

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091523\  
 Data File : VN079282.D  
 Acq On : 15 Sep 2023 19:19  
 Operator : JC\MD  
 Sample : 04414-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 16 01:58:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 2023  
 Response via : Initial Calibration

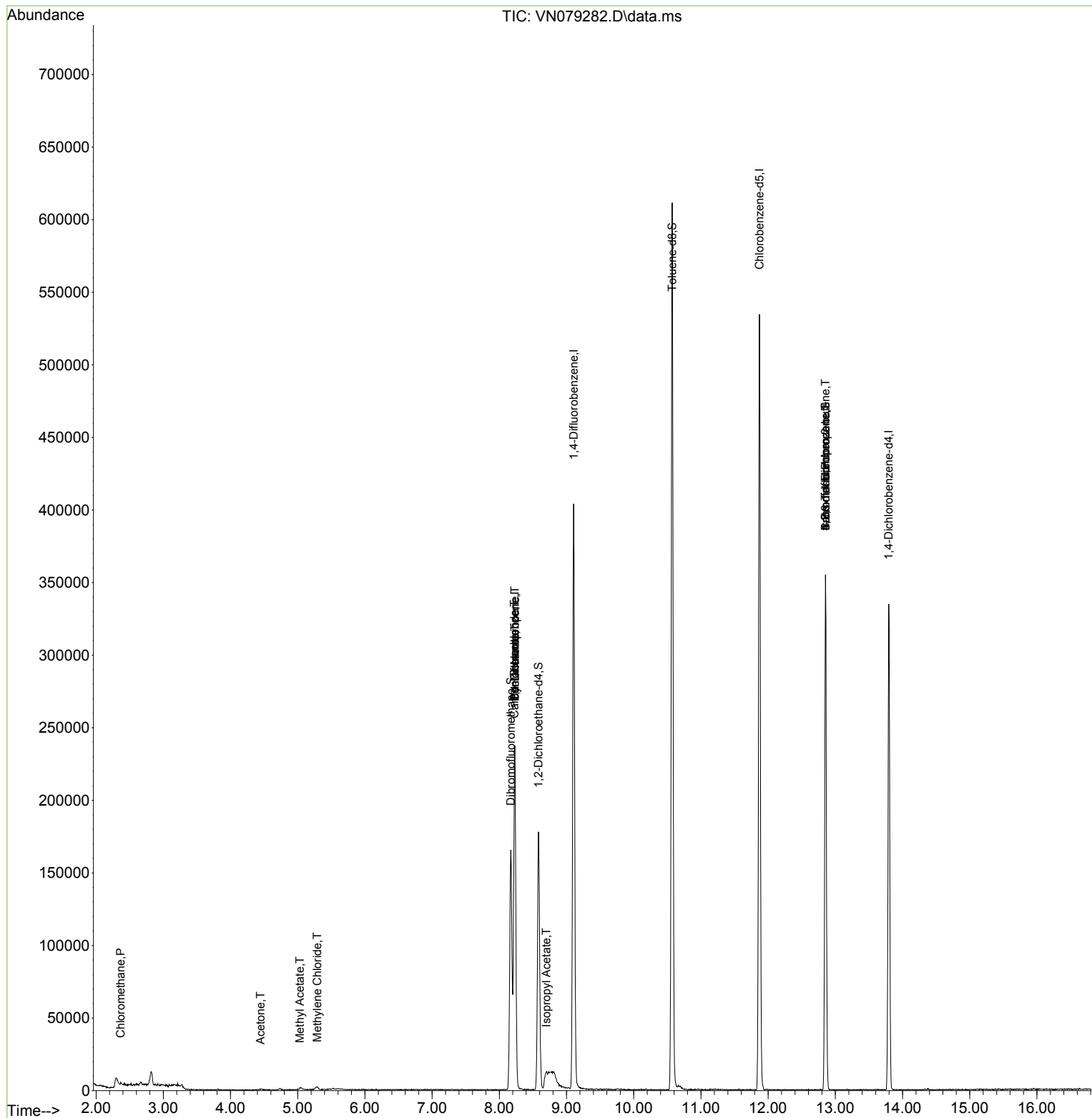
| Compound                      | R.T. QIon |       | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-------------|----------|
| -----                         |           |       |          |           |             |          |
| Internal Standards            |           |       |          |           |             |          |
| 1) Pentafluorobenzene         | 8.230     | 168   | 166174   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106     | 114   | 333111   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.871    | 117   | 305467   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794    | 152   | 86107    | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |           |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.583     | 65    | 142175   | 63.381    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery  | = 126.760%# |          |
| 35) Dibromofluoromethane      | 8.171     | 113   | 117101   | 52.848    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | = 105.700%  |          |
| 50) Toluene-d8                | 10.571    | 98    | 413415   | 50.813    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery  | = 101.620%  |          |
| 62) 4-Bromofluorobenzene      | 12.853    | 95    | 117347   | 45.216    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | = 90.440%   |          |
| Target Compounds              |           |       |          |           |             |          |
|                               |           |       |          |           | Qvalue      |          |
| 3) Chloromethane              | 2.365     | 50    | 770      | 0.357     | ug/l #      | 67       |
| 6) Chloroethane               | 3.118     | 64    | 128      | Below Cal | #           | 43       |
| 16) Acetone                   | 4.448     | 43    | 1102     | 1.157     | ug/l #      | 40       |
| 18) Methyl Acetate            | 5.030     | 43    | 1667     | 0.426     | ug/l #      | 85       |
| 20) Methylene Chloride        | 5.289     | 84    | 1299     | 0.560     | ug/l #      | 70       |
| 31) Cyclohexane               | 8.230     | 56    | 4162     | 1.271     | ug/l #      | 37       |
| 36) 1,1-Dichloropropene       | 8.230     | 75    | 15197    | 4.450     | ug/l #      | 48       |
| 38) Carbon Tetrachloride      | 8.224     | 117   | 18384    | 5.201     | ug/l #      | 16       |
| 43) Isopropyl Acetate         | 8.700     | 43    | 11112    | 1.999     | ug/l #      | 51       |
| 71) Bromoform                 | 12.853    | 173   | 1104     | 0.576     | ug/l #      | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853    | 75    | 64390    | 27.746    | ug/l #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853    | 75    | 64390    | 76.280    | ug/l #      | 15       |
| -----                         |           |       |          |           |             |          |

