

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081123\  
 Data File : VN078869.D  
 Acq On : 11 Aug 2023 17:40  
 Operator : JC\MD  
 Sample : 03987-02DL 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002-35TH-AVE(JULY)DL

Quant Time: Aug 12 01:43:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 09 05:05:47 2023  
 Response via : Initial Calibration

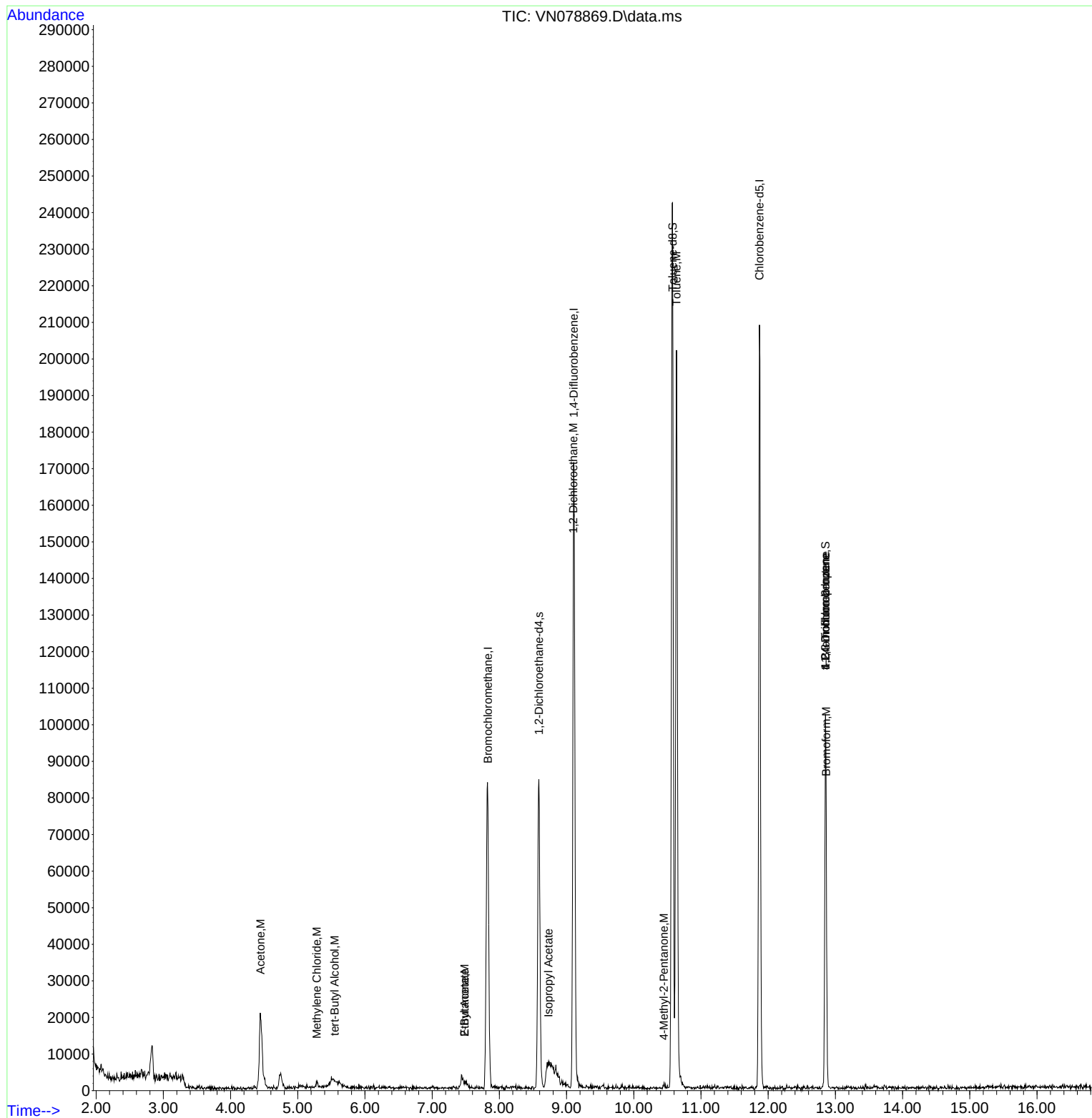
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.830  | 128   | 27252    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.106  | 114   | 137725   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.871 | 117   | 112556   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.588  | 65    | 68180    | 31.075   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 103.600% |
| 60) 4-Bromofluorobenzene    | 12.853 | 95    | 32357    | 20.480   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 68.267%  |
| 63) Toluene-d8              | 10.577 | 98    | 164753   | 29.870   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 99.567%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 15) Acetone                 | 4.448  | 58    | 11323    | 50.559   | ug/l   | 86       |
| 18) Methylene Chloride      | 5.283  | 84    | 619      | 0.327    | ug/l # | 78       |
| 23) tert-Butyl Alcohol      | 5.547  | 59    | 457      | 1.415    | ug/l # | 100      |
| 30) 2-Butanone              | 7.483  | 43    | 585      | 0.533    | ug/l # | 42       |
| 36) 1,2-Dichloroethane      | 9.100  | 62    | 2992     | 1.257    | ug/l # | 75       |
| 43) Ethyl Acetate           | 7.483  | 43    | 585      | 0.257    | ug/l   | 97       |
| 44) Isopropyl Acetate       | 8.730  | 43    | 3028     | 0.741    | ug/l # | 46       |
| 56) Bromoform               | 12.865 | 173   | 358      | 0.336    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 10.447 | 43    | 935      | 0.432    | ug/l # | 42       |
| 62) Toluene                 | 10.635 | 91    | 148767   | 22.450   | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane  | 12.853 | 75    | 18340    | 9.994    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.853 | 75    | 18340    | 31.839   | ug/l # | 15       |
| -----                       |        |       |          |          |        |          |

