

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111524\  
 Data File : VN084881.D  
 Acq On : 15 Nov 2024 20:00  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Nov 15 22:30:37 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

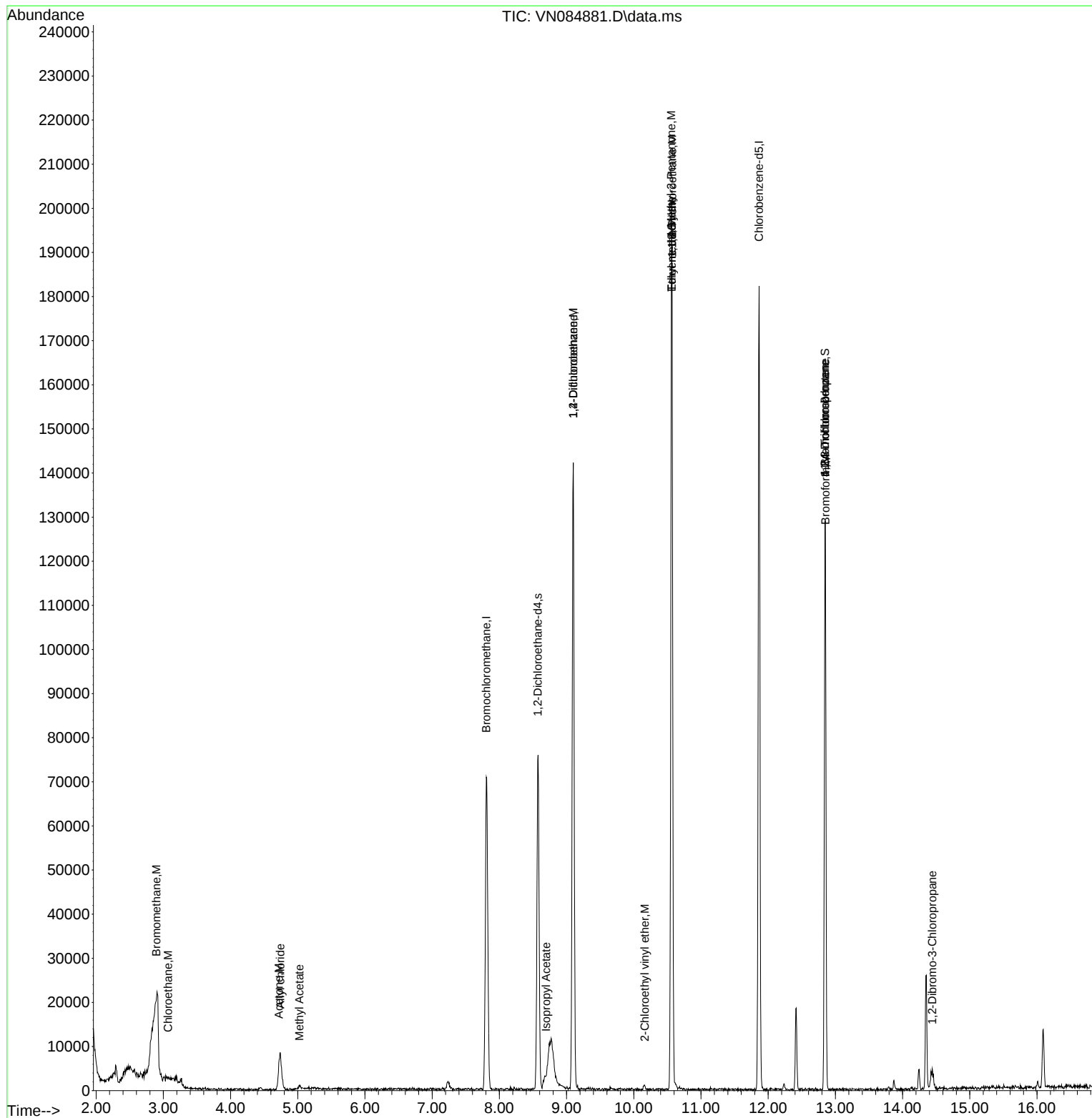
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.806  | 128   | 25879    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 9.100  | 114   | 121682   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.865 | 117   | 106618   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 8.571  | 65    | 64275    | 30.894   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 102.967% |
| 60) 4-Bromofluorobenzene      | 12.847 | 95    | 44738    | 24.370   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 81.233%  |
| 63) Toluene-d8                | 10.565 | 98    | 139328   | 27.604   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 92.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 2.894  | 94    | 347      | 0.406    | ug/l # | 4        |
| 6) Chloroethane               | 3.071  | 64    | 494      | 0.447    | ug/l # | 47       |
| 12) Methyl Acetate            | 5.024  | 43    | 992      | 0.422    | ug/l # | 52       |
| 15) Acetone                   | 4.718  | 58    | 117      | 0.592    | ug/l # | 1        |
| 17) Allyl chloride            | 4.741  | 41    | 1645     | 0.640    | ug/l   | 83       |
| 36) 1,2-Dichloroethane        | 9.100  | 62    | 4472     | 2.220    | ug/l # | 74       |
| 44) Isopropyl Acetate         | 8.694  | 43    | 1476     | 0.410    | ug/l # | 50       |
| 50) 1,1,2-Trichloroethane     | 10.570 | 97    | 5060     | 3.698    | ug/l # | 1        |
| 51) Ethyl methacrylate        | 10.565 | 69    | 460      | 0.218    | ug/l # | 53       |
| 55) 2-Chloroethyl vinyl ether | 10.165 | 63    | 571      | 0.552    | ug/l # | 45       |
| 56) Bromoform                 | 12.853 | 173   | 427      | 0.398    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone      | 10.559 | 43    | 633      | 0.376    | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane    | 12.847 | 75    | 23150    | 14.286   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene   | 12.847 | 75    | 23150    | 34.833   | ug/l # | 7        |
| 88) 1,2-Dibromo-3-Chloropr... | 14.441 | 75    | 602      | 1.644    | ug/l # | 6        |
| -----                         |        |       |          |          |        |          |

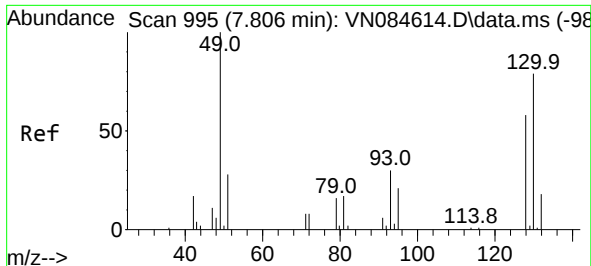
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111524\  
Data File : VN084881.D  
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Operator : JC\MD  
Sample : IBLK  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Quant Time: Nov 15 22:30:37 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