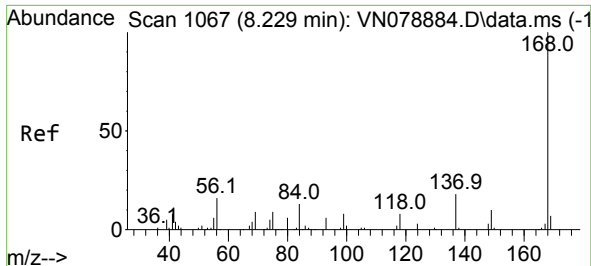
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091523\  
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Sample : 04414-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Sep 16 01:58:07 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 12 05:05:24 2023  
Response via : Initial Calibration

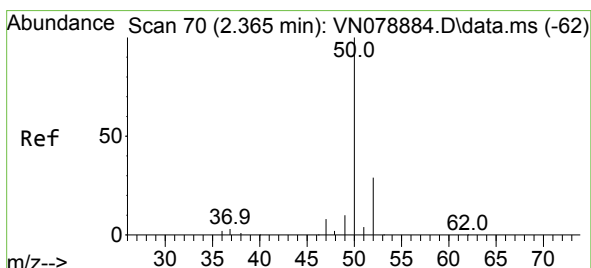
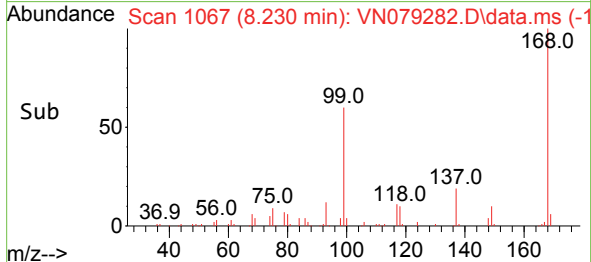
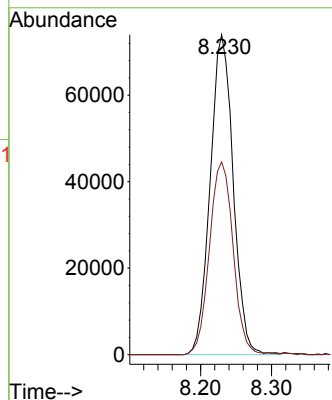
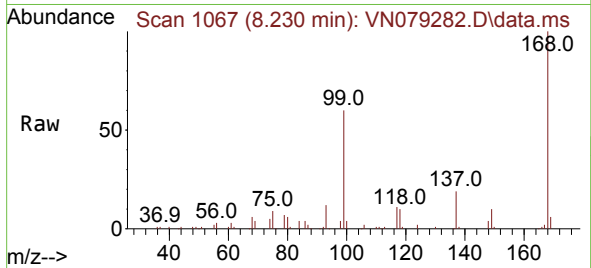