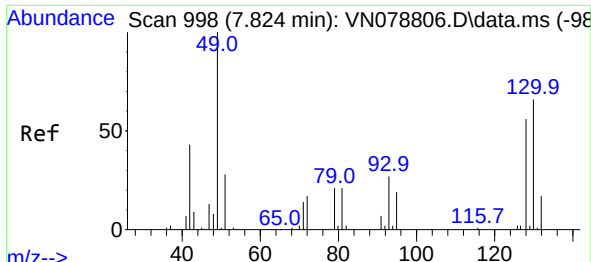
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081123\  
Data File : VN078869.D  
Acq On : 11 Aug 2023 17:40  
Operator : JC\MD  
Sample : 03987-02DL 10X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

Quant Time: Aug 12 01:43:01 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 09 05:05:47 2023  
Response via : Initial Calibration

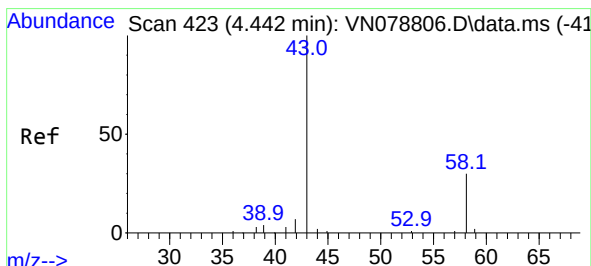
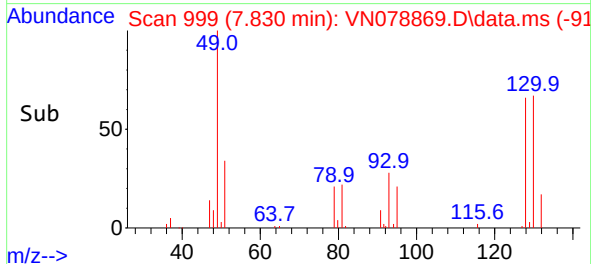
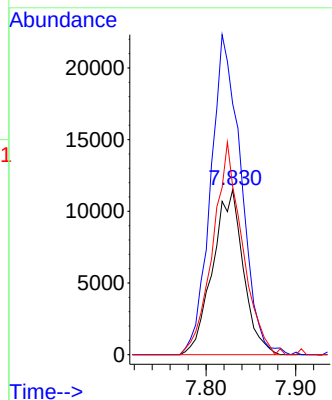
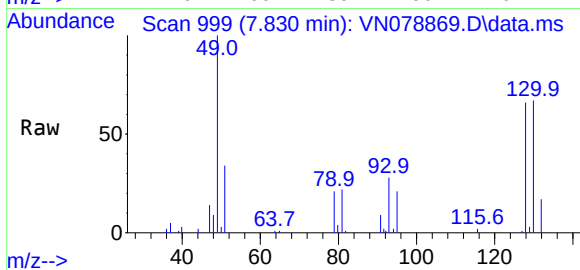




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.830 min Scan# 998  
Delta R.T. 0.006 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

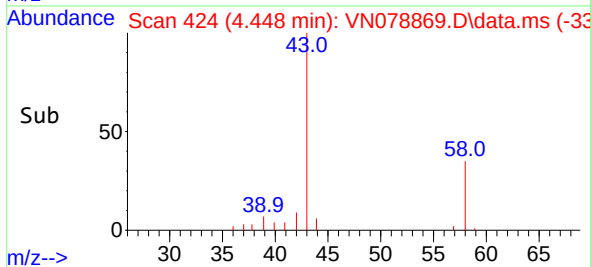
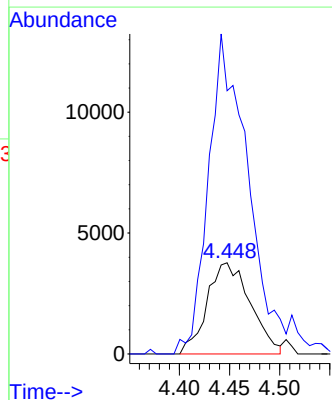
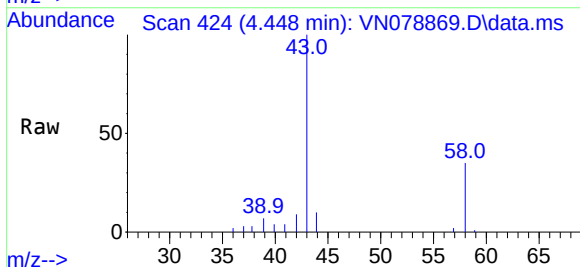
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

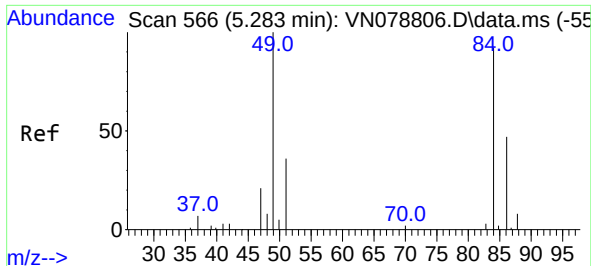
Tgt Ion:128 Resp: 27252  
Ion Ratio Lower Upper  
128 100  
49 191.6 0.0 370.8  
130 123.1 0.0 307.0



#15  
Acetone  
Concen: 50.559 ug/l  
RT: 4.448 min Scan# 424  
Delta R.T. 0.006 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

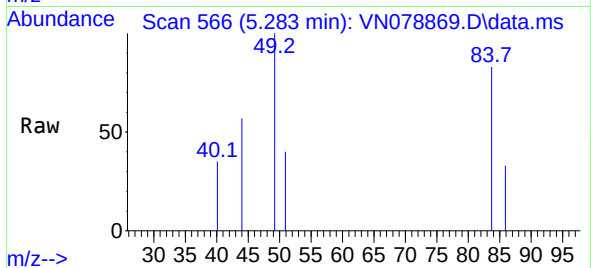
Tgt Ion: 58 Resp: 11323  
Ion Ratio Lower Upper  
58 100  
43 257.1 227.5 341.3





