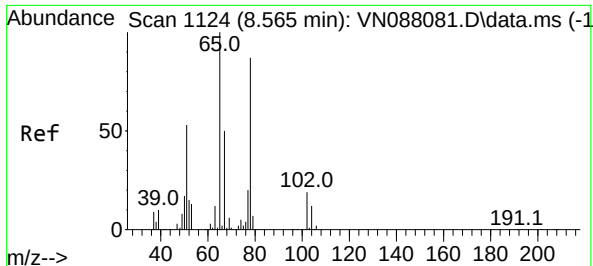
Tgt Ion: 42 Resp: 2323  
Ion Ratio Lower Upper  
42 100  
72 9.1 33.7 50.5#  
71 27.6 31.9 47.9#



#31  
Cyclohexane  
Concen: 1.284 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.024 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 56 Resp: 7175  
Ion Ratio Lower Upper  
56 100  
69 120.3 23.7 35.5#  
84 112.7 64.7 97.1#

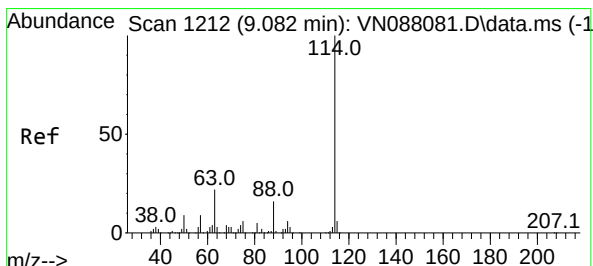
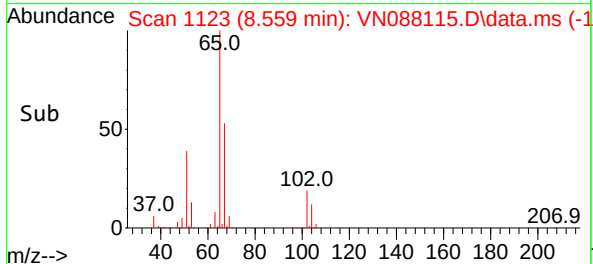
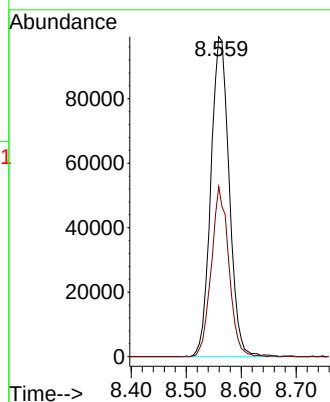
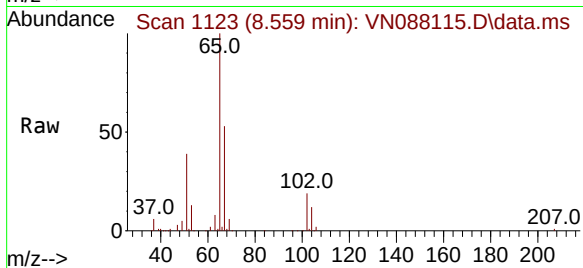




#33  
1,2-Dichloroethane-d4  
Concen: 57.615 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

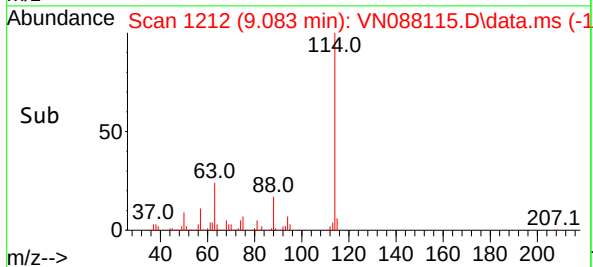
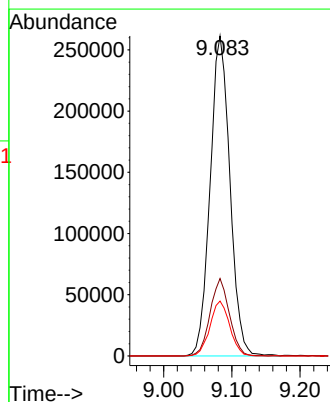
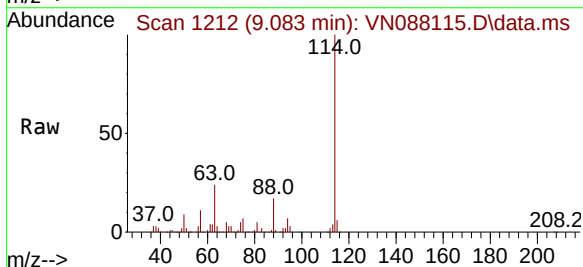
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ClientSampleId :  
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Tgt Ion: 65 Resp: 230052  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 100.0

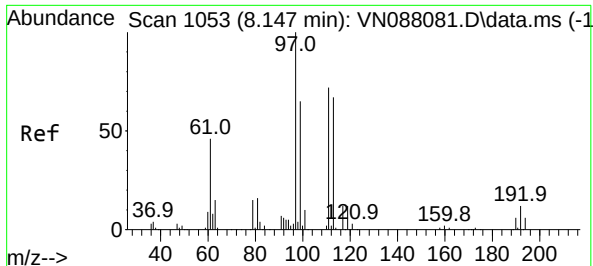


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.083 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 114 Resp: 528997  
Ion Ratio Lower Upper  
114 100  
63 24.2 0.0 45.2  
88 17.2 0.0 33.4



