

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100424\  
 Data File : VN084317.D  
 Acq On : 04 Oct 2024 15:32  
 Operator : JC\MD  
 Sample : P4271-02 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 04 23:00:05 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 06 23:42:47 2024  
 Response via : Initial Calibration

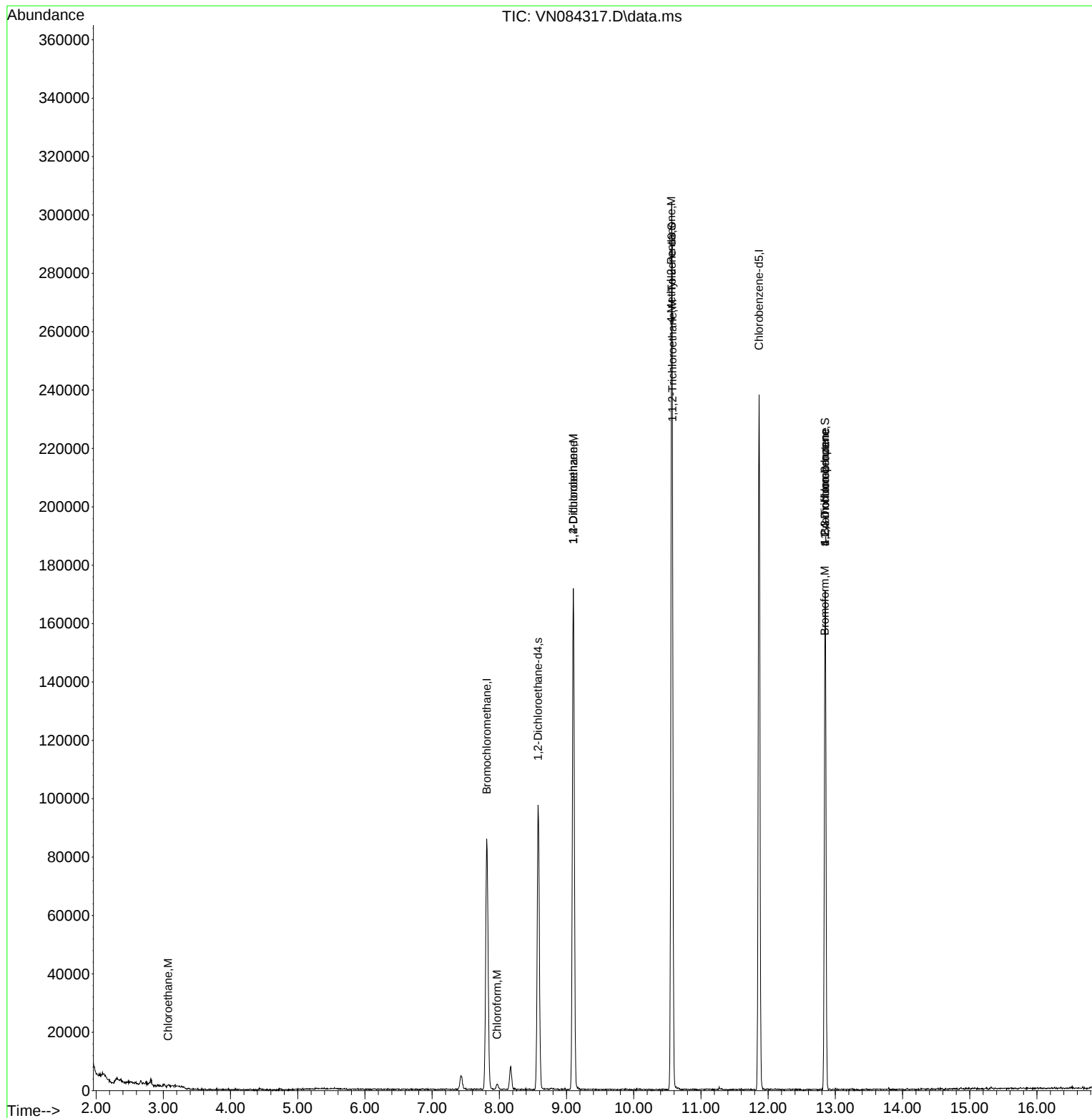
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.812  | 128   | 30281    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 146595   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 135162   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.577  | 65    | 81786    | 29.548   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 98.500%  |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 61083    | 26.222   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 87.400%  |
| 63) Toluene-d8              | 10.565 | 98    | 206711   | 33.029   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 110.100% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 6) Chloroethane             | 3.071  | 64    | 431      | 0.297    | ug/l # | 41       |
| 25) Chloroform              | 7.965  | 83    | 1977     | 0.490    | ug/l   | 94       |
| 36) 1,2-Dichloroethane      | 9.100  | 62    | 5442     | 2.075    | ug/l # | 72       |
| 50) 1,1,2-Trichloroethane   | 10.577 | 97    | 6790     | 4.346    | ug/l # | 1        |
| 56) Bromoform               | 12.841 | 173   | 597      | 0.501    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 10.559 | 43    | 939      | 0.438    | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane  | 12.847 | 75    | 31794    | 15.993   | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75    | 31794    | 37.837   | ug/l # | 12       |
| -----                       |        |       |          |          |        |          |

