

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090723\  
 Data File : VN079184.D  
 Acq On : 07 Sep 2023 19:18  
 Operator : JC\MD  
 Sample : 04302-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 08 05:45:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 08 05:09:17 2023  
 Response via : Initial Calibration

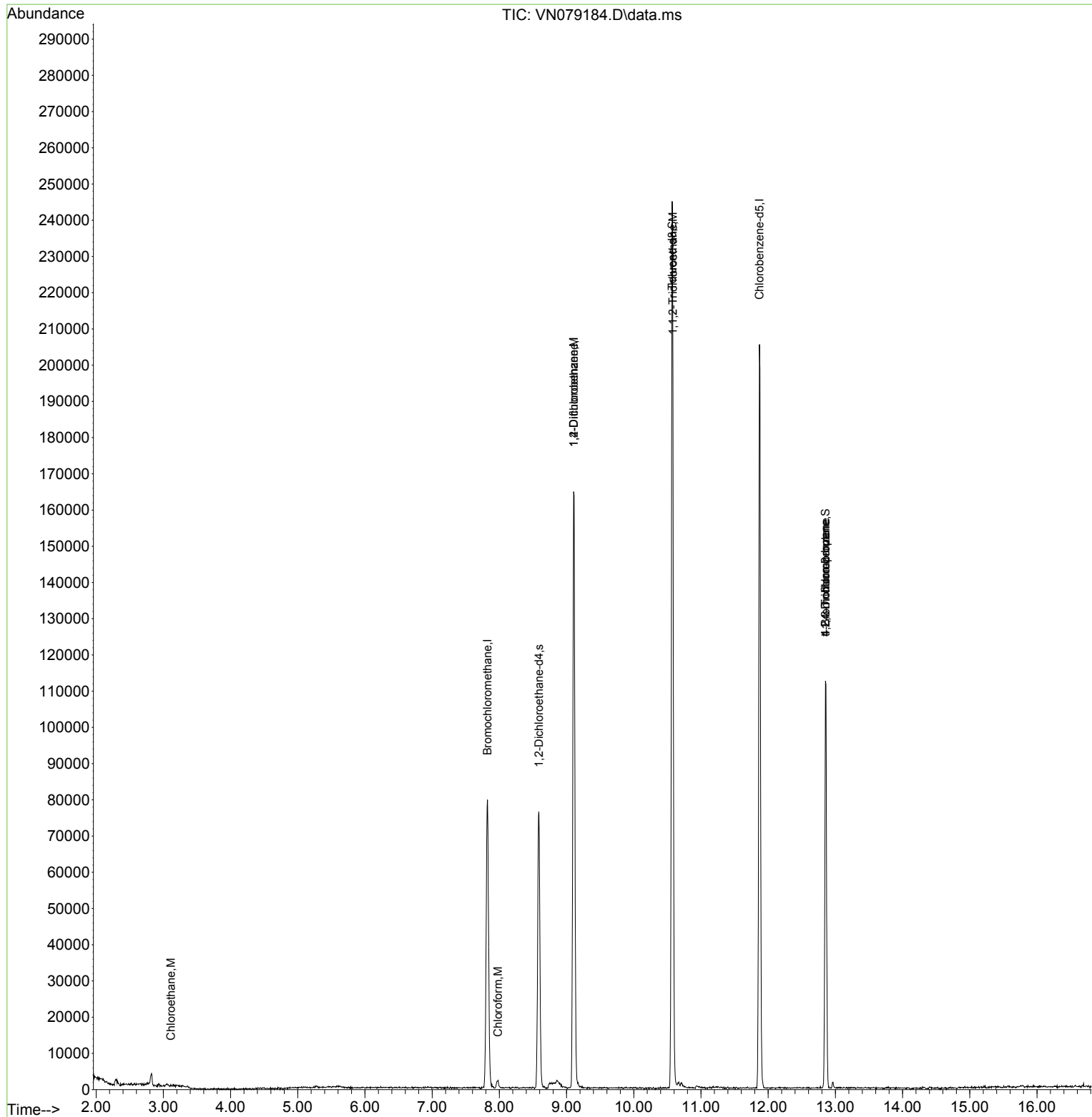
| Compound                    | R.T.   | QIon     | Response | Conc   | Units    | Dev(Min) |
|-----------------------------|--------|----------|----------|--------|----------|----------|
| -----                       |        |          |          |        |          |          |
| Internal Standards          |        |          |          |        |          |          |
| 1) Bromochloromethane       | 7.824  | 128      | 29901    | 30.000 | ug/l     | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.106  | 114      | 151407   | 30.000 | ug/l     | 0.00     |
| 57) Chlorobenzene-d5        | 11.871 | 117      | 126120   | 30.000 | ug/l     | 0.00     |
|                             |        |          |          |        |          |          |
| System Monitoring Compounds |        |          |          |        |          |          |
| 27) 1,2-Dichloroethane-d4   | 8.588  | 65       | 62170    | 27.674 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 110 | Recovery | =      | 92.233%  |          |
| 60) 4-Bromofluorobenzene    | 12.853 | 95       | 42929    | 23.101 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 63 - 112 | Recovery | =      | 77.000%  |          |
| 63) Toluene-d8              | 10.571 | 98       | 178366   | 30.262 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 112 | Recovery | =      | 100.867% |          |
|                             |        |          |          |        |          |          |
| Target Compounds            |        |          |          |        |          |          |
|                             |        |          |          |        | Qvalue   |          |
| 6) Chloroethane             | 3.112  | 64       | 218      | 0.215  | ug/l #   | 50       |
| 25) Chloroform              | 7.977  | 83       | 2234     | 0.627  | ug/l     | 97       |
| 36) 1,2-Dichloroethane      | 9.106  | 62       | 4876     | 1.917  | ug/l #   | 73       |
| 50) 1,1,2-Trichloroethane   | 10.582 | 97       | 5730     | 3.113  | ug/l #   | 1        |
| 72) 1,2,3-Trichloropropane  | 12.853 | 75       | 20834    | 9.706  | ug/l #   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.853 | 75       | 20834    | 27.567 | ug/l #   | 14       |
| -----                       |        |          |          |        |          |          |

