

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121624\  
 Data File : VN085215.D  
 Acq On : 16 Dec 2024 13:33  
 Operator : JC\MD  
 Sample : P5283-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT-RW10A-IDWGW-20241213

Quant Time: Dec 17 02:01:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N120624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 06 22:50:42 2024  
 Response via : Initial Calibration

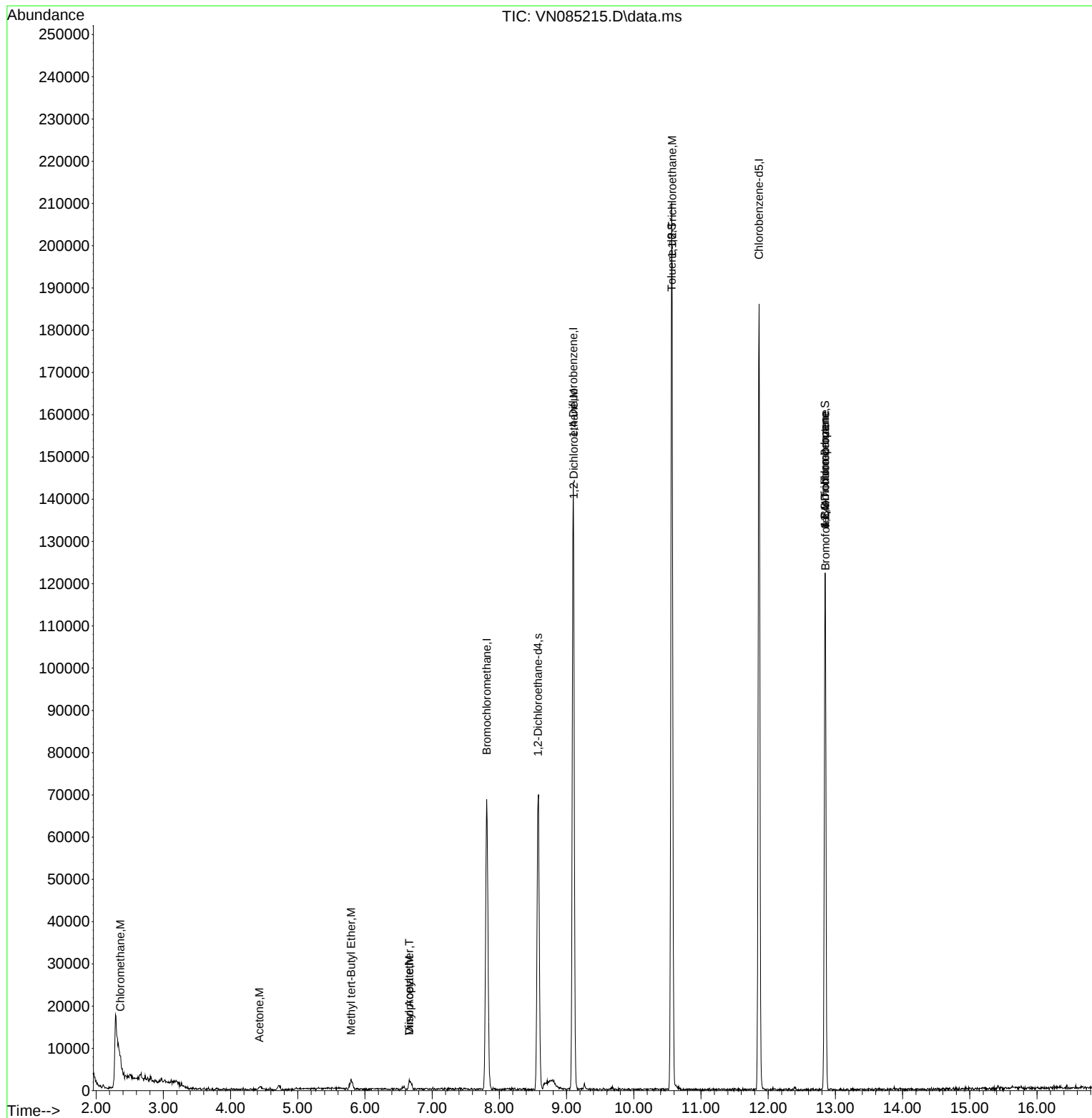
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.812  | 128   | 25309    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 122588   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 107111   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.576  | 65    | 60177    | 29.966   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 99.900%  |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 43131    | 24.337   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 81.133%  |
| 63) Toluene-d8              | 10.565 | 98    | 144249   | 28.710   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 95.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 2.359  | 50    | 1087     | 0.607    | ug/l # | 76       |
| 15) Acetone                 | 4.430  | 58    | 136      | 0.665    | ug/l # | 1        |
| 20) Diisopropyl ether       | 6.659  | 45    | 1614     | 0.333    | ug/l # | 84       |
| 24) Methyl tert-Butyl Ether | 5.794  | 73    | 2513     | 0.522    | ug/l   | 96       |
| 36) 1,2-Dichloroethane      | 9.106  | 62    | 4488     | 2.122    | ug/l # | 75       |
| 42) Vinyl Acetate           | 6.659  | 43    | 640      | 0.201    | ug/l # | 70       |
| 50) 1,1,2-Trichloroethane   | 10.570 | 97    | 4964     | 3.412    | ug/l # | 1        |
| 56) Bromoform               | 12.853 | 173   | 470      | 0.395    | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane  | 12.847 | 75    | 23086    | 12.433   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75    | 23086    | 34.216   | ug/l # | 10       |
| -----                       |        |       |          |          |        |          |