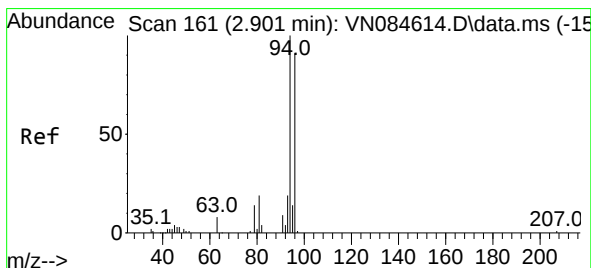
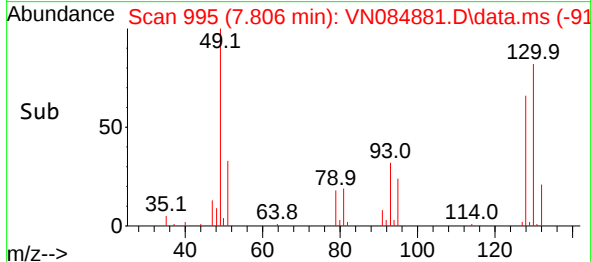
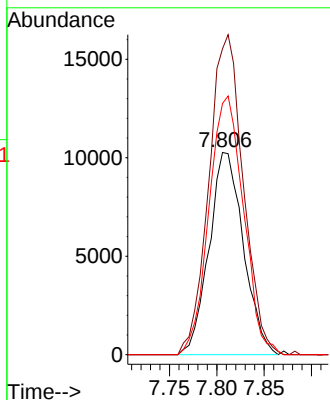
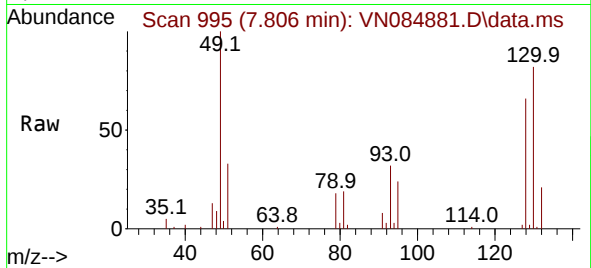




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.806 min Scan# 995  
Delta R.T. -0.000 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

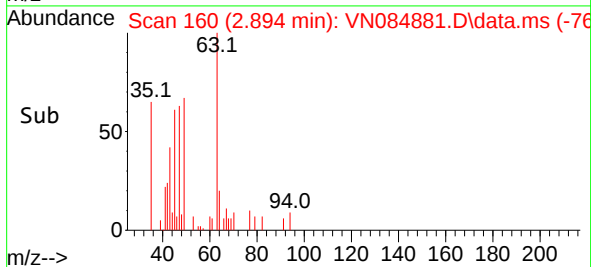
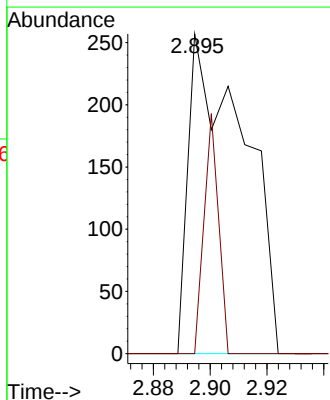
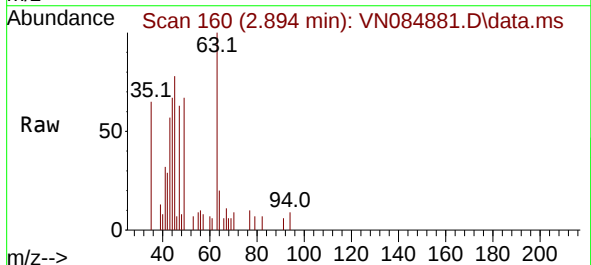
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

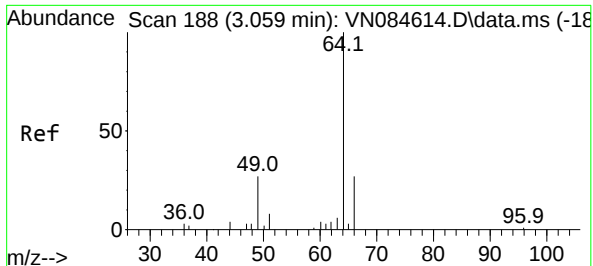
Tgt Ion:128 Resp: 25879  
Ion Ratio Lower Upper  
128 100  
49 158.6 0.0 427.0  
130 128.7 0.0 322.2



#5  
Bromomethane  
Concen: 0.406 ug/l  
RT: 2.894 min Scan# 160  
Delta R.T. -0.006 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Tgt Ion: 94 Resp: 347  
Ion Ratio Lower Upper  
94 100  
96 0.0 72.7 109.1#

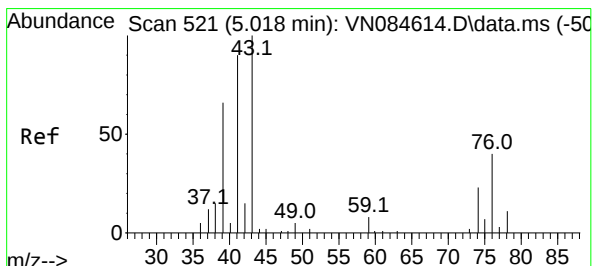
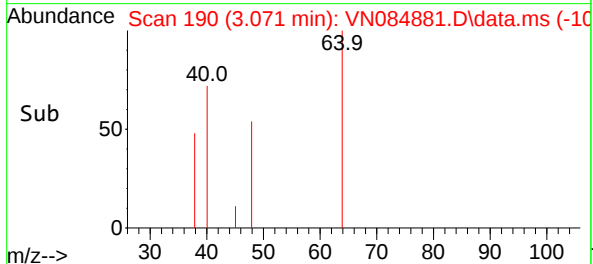
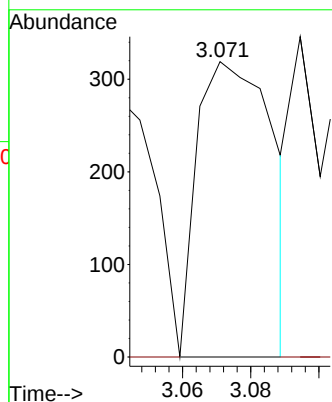
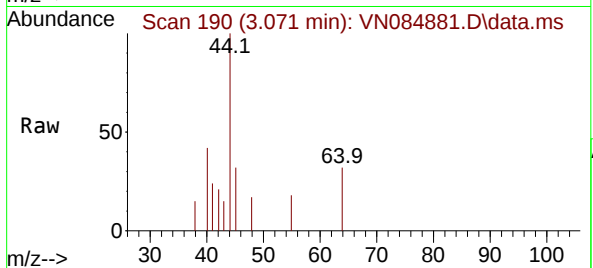




#6  
Chloroethane  
Concen: 0.447 ug/l  
RT: 3.071 min Scan# 190  
Delta R.T. 0.012 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