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

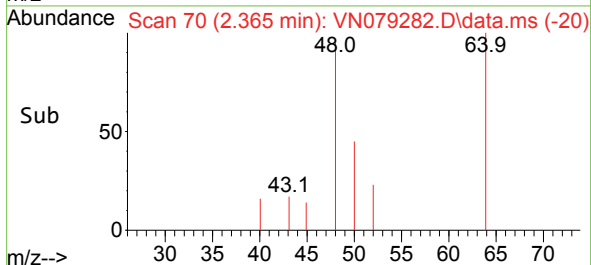
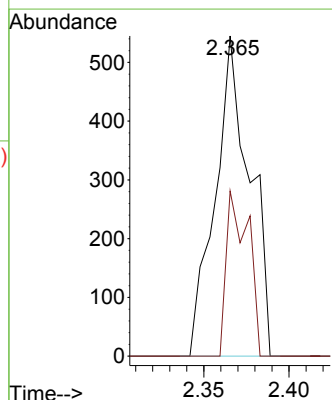
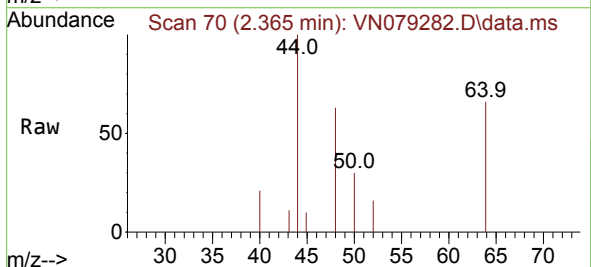
Instrument :  
MSVOA\_N  
ClientSampleId :

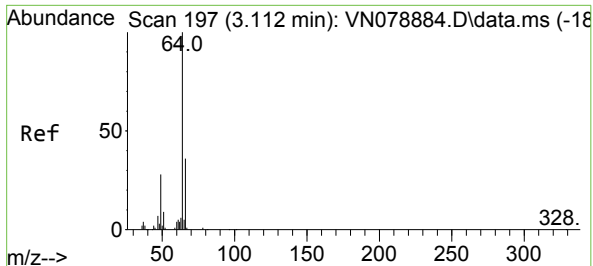
Tgt Ion:168 Resp: 166174  
Ion Ratio Lower Upper  
168 100  
99 60.2 53.0 79.6



#3  
Chloromethane  
Concen: 0.357 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. -0.006 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Tgt Ion: 50 Resp: 770  
Ion Ratio Lower Upper  
50 100  
52 51.6 26.5 39.7#