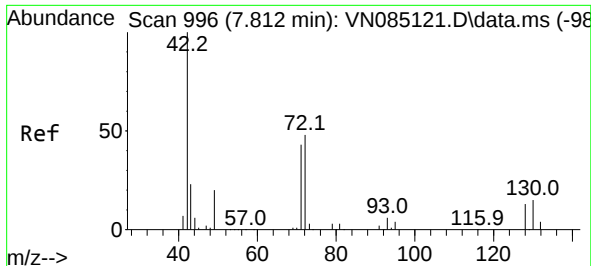
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TT-RW10A-IDWGW-20241213

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N120624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Dec 06 22:50:42 2024  
Response via : Initial Calibration

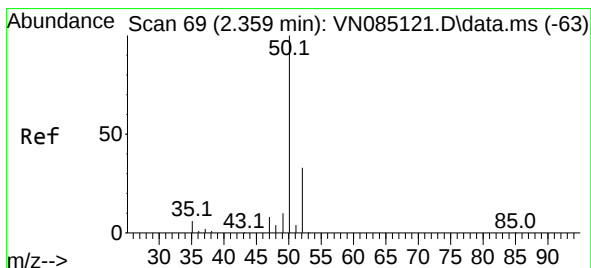
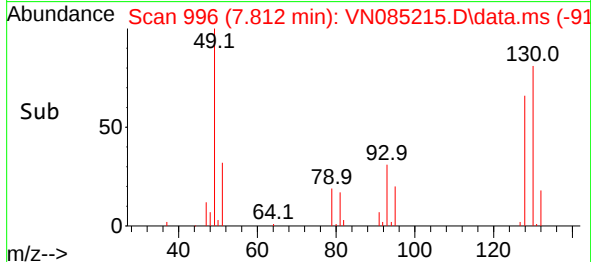
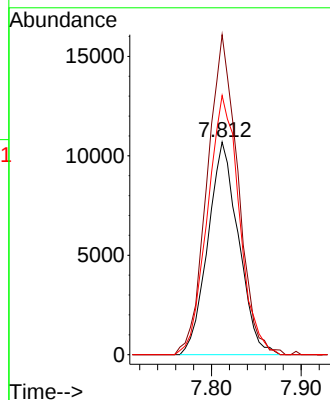
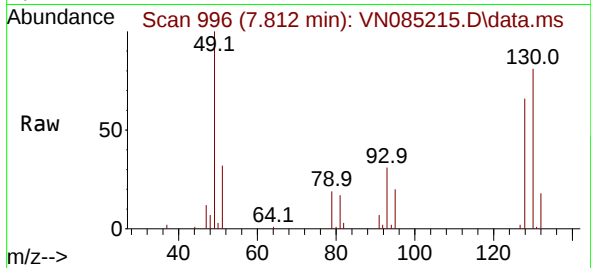




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

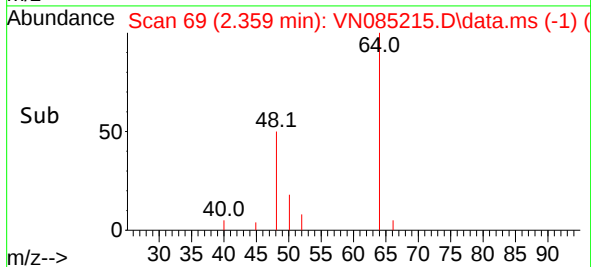
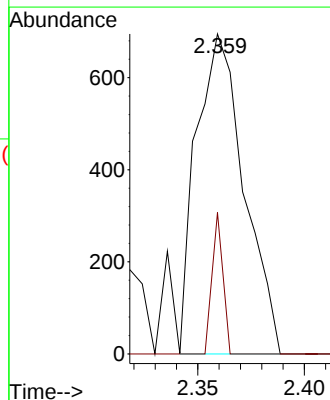
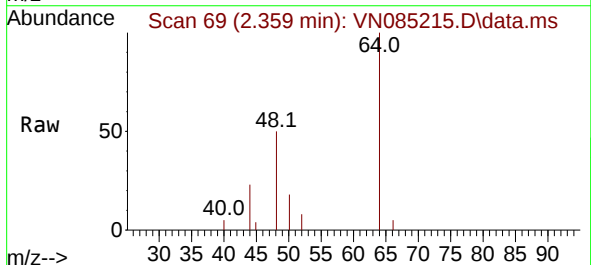
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MSVOA\_N  
ClientSampleId :  
TT-RW10A-IDWGW-20241213

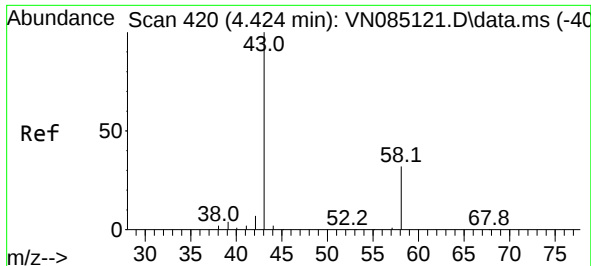
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 25309 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 150.2 | 0.0   | 394.5 |
| 130      | 127.0 | 0.0   | 316.5 |



