

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087463.D  
 Acq On : 05 Aug 2025 18:14  
 Operator : JC\MD  
 Sample : Q2771-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 001-WILLETS-PT-BLVD(JUNE)

Quant Time: Aug 06 02:44:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

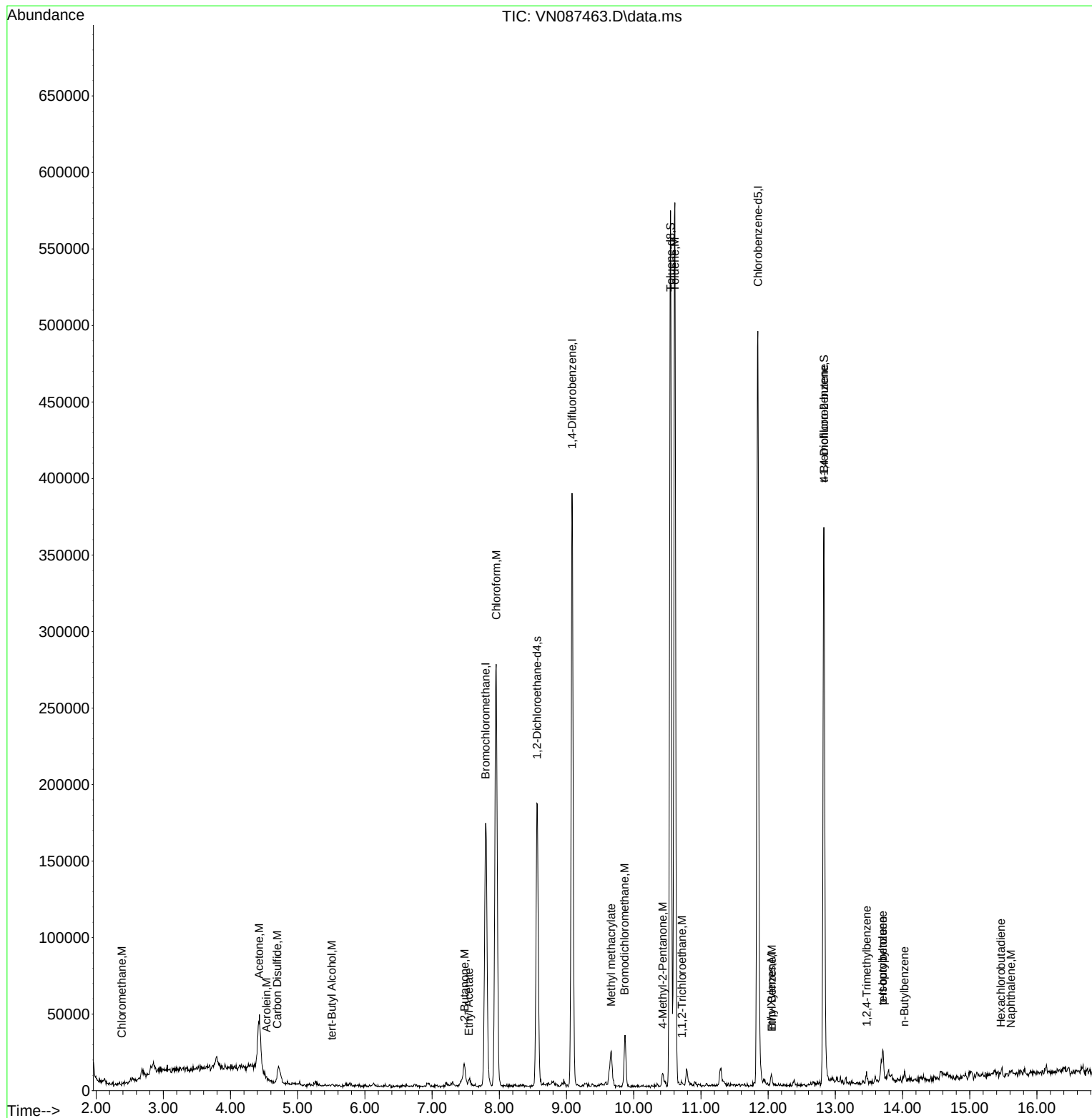
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.794  | 128   | 54767    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.083  | 114   | 306638   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.847 | 117   | 270091   | 30.000   | ug/l   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 158888   | 31.454   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 104.833% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 130789   | 28.138   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 93.800%  |
| 63) Toluene-d8              | 10.547 | 98    | 374556   | 30.139   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 100.467% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 2.383  | 50    | 923      | 0.252    | ug/l # | 42       |
| 13) Acrolein                | 4.536  | 56    | 239      | 0.283    | ug/l   | 97       |
| 15) Acetone                 | 4.424  | 58    | 12974    | 18.786   | ug/l   | 85       |
| 16) Carbon Disulfide        | 4.695  | 76    | 2274     | 0.244    | ug/l # | 75       |
| 23) tert-Butyl Alcohol      | 5.506  | 59    | 312      | 0.304    | ug/l # | 100      |
| 25) Chloroform              | 7.953  | 83    | 266418   | 35.452   | ug/l   | 98       |
| 30) 2-Butanone              | 7.483  | 43    | 24308    | 6.594    | ug/l # | 80       |
| 41) Bromodichloromethane    | 9.865  | 83    | 21982    | 3.483    | ug/l # | 83       |
| 43) Ethyl Acetate           | 7.547  | 43    | 6452     | 0.906    | ug/l # | 74       |
| 46) Methyl methacrylate     | 9.665  | 41    | 13676    | 2.400    | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane   | 10.718 | 97    | 1142     | 0.298    | ug/l # | 16       |
| 58) 4-Methyl-2-Pentanone    | 10.430 | 43    | 5655     | 0.814    | ug/l   | 91       |
| 62) Toluene                 | 10.612 | 91    | 429185   | 25.746   | ug/l   | 100      |
| 66) Ethyl Benzene           | 12.053 | 91    | 3949     | 0.213    | ug/l   | 99       |
| 67) m/p-Xylenes             | 12.047 | 106   | 1730     | 0.254    | ug/l   | 93       |
| 77) t-1,4-Dichloro-2-butene | 12.829 | 75    | 78794    | 38.255   | ug/l # | 3        |
| 79) tert-butylbenzene       | 13.706 | 119   | 9452     | 0.768    | ug/l   | 47       |
| 80) 1,2,4-Trimethylbenzene  | 13.465 | 105   | 4375     | 0.300    | ug/l   | 96       |
| 82) p-Isopropyltoluene      | 13.706 | 119   | 9452     | 0.635    | ug/l   | 85       |
| 85) n-Butylbenzene          | 14.029 | 91    | 3379     | 0.232    | ug/l   | 83       |
| 90) Hexachlorobutadiene     | 15.465 | 225   | 613      | 0.367    | ug/l   | 53       |
| 91) Naphthalene             | 15.612 | 128   | 3626     | 0.222    | ug/l # | 86       |
| -----                       |        |       |          |          |        |          |

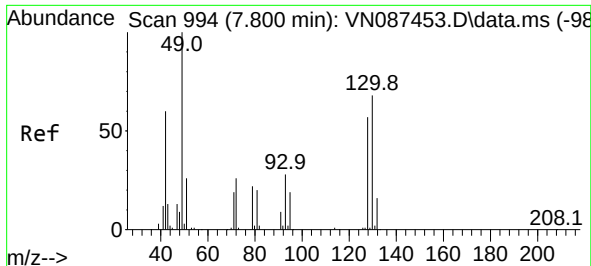
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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001-WILLETS-PT-BLVD(JUNE)

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

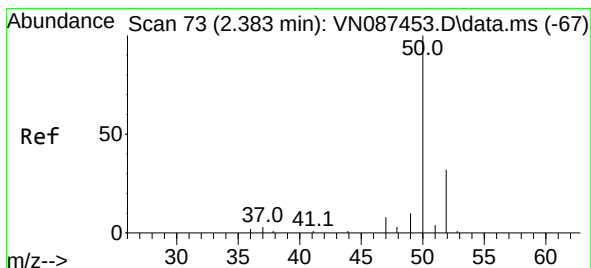
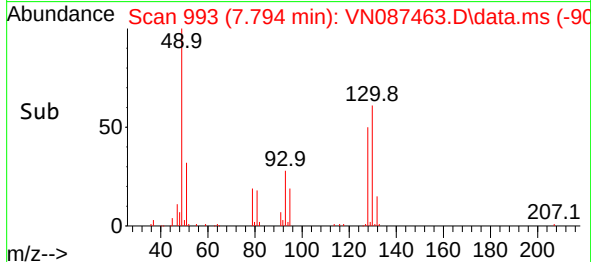
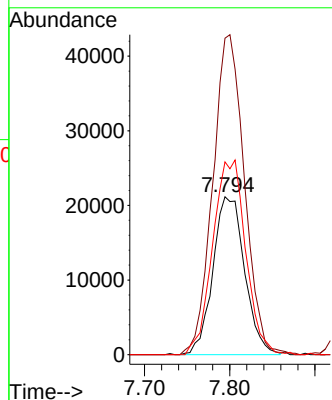
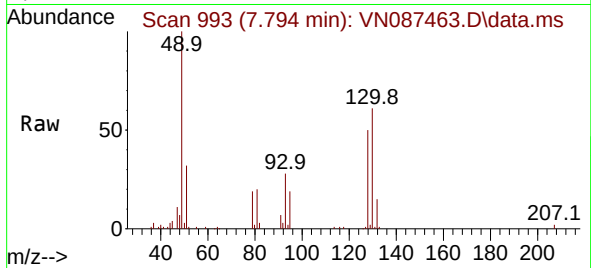




