

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111524\  
 Data File : VN084877.D  
 Acq On : 15 Nov 2024 18:24  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 15 22:28:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 01 02:38:04 2024  
 Response via : Initial Calibration

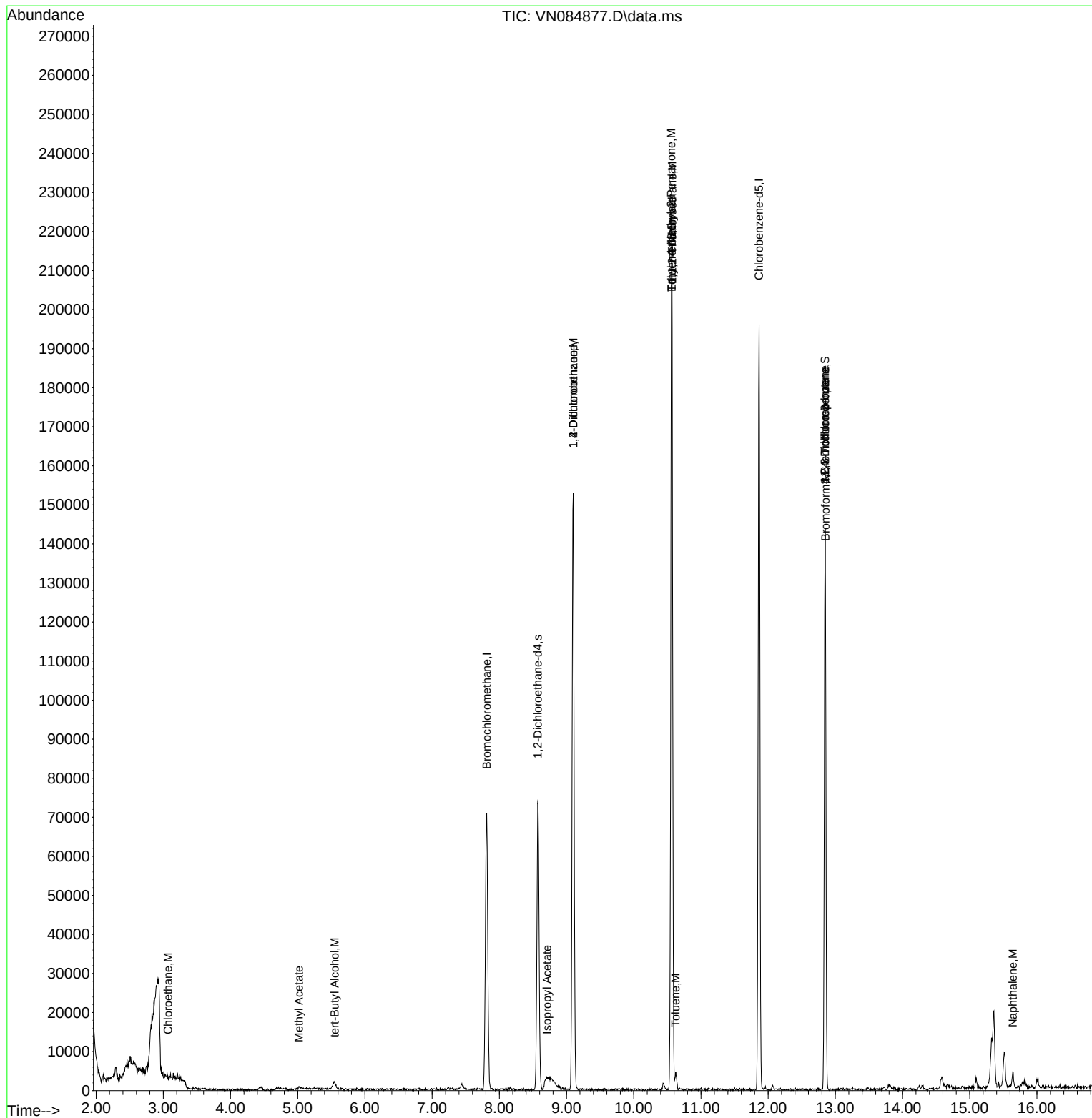
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.812  | 128   | 26293    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 130222   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 115190   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.571  | 65    | 63290    | 29.941   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 99.800%  |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 50438    | 25.430   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 84.767%  |
| 63) Toluene-d8              | 10.565 | 98    | 154055   | 28.251   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 94.167%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 6) Chloroethane             | 3.071  | 64    | 405      | 0.361    | ug/l # | 47       |
| 12) Methyl Acetate          | 5.018  | 43    | 821      | 0.344    | ug/l # | 52       |
| 23) tert-Butyl Alcohol      | 5.548  | 59    | 922      | 3.380    | ug/l # | 100      |
| 36) 1,2-Dichloroethane      | 9.100  | 62    | 4786     | 2.220    | ug/l # | 74       |
| 44) Isopropyl Acetate       | 8.712  | 43    | 1699     | 0.441    | ug/l # | 50       |
| 50) 1,1,2-Trichloroethane   | 10.571 | 97    | 5558     | 3.795    | ug/l # | 1        |
| 51) Ethyl methacrylate      | 10.565 | 69    | 624      | 0.276    | ug/l # | 26       |
| 56) Bromoform               | 12.853 | 173   | 320      | 0.279    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 10.559 | 43    | 388      | 0.214    | ug/l # | 43       |
| 62) Toluene                 | 10.624 | 91    | 1730     | 0.264    | ug/l # | 46       |
| 72) 1,2,3-Trichloropropane  | 12.847 | 75    | 25453    | 14.539   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75    | 25453    | 35.448   | ug/l # | 7        |
| 91) Naphthalene             | 15.641 | 128   | 4219     | 0.913    | ug/l # | 85       |
| -----                       |        |       |          |          |        |          |

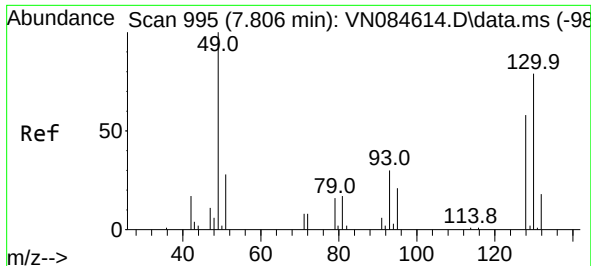
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111524\  
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Sample : IBLK  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