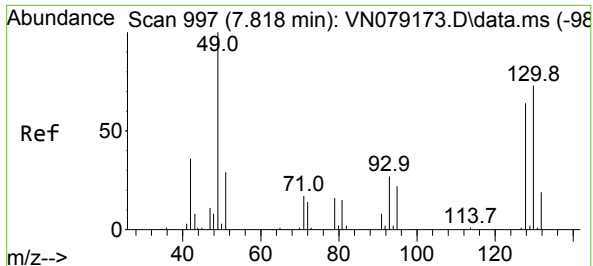
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 08 05:09:17 2023  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.824 min Scan# 997

Delta R.T. 0.006 min

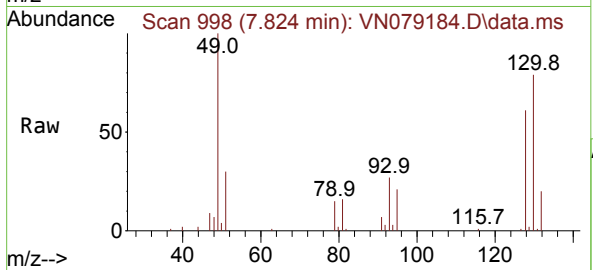
Lab File: VN079184.D

Acq: 07 Sep 2023 19:18

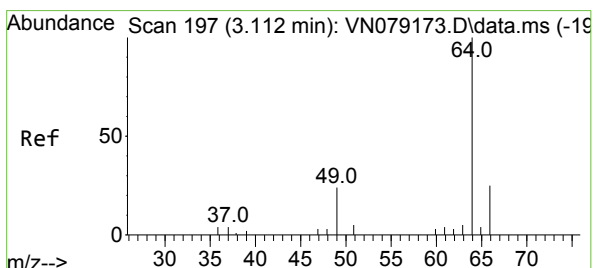
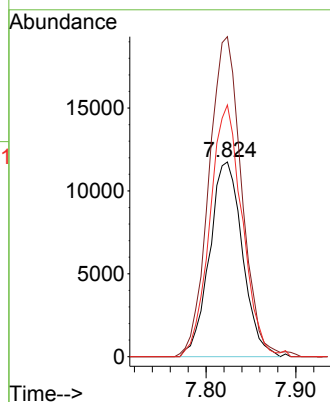
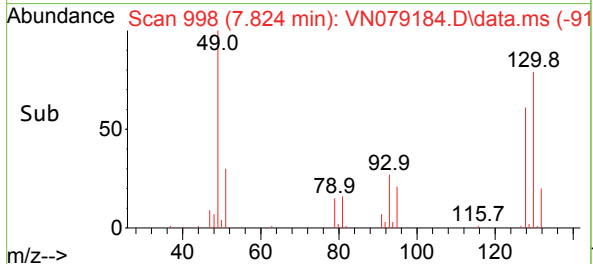
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 29901 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 163.3 | 0.0   | 414.3 |
| 130      | 126.9 | 0.0   | 311.0 |