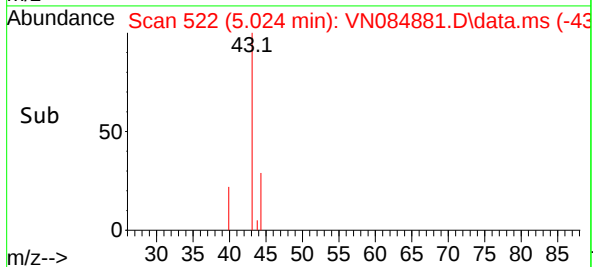
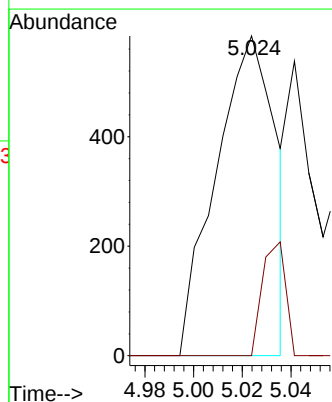
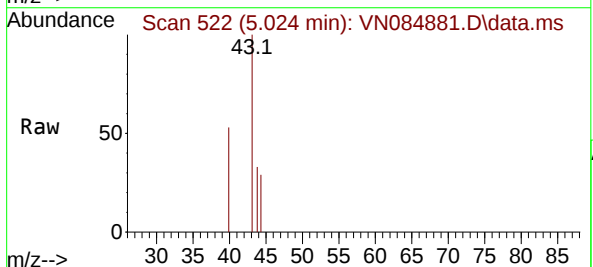
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

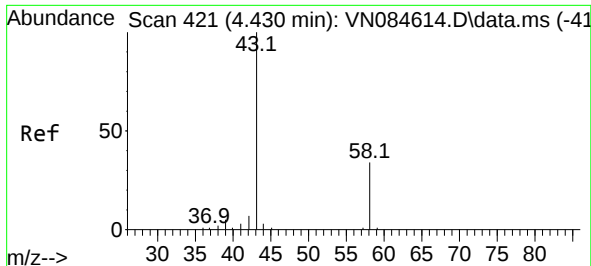
Tgt Ion: 64 Resp: 494  
Ion Ratio Lower Upper  
64 100  
66 0.0 22.1 33.1#



#12  
Methyl Acetate  
Concen: 0.422 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Tgt Ion: 43 Resp: 992  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.4#





#15

Acetone

Concen: 0.592 ug/l

RT: 4.718 min Scan# 41

Delta R.T. 0.288 min

Lab File: VN084881.D

Acq: 15 Nov 2024 20:00

Instrument :

MSVOA\_N

ClientSampleId :

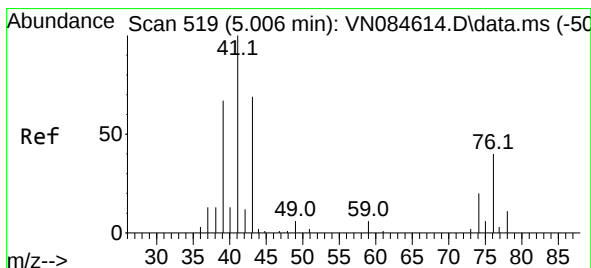
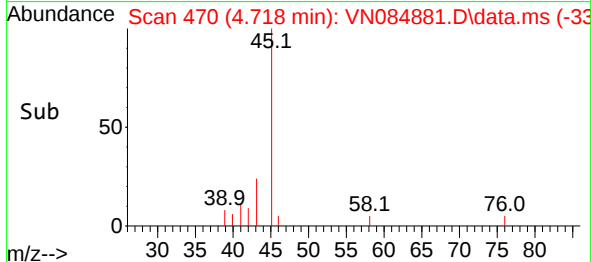
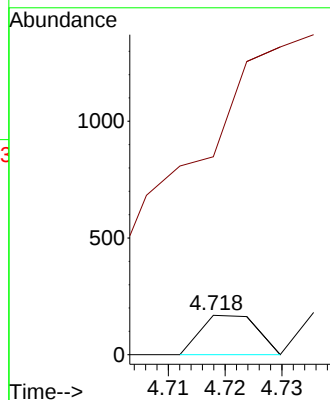
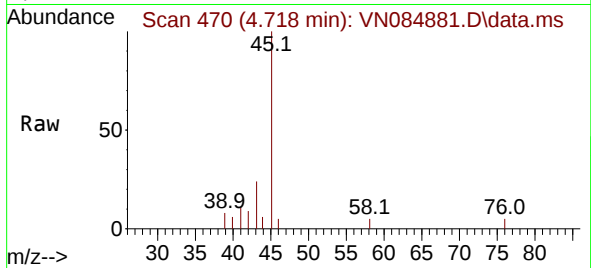
IBLK

Tgt Ion: 58 Resp: 117

Ion Ratio Lower Upper

58 100

43 23.7 233.0 349.6#



#17

Allyl chloride

Concen: 0.640 ug/l

RT: 4.741 min Scan# 474

Delta R.T. -0.265 min

Lab File: VN084881.D

Acq: 15 Nov 2024 20:00

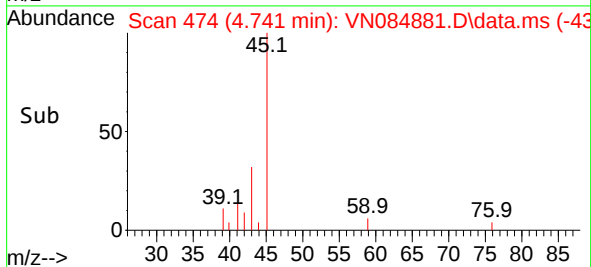
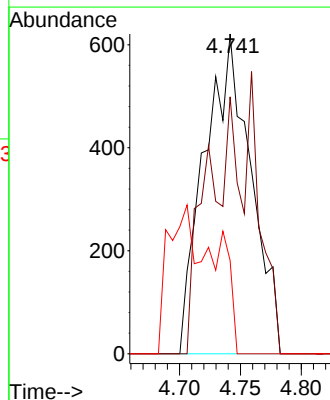
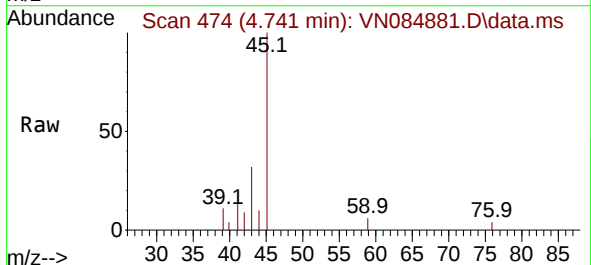
Tgt Ion: 41 Resp: 1645