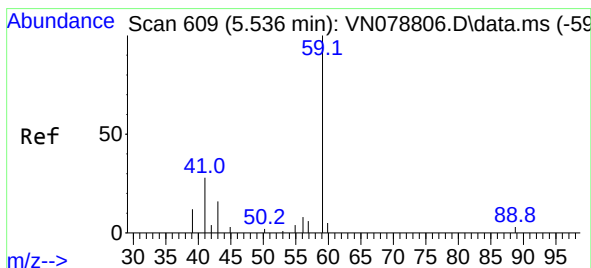
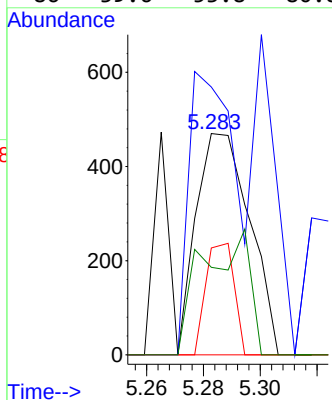
#18  
Methylene Chloride  
Concen: 0.327 ug/l  
RT: 5.283 min Scan# 519  
Delta R.T. -0.000 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL



Tgt Ion: 84 Resp: 619

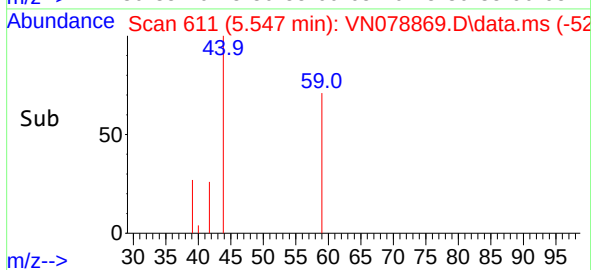
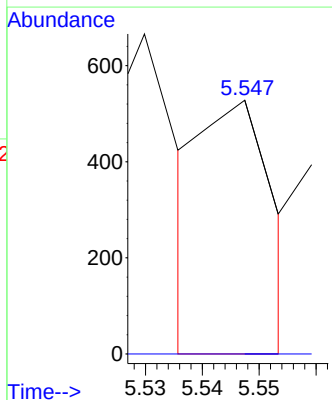
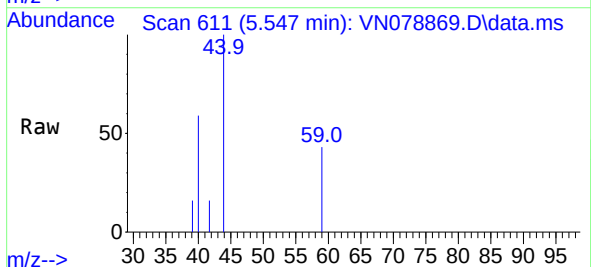
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 121.1 | 88.1  | 132.1 |
| 51  | 48.3  | 24.0  | 36.0# |
| 86  | 39.6  | 53.8  | 80.8# |

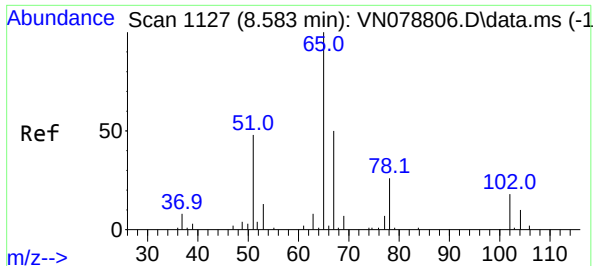


#23  
tert-Butyl Alcohol  
Concen: 1.415 ug/l  
RT: 5.547 min Scan# 611  
Delta R.T. 0.012 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion: 59 Resp: 457

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 59  | 100   |       |       |
| 52  | 0.0   | 0.1   | 0.1#  |

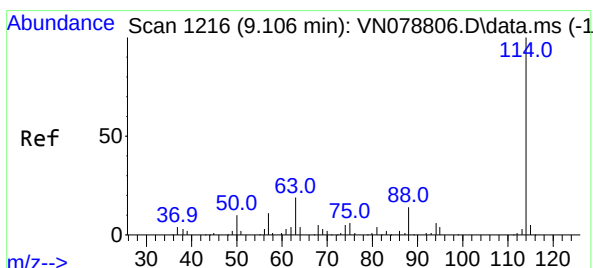
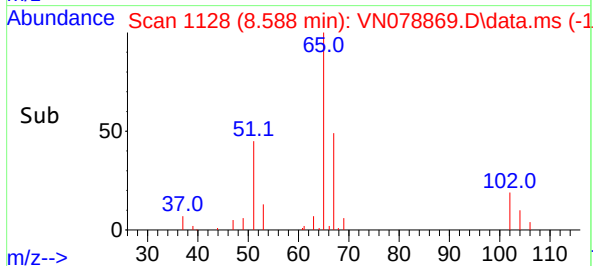
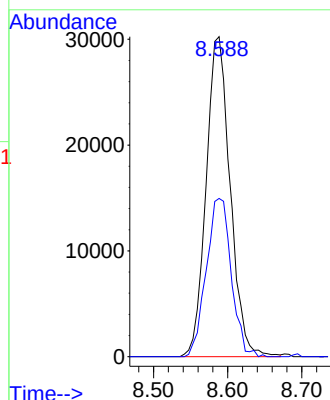
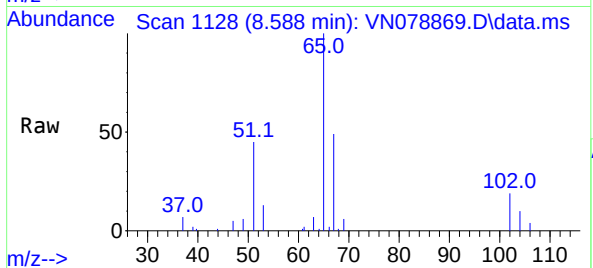