#6

Chloroethane

Concen: 0.215 ug/l

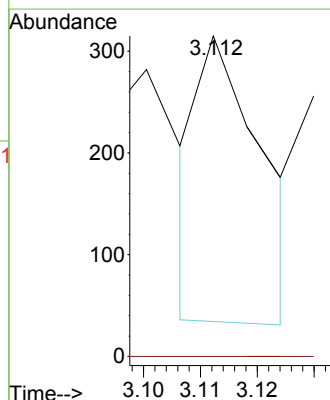
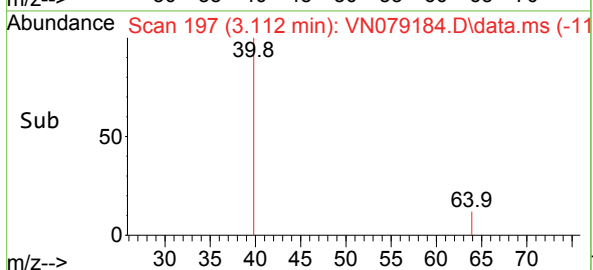
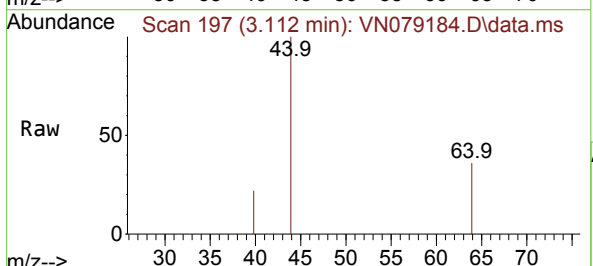
RT: 3.112 min Scan# 197

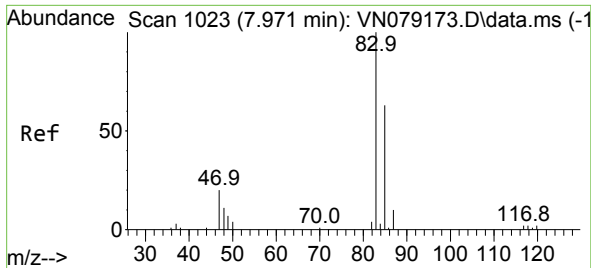
Delta R.T. 0.000 min

Lab File: VN079184.D

Acq: 07 Sep 2023 19:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 64    | Resp: | 218   |
| Ion      | Ratio | Lower | Upper |
| 64       | 100   |       |       |
| 66       | 0.0   | 20.1  | 30.1  |