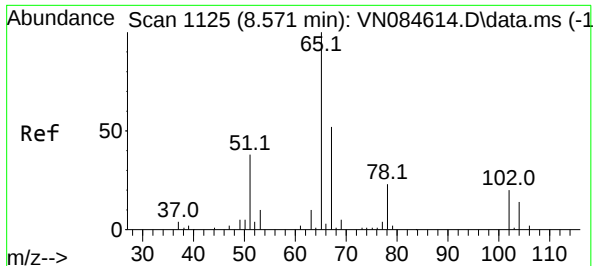
Ion Ratio Lower Upper

41 100

39 80.4 33.4 100.2

76 29.1 20.2 60.6

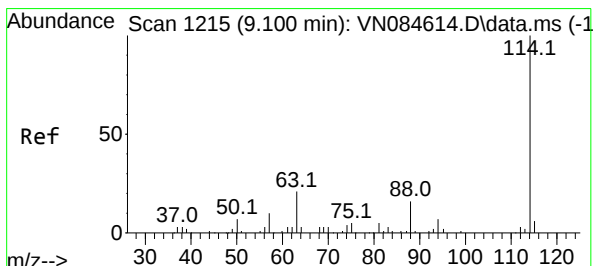
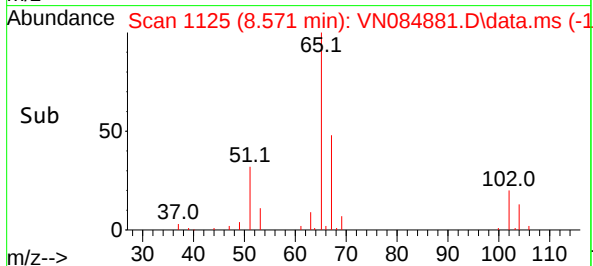
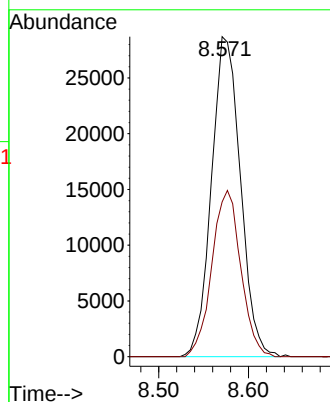
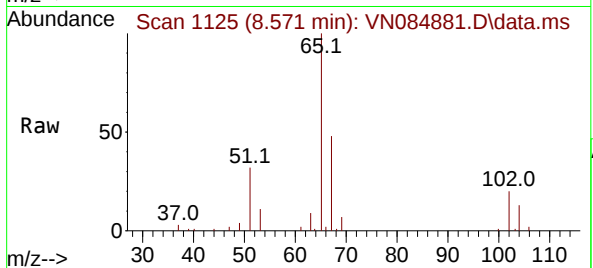




#27  
1,2-Dichloroethane-d4  
Concen: 30.894 ug/l  
RT: 8.571 min Scan# 1125  
Delta R.T. -0.000 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

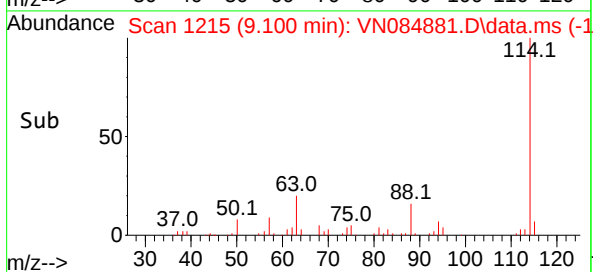
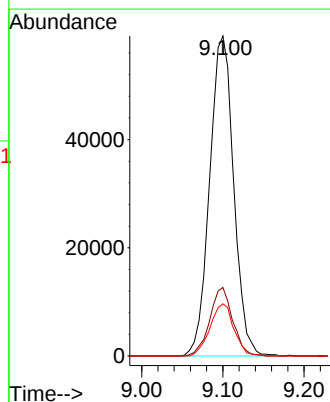
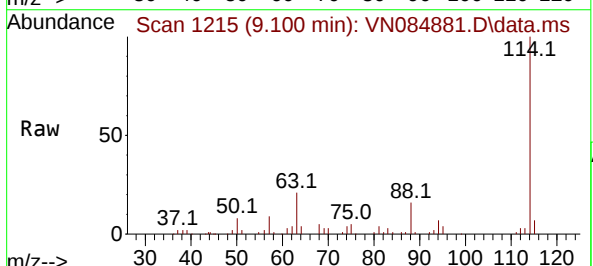
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

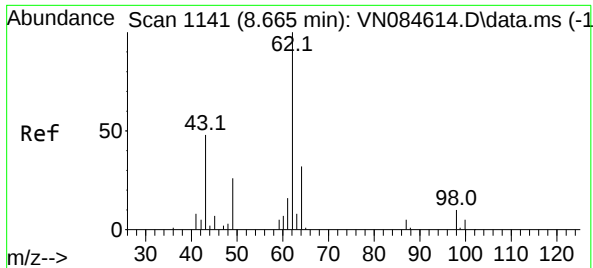
Tgt Ion: 65 Resp: 64275  
Ion Ratio Lower Upper  
65 100  
67 51.8 40.7 61.1



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. -0.000 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Tgt Ion: 114 Resp: 121682  
Ion Ratio Lower Upper  
114 100  
63 20.4 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: VN084881.D

Acq: 15 Nov 2024 20:00

Instrument :

MSVOA\_N

ClientSampleId :

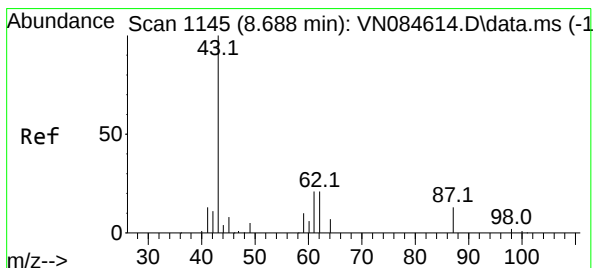
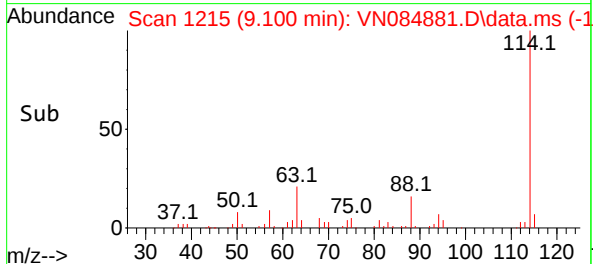
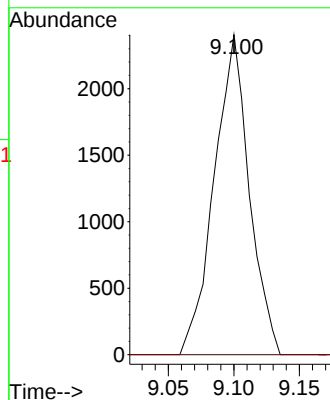
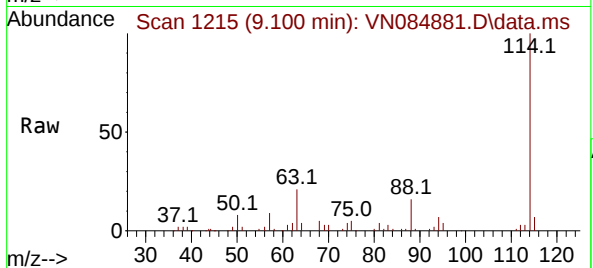
IBLK