#3  
Chloromethane  
Concen: 0.607 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 50    | Resp: | 1087  |
| Ion      | Ratio | Lower | Upper |
| 50       | 100   |       |       |
| 52       | 44.2  | 25.0  | 37.4# |





#15

Acetone

Concen: 0.665 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085215.D

Acq: 16 Dec 2024 13:33

Instrument :

MSVOA\_N

ClientSampleId :

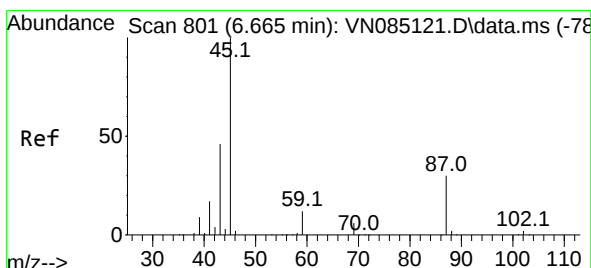
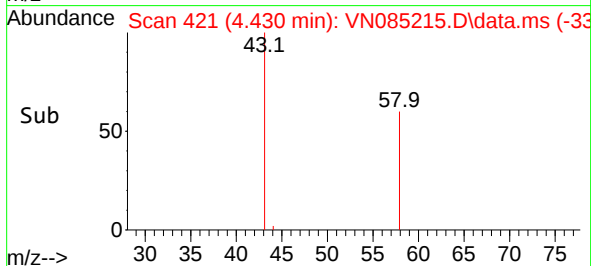
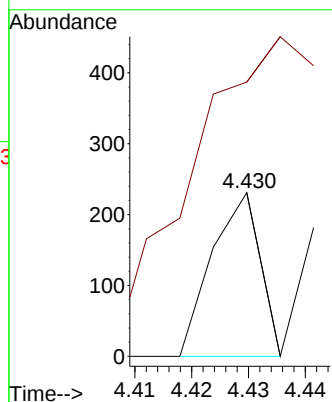
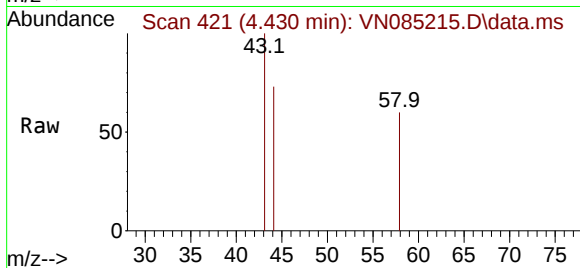
TT-RW10A-IDWGW-20241213

Tgt Ion: 58 Resp: 136

Ion Ratio Lower Upper

58 100

43 83.1 242.3 363.5#



#20

Diisopropyl ether

Concen: 0.333 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN085215.D

Acq: 16 Dec 2024 13:33

Tgt Ion: 45 Resp: 1614

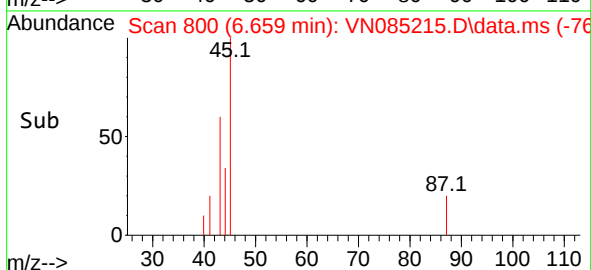
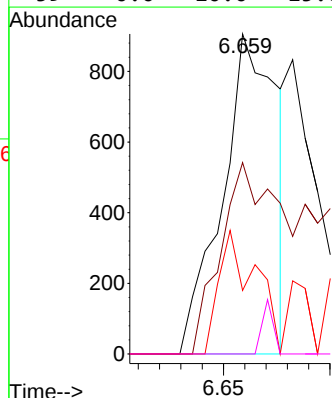
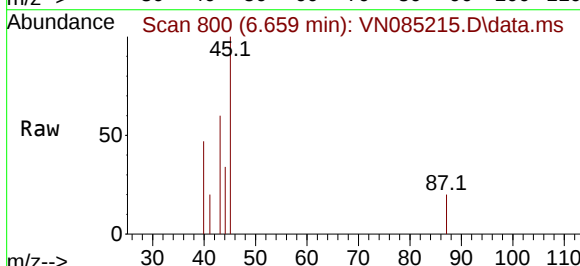
Ion Ratio Lower Upper