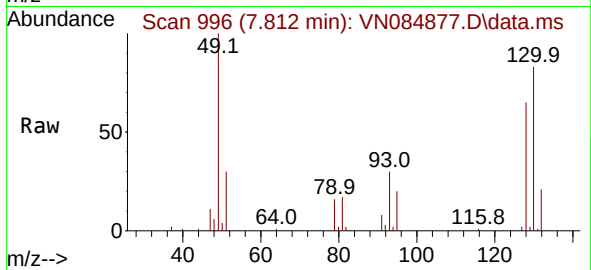
Quant Time: Nov 15 22:28:57 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Nov 01 02:38:04 2024  
Response via : Initial Calibration



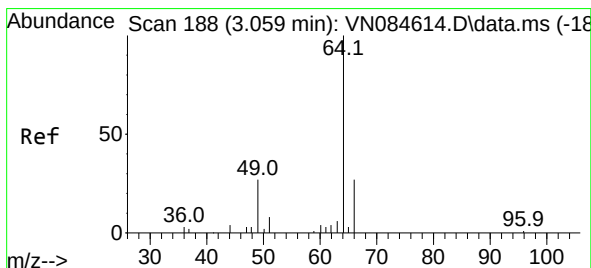
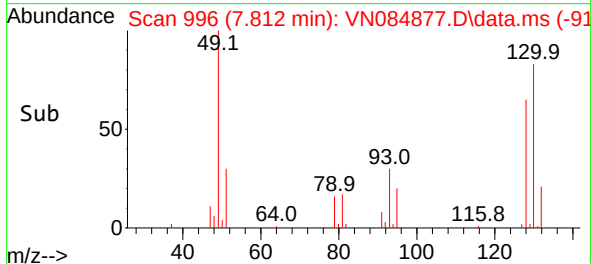
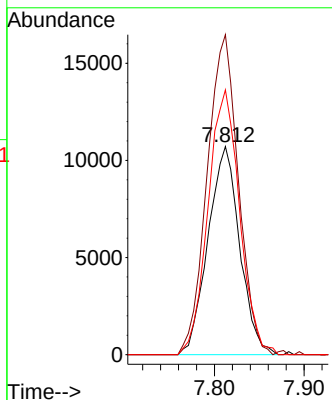


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

Instrument :  
MSVOA\_N  
ClientSampleId :

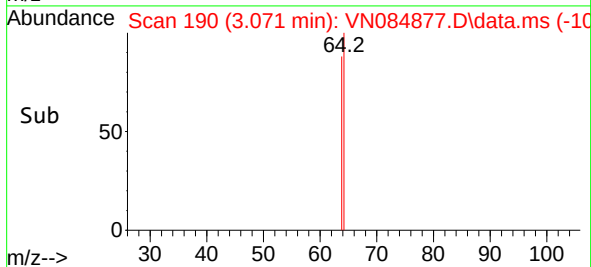
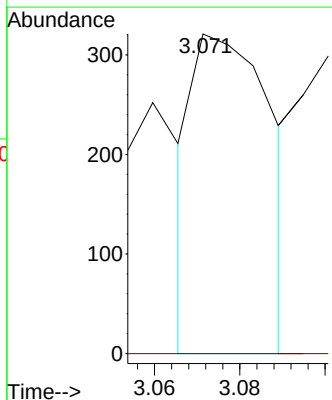
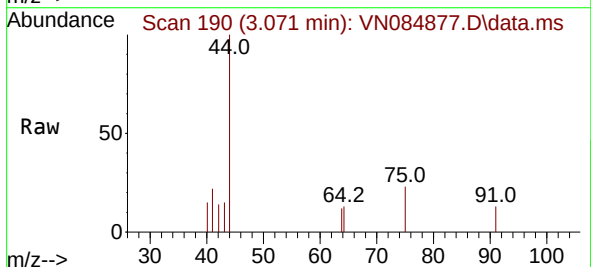


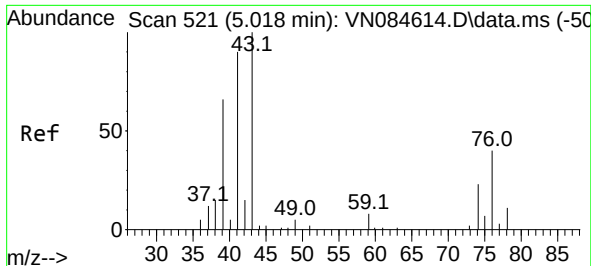
Tgt Ion:128 Resp: 26293  
Ion Ratio Lower Upper  
128 100  
49 151.7 0.0 427.0  
130 126.5 0.0 322.2



#6  
Chloroethane  
Concen: 0.361 ug/l  
RT: 3.071 min Scan# 190  
Delta R.T. 0.012 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

Tgt Ion: 64 Resp: 405  
Ion Ratio Lower Upper  
64 100  
66 0.0 22.1 33.1#





#12

Methyl Acetate

Concen: 0.344 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.000 min

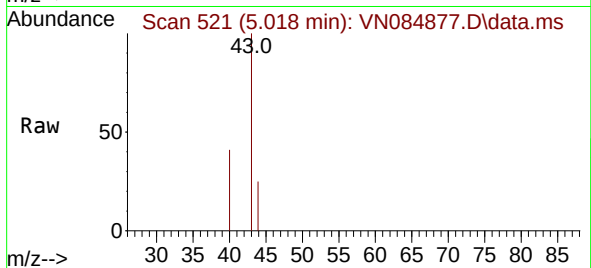
Lab File: VN084877.D

Acq: 15 Nov 2024 18:24

Instrument :

MSVOA\_N

ClientSampleId :