#27  
1,2-Dichloroethane-d4  
Concen: 31.075 ug/l  
RT: 8.588 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

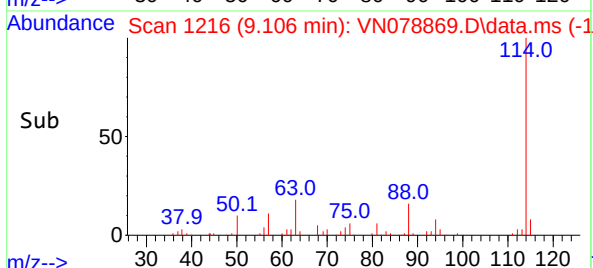
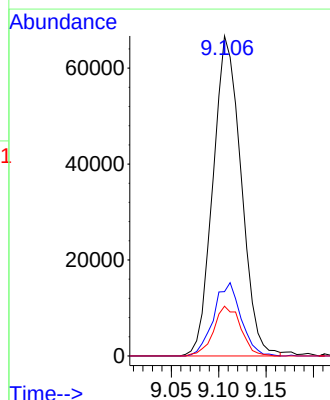
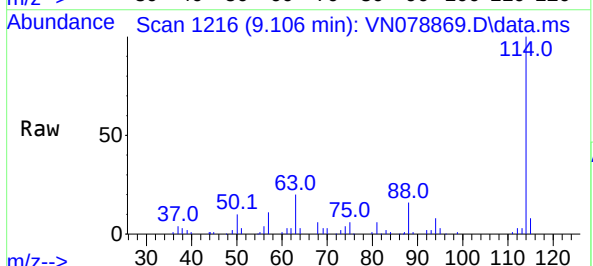
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

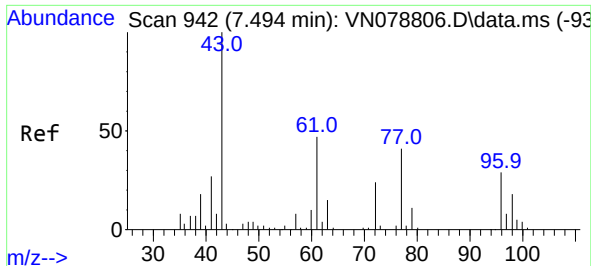
Tgt Ion: 65 Resp: 68180  
Ion Ratio Lower Upper  
65 100  
67 50.9 42.9 64.3



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.106 min Scan# 1216  
Delta R.T. -0.000 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion: 114 Resp: 137725  
Ion Ratio Lower Upper  
114 100  
63 22.3 15.2 22.8  
88 15.0 12.5 18.7





#30

2-Butanone

Concen: 0.533 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.012 min

Lab File: VN078869.D

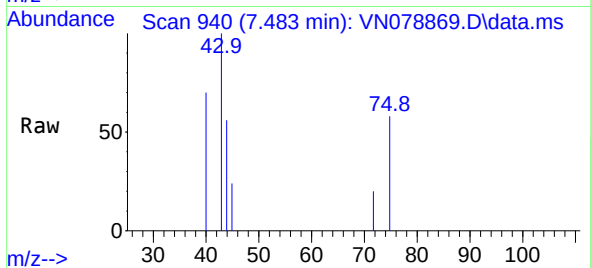
Acq: 11 Aug 2023 17:40

Instrument :

MSVOA\_N

ClientSampleId :

002-35TH-AVE(JULY)DL



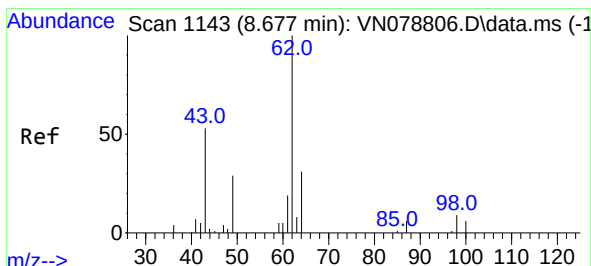
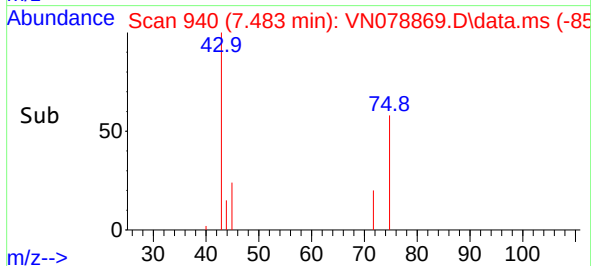
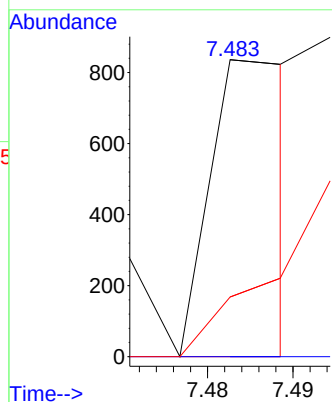
Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