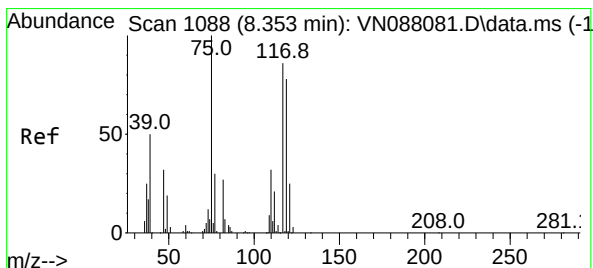
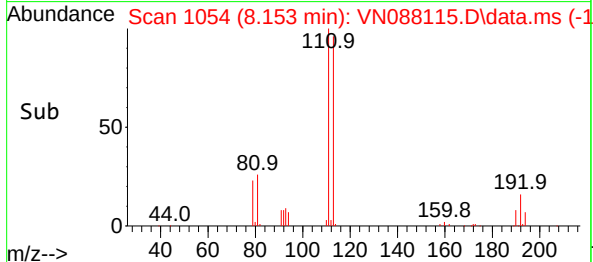
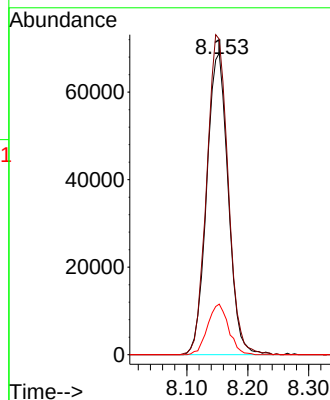
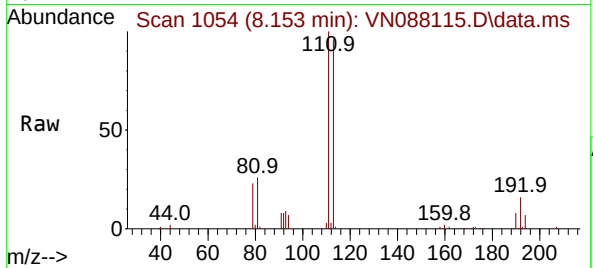




#35  
 Dibromofluoromethane  
 Concen: 47.590 ug/l  
 RT: 8.153 min Scan# 1054  
 Delta R.T. -0.000 min  
 Lab File: VN088115.D  
 Acq: 27 Oct 2025 15:36

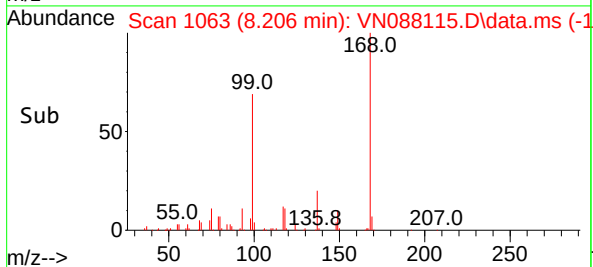
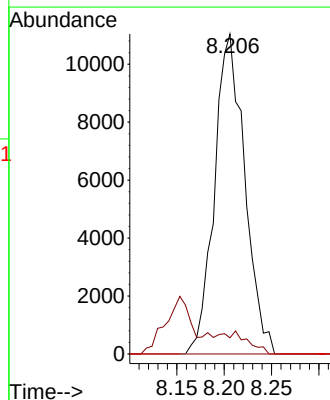
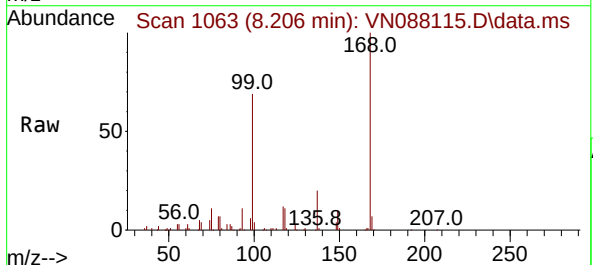
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-11

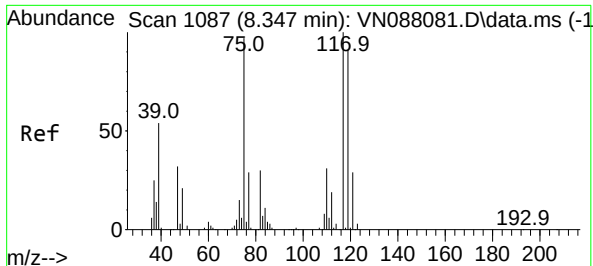
Tgt Ion:113 Resp: 169128  
 Ion Ratio Lower Upper  
 113 100  
 111 105.7 82.8 124.2  
 192 16.3 12.8 19.2



#36  
 1,1-Dichloropropene  
 Concen: 4.731 ug/l  
 RT: 8.206 min Scan# 1063  
 Delta R.T. -0.147 min  
 Lab File: VN088115.D  
 Acq: 27 Oct 2025 15:36