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

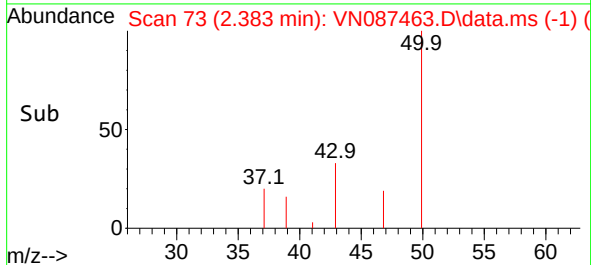
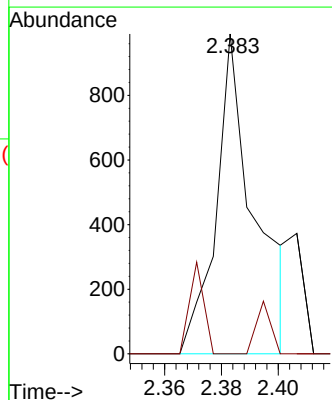
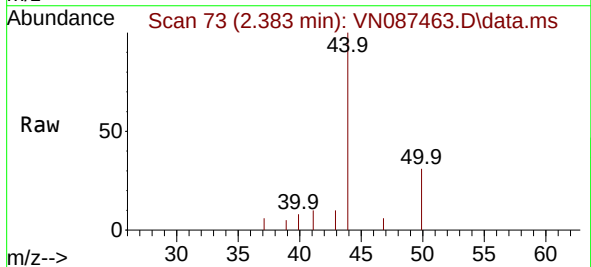
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

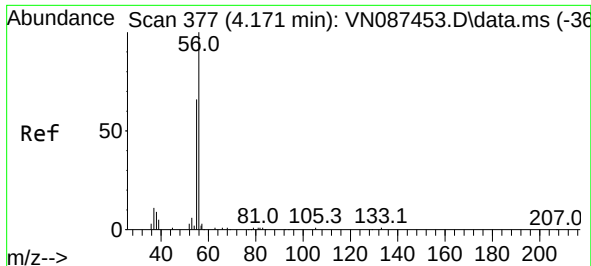
Tgt Ion:128 Resp: 54767  
Ion Ratio Lower Upper  
128 100  
49 202.0 0.0 494.8  
130 128.3 0.0 321.5



#3  
Chloromethane  
Concen: 0.252 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 50 Resp: 923  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.8 38.6#

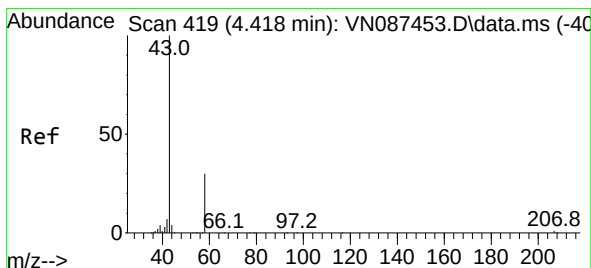
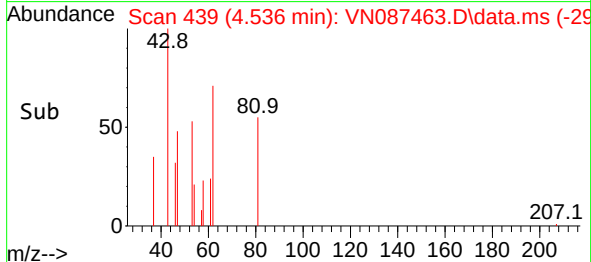
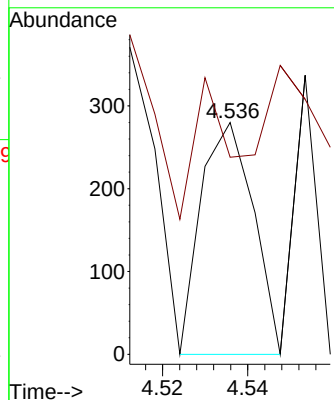
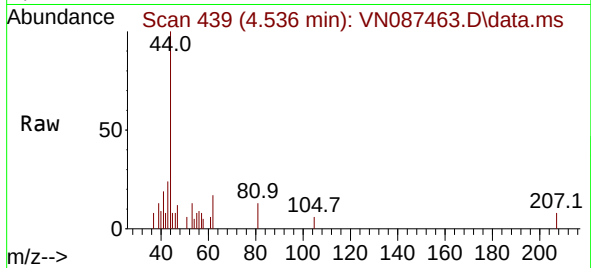




#13  
Acrolein  
Concen: 0.283 ug/l  
RT: 4.536 min Scan# 41  
Delta R.T. 0.365 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

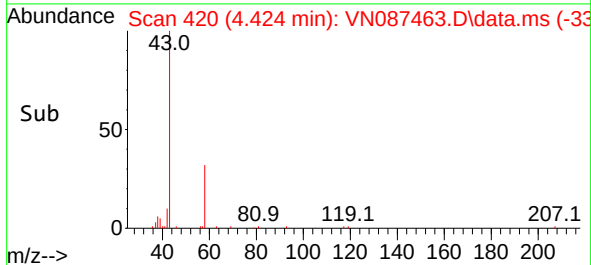
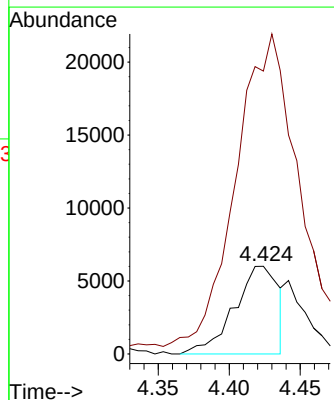
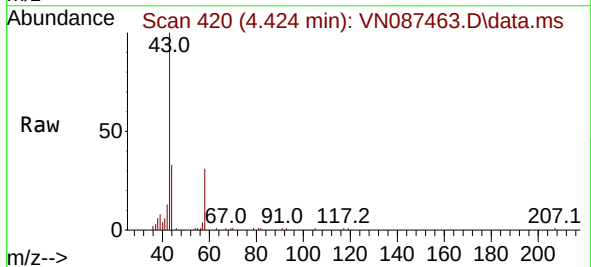
Instrument :  
MSVOA\_N  
ClientSampleId :  
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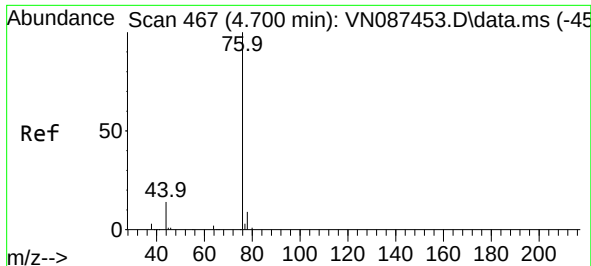
Tgt Ion: 56 Resp: 239  
Ion Ratio Lower Upper  
56 100  
55 74.1 57.4 86.0



#15  
Acetone  
Concen: 18.786 ug/l  
RT: 4.424 min Scan# 420  
Delta R.T. 0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 58 Resp: 12974  
Ion Ratio Lower Upper  
58 100  
43 304.1 268.9 403.3