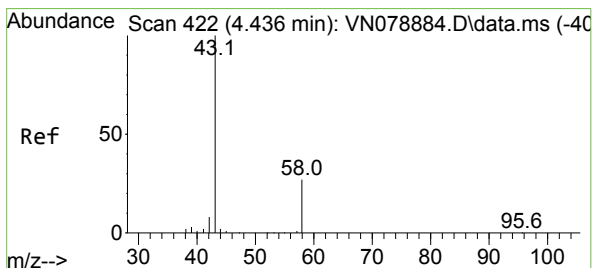
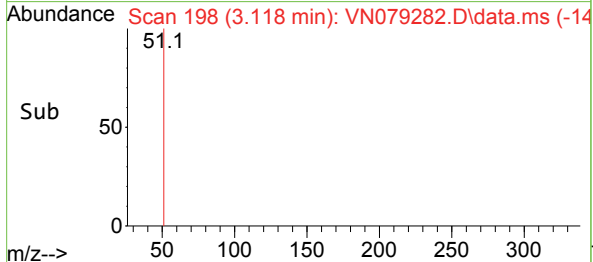
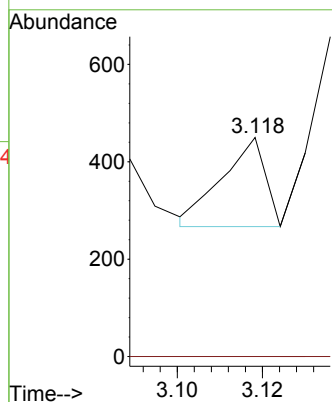
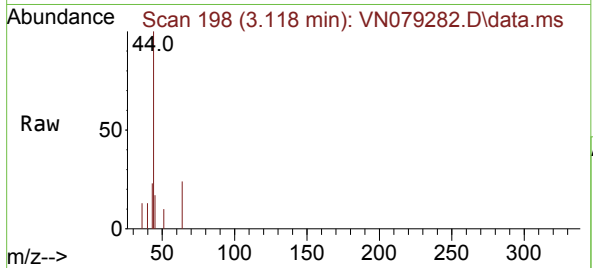




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.118 min Scan# 197  
Delta R.T. 0.000 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

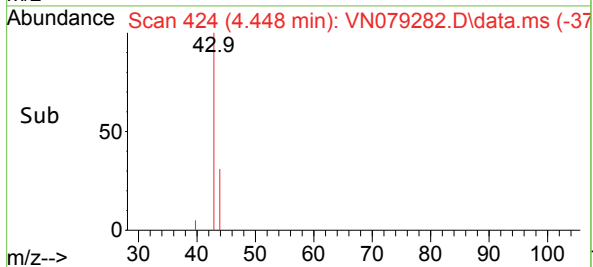
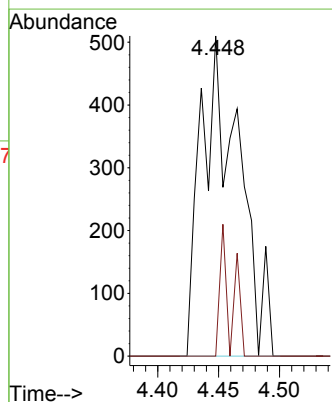
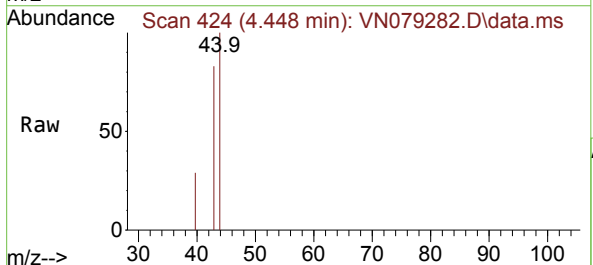
Instrument :  
MSVOA\_N  
ClientSampleId :

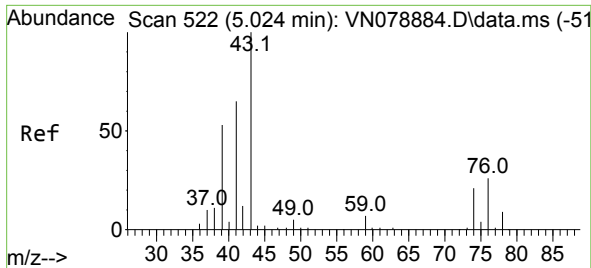
Tgt Ion: 64 Resp: 128  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



#16  
Acetone  
Concen: 1.157 ug/l  
RT: 4.448 min Scan# 424  
Delta R.T. 0.006 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Tgt Ion: 43 Resp: 1102  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#