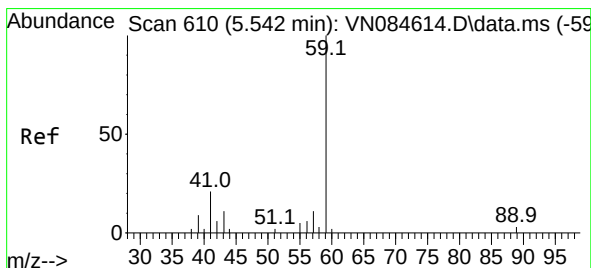
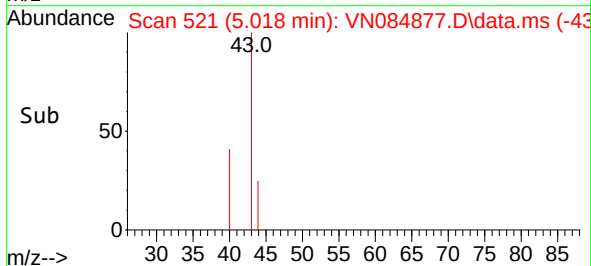
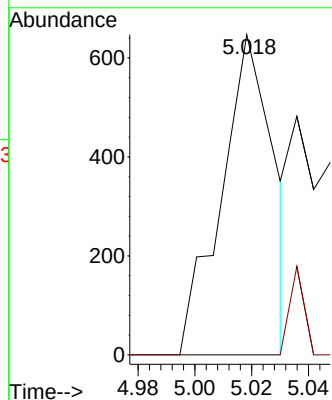


Tgt Ion: 43 Resp: 821

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#



#23

tert-Butyl Alcohol

Concen: 3.380 ug/l

RT: 5.548 min Scan# 611

Delta R.T. 0.006 min

Lab File: VN084877.D

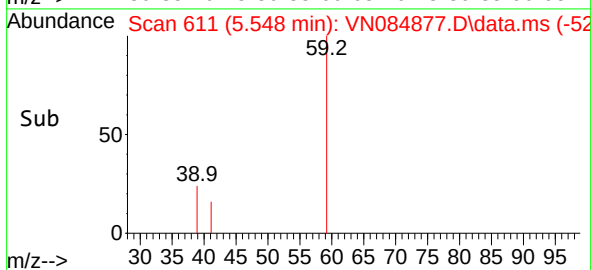
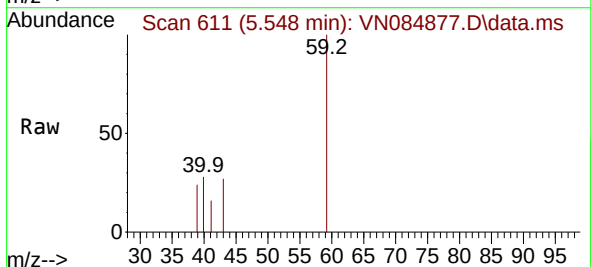
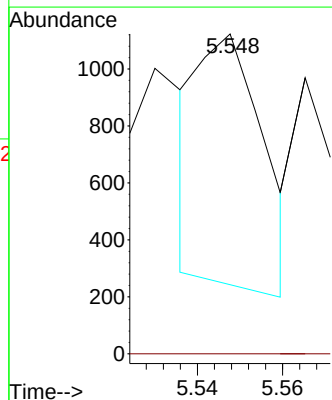
Acq: 15 Nov 2024 18:24

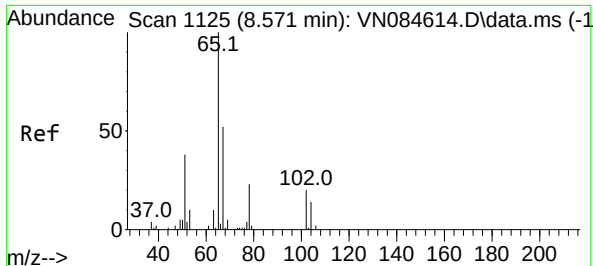
Tgt Ion: 59 Resp: 922

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

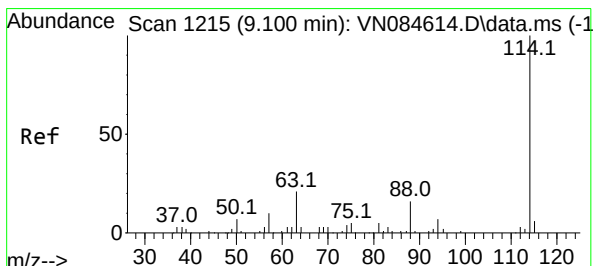
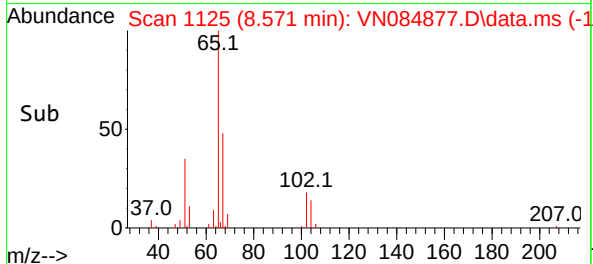
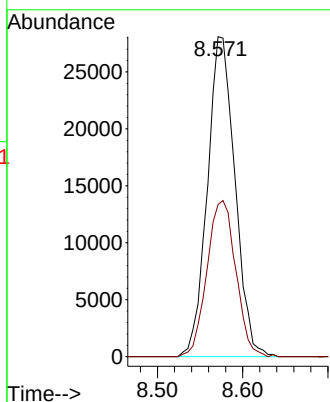
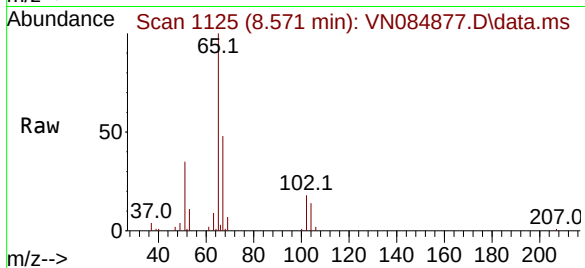




#27  
1,2-Dichloroethane-d4  
Concen: 29.941 ug/l  
RT: 8.571 min Scan# 1125  
Delta R.T. 0.000 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