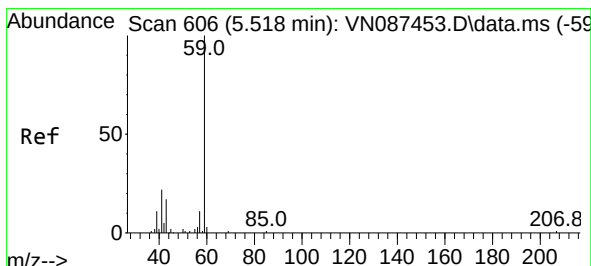
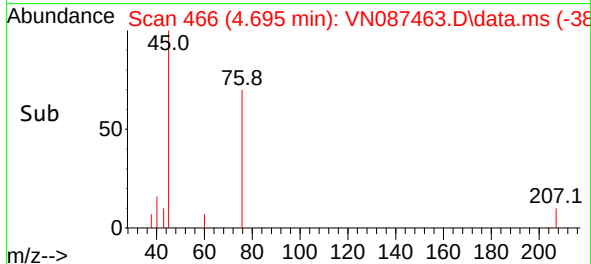
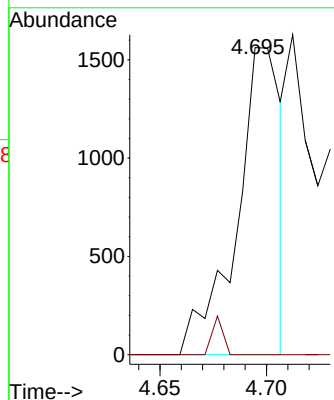
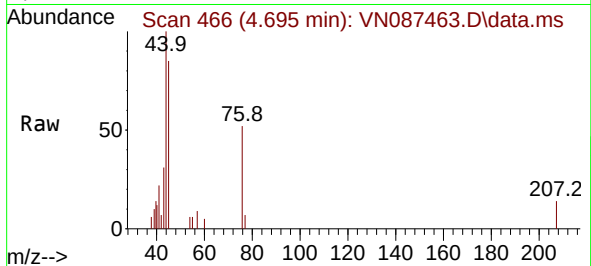




#16  
Carbon Disulfide  
Concen: 0.244 ug/l  
RT: 4.695 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

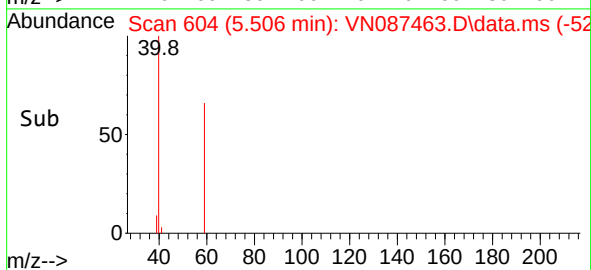
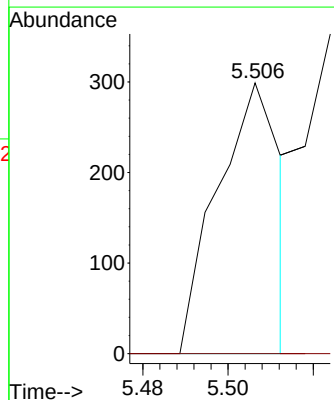
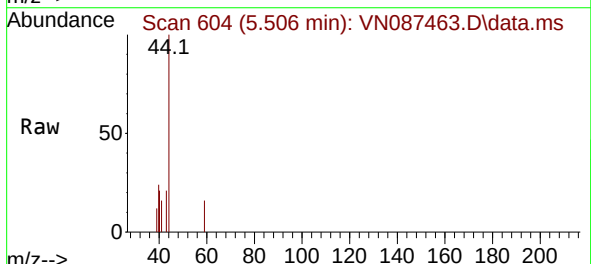
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

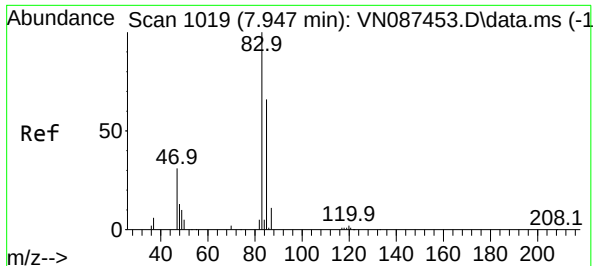
Tgt Ion: 76 Resp: 2274  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.1 10.7#



#23  
tert-Butyl Alcohol  
Concen: 0.304 ug/l  
RT: 5.506 min Scan# 604  
Delta R.T. -0.012 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 59 Resp: 312  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

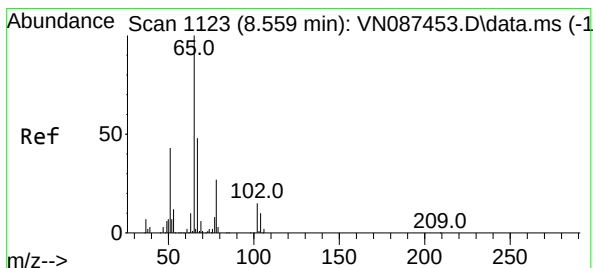
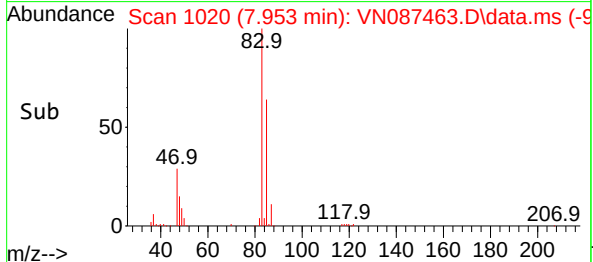
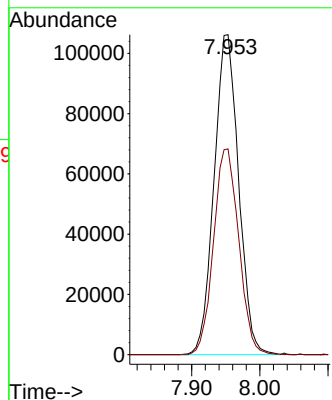
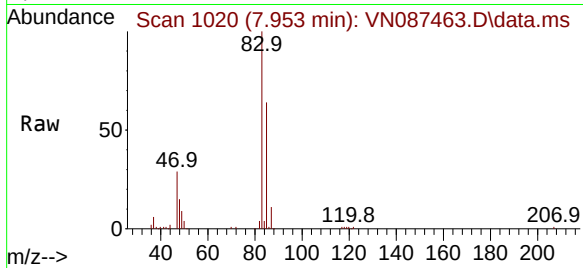




#25  
Chloroform  
Concen: 35.452 ug/l  
RT: 7.953 min Scan# 1019  
Delta R.T. 0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

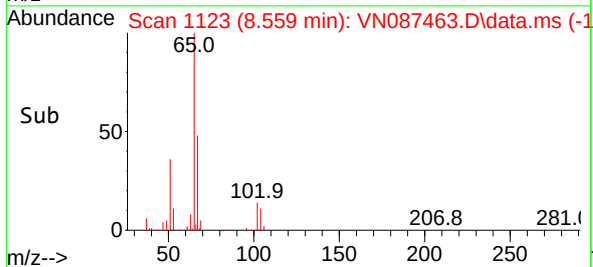
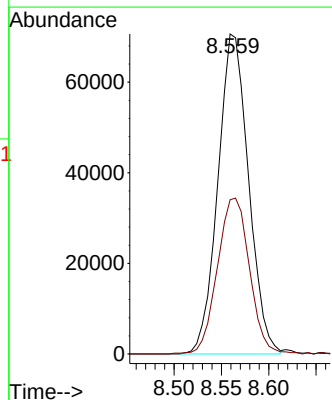
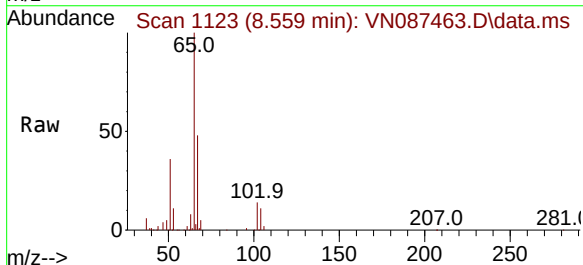
Instrument :  
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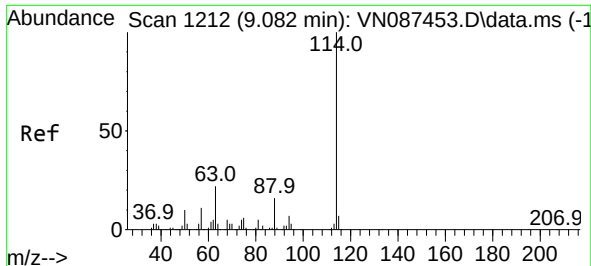
Tgt Ion: 83 Resp: 266418  
Ion Ratio Lower Upper  
83 100  
85 64.3 52.6 78.8



#27  
1,2-Dichloroethane-d4  
Concen: 31.454 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 65 Resp: 158888  
Ion Ratio Lower Upper  
65 100  
67 51.0 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087463.D

Acq: 05 Aug 2025 18:14

Instrument :