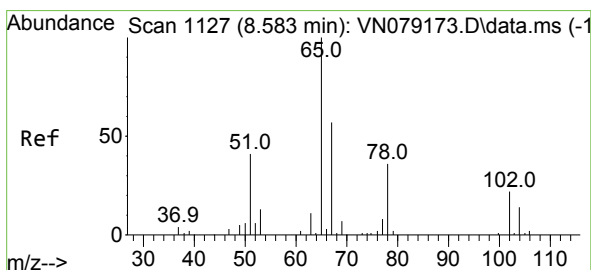
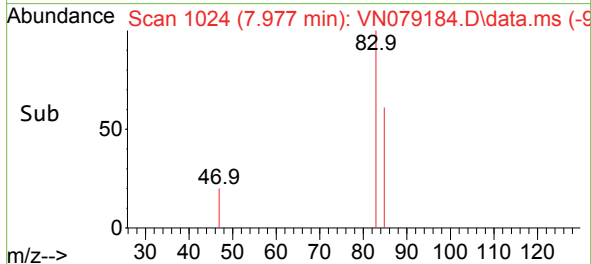
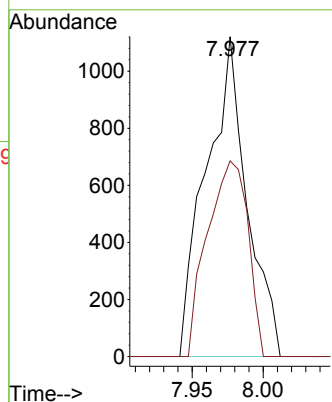
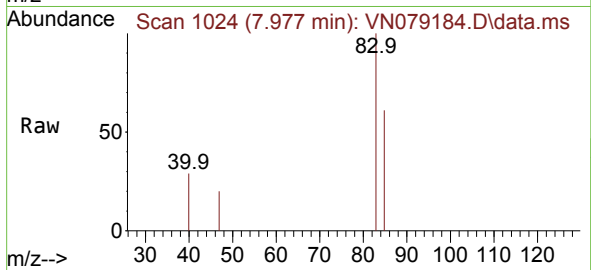




#25  
Chloroform  
Concen: 0.627 ug/l  
RT: 7.977 min Scan# 1023  
Delta R.T. 0.006 min  
Lab File: VN079184.D  
Acq: 07 Sep 2023 19:18

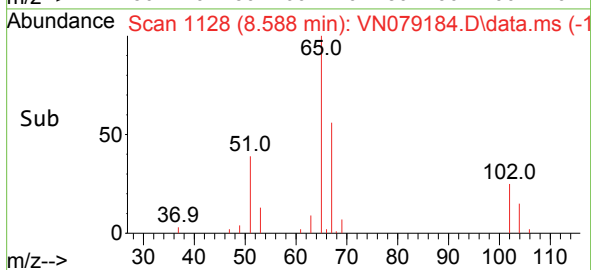
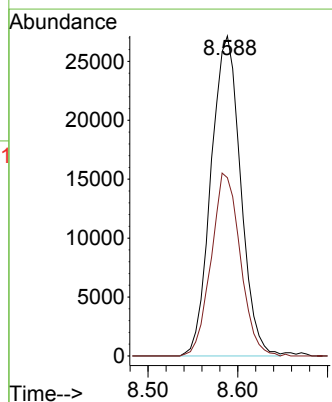
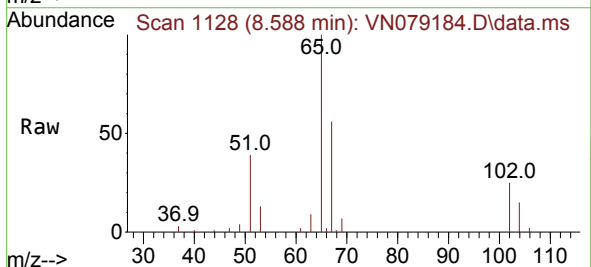
Instrument :  
MSVOA\_N  
ClientSampleId :

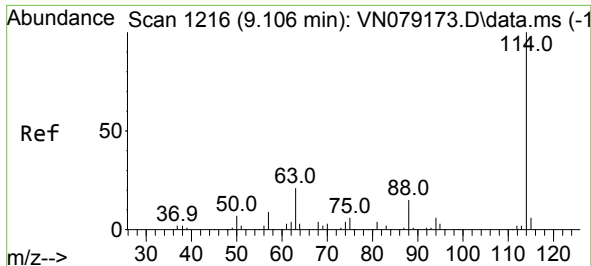
Tgt Ion: 83 Resp: 2234  
Ion Ratio Lower Upper  
83 100  
85 61.2 50.6 76.0



#27  
1,2-Dichloroethane-d4  
Concen: 27.674 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.005 min  
Lab File: VN079184.D  
Acq: 07 Sep 2023 19:18

Tgt Ion: 65 Resp: 62170  
Ion Ratio Lower Upper  
65 100  
67 56.2 44.4 66.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079184.D

Acq: 07 Sep 2023 19:18

Instrument :

MSVOA\_N

ClientSampleId :