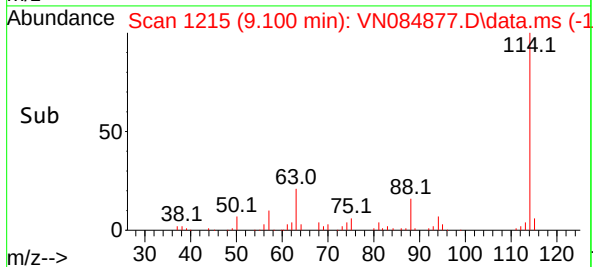
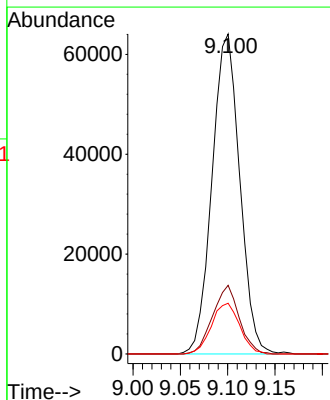
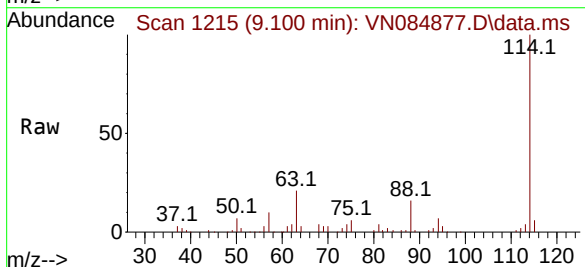
Instrument :  
MSVOA\_N  
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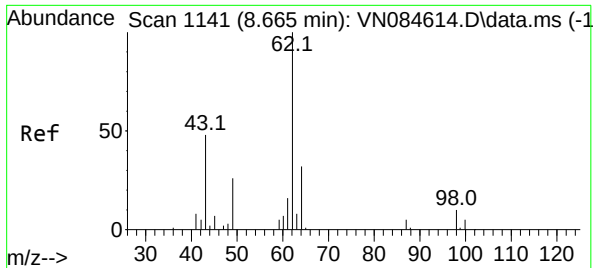
Tgt Ion: 65 Resp: 63290  
Ion Ratio Lower Upper  
65 100  
67 50.8 40.7 61.1



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. 0.000 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

Tgt Ion: 114 Resp: 130222  
Ion Ratio Lower Upper  
114 100  
63 20.5 16.8 25.2  
88 16.2 12.9 19.3

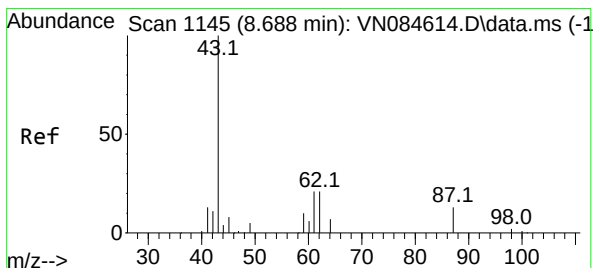
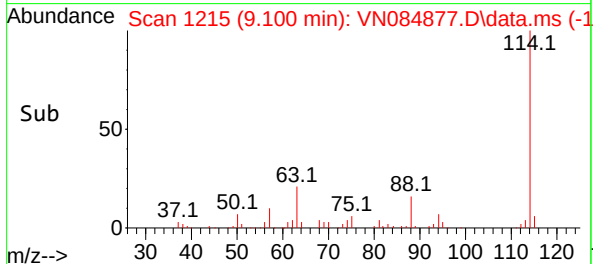
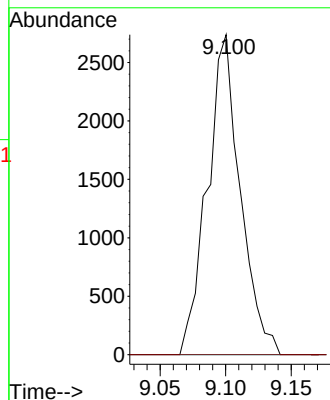
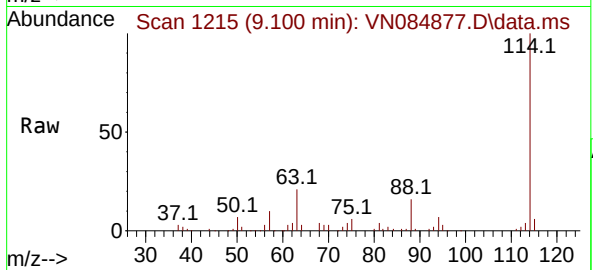




#36  
1,2-Dichloroethane  
Concen: 2.220 ug/l  
RT: 9.100 min Scan# 1141  
Delta R.T. 0.435 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

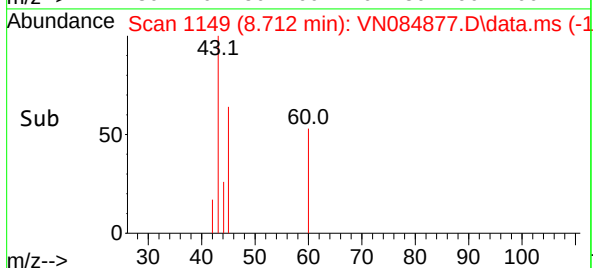
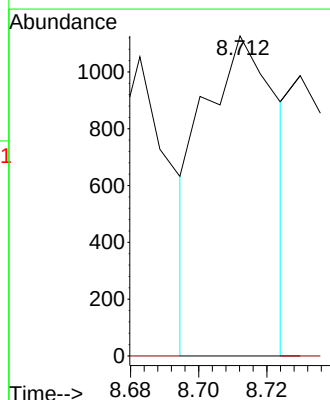
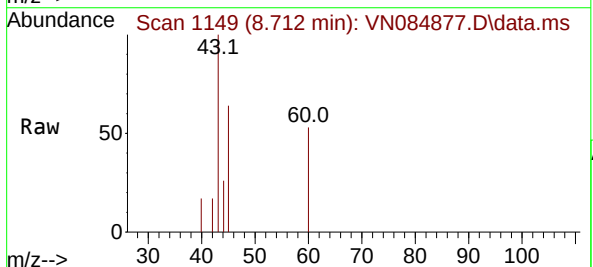
Instrument :  
MSVOA\_N  
ClientSampleId :

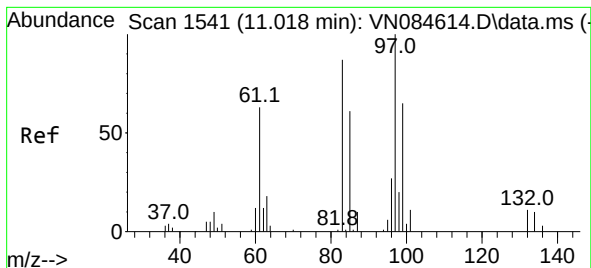
Tgt Ion: 62 Resp: 4786  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.8 11.6#