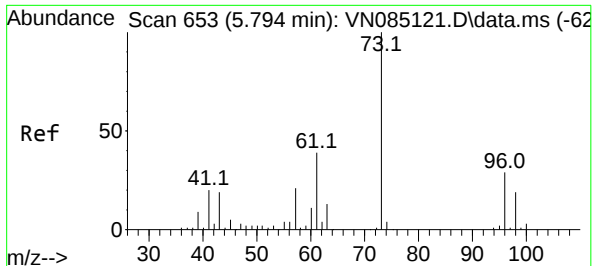
45 100

43 59.8 41.9 62.9

87 19.9 24.1 36.1#

59 0.0 10.0 15.0#

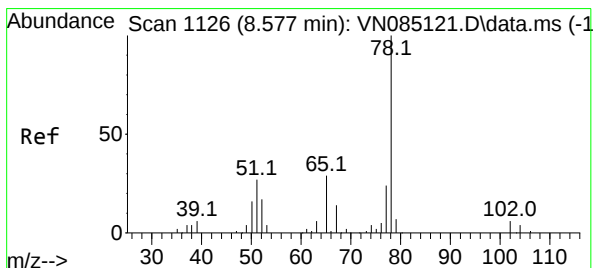
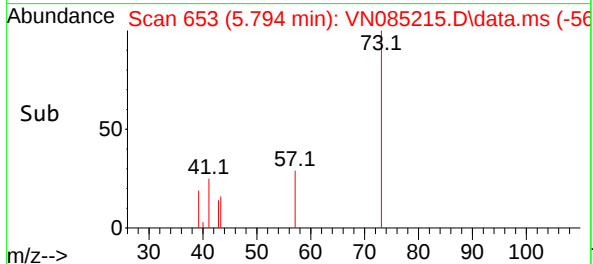
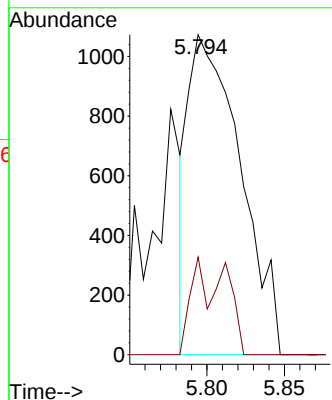
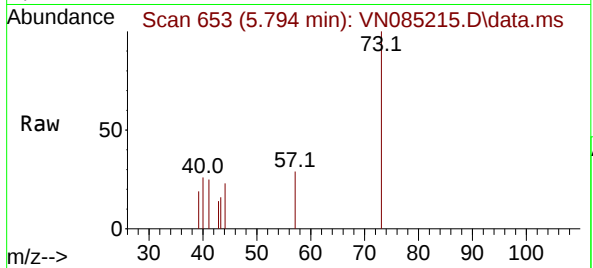




#24  
Methyl tert-Butyl Ether  
Concen: 0.522 ug/l  
RT: 5.794 min Scan# 612  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

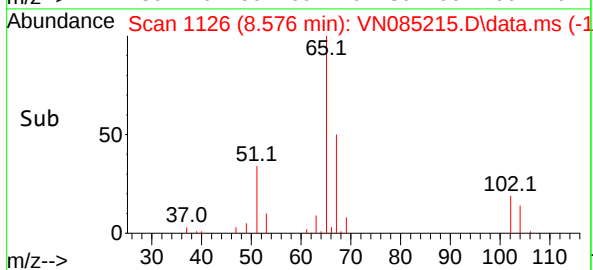
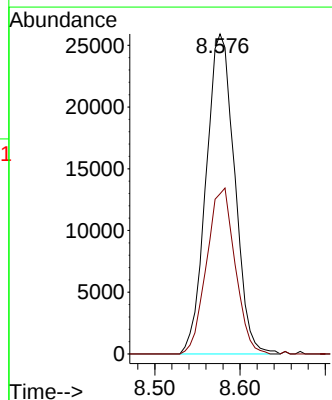
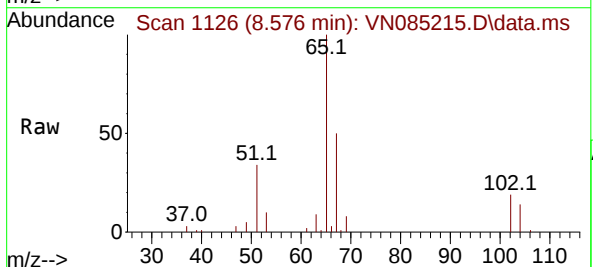
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-RW10A-IDWGW-20241213

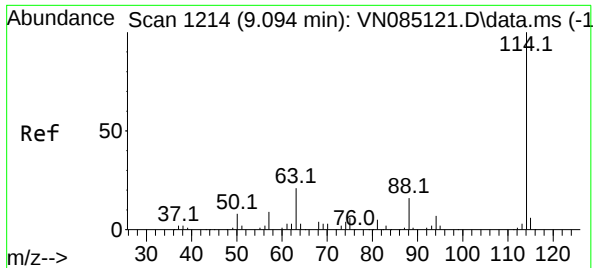
Tgt Ion: 73 Resp: 2513  
Ion Ratio Lower Upper  
73 100  
43 9.4 8.7 13.1



#27  
1,2-Dichloroethane-d4  
Concen: 29.966 ug/l  
RT: 8.576 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

Tgt Ion: 65 Resp: 60177  
Ion Ratio Lower Upper  
65 100  
67 51.8 39.9 59.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085215.D

Acq: 16 Dec 2024 13:33

Instrument :

MSVOA\_N

ClientSampleId :