43 100

57 0.0 6.8 10.2#

72 66.5 23.8 35.6#



#36

1,2-Dichloroethane

Concen: 1.257 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.423 min

Lab File: VN078869.D

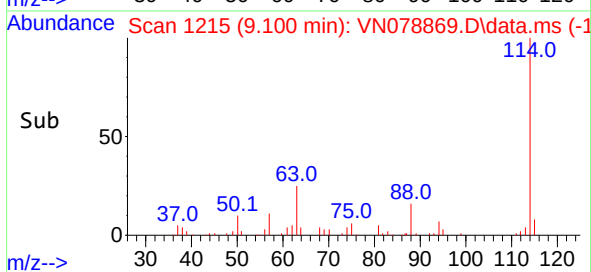
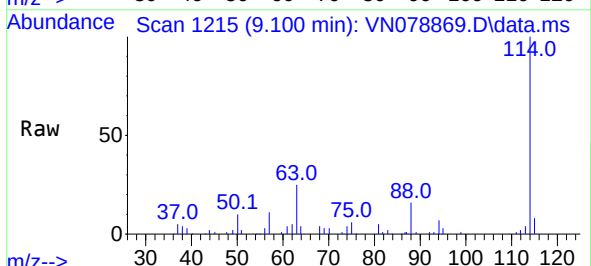
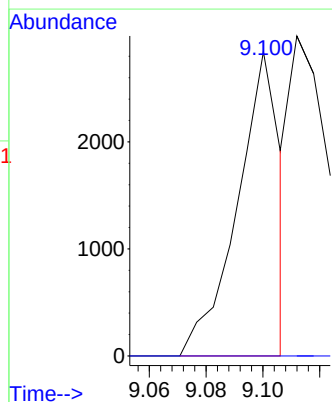
Acq: 11 Aug 2023 17:40

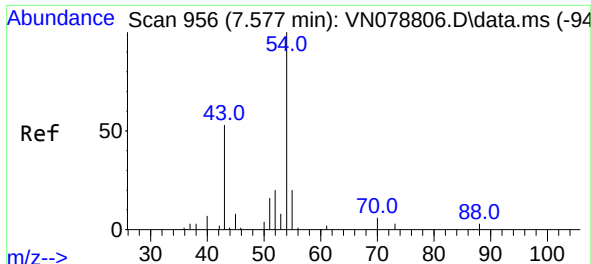
Tgt Ion: 62 Resp: 2992

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#

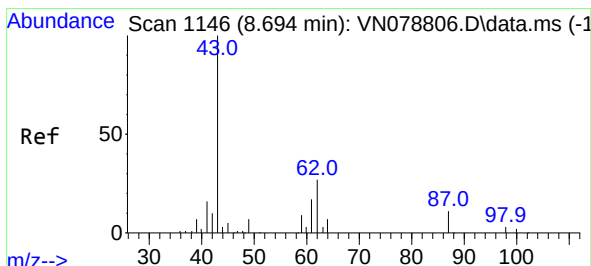
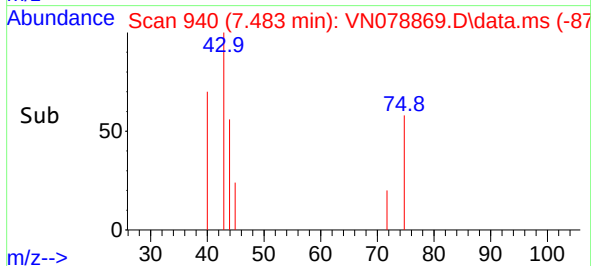
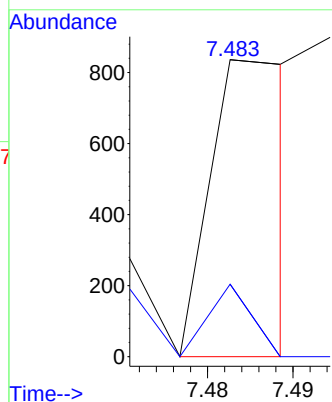
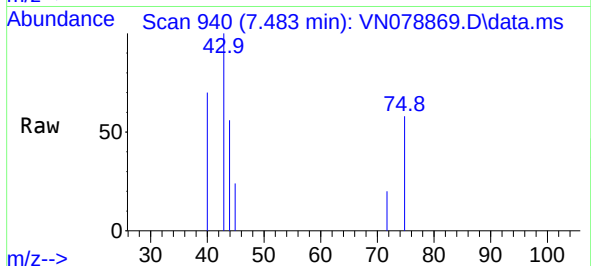




#43  
Ethyl Acetate  
Concen: 0.257 ug/l  
RT: 7.483 min Scan# 94  
Delta R.T. -0.094 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

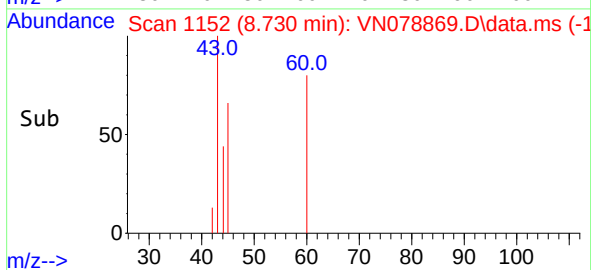
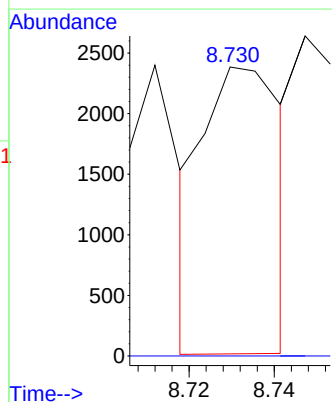
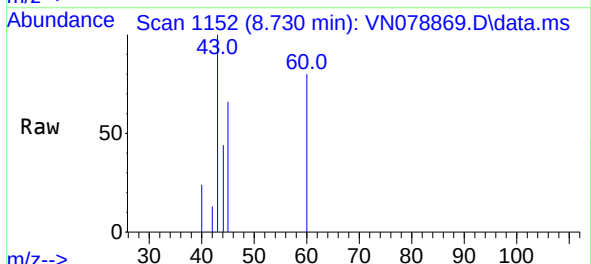
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