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

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ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId :

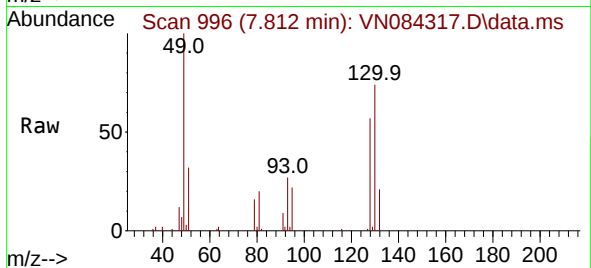
Quant Time: Oct 04 23:00:05 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 06 23:42:47 2024  
Response via : Initial Calibration



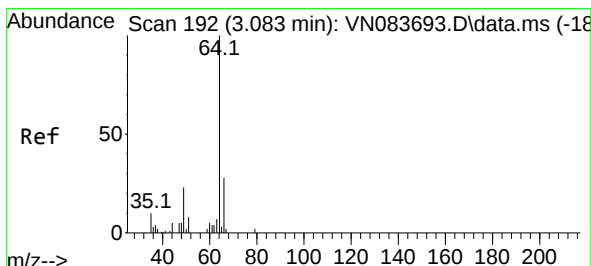
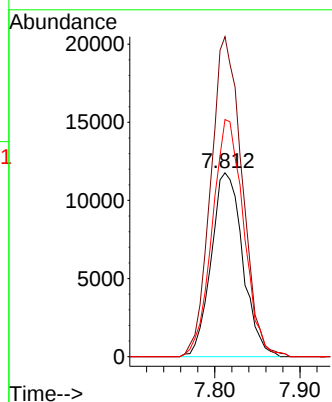
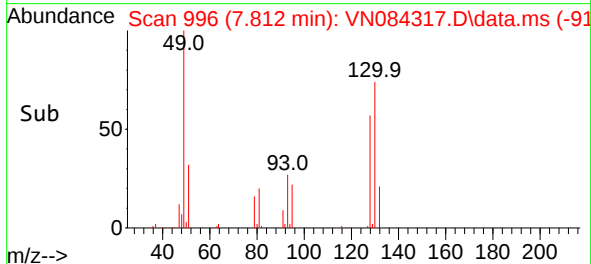


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. 0.000 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Instrument :  
MSVOA\_N  
ClientSampleId :

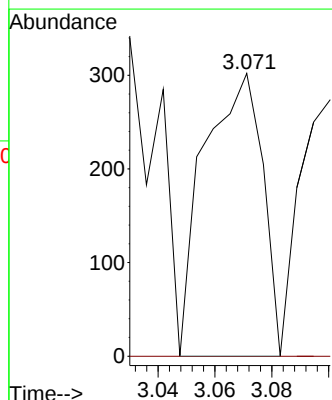
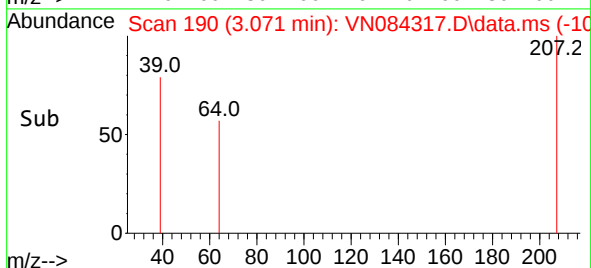
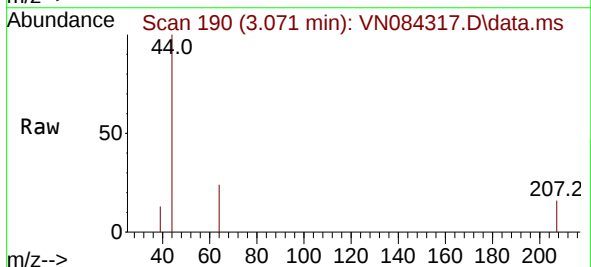