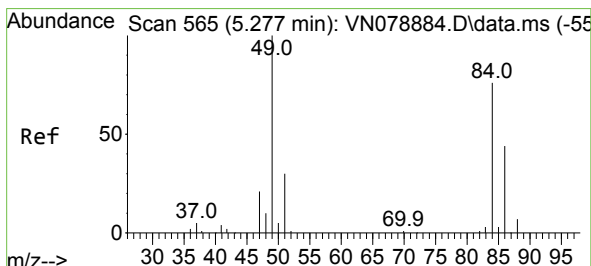
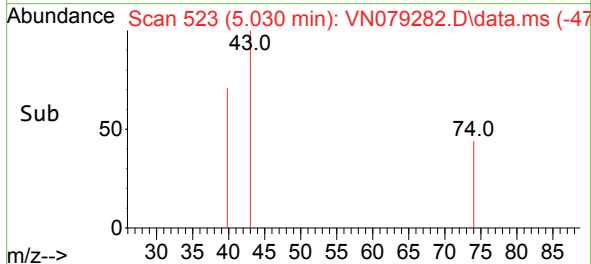
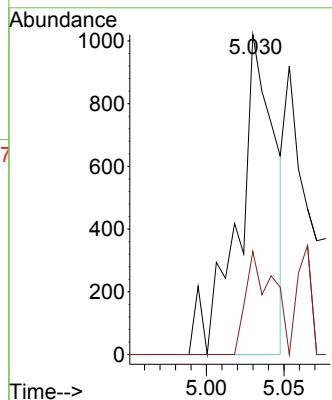
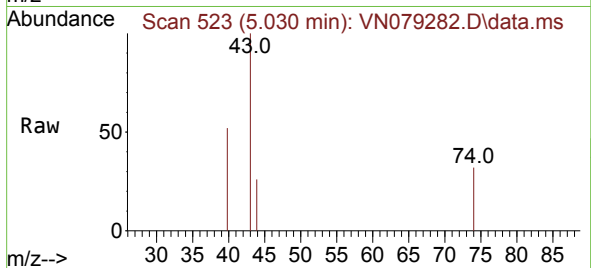




#18  
Methyl Acetate  
Concen: 0.426 ug/l  
RT: 5.030 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

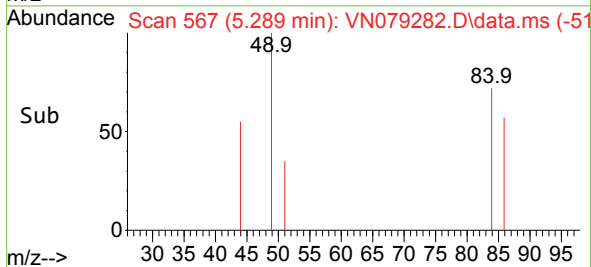
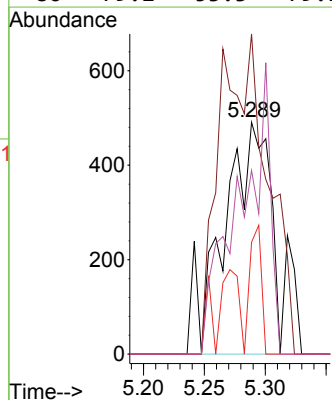
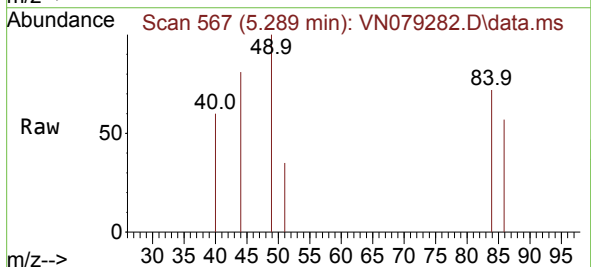
Instrument :  
MSVOA\_N  
ClientSampleId :

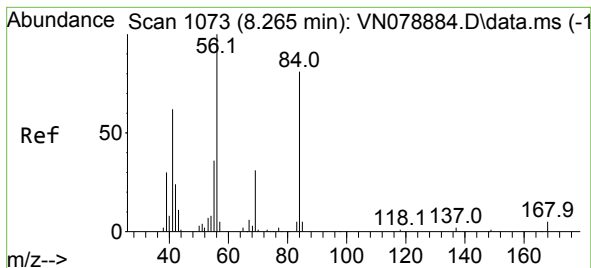
Tgt Ion: 43 Resp: 1667  
Ion Ratio Lower Upper  
43 100  
74 24.2 26.2 39.4#



#20  
Methylene Chloride  
Concen: 0.560 ug/l  
RT: 5.289 min Scan# 567  
Delta R.T. 0.006 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Tgt Ion: 84 Resp: 1299  
Ion Ratio Lower Upper  
84 100  
49 138.1 79.7 119.5#  
51 48.3 25.2 37.8#  
86 79.2 53.3 79.9