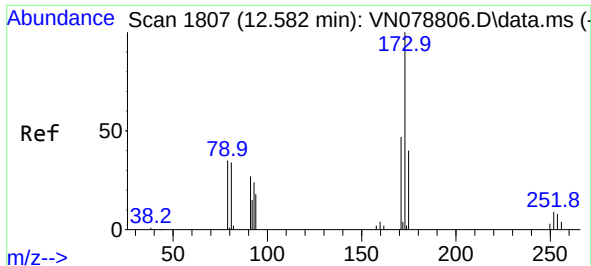
Tgt Ion: 43 Resp: 585  
Ion Ratio Lower Upper  
43 100  
45 12.3 10.9 16.3



#44  
Isopropyl Acetate  
Concen: 0.741 ug/l  
RT: 8.730 min Scan# 1152  
Delta R.T. 0.035 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion: 43 Resp: 3028  
Ion Ratio Lower Upper  
43 100  
61 0.0 23.0 34.6#

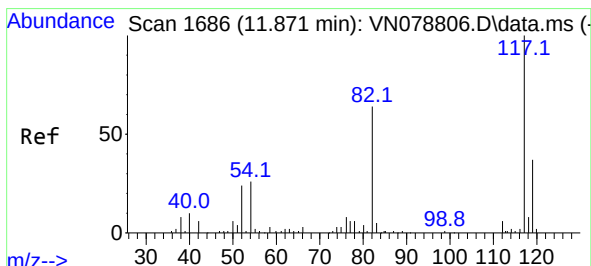
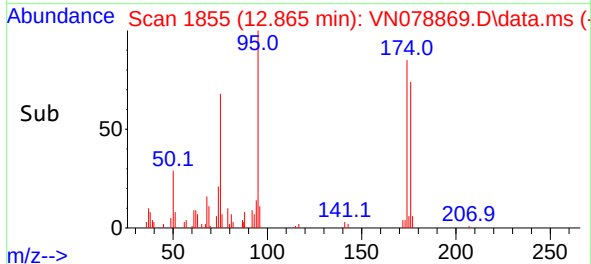
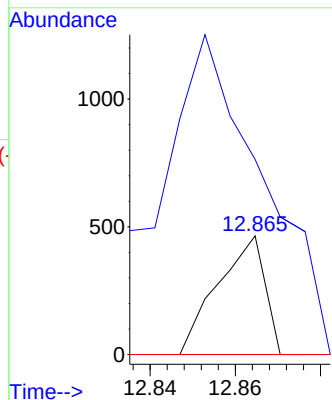
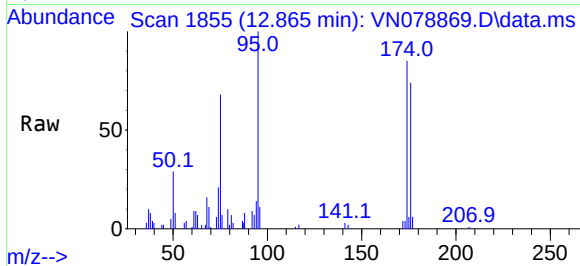




#56  
Bromoform  
Concen: 0.336 ug/l  
RT: 12.865 min Scan# 11  
Delta R.T. 0.282 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

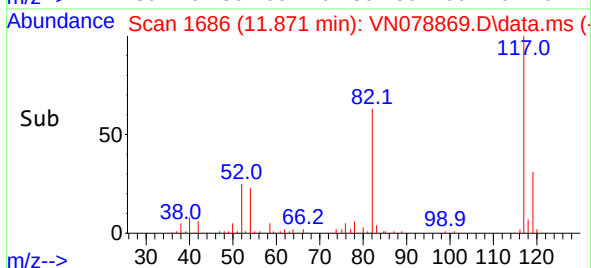
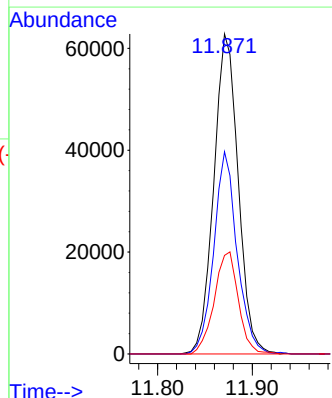
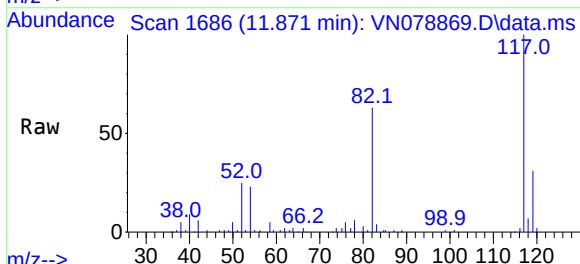
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

Tgt Ion:173 Resp: 358  
Ion Ratio Lower Upper  
173 100  
175 579.1 40.7 61.1#  
254 0.0 6.5 9.7#

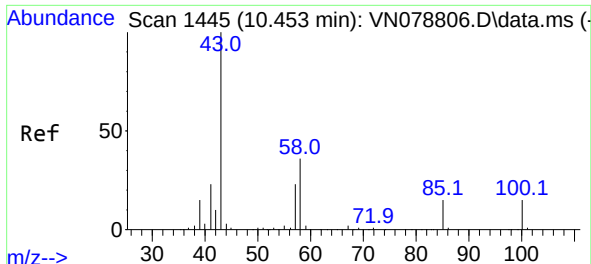


#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion:117 Resp: 112556  
Ion Ratio Lower Upper  
117 100  
82 60.4 43.9 65.9  
119 31.5 26.2 39.4