MSVOA\_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

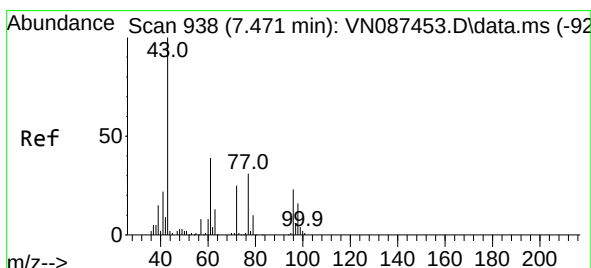
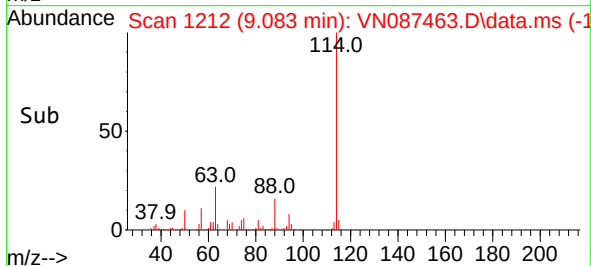
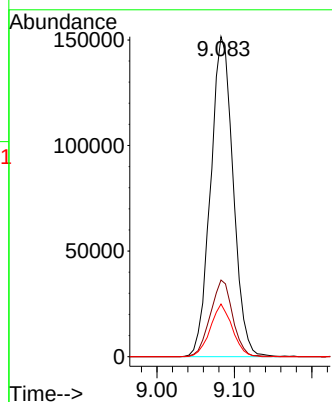
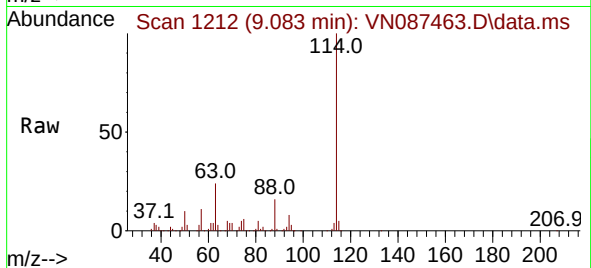
Tgt Ion:114 Resp: 306638

Ion Ratio Lower Upper

114 100

63 23.7 18.9 28.3

88 16.0 13.1 19.7



#30

2-Butanone

Concen: 6.594 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN087463.D

Acq: 05 Aug 2025 18:14

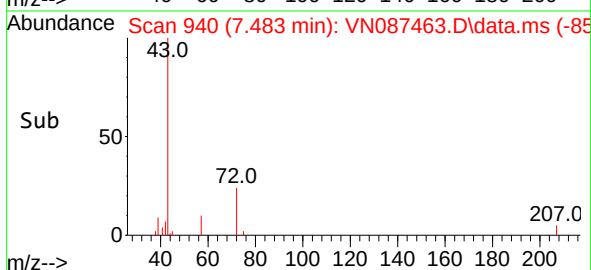
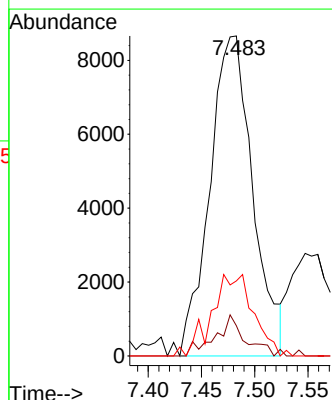
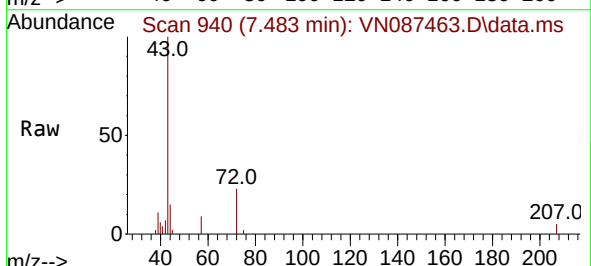
Tgt Ion: 43 Resp: 24308

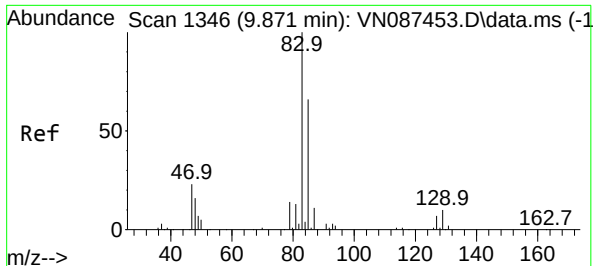
Ion Ratio Lower Upper

43 100

57 6.6 6.6 9.8

72 12.0 19.7 29.5#

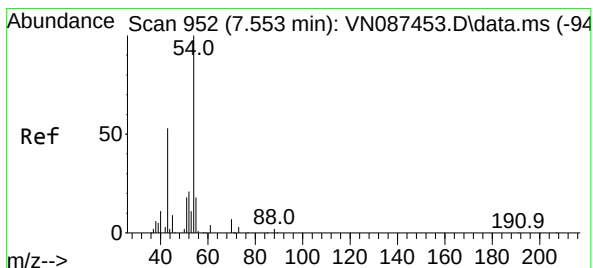
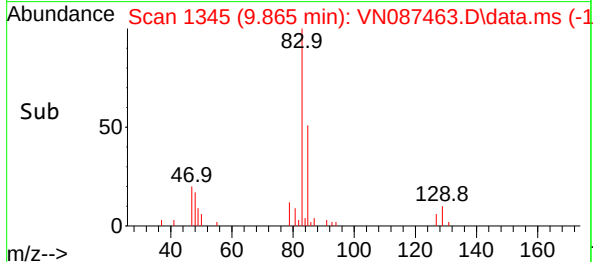
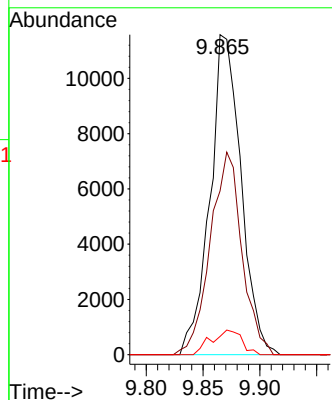
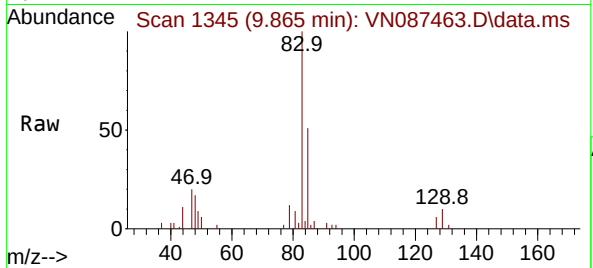




#41  
Bromodichloromethane  
Concen: 3.483 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

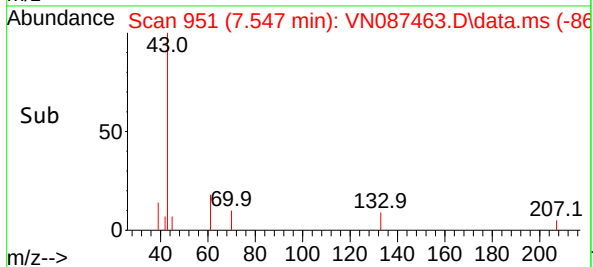
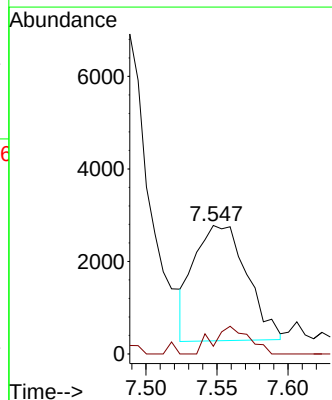
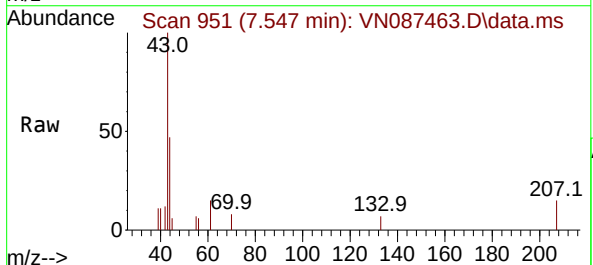
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 83 Resp: 21982  
Ion Ratio Lower Upper  
83 100  
85 51.2 52.9 79.3#  
127 5.7 5.8 8.6#

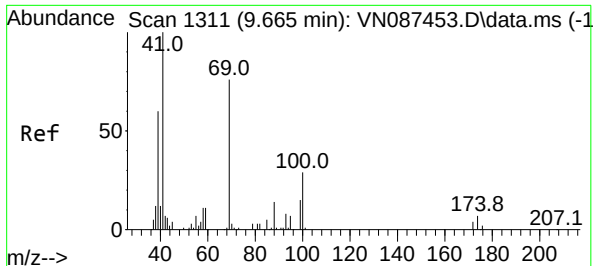


#43  
Ethyl Acetate  
Concen: 0.906 ug/l  
RT: 7.547 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 43 Resp: 6452  
Ion Ratio Lower Upper  
43 100  
45 3.3 11.1 16.7#