#44  
Isopropyl Acetate  
Concen: 0.441 ug/l  
RT: 8.712 min Scan# 1149  
Delta R.T. 0.024 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

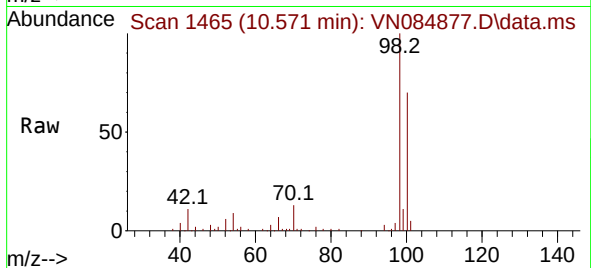
Tgt Ion: 43 Resp: 1699  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.8 29.8#



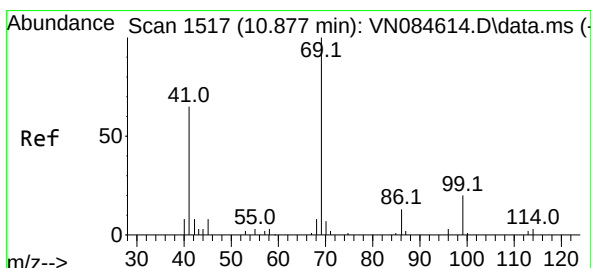
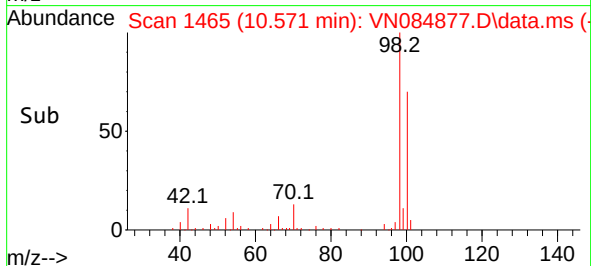
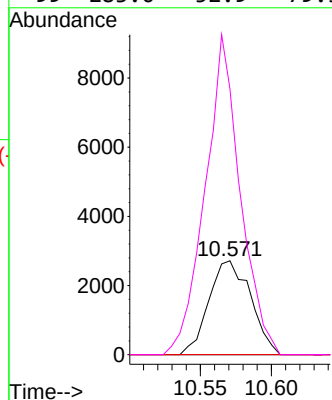


#50  
 1,1,2-Trichloroethane  
 Concen: 3.795 ug/l  
 RT: 10.571 min Scan# 1465  
 Delta R.T. -0.447 min  
 Lab File: VN084877.D  
 Acq: 15 Nov 2024 18:24

Instrument :  
 MSVOA\_N  
 ClientSampleId :

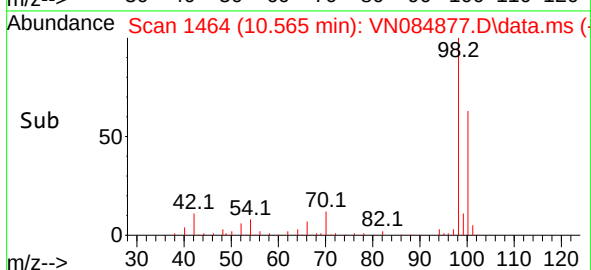
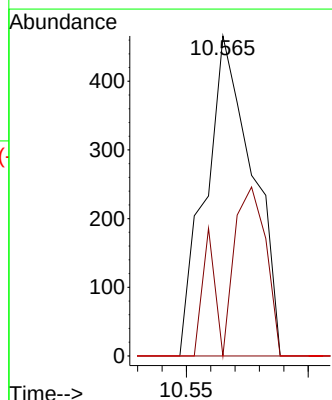
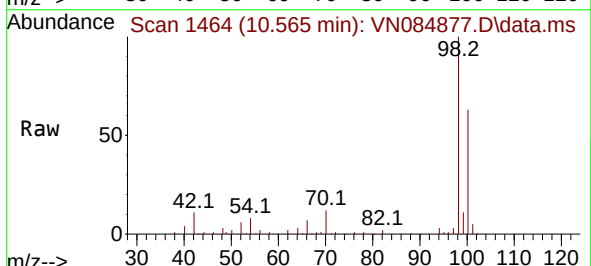


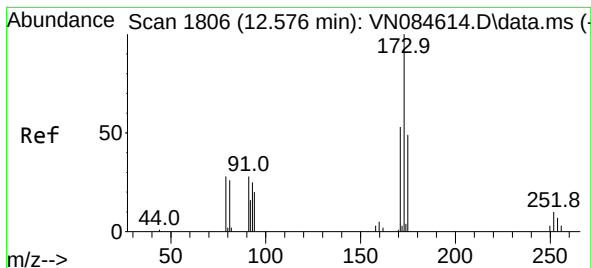
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 5558   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 0.0   | 69.8  | 104.8# |
| 85       | 0.0   | 48.6  | 73.0#  |
| 99       | 283.0 | 52.9  | 79.3#  |



#51  
 Ethyl methacrylate  
 Concen: 0.276 ug/l  
 RT: 10.565 min Scan# 1464  
 Delta R.T. -0.312 min  
 Lab File: VN084877.D  
 Acq: 15 Nov 2024 18:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 624   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 0.0   | 32.8  | 98.3# |
| 39       | 0.0   | 15.4  | 46.1# |





#56

Bromoform

Concen: 0.279 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.277 min

Lab File: VN084877.D

Acq: 15 Nov 2024 18:24

Instrument :

MSVOA\_N

ClientSampleId :