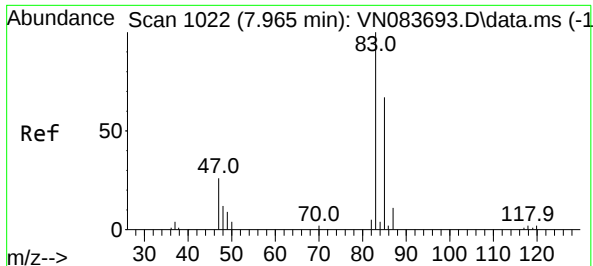
Tgt Ion:128 Resp: 30281  
Ion Ratio Lower Upper  
128 100  
49 172.9 0.0 403.7  
130 128.9 0.0 323.3



#6  
Chloroethane  
Concen: 0.297 ug/l  
RT: 3.071 min Scan# 190  
Delta R.T. -0.012 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Tgt Ion: 64 Resp: 431  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.7 40.1#





#25

Chloroform

Concen: 0.490 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084317.D

Acq: 04 Oct 2024 15:32

Instrument :

MSVOA\_N

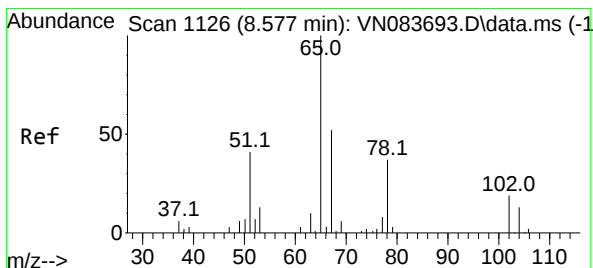
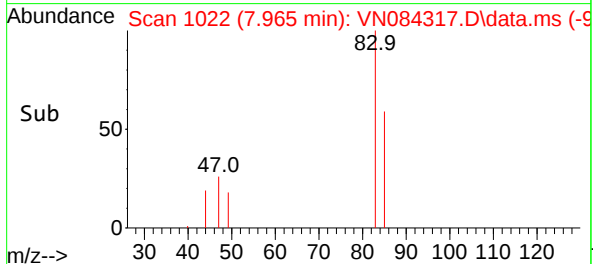
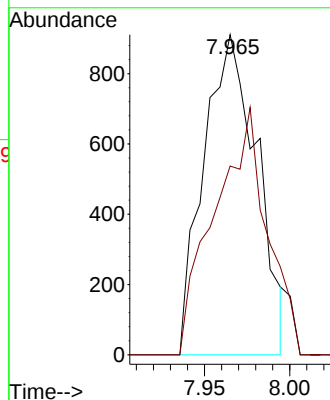
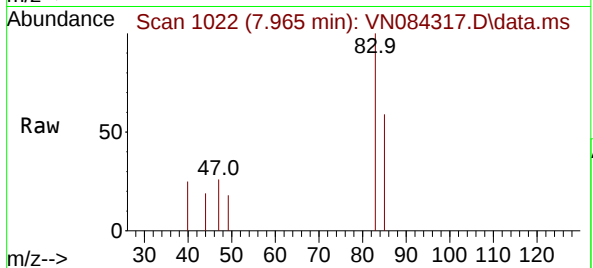
ClientSampleId :

Tgt Ion: 83 Resp: 1977

Ion Ratio Lower Upper

83 100

85 58.9 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 29.548 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084317.D

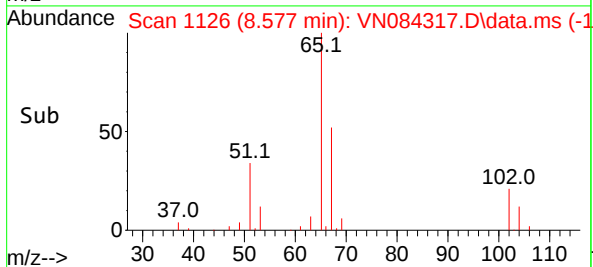
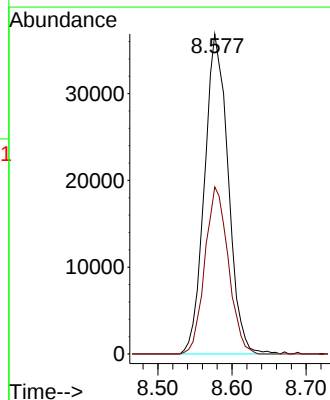
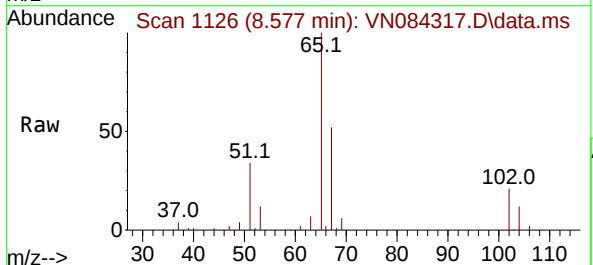
Acq: 04 Oct 2024 15:32