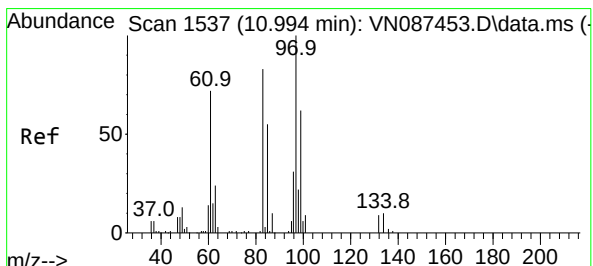
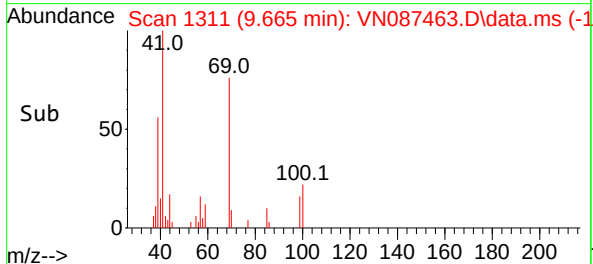
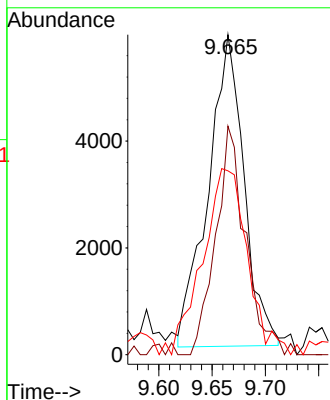
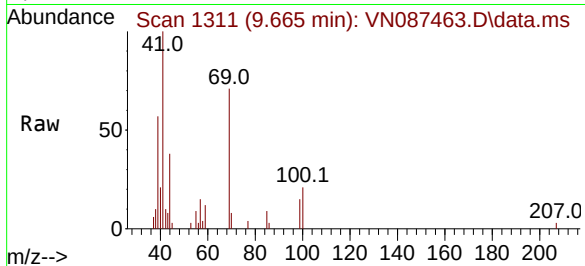




#46  
Methyl methacrylate  
Concen: 2.400 ug/l  
RT: 9.665 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

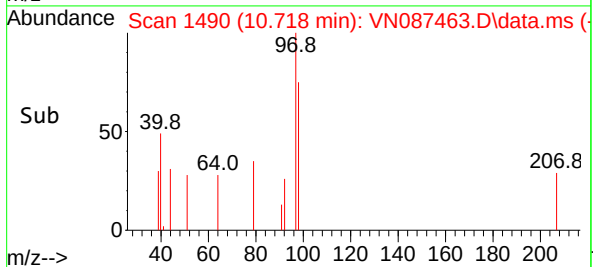
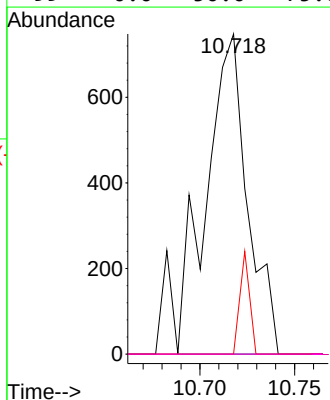
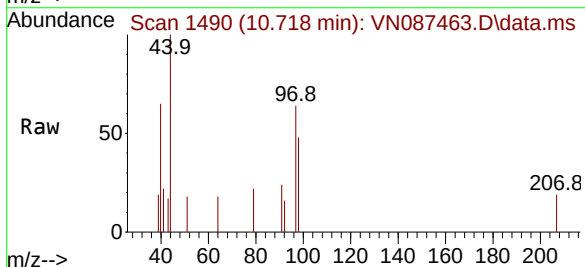
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

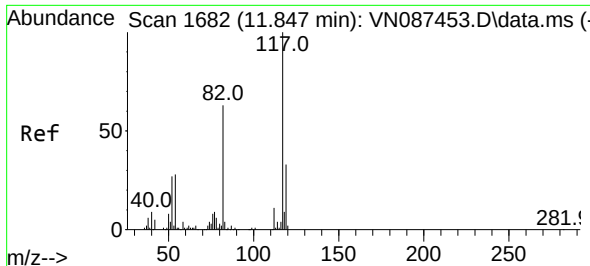
Tgt Ion: 41 Resp: 13676  
Ion Ratio Lower Upper  
41 100  
69 75.3 37.1 111.5  
39 55.7 30.7 92.1



#50  
1,1,2-Trichloroethane  
Concen: 0.298 ug/l  
RT: 10.718 min Scan# 1490  
Delta R.T. -0.276 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 97 Resp: 1142  
Ion Ratio Lower Upper  
97 100  
83 0.0 66.2 99.2#  
85 0.0 43.9 65.9#  
99 0.0 50.0 75.0#

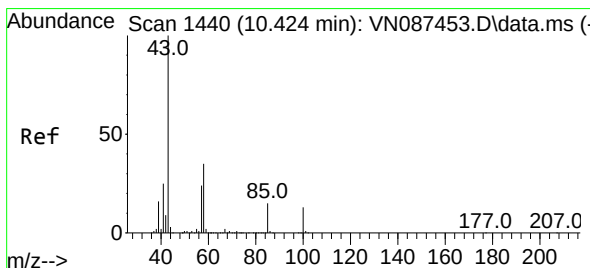
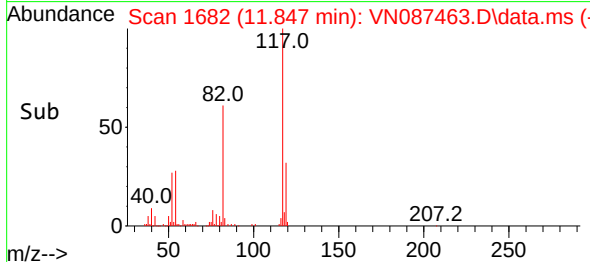
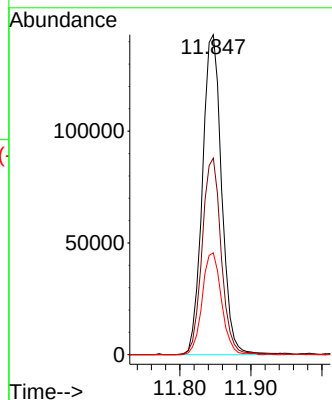
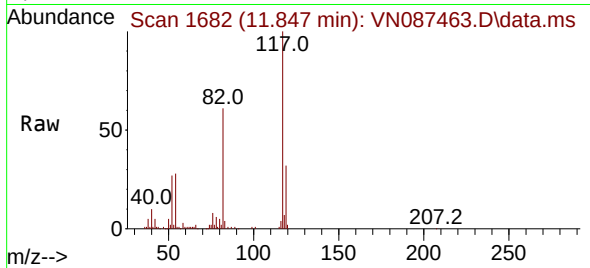




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

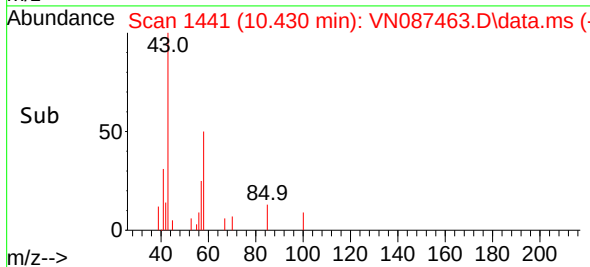
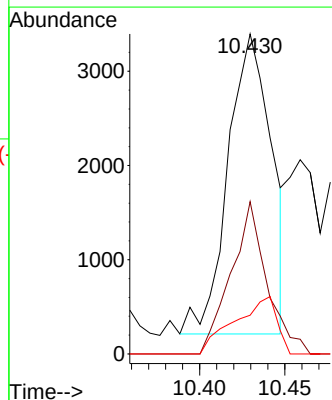
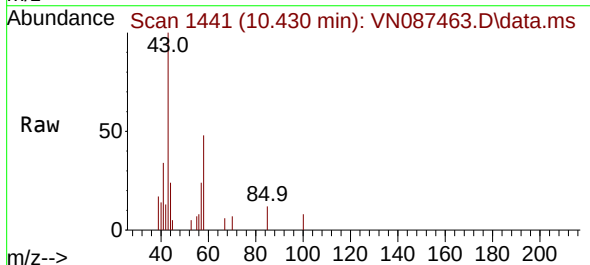
Instrument :  
MSVOA\_N  
ClientSampleId :  
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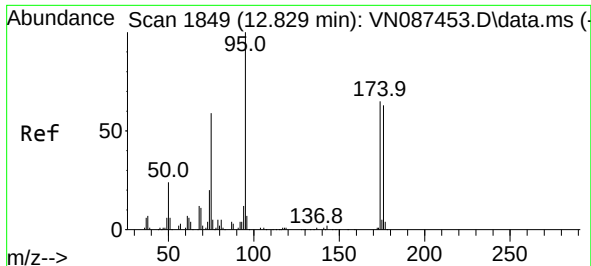
Tgt Ion:117 Resp: 270091  
Ion Ratio Lower Upper  
117 100  
82 61.1 49.2 73.8  
119 31.9 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 0.814 ug/l  
RT: 10.430 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 43 Resp: 5655  
Ion Ratio Lower Upper  
43 100  
58 42.0 29.0 43.6  
85 18.5 12.7 19.1