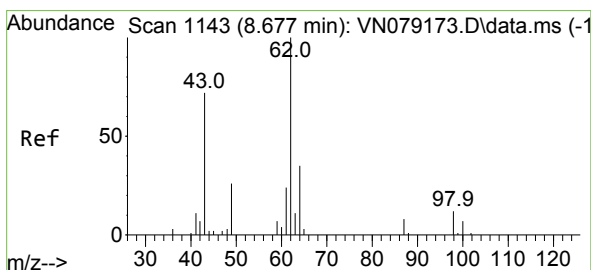
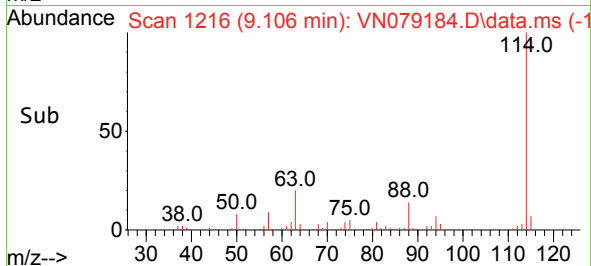
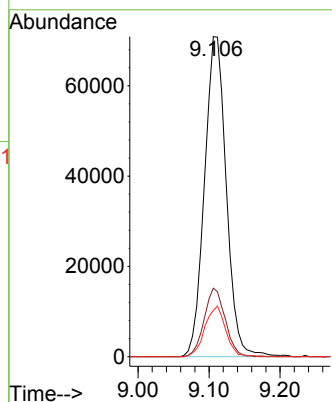
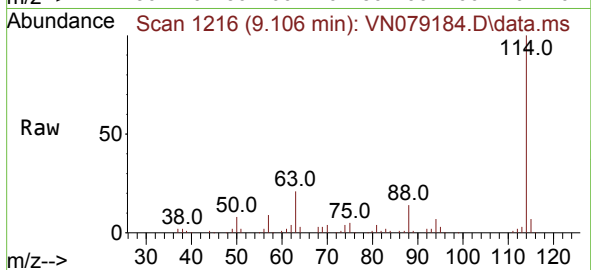
Tgt Ion:114 Resp: 151407

Ion Ratio Lower Upper

114 100

63 20.6 17.0 25.4

88 14.9 12.8 19.2



#36

1,2-Dichloroethane

Concen: 1.917 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.429 min

Lab File: VN079184.D

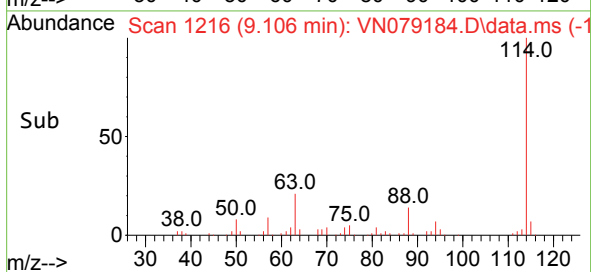
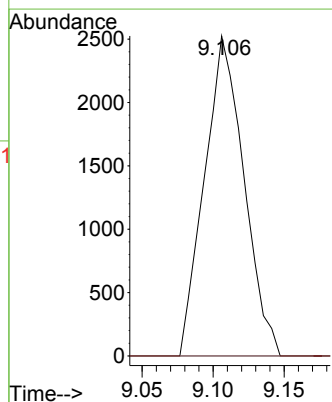
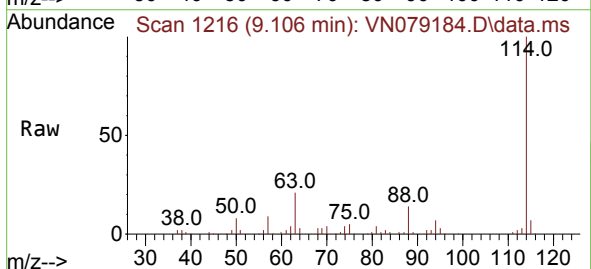
Acq: 07 Sep 2023 19:18