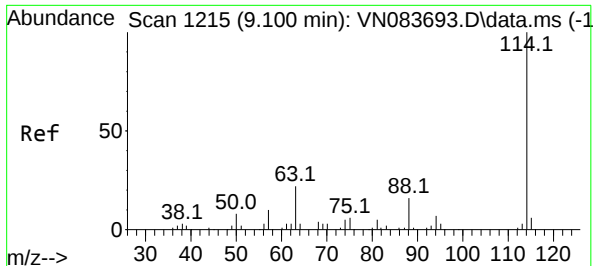
Tgt Ion: 65 Resp: 81786

Ion Ratio Lower Upper

65 100

67 51.7 43.2 64.8

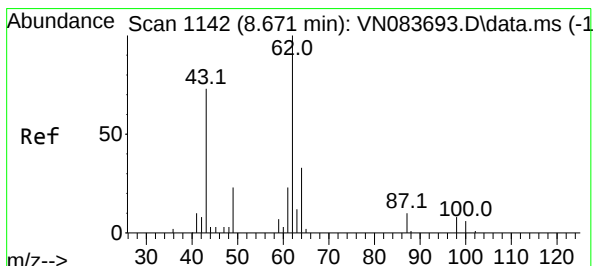
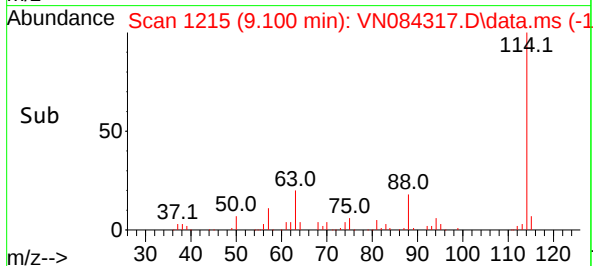
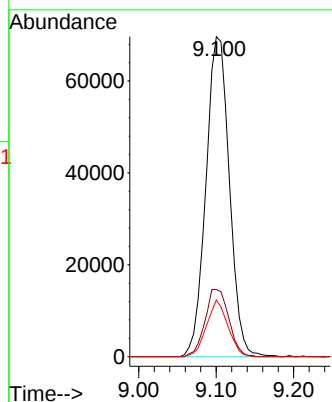
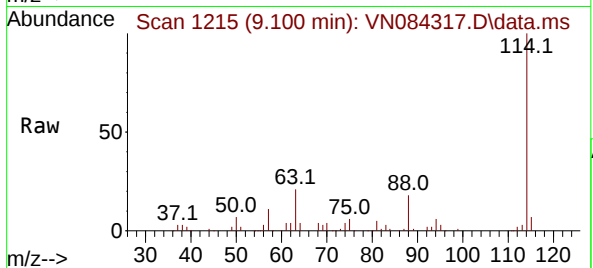




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 114  
Delta R.T. 0.000 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

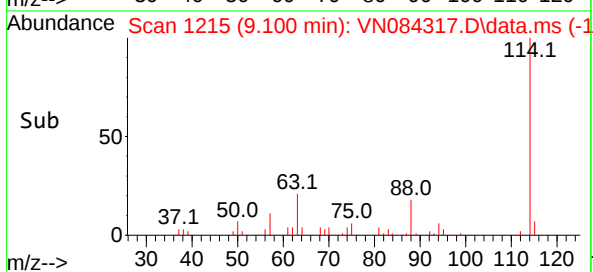
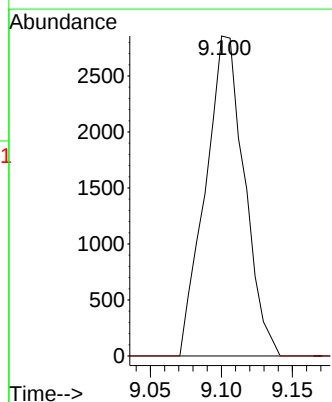
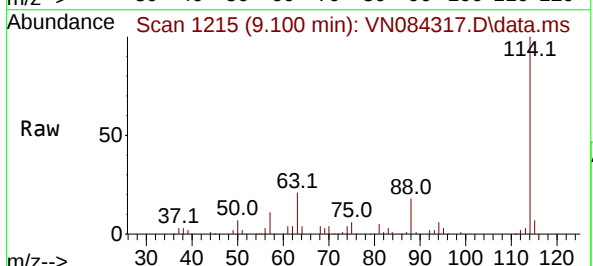
Instrument :  
MSVOA\_N  
ClientSampleId :