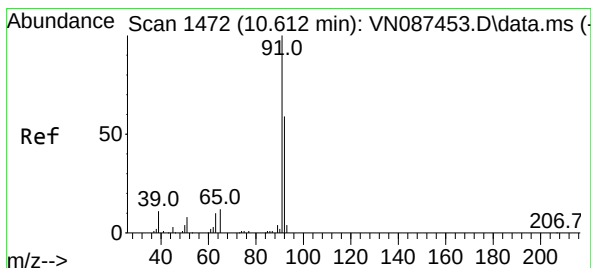
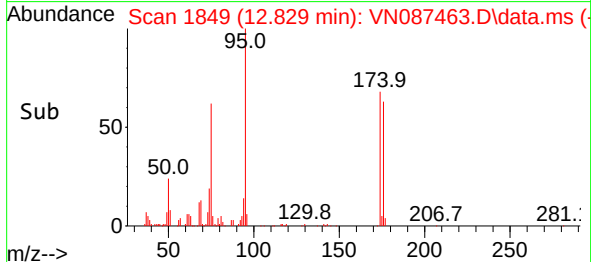
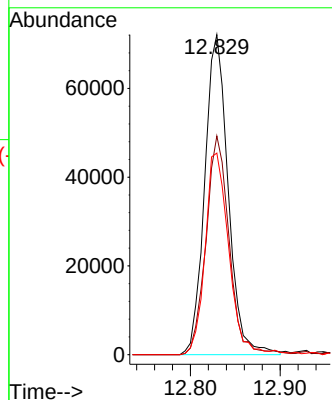
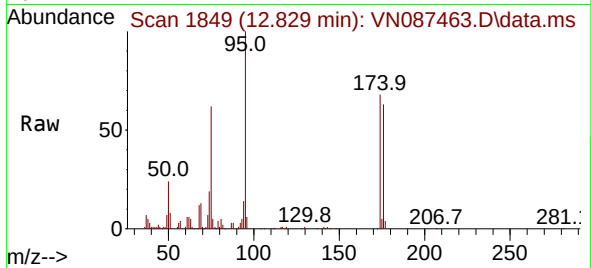




#60  
4-Bromofluorobenzene  
Concen: 28.138 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

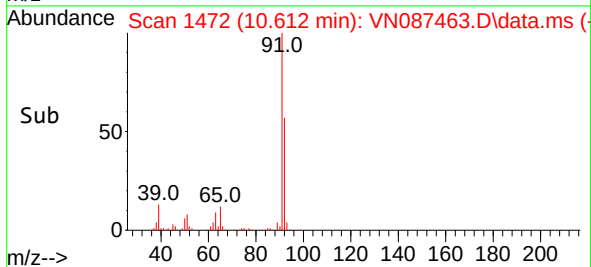
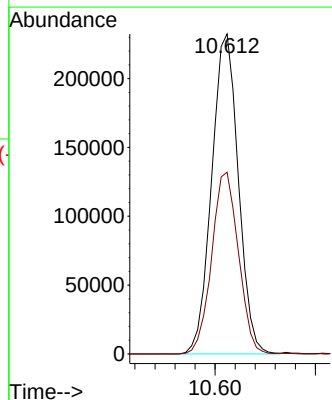
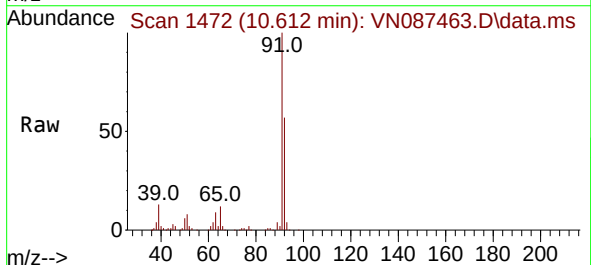
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

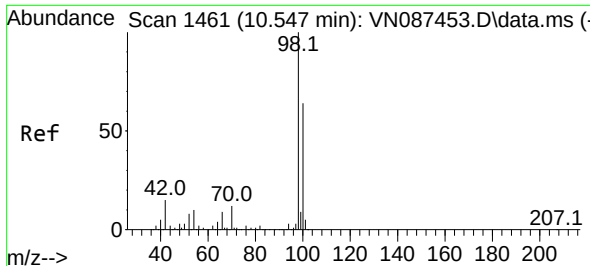
Tgt Ion: 95 Resp: 130789  
Ion Ratio Lower Upper  
95 100  
174 67.0 52.3 78.5  
176 63.3 49.8 74.8



#62  
Toluene  
Concen: 25.746 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 91 Resp: 429185  
Ion Ratio Lower Upper  
91 100  
92 56.9 45.8 68.6

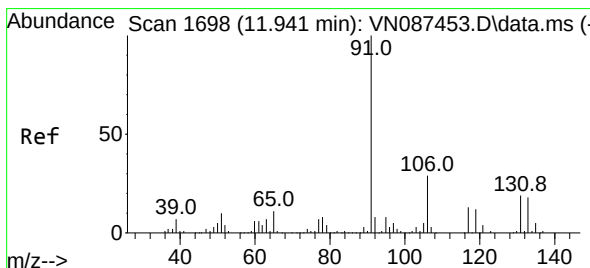
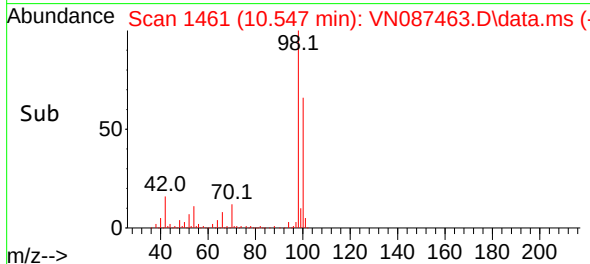
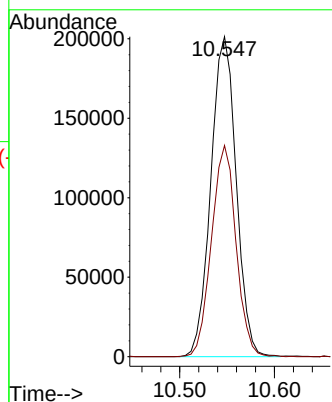
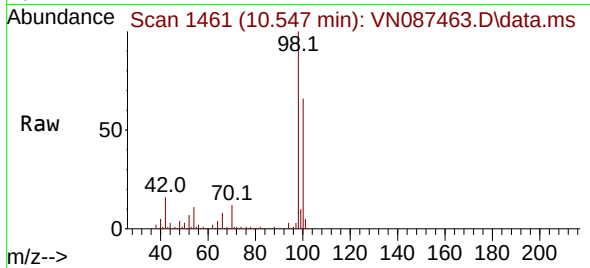




#63  
Toluene-d8  
Concen: 30.139 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

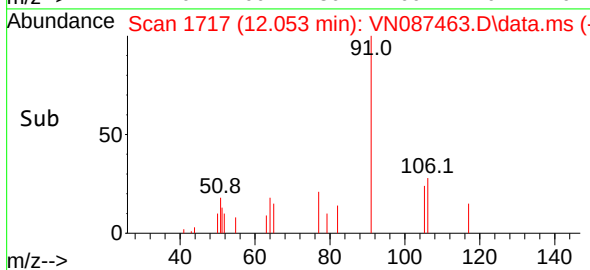
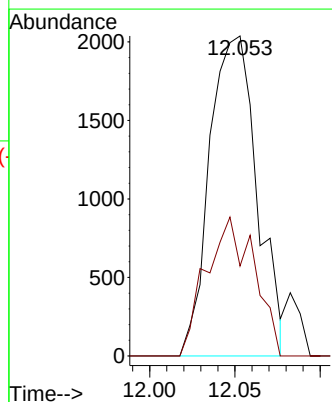
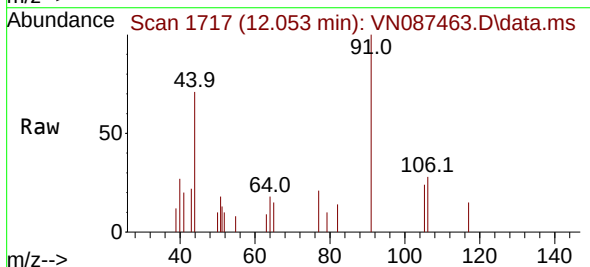
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