TT-RW10A-IDWGW-20241213

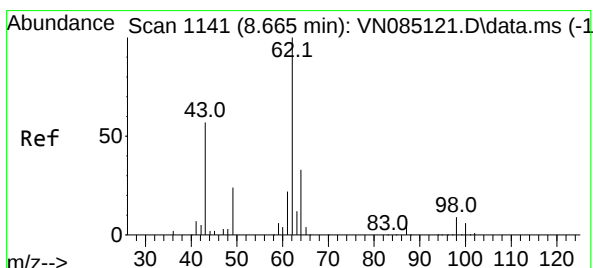
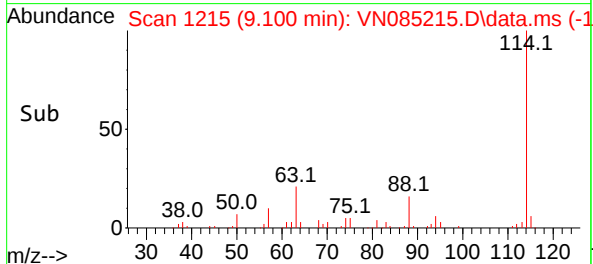
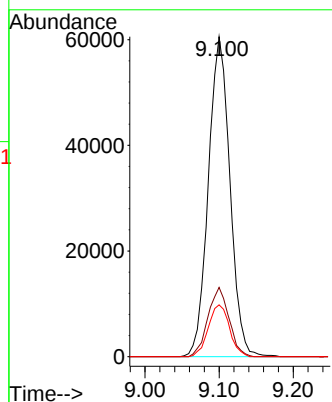
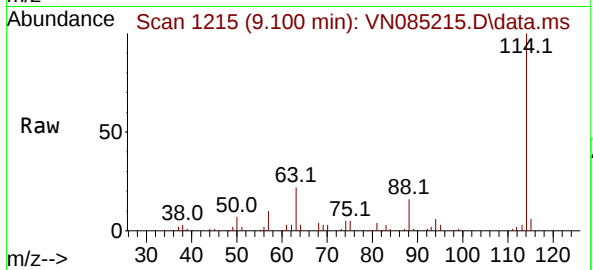
Tgt Ion:114 Resp: 122588

Ion Ratio Lower Upper

114 100

63 21.1 16.2 24.2

88 15.9 12.5 18.7



#36

1,2-Dichloroethane

Concen: 2.122 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.441 min

Lab File: VN085215.D

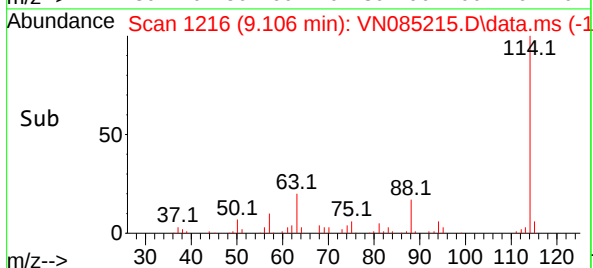
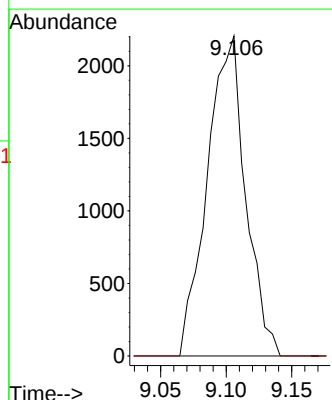
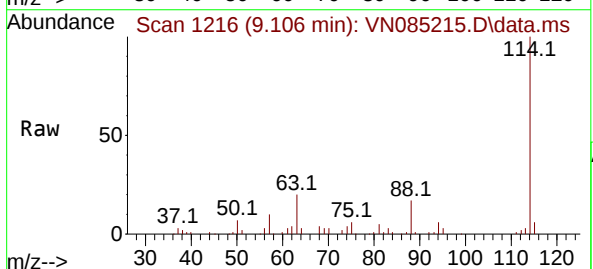
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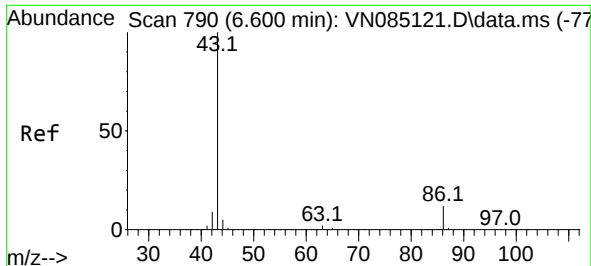
Tgt Ion: 62 Resp: 4488

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#

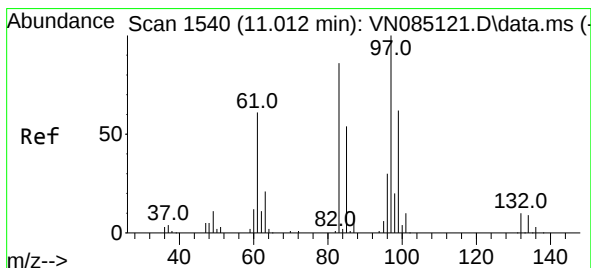
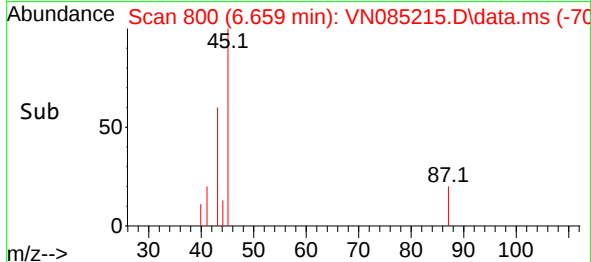
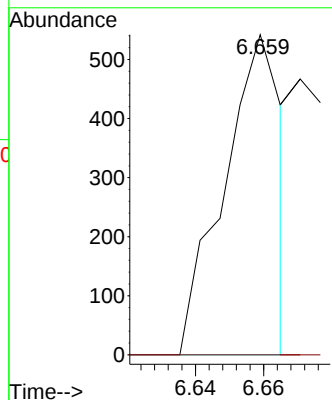
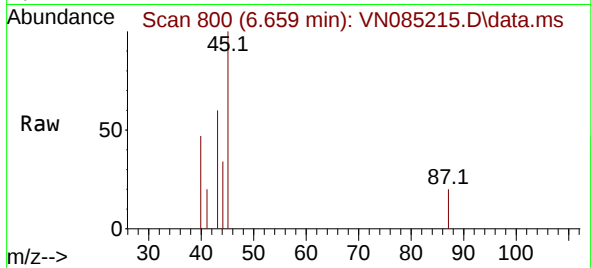