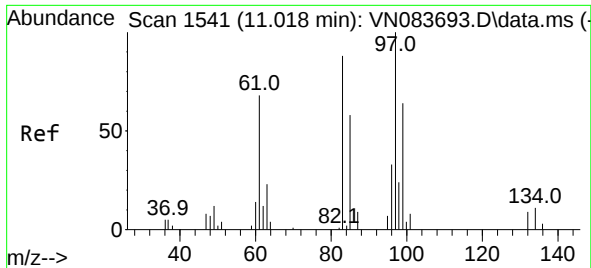
Tgt Ion:114 Resp: 146595  
Ion Ratio Lower Upper  
114 100  
63 21.3 15.9 23.9  
88 16.0 12.7 19.1



#36  
1,2-Dichloroethane  
Concen: 2.075 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. 0.429 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

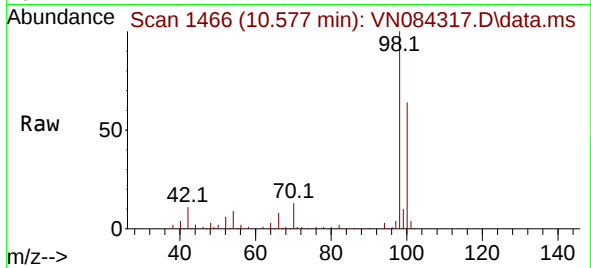
Tgt Ion: 62 Resp: 5442  
Ion Ratio Lower Upper  
62 100  
98 0.0 8.2 12.4#



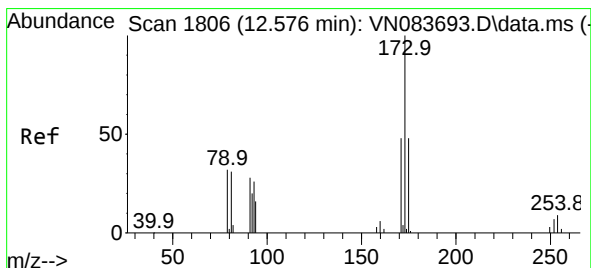
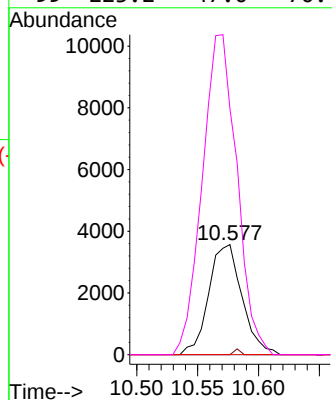
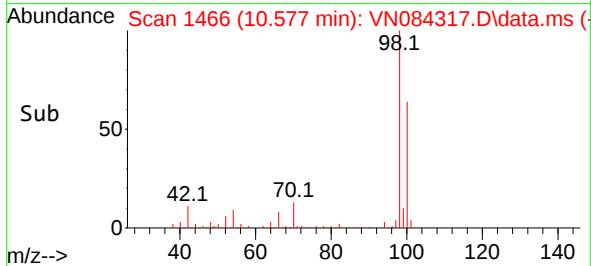


#50  
1,1,2-Trichloroethane  
Concen: 4.346 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. -0.441 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Instrument :  
MSVOA\_N  
ClientSampleId :

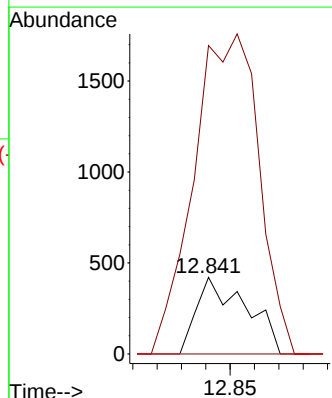
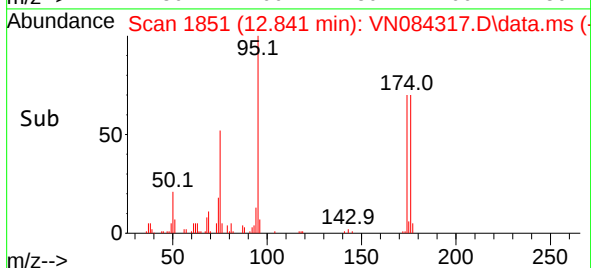
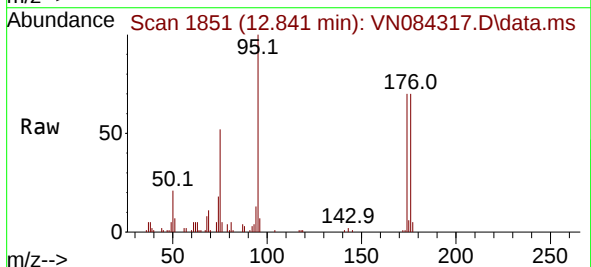