Tgt Ion: 62 Resp: 4472

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#



#44

Isopropyl Acetate

Concen: 0.410 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN084881.D

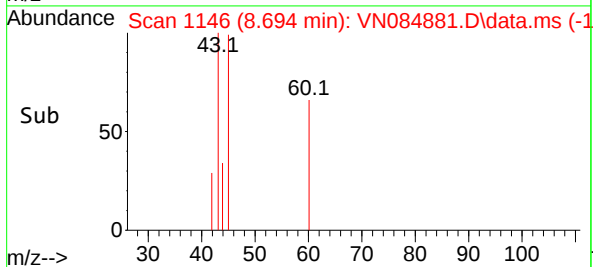
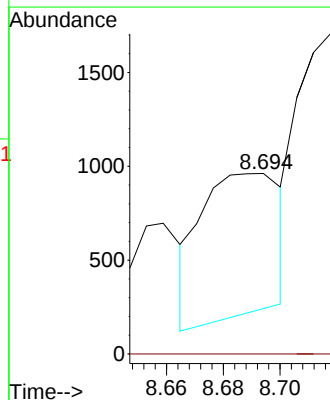
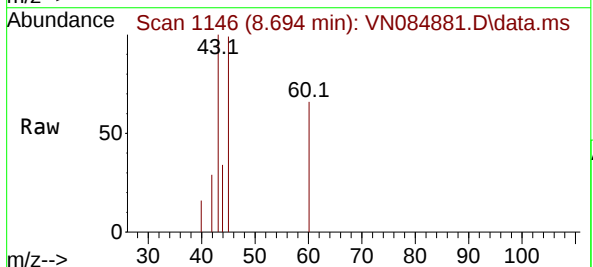
Acq: 15 Nov 2024 20:00

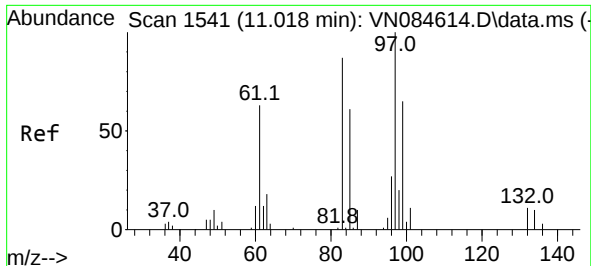
Tgt Ion: 43 Resp: 1476

Ion Ratio Lower Upper

43 100

61 0.0 19.8 29.8#

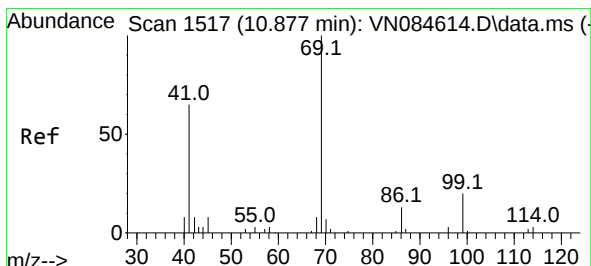
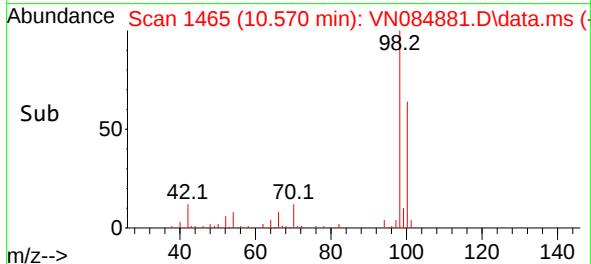
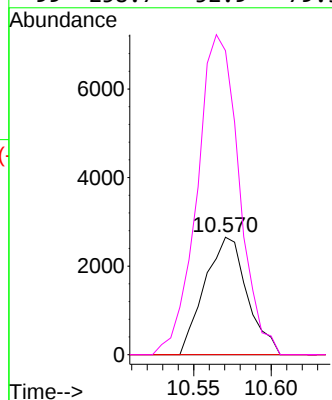
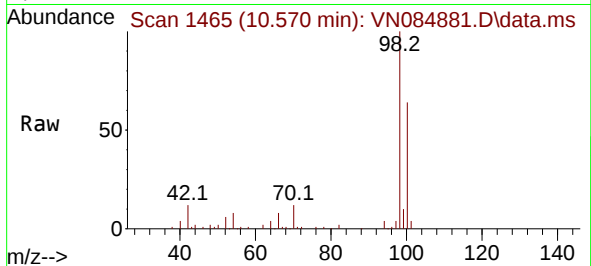




#50  
1,1,2-Trichloroethane  
Concen: 3.698 ug/l  
RT: 10.570 min Scan# 1465  
Delta R.T. -0.447 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

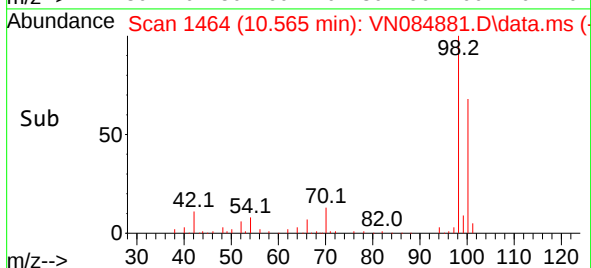
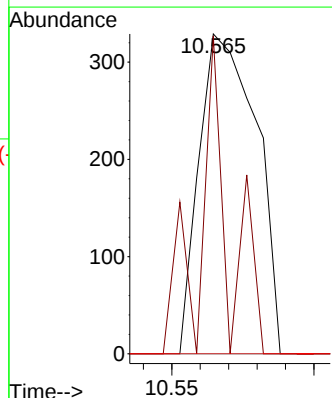
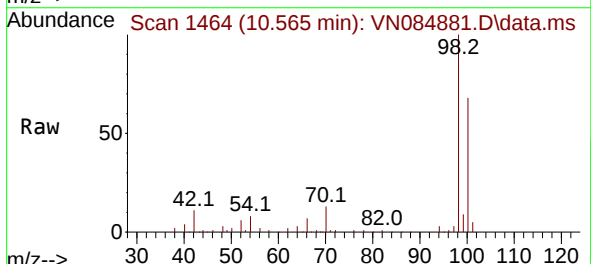
Instrument :  
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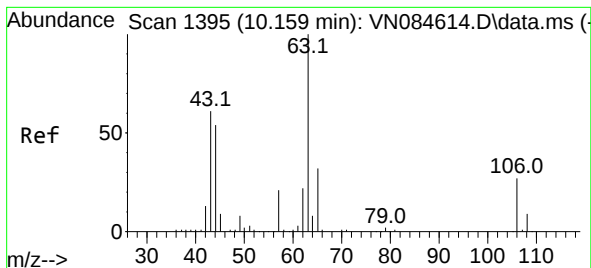
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|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 5060   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 0.0   | 69.8  | 104.8# |
| 85       | 0.0   | 48.6  | 73.0#  |
| 99       | 258.7 | 52.9  | 79.3#  |