#42  
 Vinyl Acetate  
 Concen: 0.201 ug/l  
 RT: 6.659 min Scan# 80  
 Delta R.T. 0.059 min  
 Lab File: VN085215.D  
 Acq: 16 Dec 2024 13:33

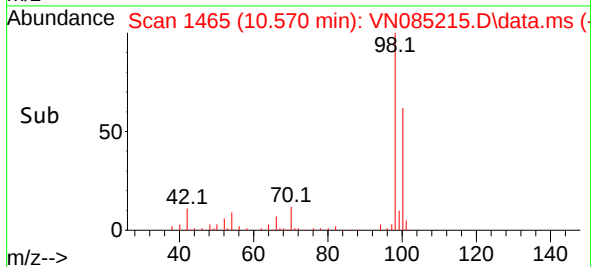
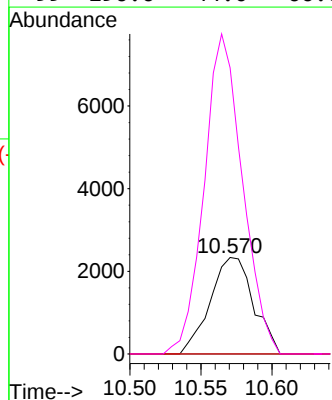
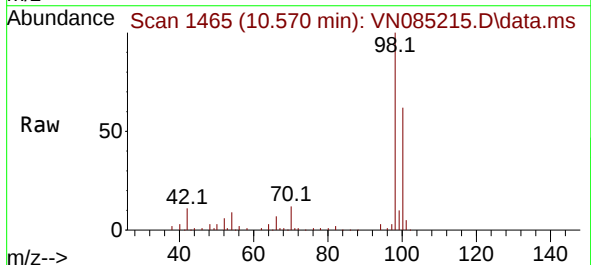
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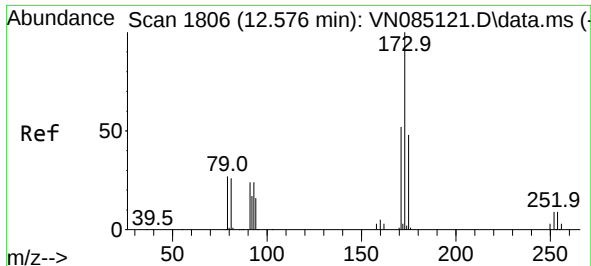
Tgt Ion: 43 Resp: 640  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 9.2 13.8#



#50  
 1,1,2-Trichloroethane  
 Concen: 3.412 ug/l  
 RT: 10.570 min Scan# 1465  
 Delta R.T. -0.441 min  
 Lab File: VN085215.D  
 Acq: 16 Dec 2024 13:33

Tgt Ion: 97 Resp: 4964  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 65.8 98.8#  
 85 0.0 40.8 61.2#  
 99 296.6 44.0 66.0#

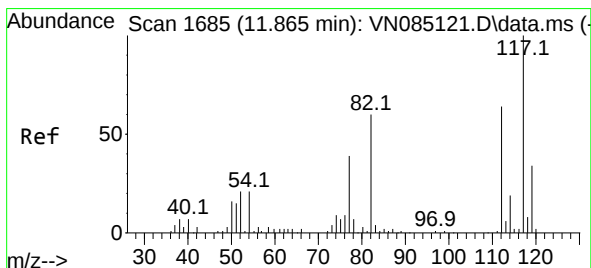
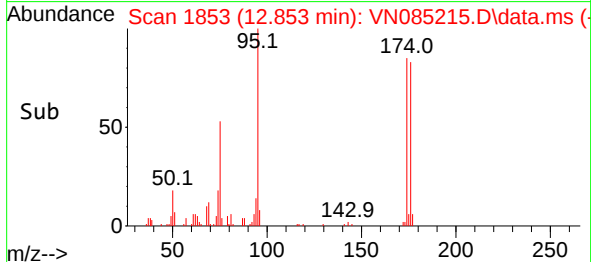
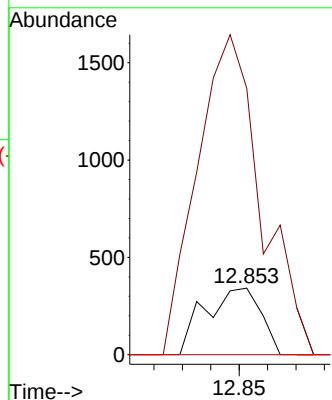
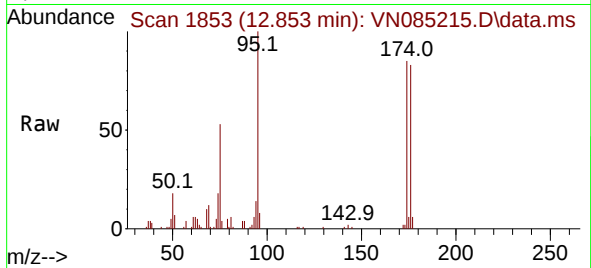