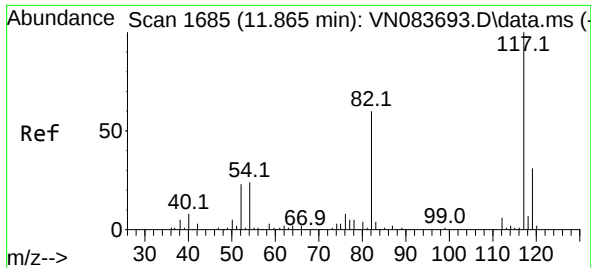
Tgt Ion: 97 Resp: 6790  
Ion Ratio Lower Upper  
97 100  
83 0.0 68.1 102.1#  
85 0.0 41.8 62.6#  
99 223.2 47.0 70.4#



#56  
Bromoform  
Concen: 0.501 ug/l  
RT: 12.841 min Scan# 1851  
Delta R.T. 0.265 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Tgt Ion:173 Resp: 597  
Ion Ratio Lower Upper  
173 100  
175 298.8 40.0 60.0#  
254 0.0 8.3 12.5#

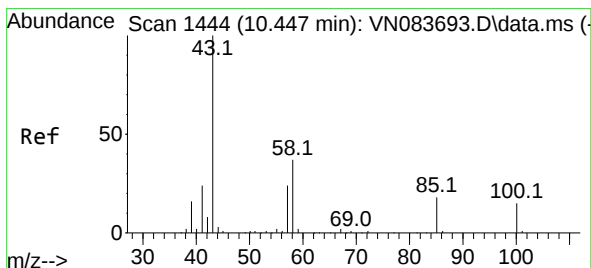
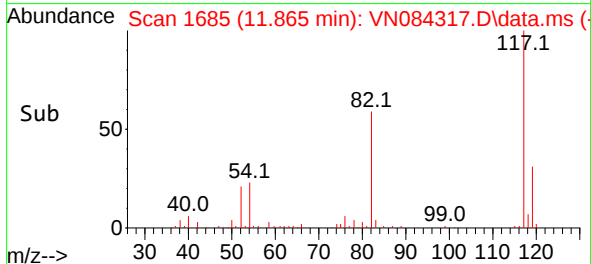
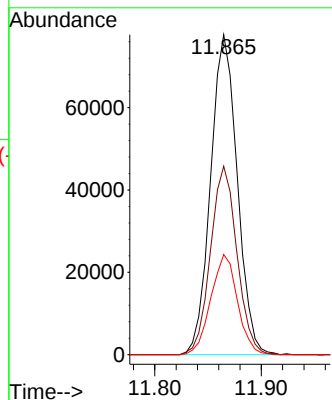
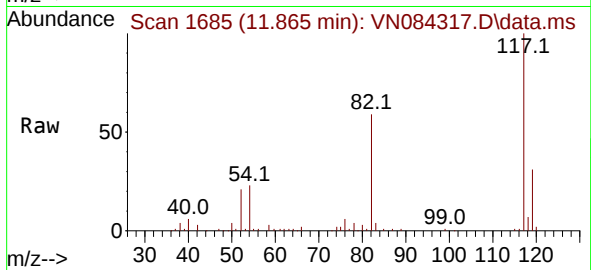