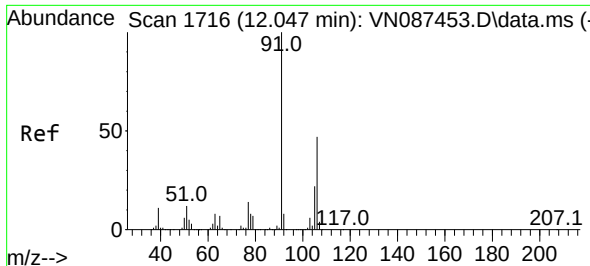
Tgt Ion: 98 Resp: 374556  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.5 75.7



#66  
Ethyl Benzene  
Concen: 0.213 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.112 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 91 Resp: 3949  
Ion Ratio Lower Upper  
91 100  
106 28.1 22.9 34.3

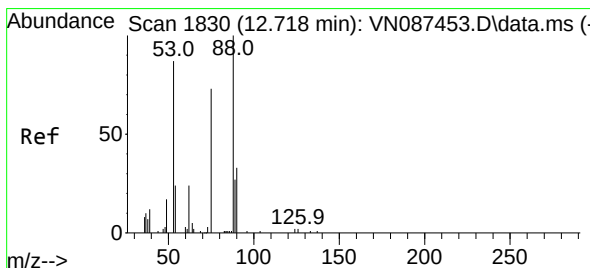
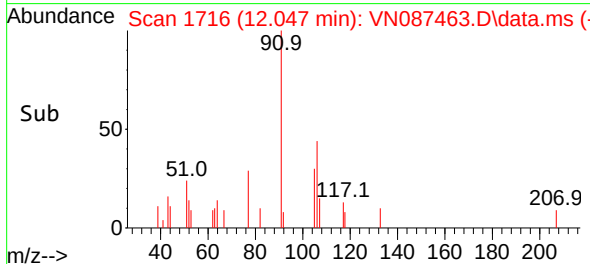
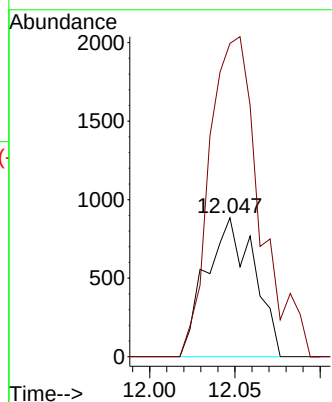
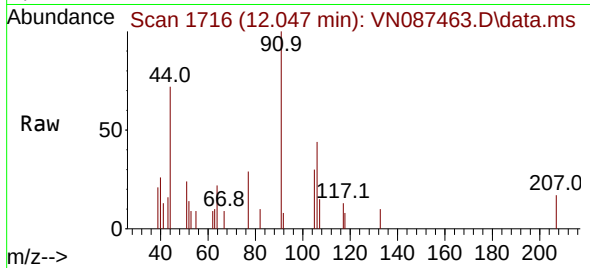




#67  
m/p-Xylenes  
Concen: 0.254 ug/l  
RT: 12.047 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

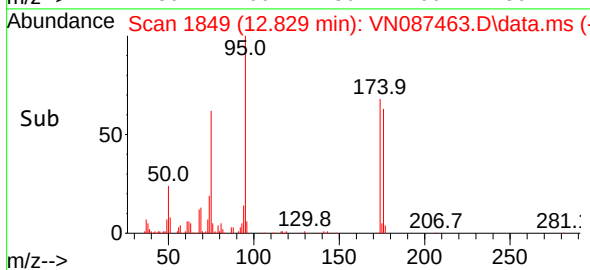
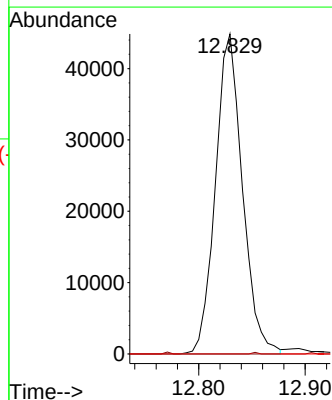
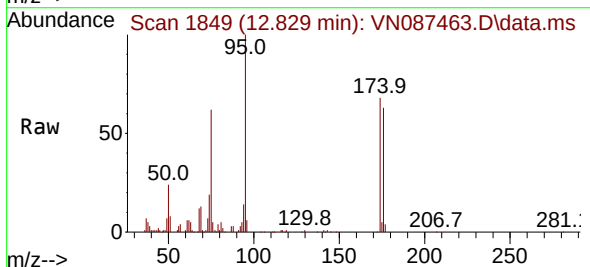
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

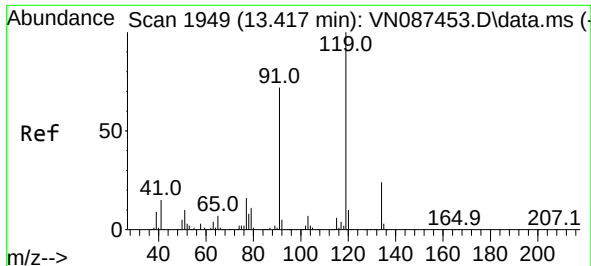
Tgt Ion:106 Resp: 1730  
Ion Ratio Lower Upper  
106 100  
91 228.3 174.2 261.2



#77  
t-1,4-Dichloro-2-butene  
Concen: 38.255 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Tgt Ion: 75 Resp: 78794  
Ion Ratio Lower Upper  
75 100  
53 0.0 59.0 176.8#  
89 0.0 22.1 66.5#

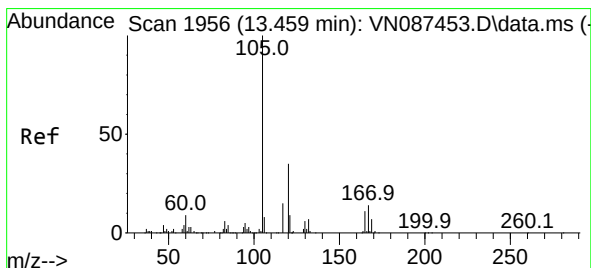
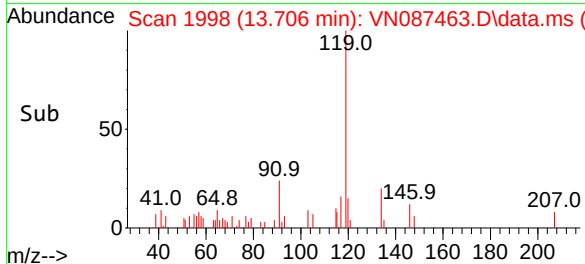
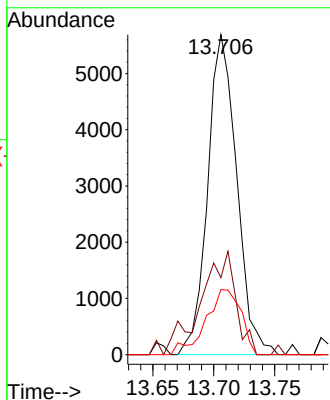
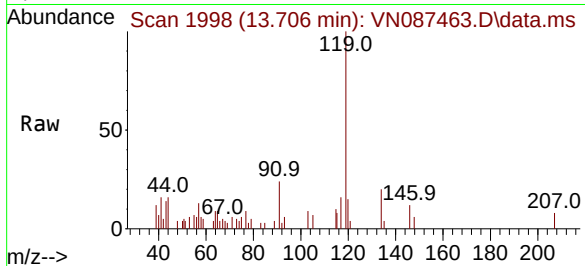




#79  
tert-butylbenzene  
Concen: 0.768 ug/l  
RT: 13.706 min Scan# 1949  
Delta R.T. 0.288 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

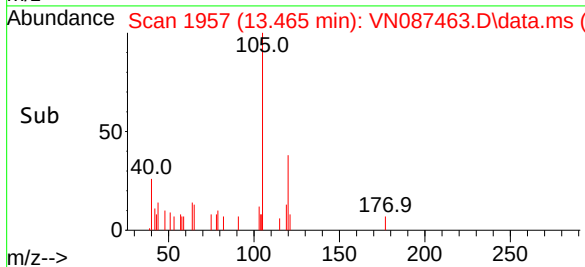
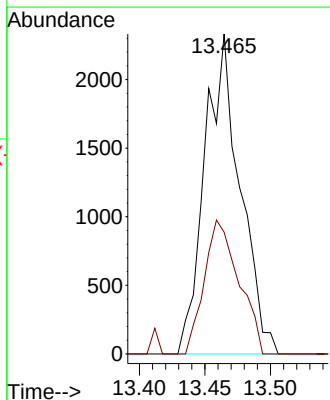
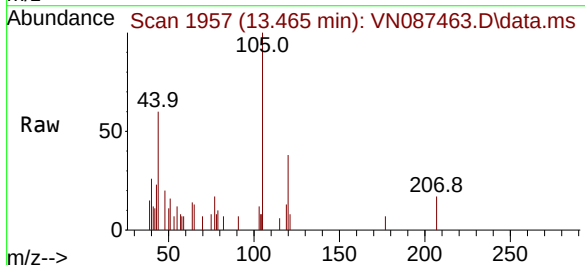
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