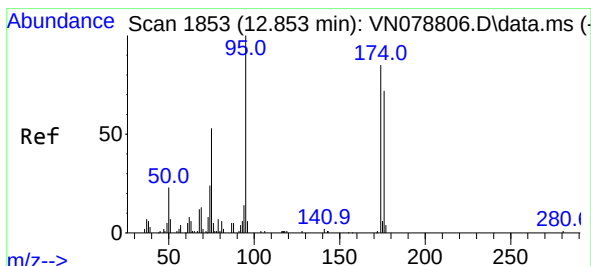
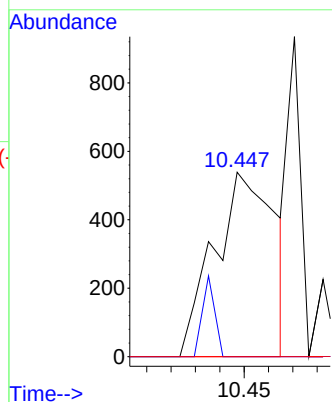
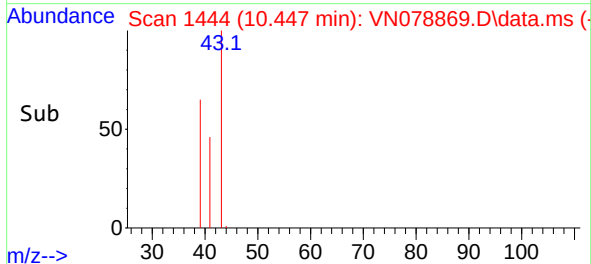
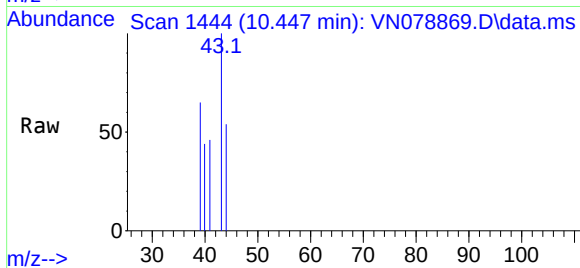




#58  
4-Methyl-2-Pentanone  
Concen: 0.432 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.006 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

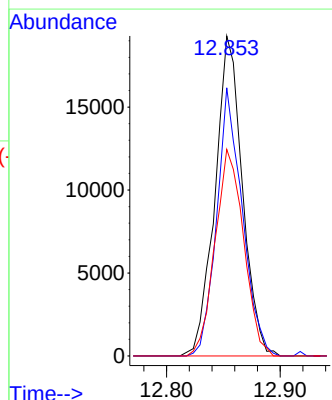
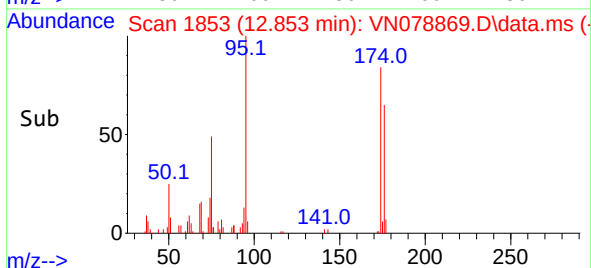
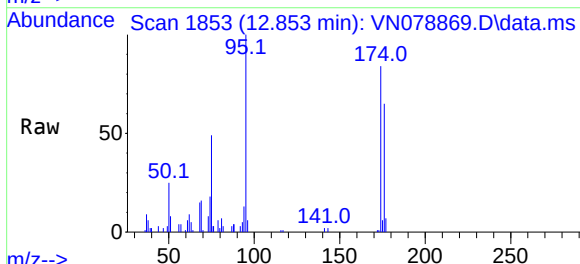
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

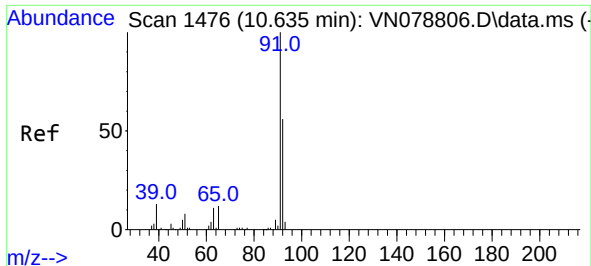
Tgt Ion: 43 Resp: 935  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.6 48.8#  
85 0.0 16.2 24.2#



#60  
4-Bromofluorobenzene  
Concen: 20.480 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion: 95 Resp: 32357  
Ion Ratio Lower Upper  
95 100  
174 77.9 61.7 92.5  
176 67.2 58.1 87.1

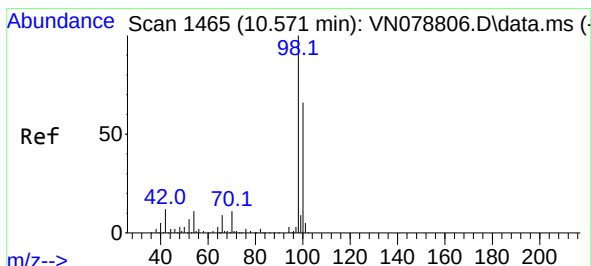
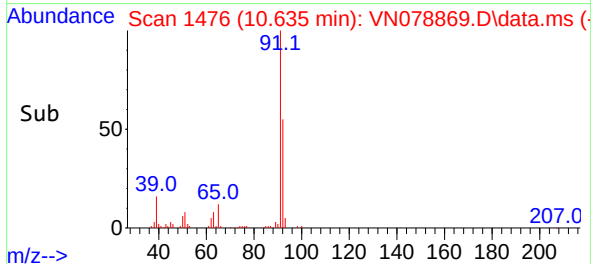
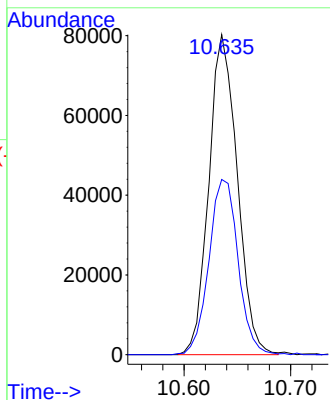
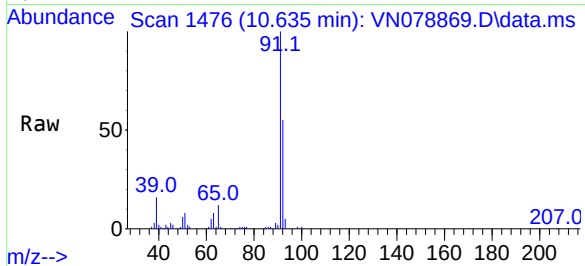