#56  
Bromoform  
Concen: 0.395 ug/l  
RT: 12.853 min Scan# 1806  
Delta R.T. 0.276 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

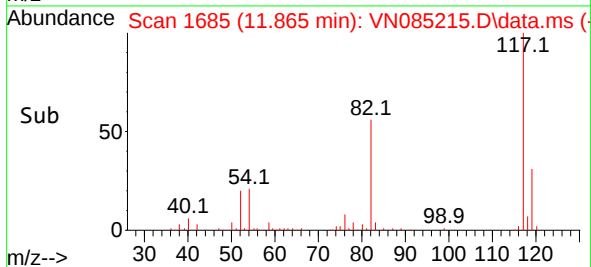
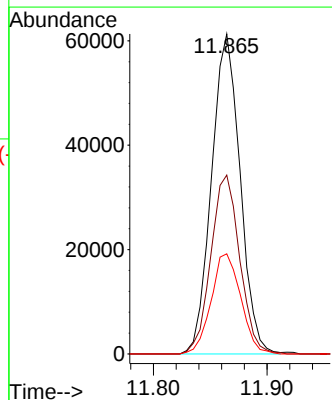
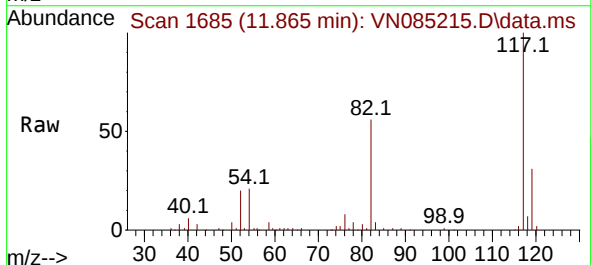
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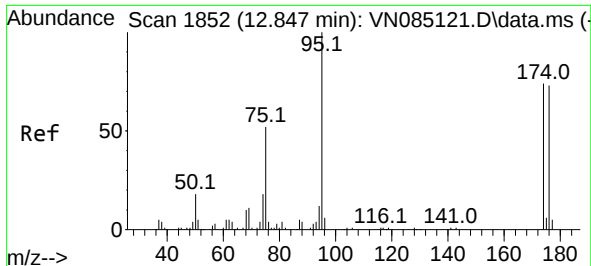
Tgt Ion:173 Resp: 470  
Ion Ratio Lower Upper  
173 100  
175 549.1 40.2 60.2#  
254 0.0 6.2 9.4#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

Tgt Ion:117 Resp: 107111  
Ion Ratio Lower Upper  
117 100  
82 56.5 44.2 66.4  
119 32.5 25.4 38.2

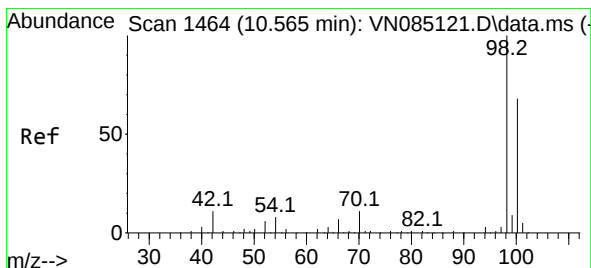
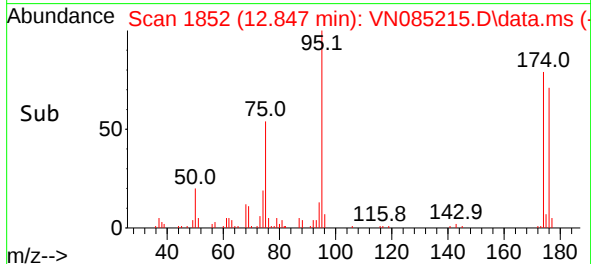
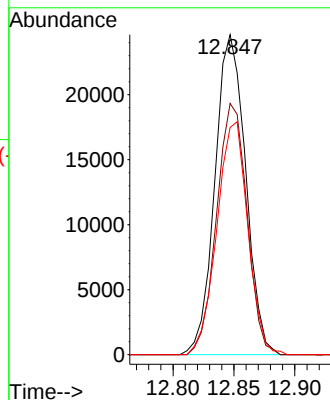
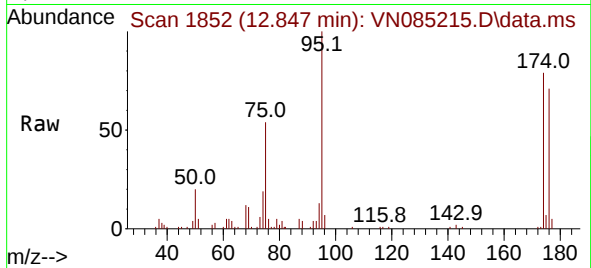