Tgt Ion: 75 Resp: 24547  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 15.9 47.6#  
 77 0.0 24.4 36.6#

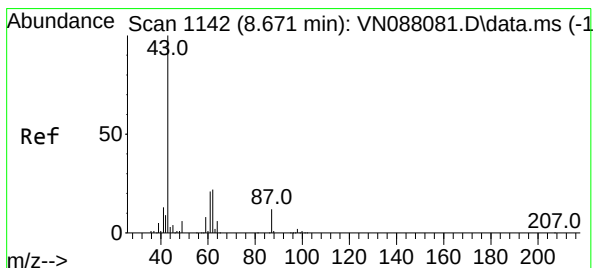
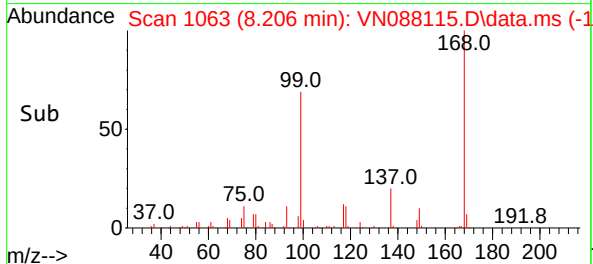
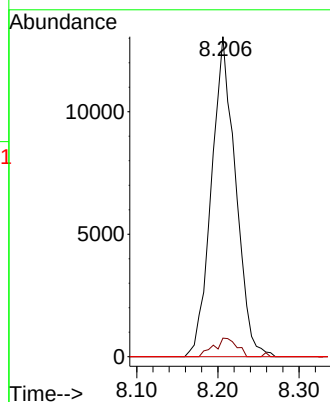
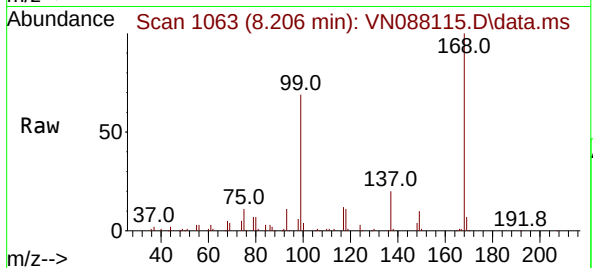




#38  
Carbon Tetrachloride  
Concen: 5.041 ug/l  
RT: 8.206 min Scan# 1106  
Delta R.T. -0.135 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

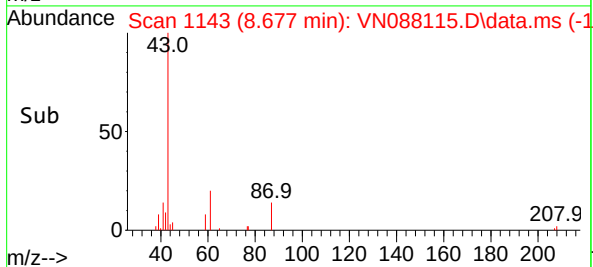
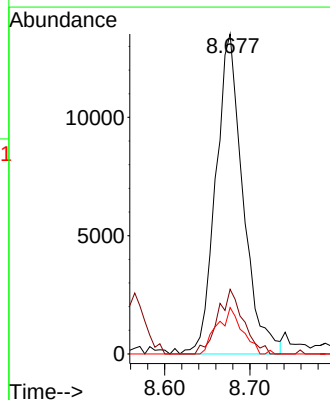
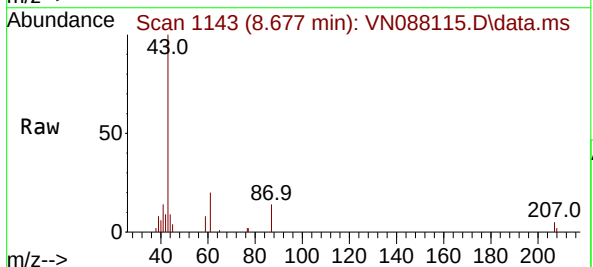
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MSVOA\_N  
ClientSampleId :  
TP-11

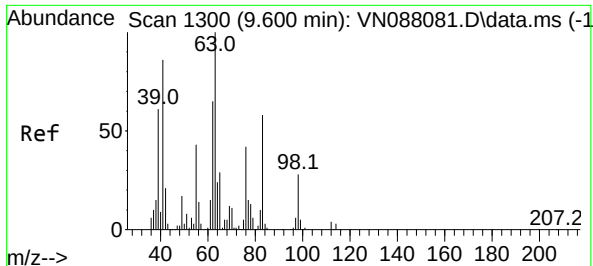
Tgt Ion:117 Resp: 27016  
Ion Ratio Lower Upper  
117 100  
119 5.8 79.0 118.6#  
121 0.0 25.0 37.6#



#43  
Isopropyl Acetate  
Concen: 2.911 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 43 Resp: 29954  
Ion Ratio Lower Upper  
43 100  
61 19.1 18.8 28.2  
87 13.1 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.366 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.123 min

Lab File: VN088115.D

Acq: 27 Oct 2025 15:36

Instrument :

MSVOA\_N

ClientSampleId :