#62  
Toluene  
Concen: 22.450 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

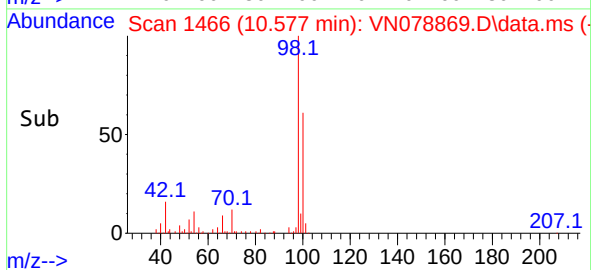
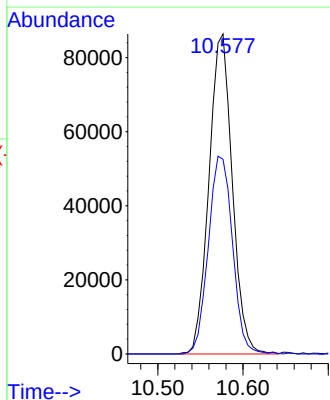
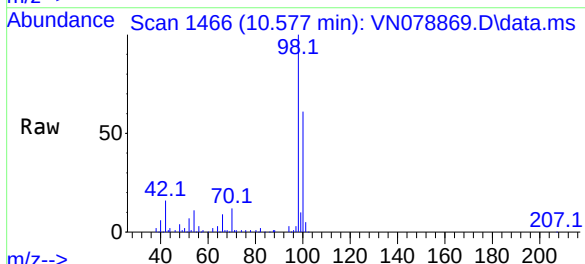
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

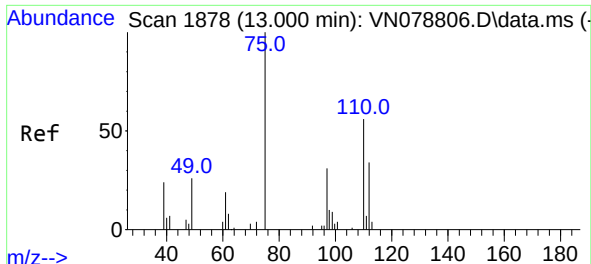
Tgt Ion: 91 Resp: 148767  
Ion Ratio Lower Upper  
91 100  
92 56.2 45.2 67.8



#63  
Toluene-d8  
Concen: 29.870 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. 0.006 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion: 98 Resp: 164753  
Ion Ratio Lower Upper  
98 100  
100 63.9 49.7 74.5

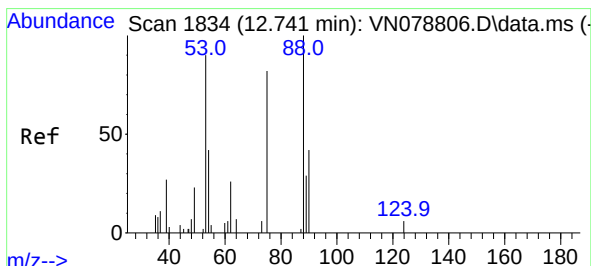
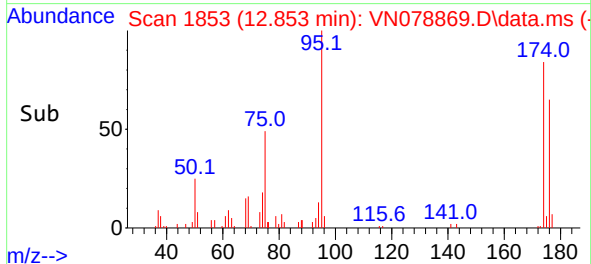
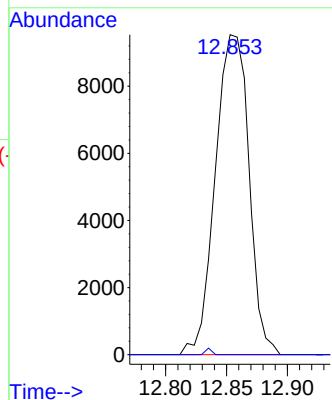
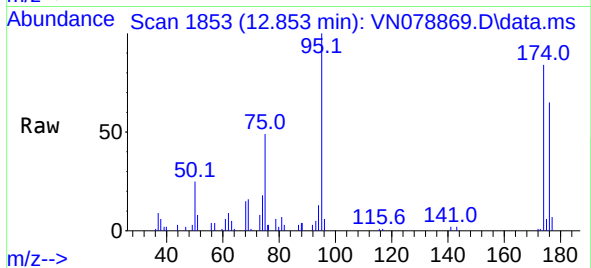




#72  
1,2,3-Trichloropropane  
Concen: 9.994 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)DL

Tgt Ion: 75 Resp: 18340  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 387.4



#77  
t-1,4-Dichloro-2-butene  
Concen: 31.839 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN078869.D  
Acq: 11 Aug 2023 17:40

Tgt Ion: 75 Resp: 18340  
Ion Ratio Lower Upper  
75 100  
53 0.0 41.6 124.9#  
89 0.0 25.1 75.4#