#31

Cyclohexane

Concen: 1.271 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

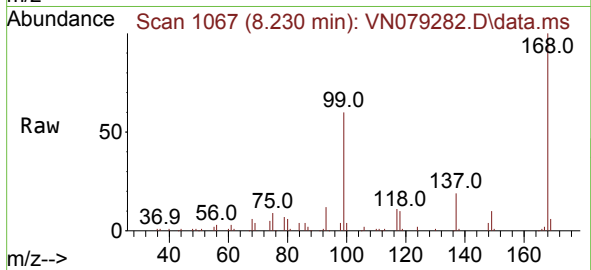
Lab File: VN079282.D

Acq: 15 Sep 2023 19:19

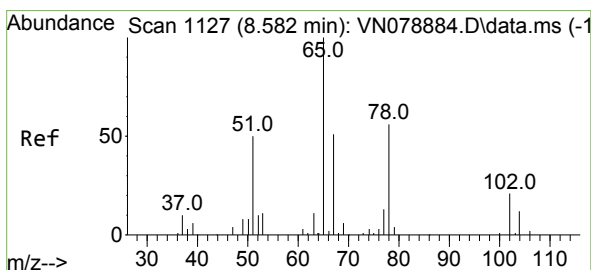
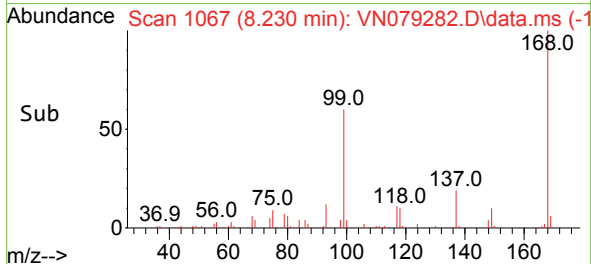
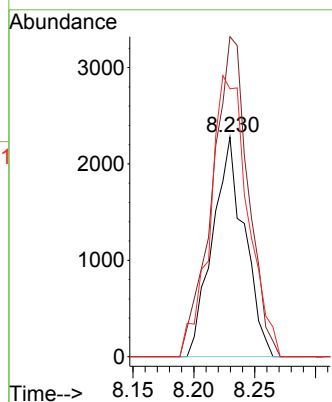
Instrument :

MSVOA\_N

ClientSampleId :



|             |                  |
|-------------|------------------|
| Tgt Ion: 56 | Resp: 4162       |
| Ion Ratio   | Lower Upper      |
| 56          | 100              |
| 69          | 145.8 26.8 40.2# |
| 84          | 122.0 81.8 122.6 |



#33

1,2-Dichloroethane-d4

Concen: 63.381 ug/l

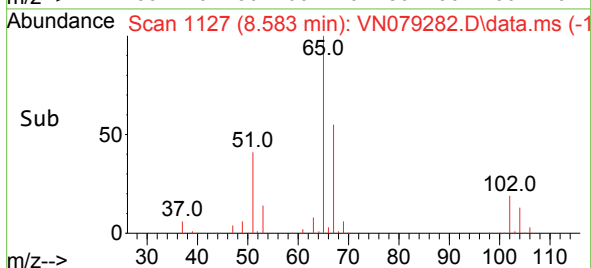
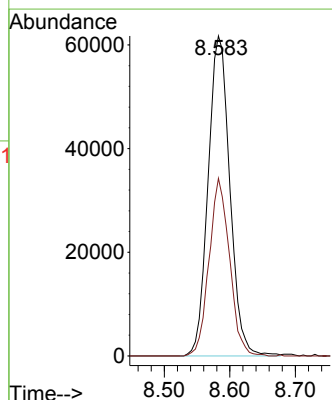
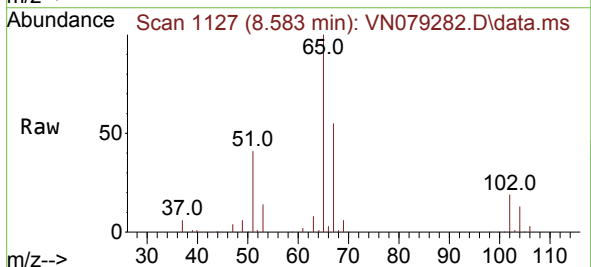
RT: 8.583 min Scan# 1127