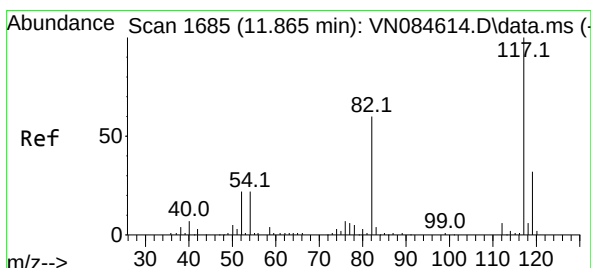
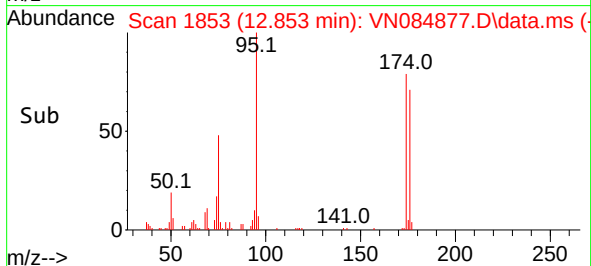
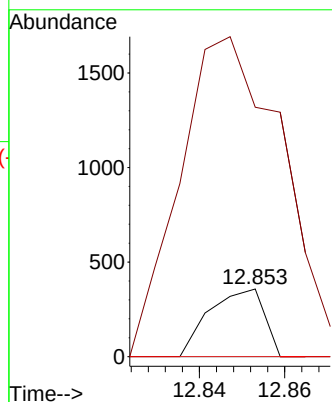
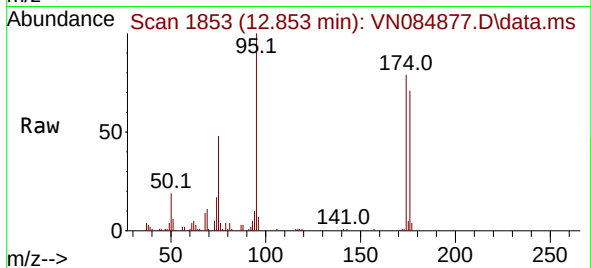
Tgt Ion:173 Resp: 320

Ion Ratio Lower Upper

173 100

175 885.0 39.4 59.2#

254 0.0 6.4 9.6#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084877.D

Acq: 15 Nov 2024 18:24

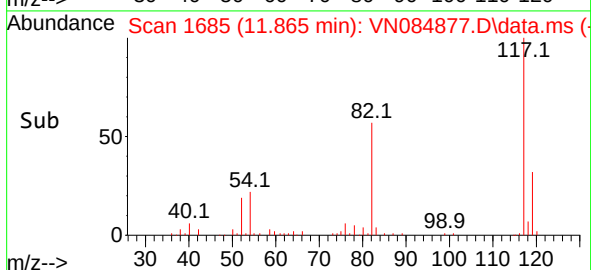
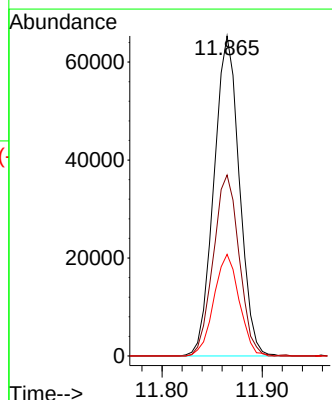
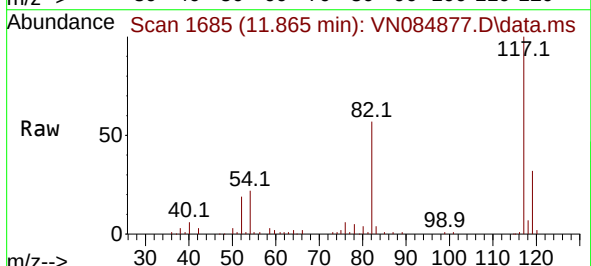
Tgt Ion:117 Resp: 115190

Ion Ratio Lower Upper

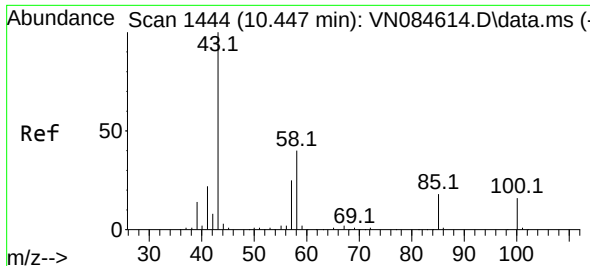
117 100

82 57.4 45.5 68.3

119 31.7 25.3 37.9



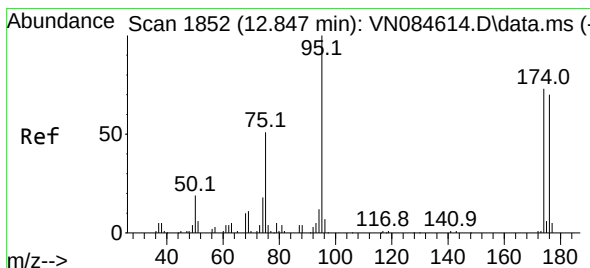
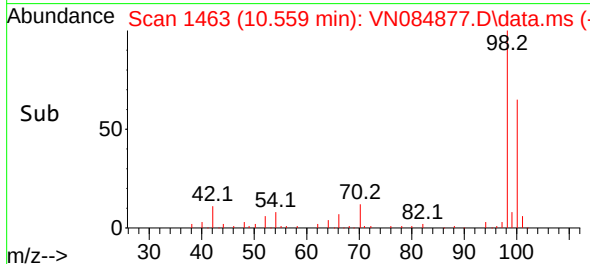
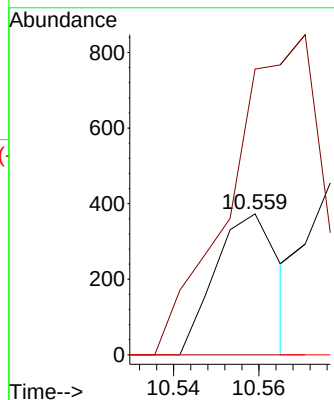
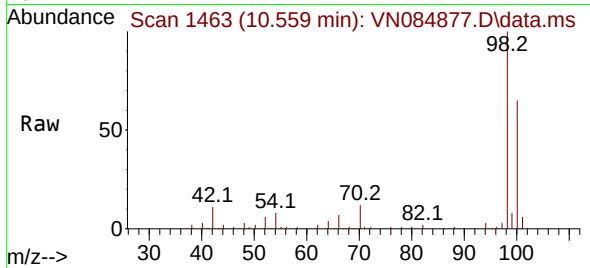




#58  
4-Methyl-2-Pentanone  
Concen: 0.214 ug/l  
RT: 10.559 min Scan# 1444  
Delta R.T. 0.112 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