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

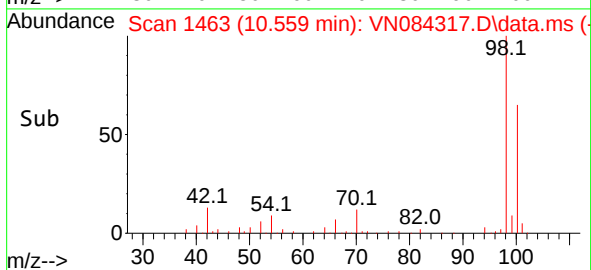
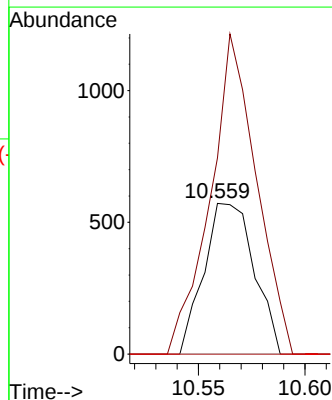
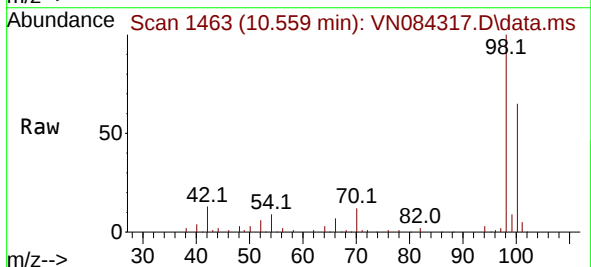
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MSVOA\_N  
ClientSampleId :

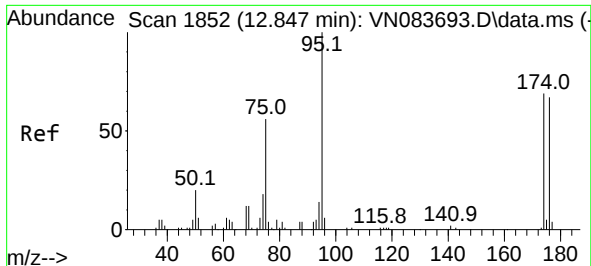
Tgt Ion:117 Resp: 135162  
Ion Ratio Lower Upper  
117 100  
82 58.4 46.6 69.8  
119 31.3 25.4 38.2



#58  
4-Methyl-2-Pentanone  
Concen: 0.438 ug/l  
RT: 10.559 min Scan# 1463  
Delta R.T. 0.112 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Tgt Ion: 43 Resp: 939  
Ion Ratio Lower Upper  
43 100  
58 194.8 36.5 54.7#  
85 0.0 19.5 29.3#

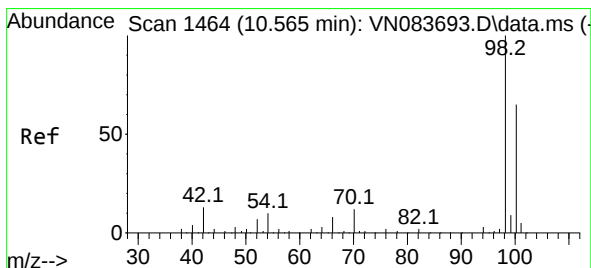
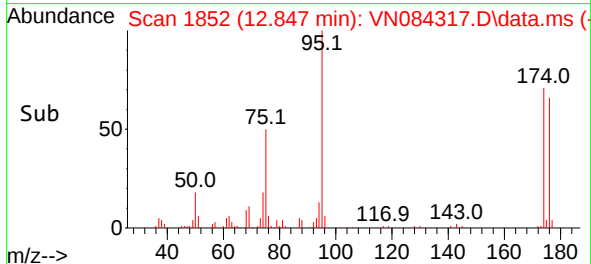
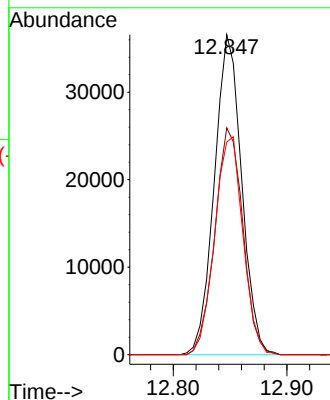
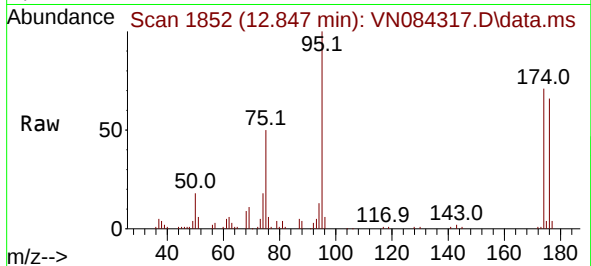




#60  
4-Bromofluorobenzene  
Concen: 26.222 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