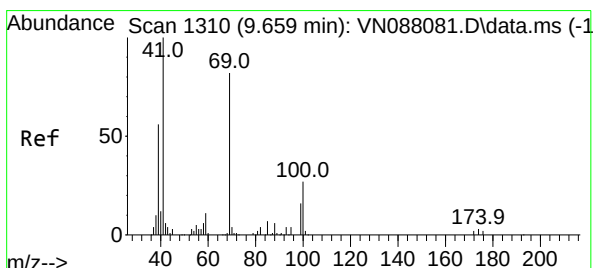
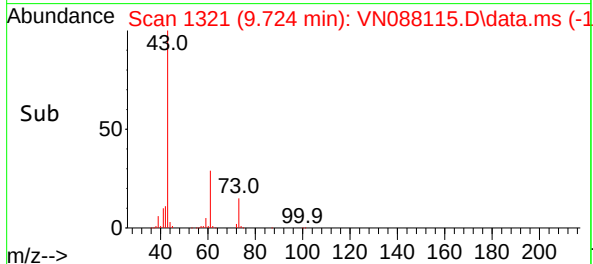
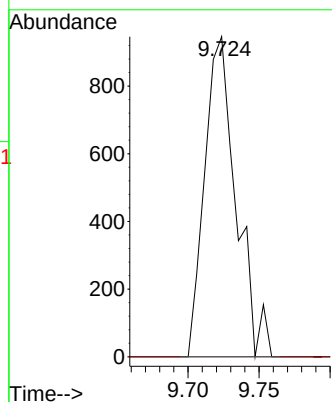
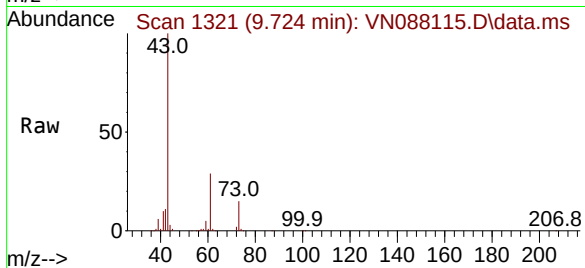
TP-11

Tgt Ion: 63 Resp: 1459

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 27.113 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN088115.D

Acq: 27 Oct 2025 15:36

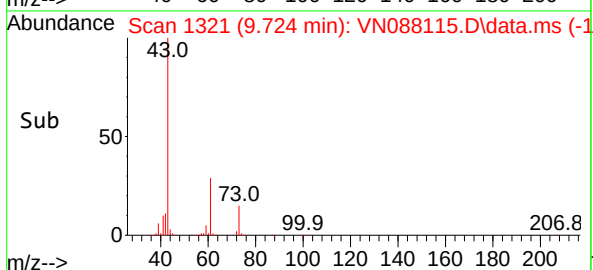
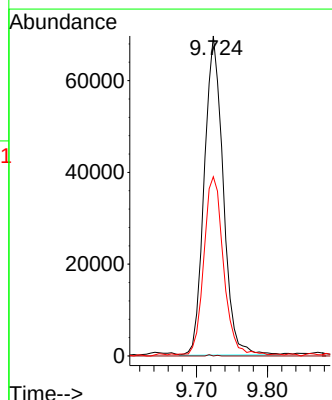
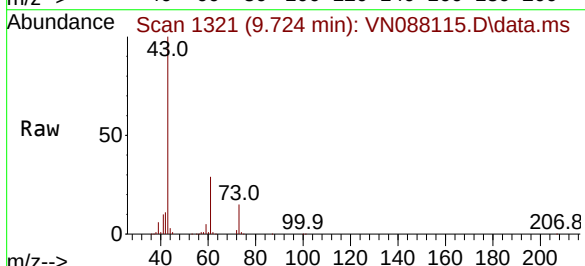
Tgt Ion: 41 Resp: 128804

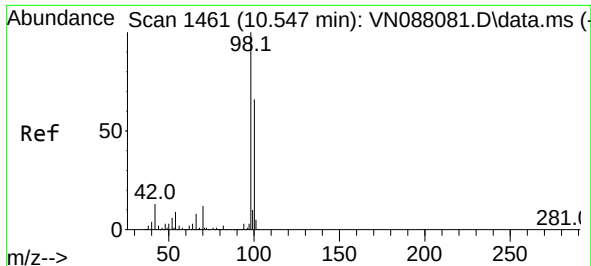
Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 57.6 52.9 79.3