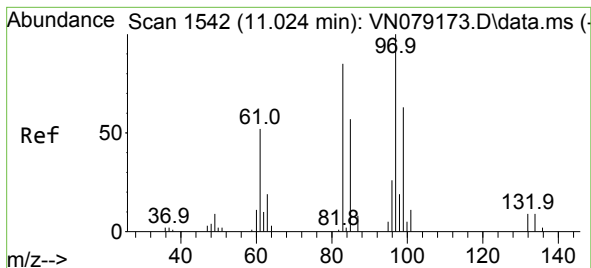
Tgt Ion: 62 Resp: 4876

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#





#50

1,1,2-Trichloroethane

Concen: 3.113 ug/l

RT: 10.582 min Scan# 14

Delta R.T. -0.442 min

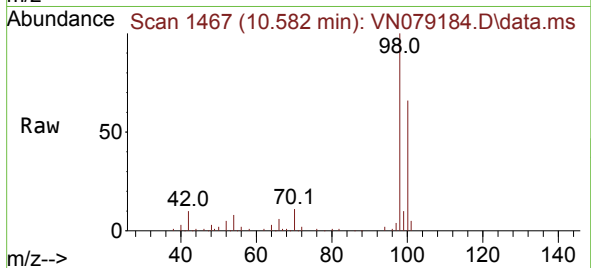
Lab File: VN079184.D

Acq: 07 Sep 2023 19:18

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion: 97 Resp: 5730

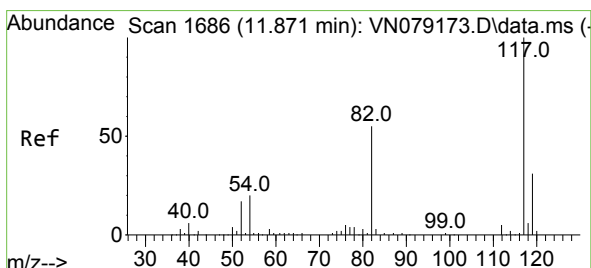
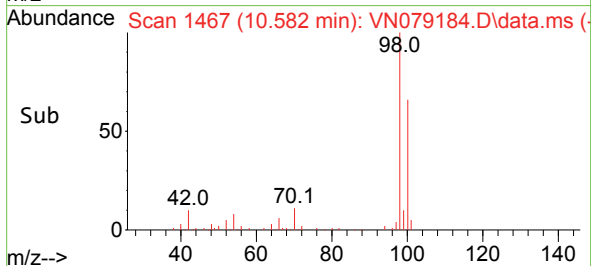
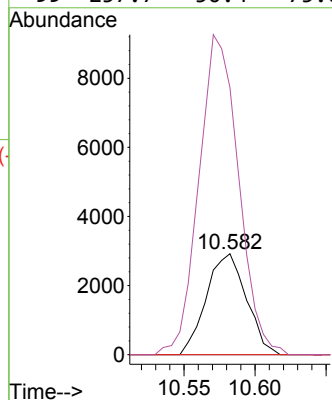
Ion Ratio Lower Upper

97 100

83 0.0 68.9 103.3#

85 0.0 45.3 67.9#

99 257.7 50.4 75.6#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN079184.D

Acq: 07 Sep 2023 19:18

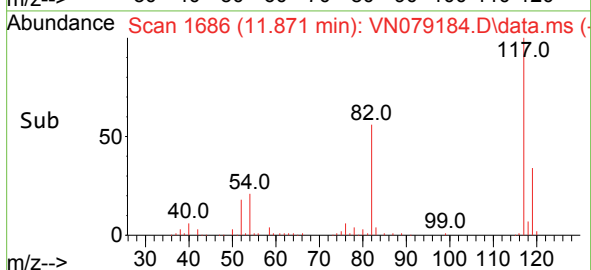
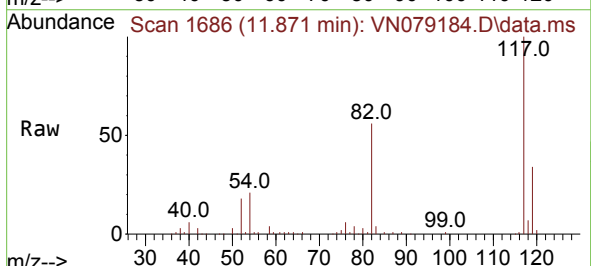
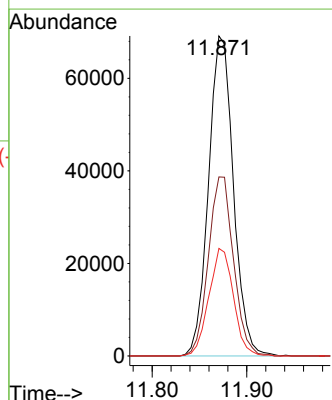
Tgt Ion: 117 Resp: 126120