#51  
Ethyl methacrylate  
Concen: 0.218 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.312 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 460   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 99.4  | 32.8  | 98.3# |
| 39       | 0.0   | 15.4  | 46.1# |

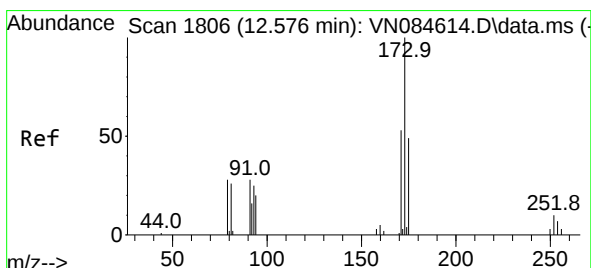
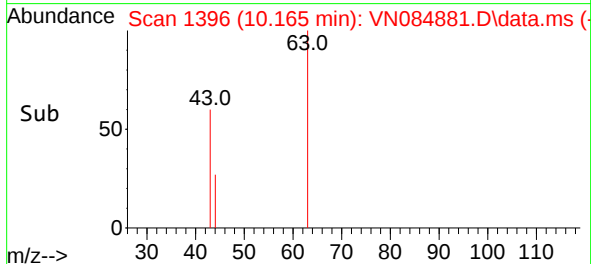
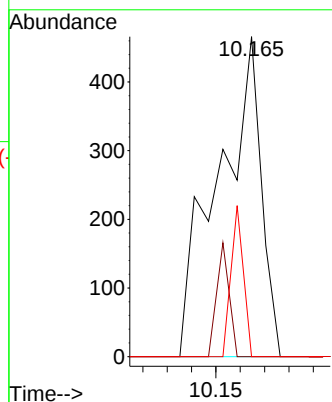
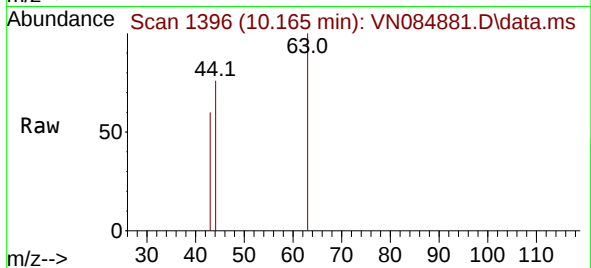




#55  
2-Chloroethyl vinyl ether  
Concen: 0.552 ug/l  
RT: 10.165 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

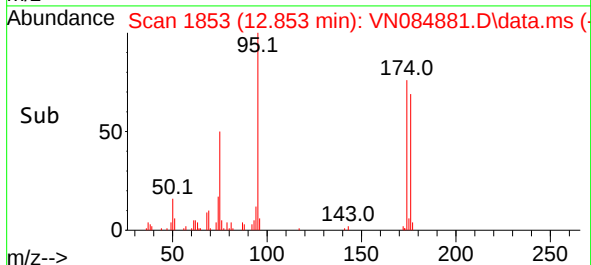
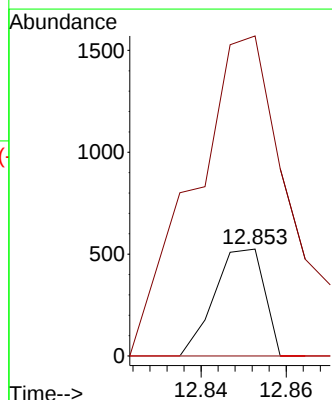
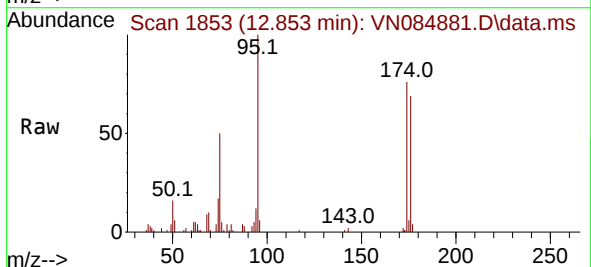
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

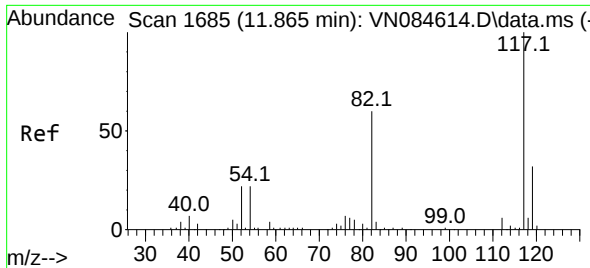
Tgt Ion: 63 Resp: 571  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.5 38.3#  
106 0.0 22.3 33.5#



#56  
Bromoform  
Concen: 0.398 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.276 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Tgt Ion:173 Resp: 427  
Ion Ratio Lower Upper  
173 100  
175 568.4 39.4 59.2#  
254 0.0 6.4 9.6#

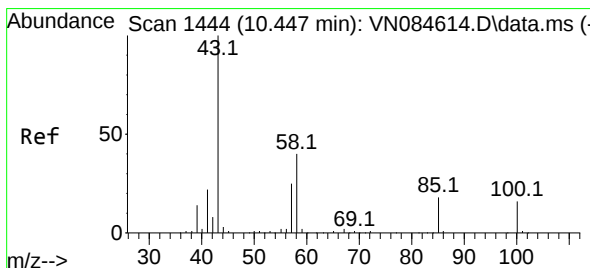
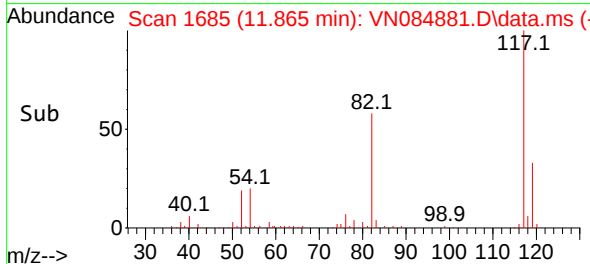
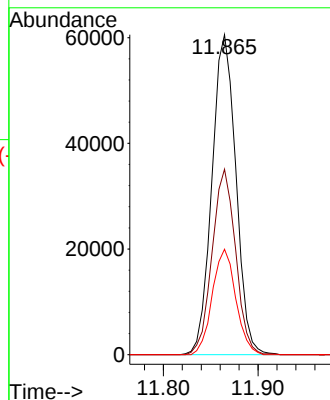
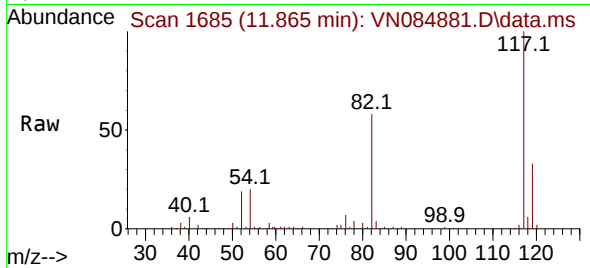