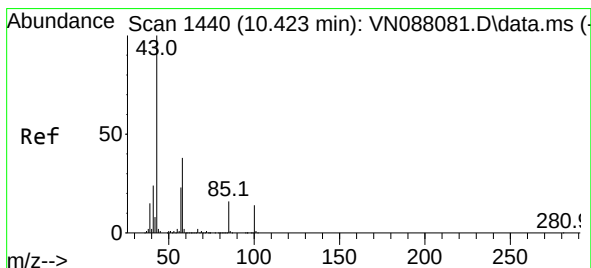
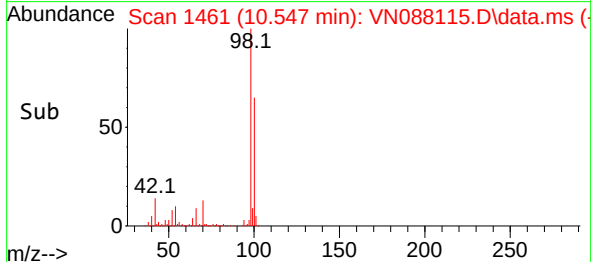
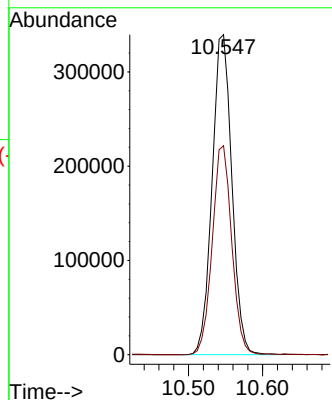
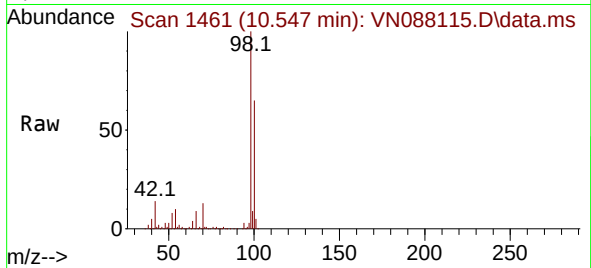




#50  
Toluene-d8  
Concen: 45.865 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

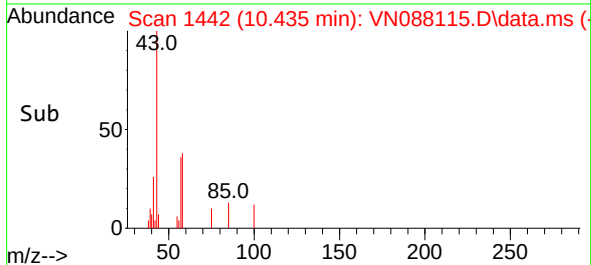
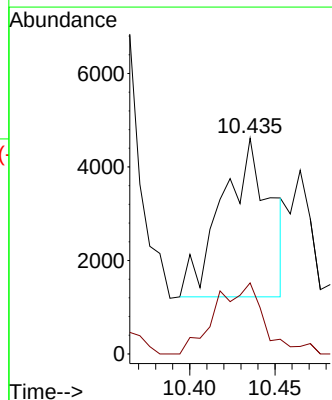
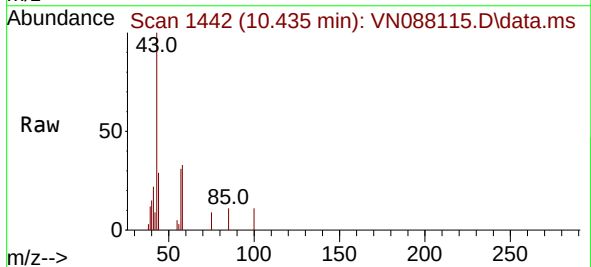
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-11

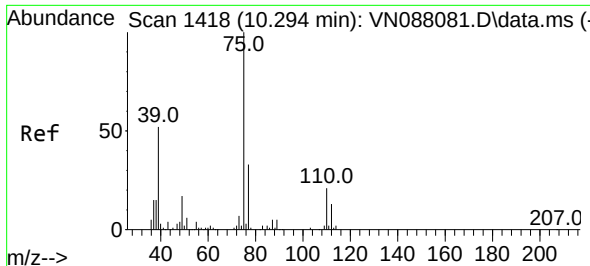
Tgt Ion: 98 Resp: 628054  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.8 79.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.092 ug/l  
RT: 10.435 min Scan# 1442  
Delta R.T. 0.012 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 43 Resp: 6646  
Ion Ratio Lower Upper  
43 100  
58 45.9 29.6 44.4#

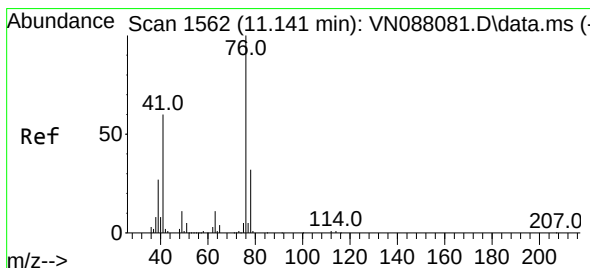
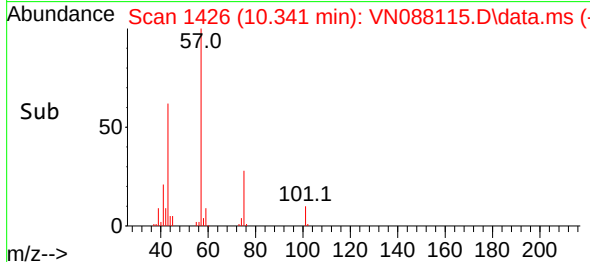
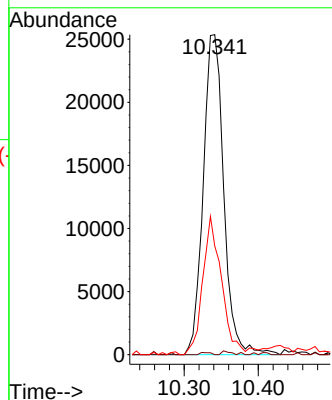
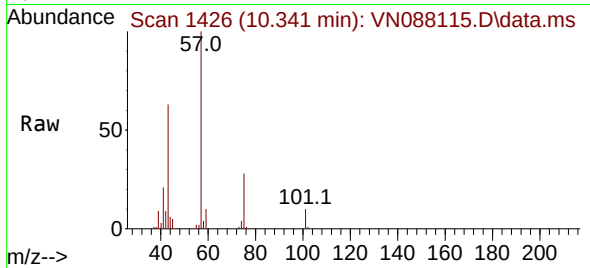