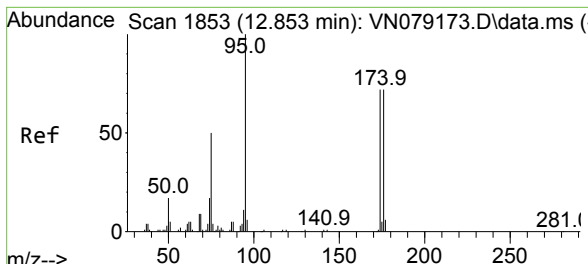
Ion Ratio Lower Upper

117 100

82 56.6 44.7 67.1

119 33.2 24.9 37.3

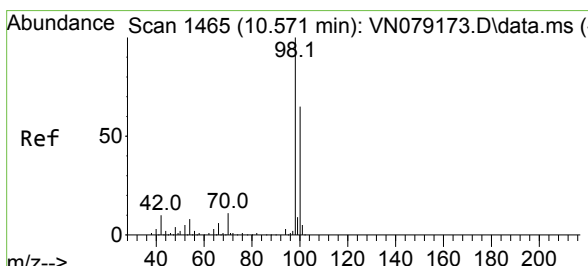
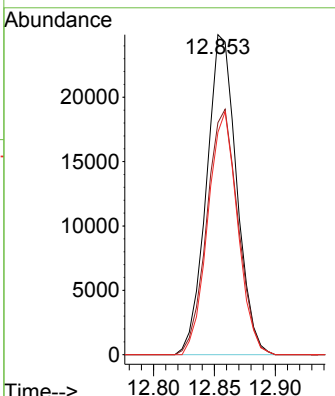
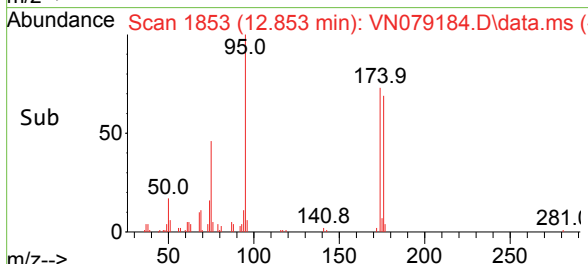
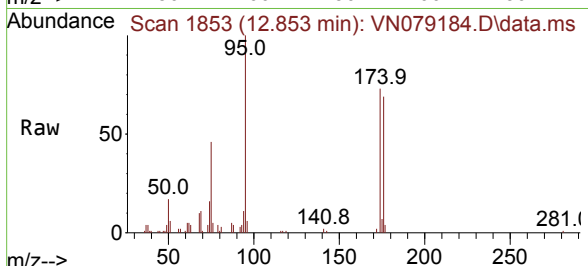




#60  
 4-Bromofluorobenzene  
 Concen: 23.101 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VN079184.D  
 Acq: 07 Sep 2023 19:18

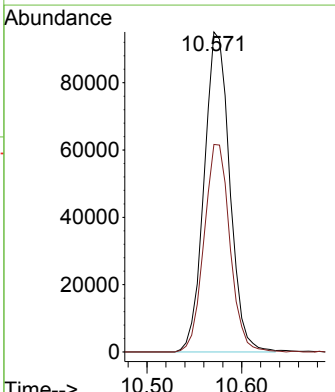
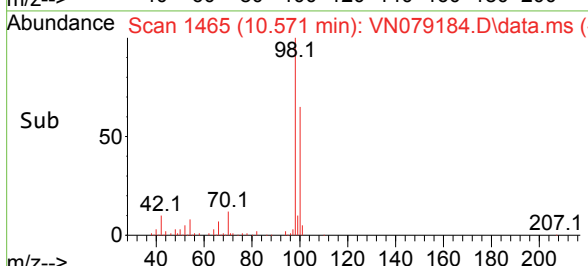
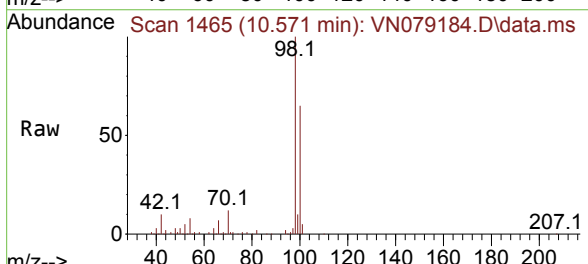
Instrument :  
 MSVOA\_N  
 ClientSampleId :