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

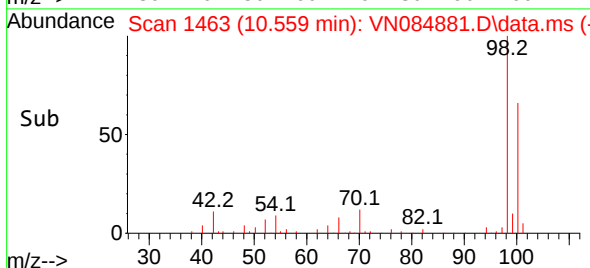
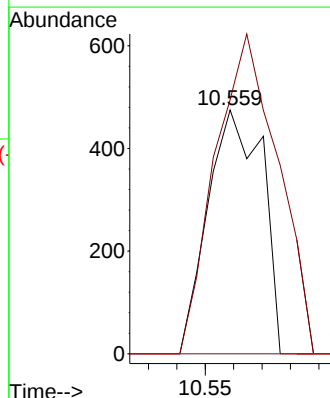
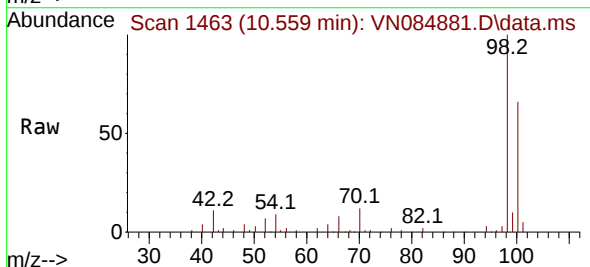
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

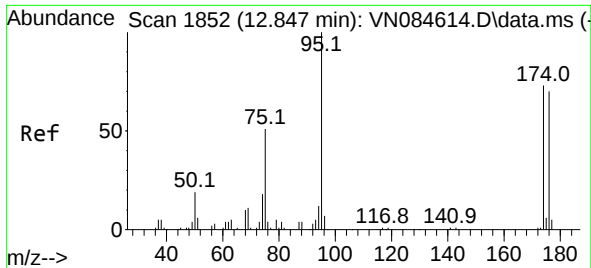
Tgt Ion:117 Resp: 106618  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.5 68.3  
119 32.3 25.3 37.9



#58  
4-Methyl-2-Pentanone  
Concen: 0.376 ug/l  
RT: 10.559 min Scan# 1463  
Delta R.T. 0.112 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Tgt Ion: 43 Resp: 633  
Ion Ratio Lower Upper  
43 100  
58 151.3 31.2 46.8#  
85 0.0 14.9 22.3#

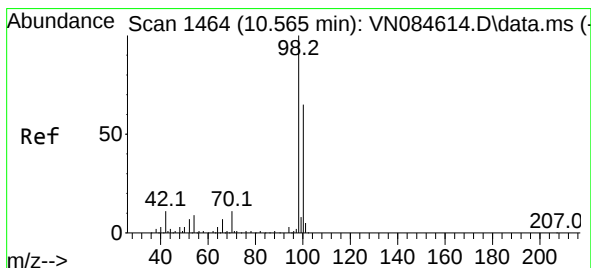
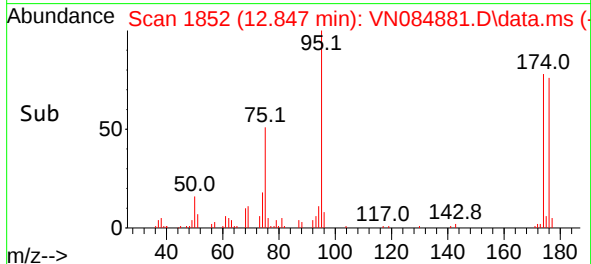
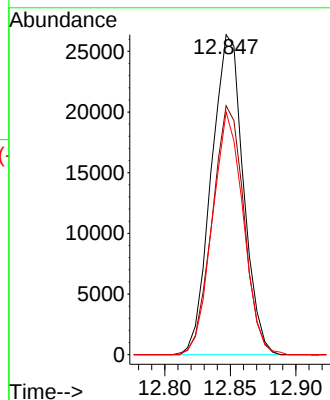
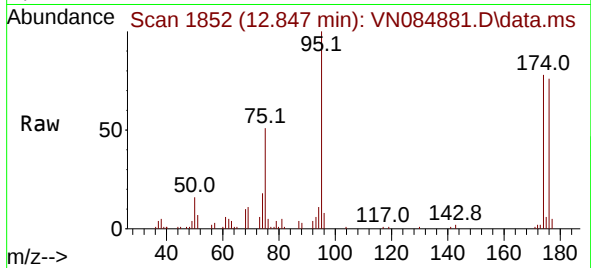




#60  
4-Bromofluorobenzene  
Concen: 24.370 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

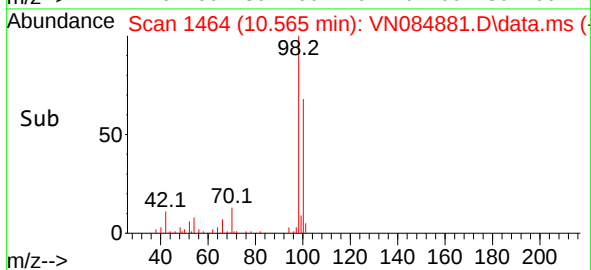
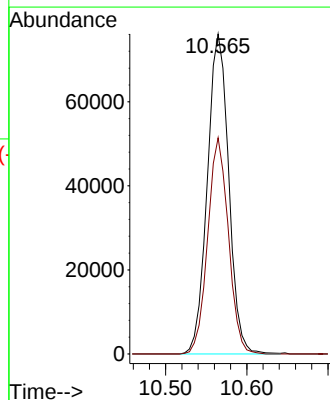
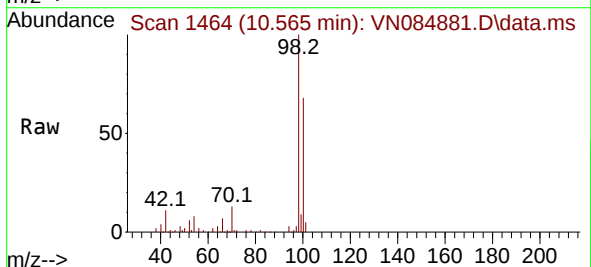
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