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.588 ug/l  
 RT: 10.341 min Scan# 1418  
 Delta R.T. 0.053 min  
 Lab File: VN088115.D  
 Acq: 27 Oct 2025 15:36

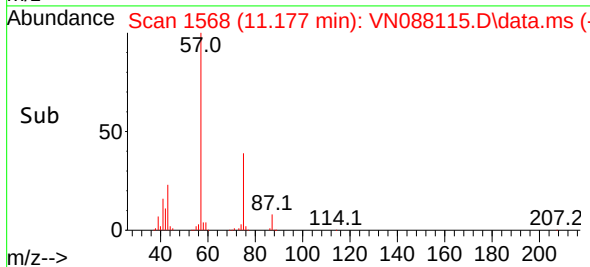
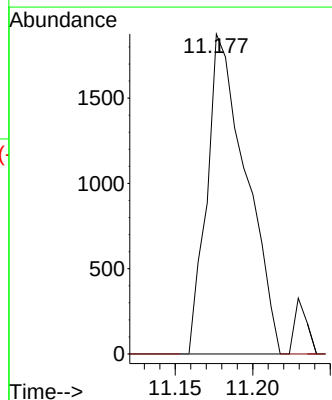
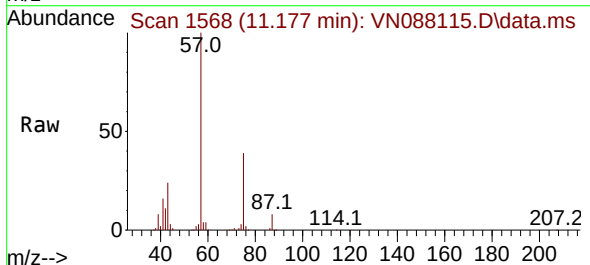
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-11

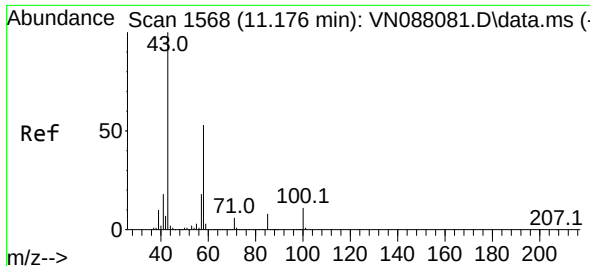
Tgt Ion: 75 Resp: 48818  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.6 37.0#  
 39 33.9 45.2 67.8#



#57  
 1,3-Dichloropropane  
 Concen: 0.506 ug/l  
 RT: 11.177 min Scan# 1568  
 Delta R.T. 0.035 min  
 Lab File: VN088115.D  
 Acq: 27 Oct 2025 15:36

Tgt Ion: 76 Resp: 3290  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.2 39.4#

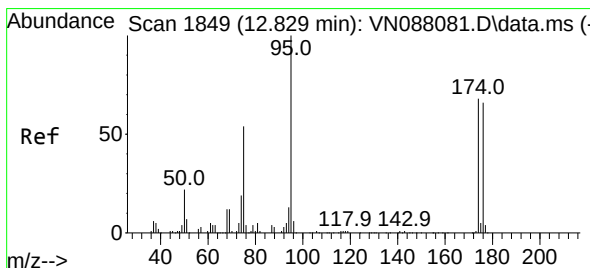
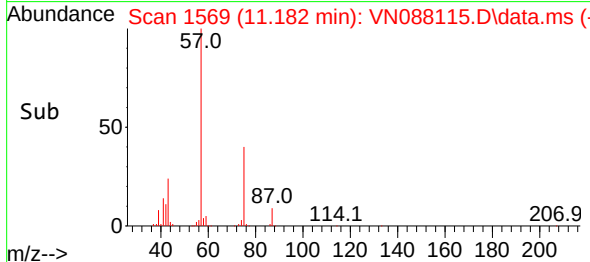
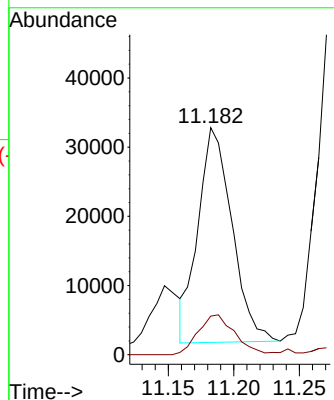
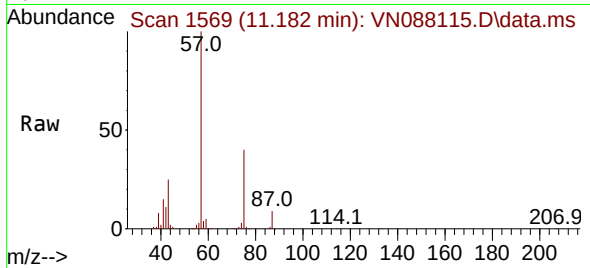