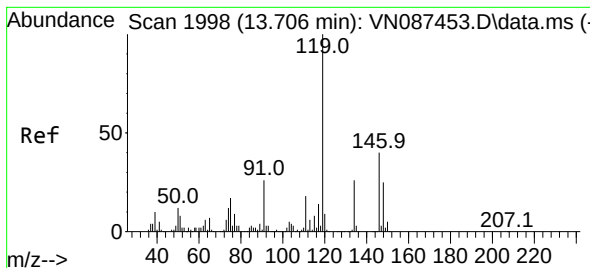
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 13.5  | 0.0   | 141.6 |
| 134     | 23.3  | 0.0   | 45.6  |



#80  
1,2,4-Trimethylbenzene  
Concen: 0.300 ug/l  
RT: 13.465 min Scan# 1957  
Delta R.T. 0.006 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 41.0  | 0.0   | 87.2  |





#82

p-Isopropyltoluene

Concen: 0.635 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN087463.D

Acq: 05 Aug 2025 18:14

Instrument :

MSVOA\_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

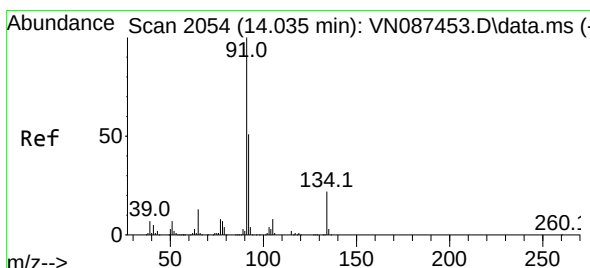
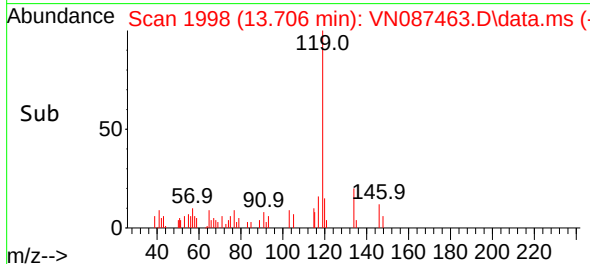
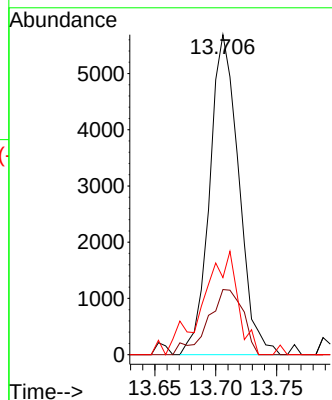
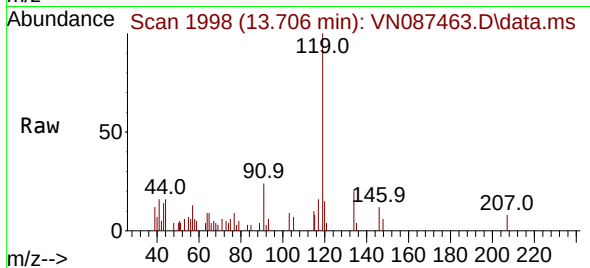
Tgt Ion:119 Resp: 9452

Ion Ratio Lower Upper

119 100

134 23.3 0.0 51.4

91 13.5 0.0 52.0



#85

n-Butylbenzene

Concen: 0.232 ug/l

RT: 14.029 min Scan# 2053

Delta R.T. -0.006 min

Lab File: VN087463.D

Acq: 05 Aug 2025 18:14

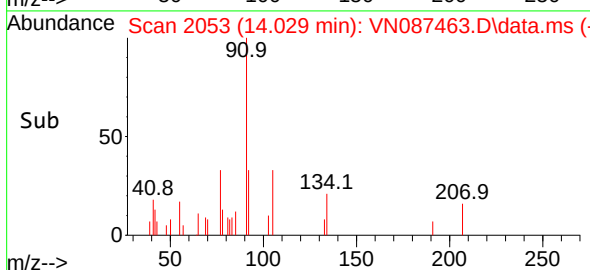
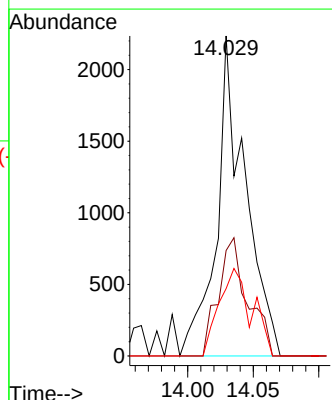
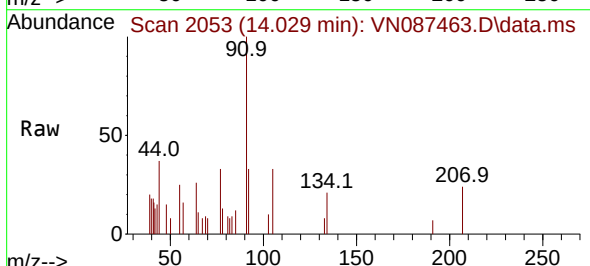
Tgt Ion: 91 Resp: 3379

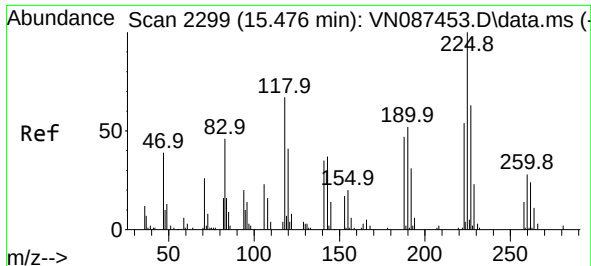
Ion Ratio Lower Upper

91 100

92 38.1 0.0 106.6

134 24.7 0.0 44.4

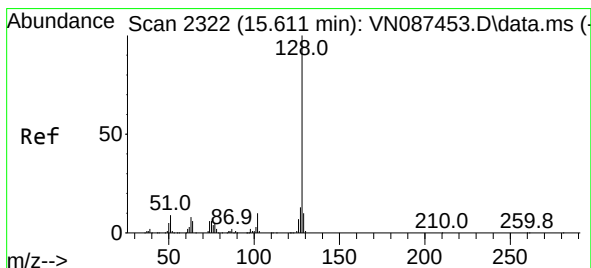
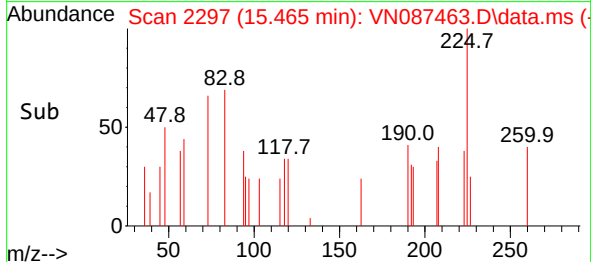
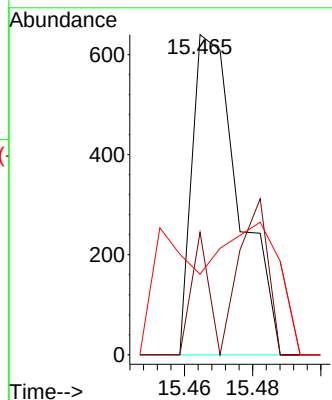
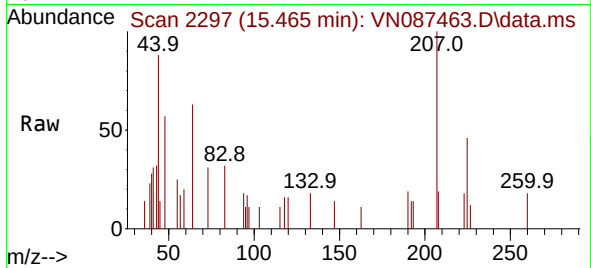




#90  
Hexachlorobutadiene  
Concen: 0.367 ug/l  
RT: 15.465 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(JUNE)

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 613       |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 14.0  | 0.0 116.0 |
| 227         | 35.4  | 0.0 127.0 |



#91  
Naphthalene  
Concen: 0.222 ug/l  
RT: 15.612 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087463.D  
Acq: 05 Aug 2025 18:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 3626      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 14.5  | 10.2 15.4 |
| 129         | 1.7   | 8.9 13.3# |