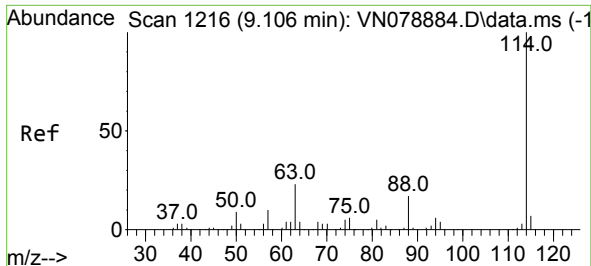
Delta R.T. -0.000 min

Lab File: VN079282.D

Acq: 15 Sep 2023 19:19

|             |                |
|-------------|----------------|
| Tgt Ion: 65 | Resp: 142175   |
| Ion Ratio   | Lower Upper    |
| 65          | 100            |
| 67          | 52.2 0.0 106.6 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079282.D

Acq: 15 Sep 2023 19:19

Instrument :

MSVOA\_N

ClientSampleId :

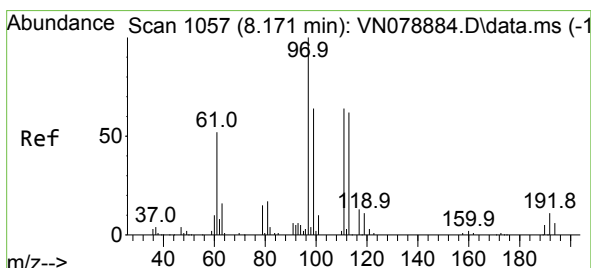
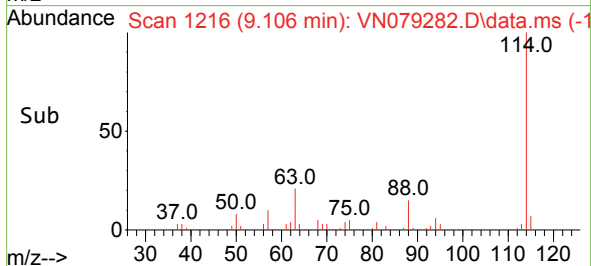
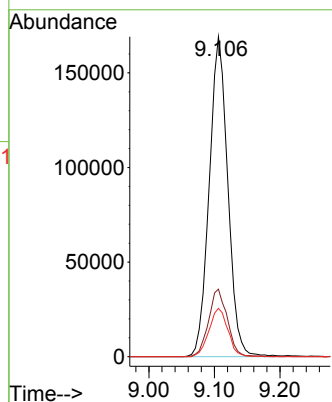
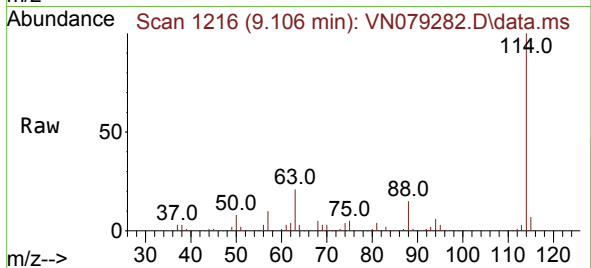
Tgt Ion:114 Resp: 333111

Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.848 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079282.D

Acq: 15 Sep 2023 19:19

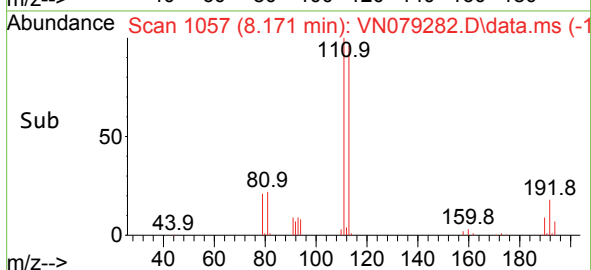
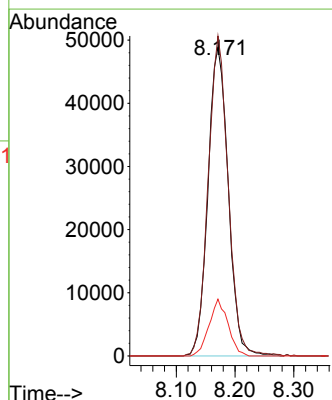
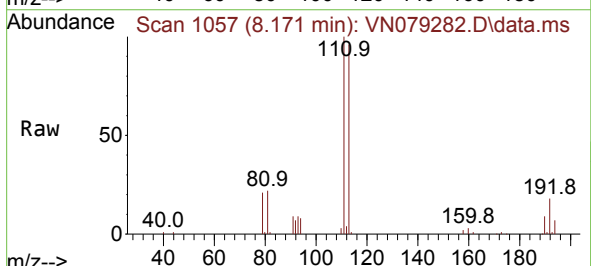
Tgt Ion:113 Resp: 117101