#60  
4-Bromofluorobenzene  
Concen: 24.337 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

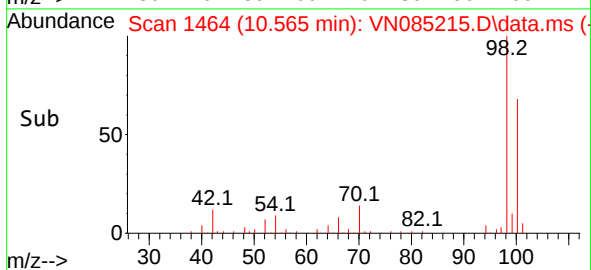
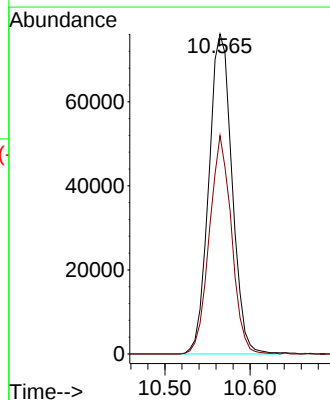
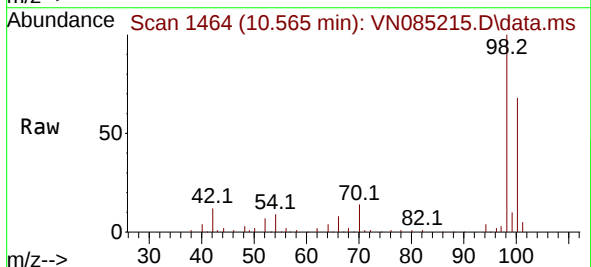
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ClientSampleId :  
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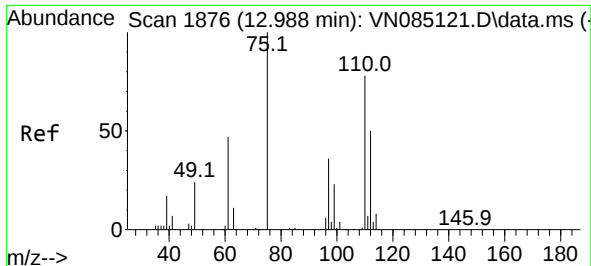
Tgt Ion: 95 Resp: 43131  
Ion Ratio Lower Upper  
95 100  
174 77.6 60.3 90.5  
176 73.5 57.4 86.0



#63  
Toluene-d8  
Concen: 28.710 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

Tgt Ion: 98 Resp: 144249  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.0 78.0

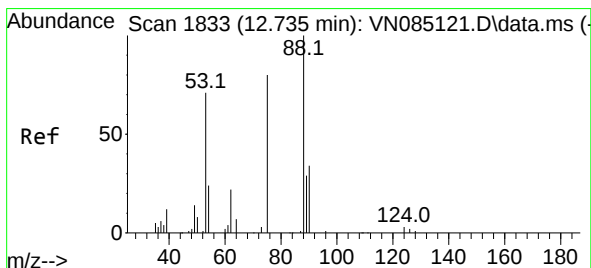
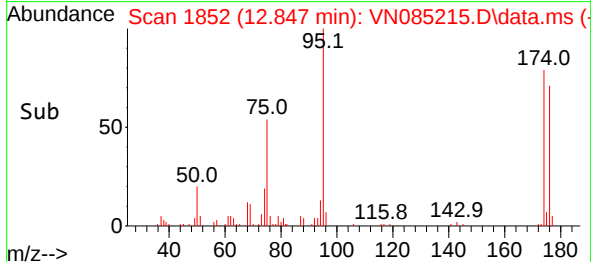
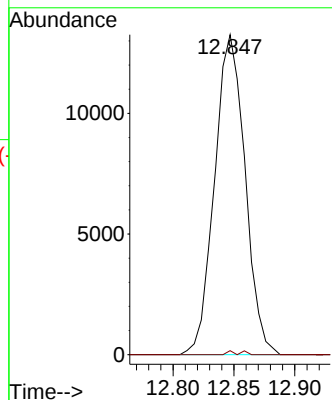
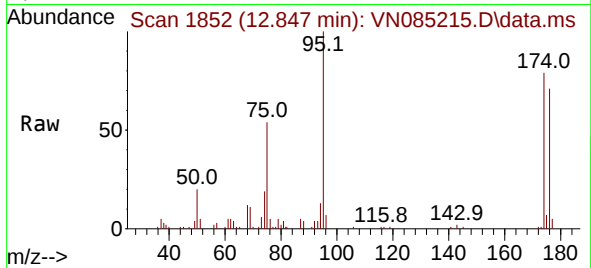




#72  
1,2,3-Trichloropropane  
Concen: 12.433 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

Instrument : MSVOA\_N  
ClientSampleId : TT-RW10A-IDWGW-20241213

Tgt Ion: 75 Resp: 23086  
Ion Ratio Lower Upper  
75 100  
77 0.3 0.0 339.0



#77  
t-1,4-Dichloro-2-butene  
Concen: 34.216 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085215.D  
Acq: 16 Dec 2024 13:33

Tgt Ion: 75 Resp: 23086  
Ion Ratio Lower Upper  
75 100  
53 0.0 49.1 147.3#  
89 0.0 22.9 68.5#