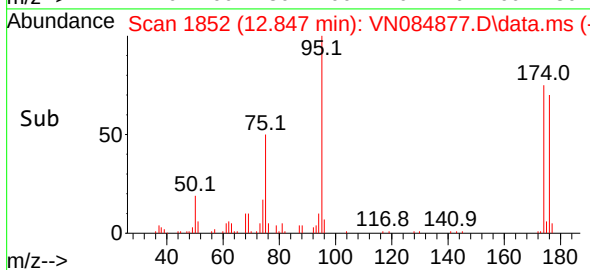
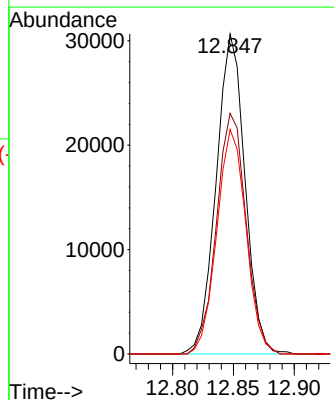
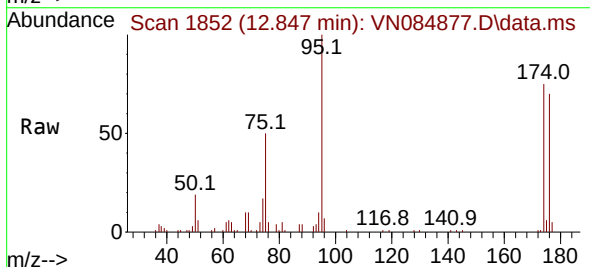
Instrument :  
MSVOA\_N  
ClientSampleId :

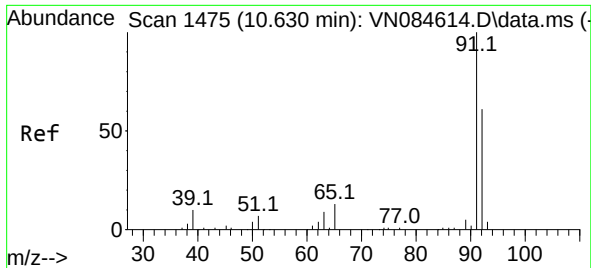
Tgt Ion: 43 Resp: 388  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.2 46.8#  
85 0.0 14.9 22.3#



#60  
4-Bromofluorobenzene  
Concen: 25.430 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

Tgt Ion: 95 Resp: 50438  
Ion Ratio Lower Upper  
95 100  
174 77.3 59.6 89.4  
176 70.9 58.6 88.0

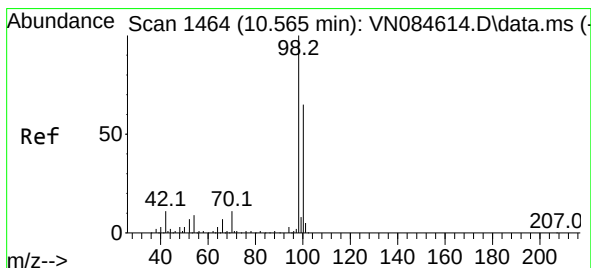
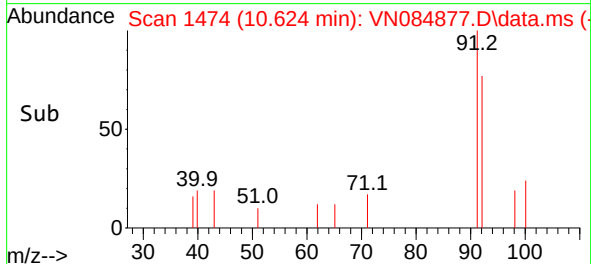
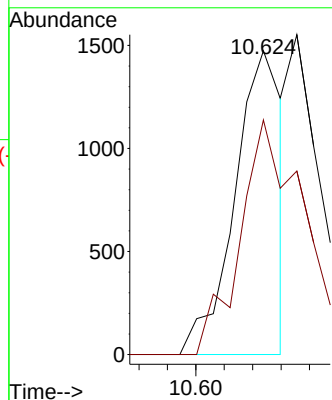
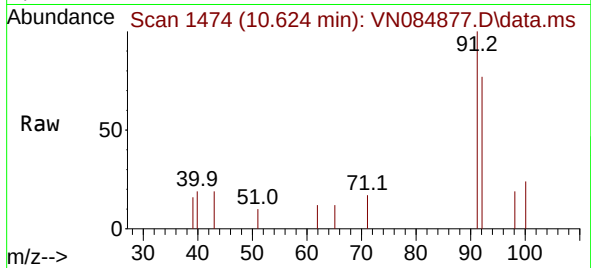




#62  
Toluene  
Concen: 0.264 ug/l  
RT: 10.624 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

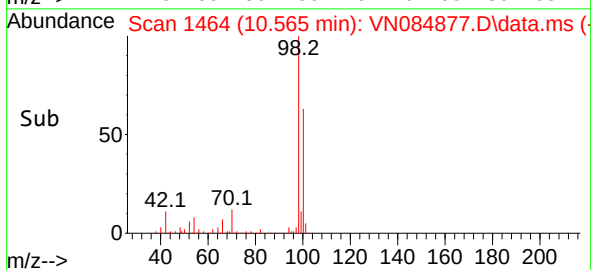
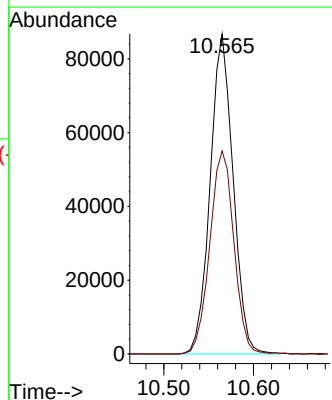
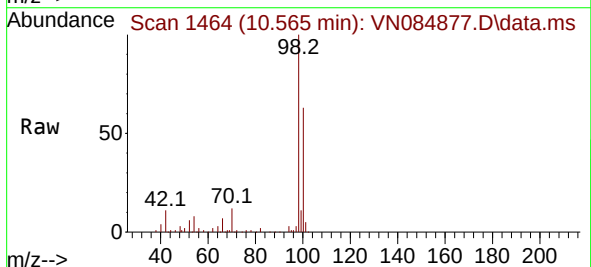
Instrument :  
MSVOA\_N  
ClientSampleId :