#59  
2-Hexanone  
Concen: 13.840 ug/l  
RT: 11.182 min Scan# 11569  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

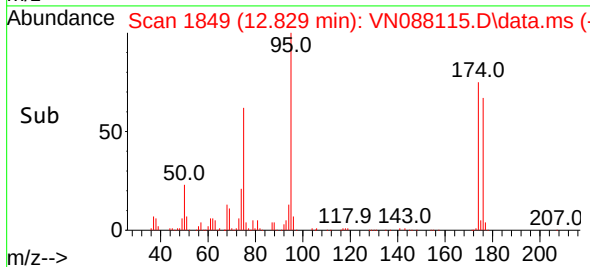
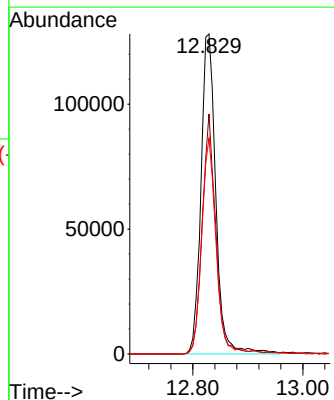
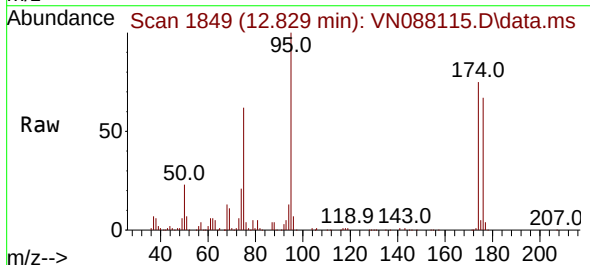
Instrument :  
MSVOA\_N  
ClientSampleId :  
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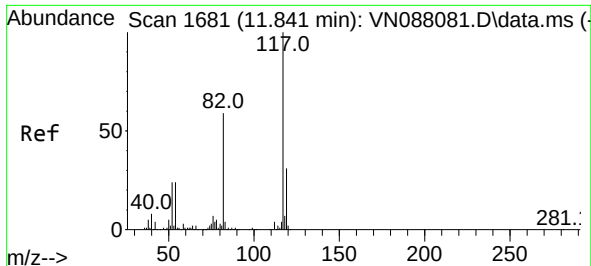
Tgt Ion: 43 Resp: 55886  
Ion Ratio Lower Upper  
43 100  
58 20.3 25.9 77.8#



#62  
4-Bromofluorobenzene  
Concen: 49.794 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 95 Resp: 240805  
Ion Ratio Lower Upper  
95 100  
174 68.0 0.0 138.4  
176 65.1 0.0 132.6

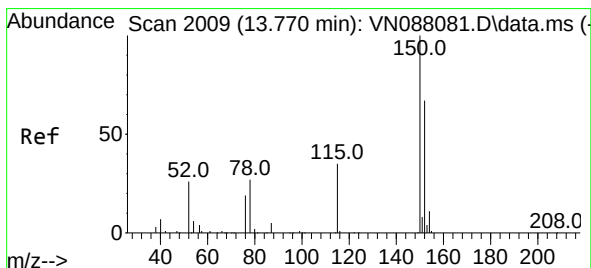
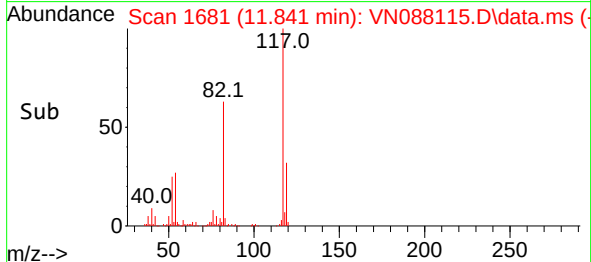
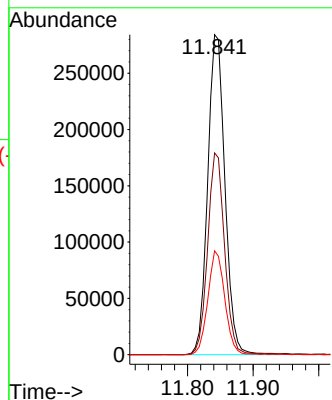
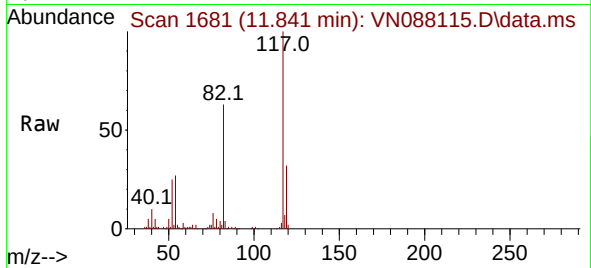