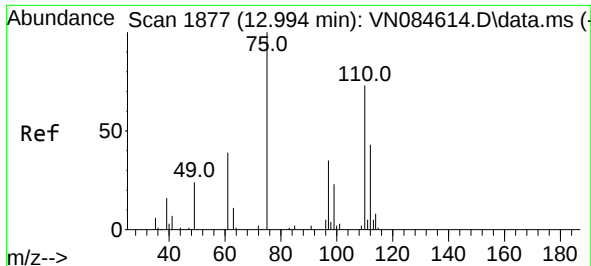
Tgt Ion: 95 Resp: 44738  
Ion Ratio Lower Upper  
95 100  
174 77.1 59.6 89.4  
176 73.5 58.6 88.0



#63  
Toluene-d8  
Concen: 27.604 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Tgt Ion: 98 Resp: 139328  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.2 78.2

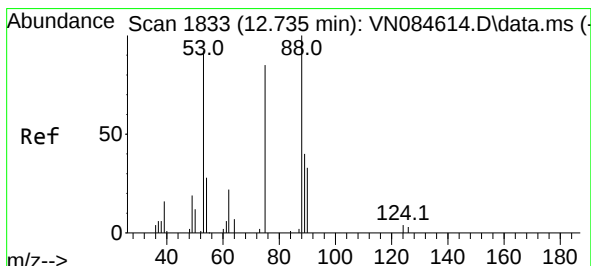
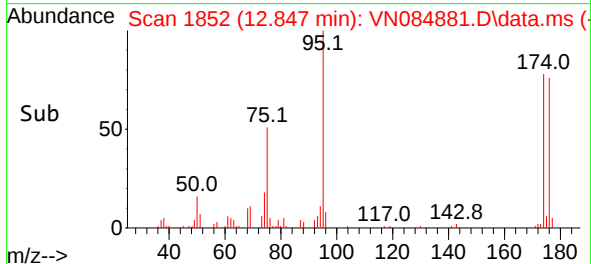
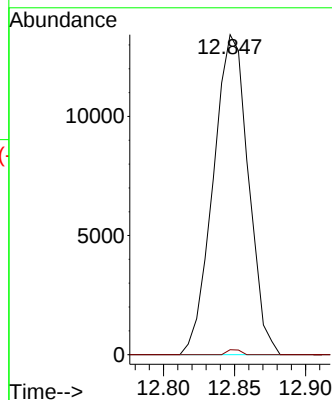
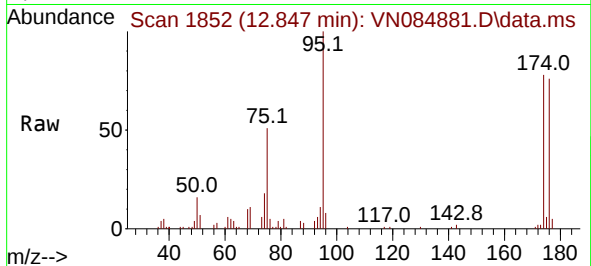




#72  
1,2,3-Trichloropropane  
Concen: 14.286 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

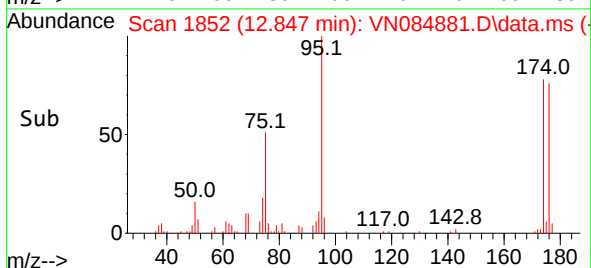
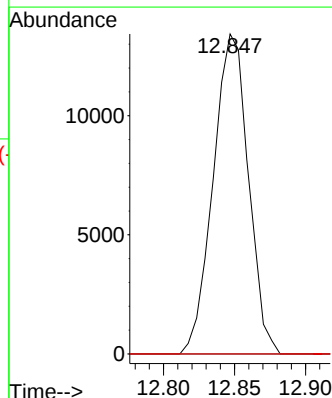
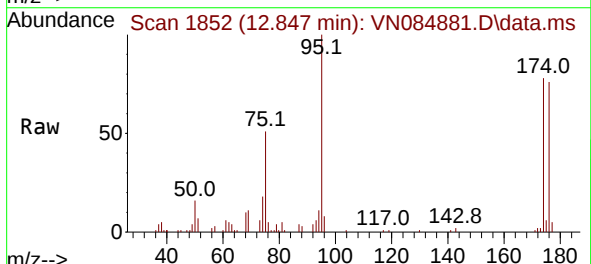
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

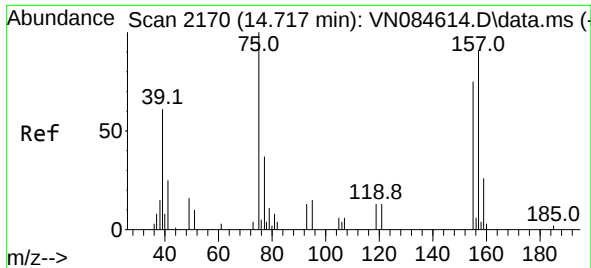
Tgt Ion: 75 Resp: 23150  
Ion Ratio Lower Upper  
75 100  
77 0.6 0.0 358.4



#77  
t-1,4-Dichloro-2-butene  
Concen: 34.833 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

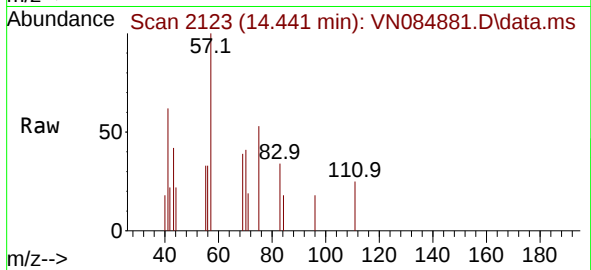
Tgt Ion: 75 Resp: 23150  
Ion Ratio Lower Upper  
75 100  
53 0.0 52.4 157.2#  
89 0.0 26.0 78.0#





#88  
1,2-Dibromo-3-Chloropropane  
Concen: 1.644 ug/l  
RT: 14.441 min Scan# 21  
Delta R.T. -0.277 min  
Lab File: VN084881.D  
Acq: 15 Nov 2024 20:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK



Tgt Ion: 75 Resp: 602  
Ion Ratio Lower Upper  
75 100  
155 0.0 61.8 92.6#  
157 0.0 74.7 112.1#