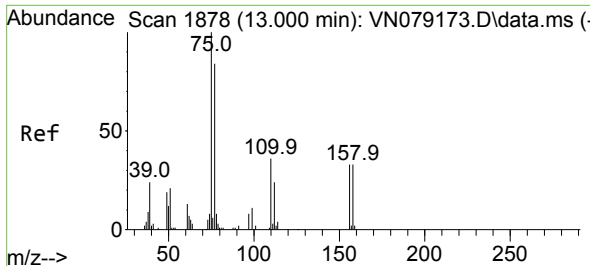
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 42929 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 79.2  | 59.5  | 89.3  |
| 176      | 74.6  | 59.1  | 88.7  |



#63  
 Toluene-d8  
 Concen: 30.262 ug/l  
 RT: 10.571 min Scan# 1465  
 Delta R.T. -0.000 min  
 Lab File: VN079184.D  
 Acq: 07 Sep 2023 19:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 178366 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 65.6  | 52.5  | 78.7   |

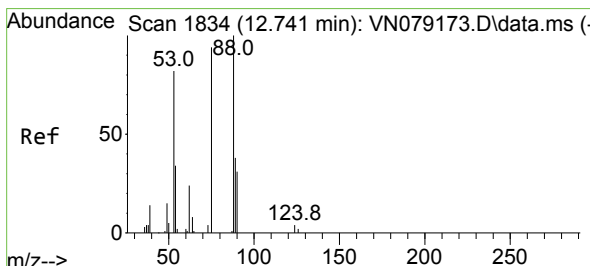
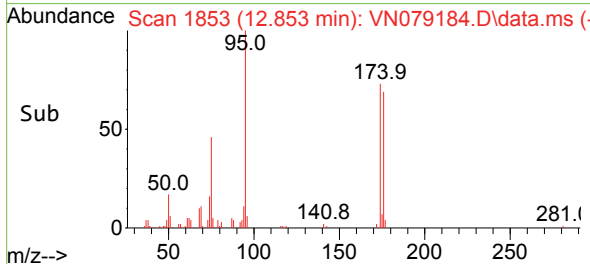
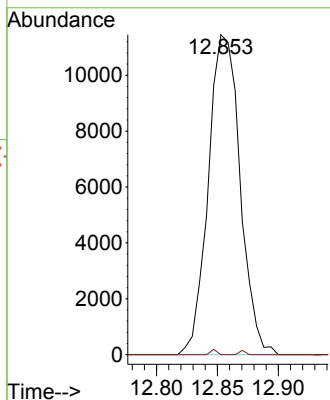
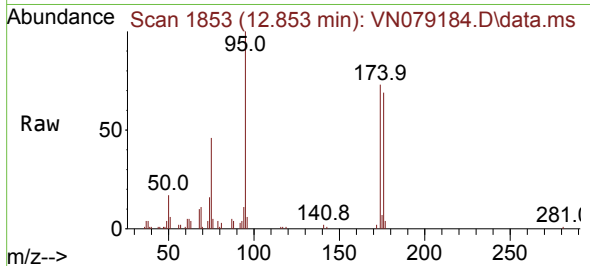




#72  
1,2,3-Trichloropropane  
Concen: 9.706 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN079184.D  
Acq: 07 Sep 2023 19:18

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 20834  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 252.2



#77  
t-1,4-Dichloro-2-butene  
Concen: 27.567 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN079184.D  
Acq: 07 Sep 2023 19:18

Tgt Ion: 75 Resp: 20834  
Ion Ratio Lower Upper  
75 100  
53 0.0 44.1 132.4#  
89 0.0 22.4 67.3#