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.841 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

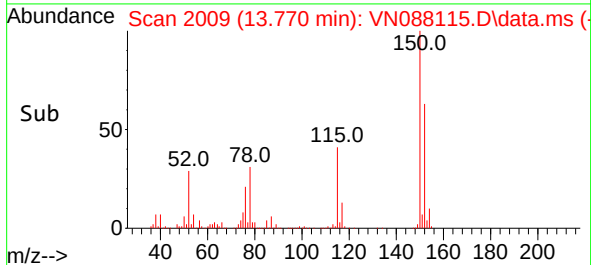
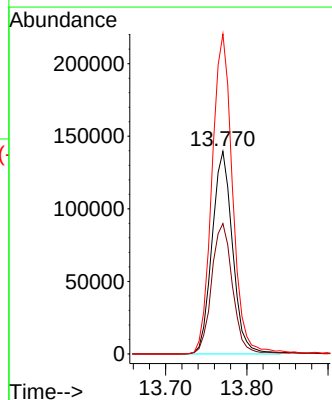
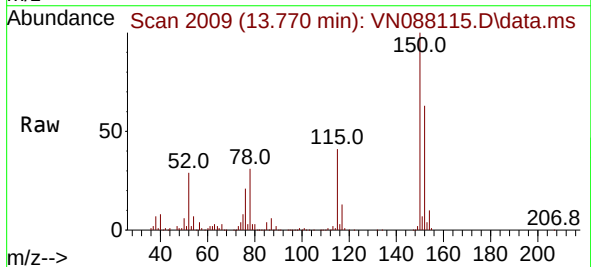
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ClientSampleId :  
TP-11

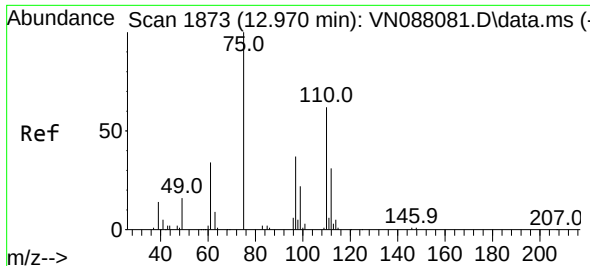
Tgt Ion:117 Resp: 520621  
Ion Ratio Lower Upper  
117 100  
82 63.0 47.4 71.2  
119 32.5 24.3 36.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.770 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion:152 Resp: 245170  
Ion Ratio Lower Upper  
152 100  
115 65.7 32.3 96.8  
150 158.7 0.0 351.0

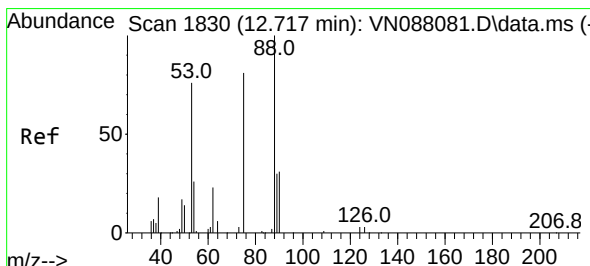
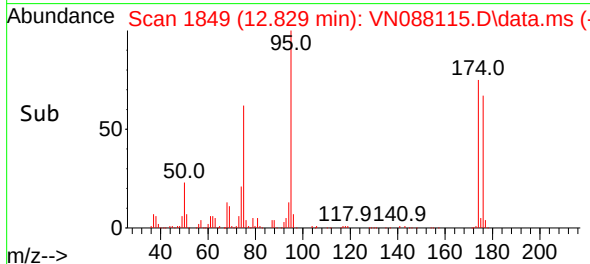
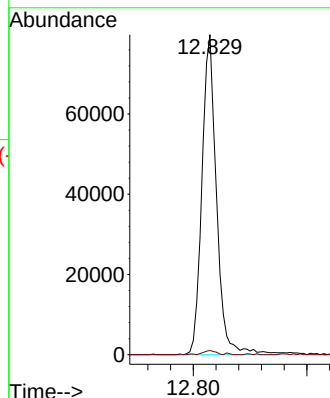
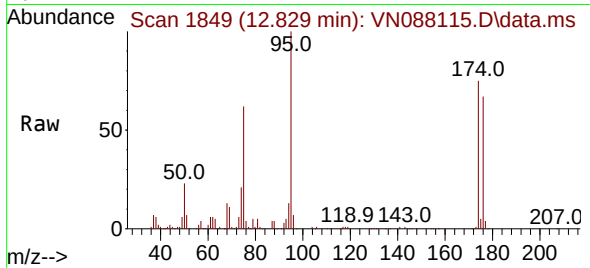




#76  
1,2,3-Trichloropropane  
Concen: 25.362 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.141 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-11

Tgt Ion: 75 Resp: 142160  
Ion Ratio Lower Upper  
75 100  
77 1.2 89.1 267.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.747 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN088115.D  
Acq: 27 Oct 2025 15:36

Tgt Ion: 75 Resp: 142160  
Ion Ratio Lower Upper  
75 100  
53 0.0 101.8 152.6#  
89 0.2 35.6 53.4#