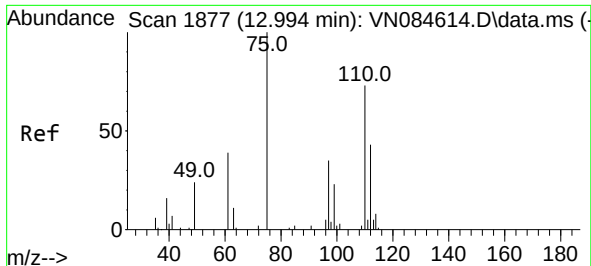
Tgt Ion: 91 Resp: 1730  
Ion Ratio Lower Upper  
91 100  
92 100.2 47.5 71.3#



#63  
Toluene-d8  
Concen: 28.251 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

Tgt Ion: 98 Resp: 154055  
Ion Ratio Lower Upper  
98 100  
100 66.4 52.2 78.2

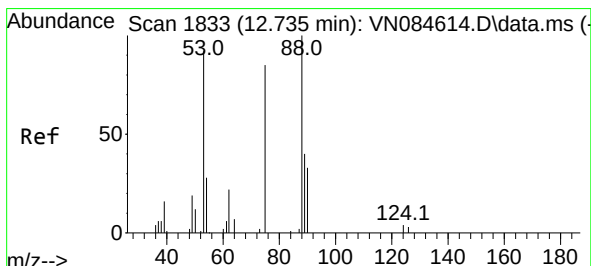
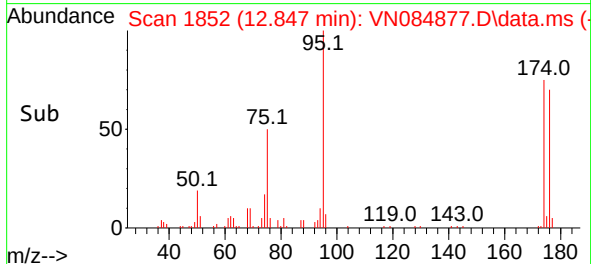
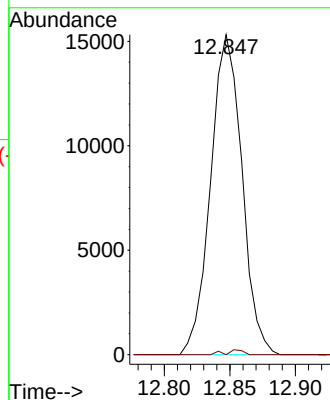
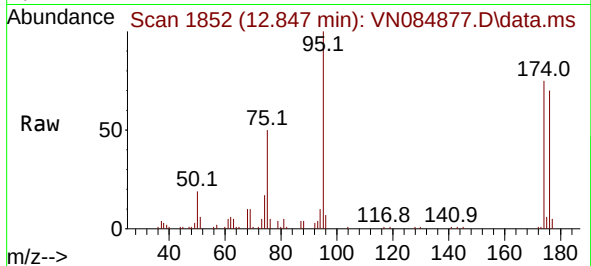




#72  
1,2,3-Trichloropropane  
Concen: 14.539 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

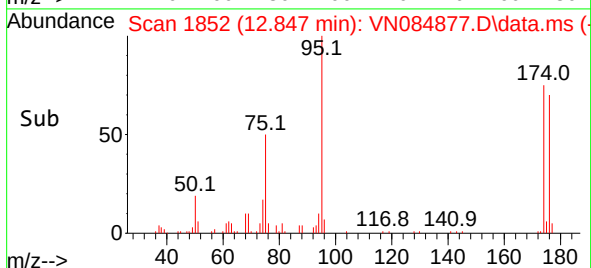
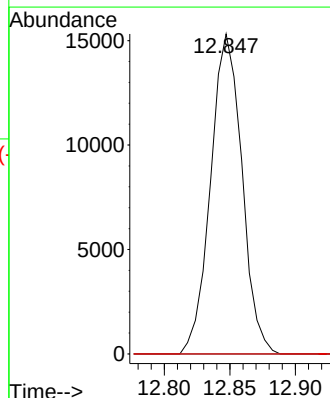
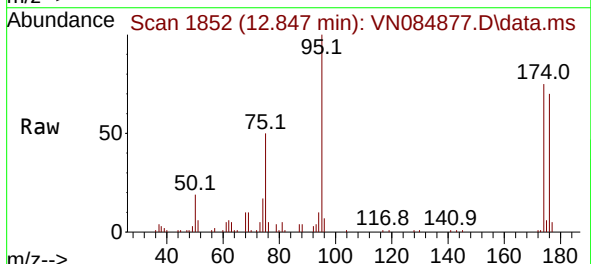
Instrument :  
MSVOA\_N  
ClientSampleId :

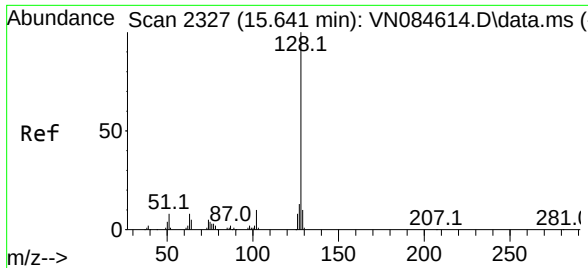
Tgt Ion: 75 Resp: 25453  
Ion Ratio Lower Upper  
75 100  
77 0.6 0.0 358.4



#77  
t-1,4-Dichloro-2-butene  
Concen: 35.448 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

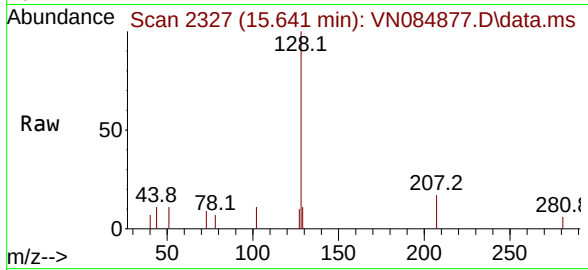
Tgt Ion: 75 Resp: 25453  
Ion Ratio Lower Upper  
75 100  
53 0.0 52.4 157.2#  
89 0.0 26.0 78.0#





#91  
Naphthalene  
Concen: 0.913 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN084877.D  
Acq: 15 Nov 2024 18:24

Instrument :  
MSVOA\_N  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 4219  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 9.5   | 10.3  | 15.5# |
| 129      | 2.2   | 8.6   | 12.8# |