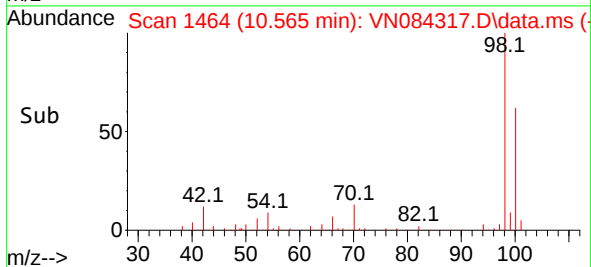
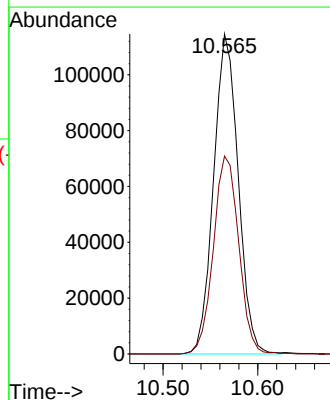
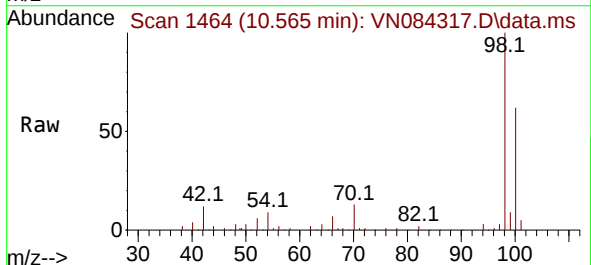
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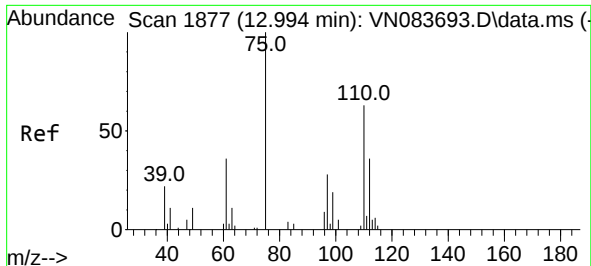
Tgt Ion: 95 Resp: 61083  
Ion Ratio Lower Upper  
95 100  
174 72.6 60.5 90.7  
176 70.6 57.8 86.6



#63  
Toluene-d8  
Concen: 33.029 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Tgt Ion: 98 Resp: 206711  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.7 79.1

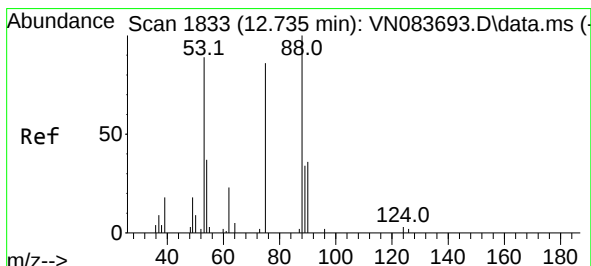
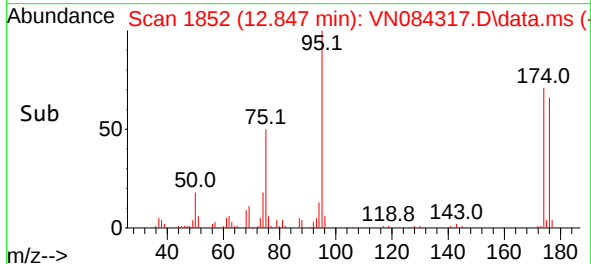
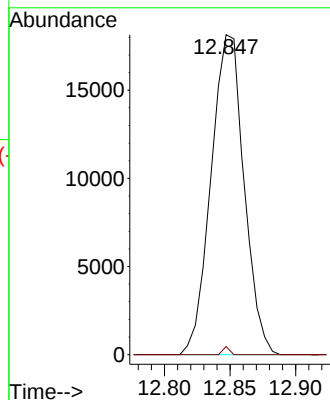
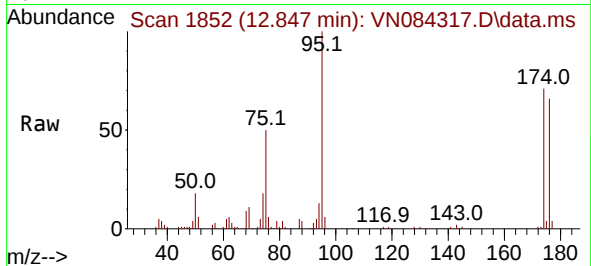




#72  
1,2,3-Trichloropropane  
Concen: 15.993 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 31794  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 367.6



#77  
t-1,4-Dichloro-2-butene  
Concen: 37.837 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084317.D  
Acq: 04 Oct 2024 15:32

Tgt Ion: 75 Resp: 31794  
Ion Ratio Lower Upper  
75 100  
53 0.0 45.9 137.7#  
89 0.0 25.9 77.7#