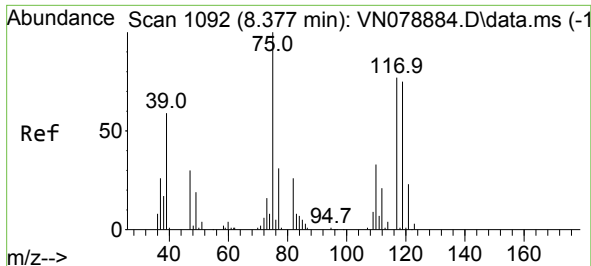
Ion Ratio Lower Upper

113 100

111 102.0 82.6 123.8

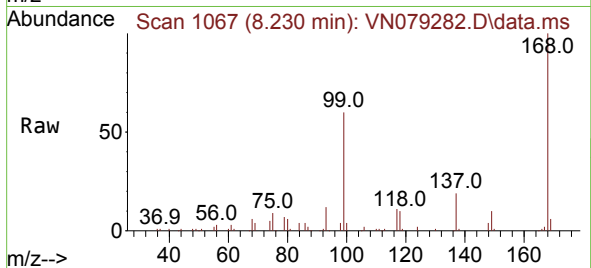
192 17.1 12.7 19.1



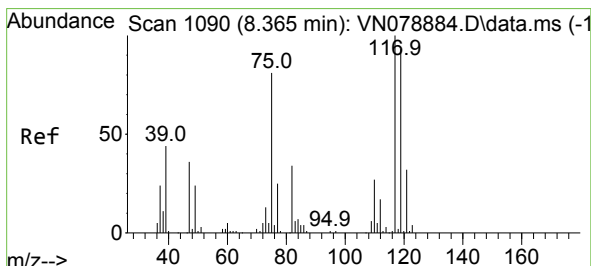
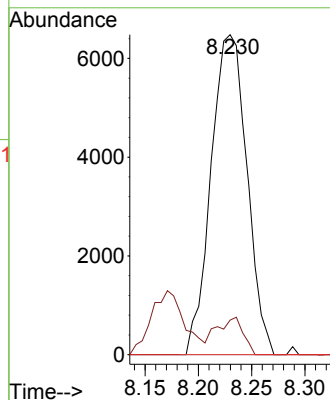
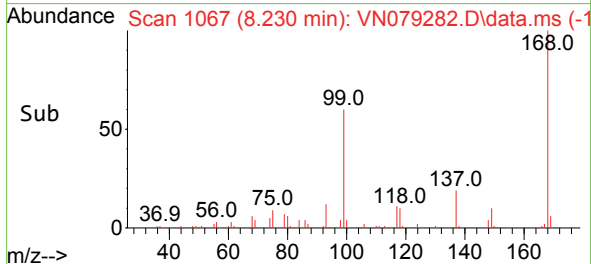


#36  
 1,1-Dichloropropene  
 Concen: 4.450 ug/l  
 RT: 8.230 min Scan# 1067  
 Delta R.T. -0.147 min  
 Lab File: VN079282.D  
 Acq: 15 Sep 2023 19:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :

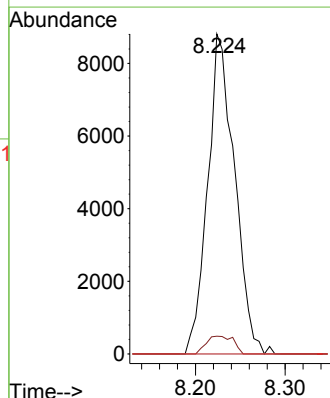
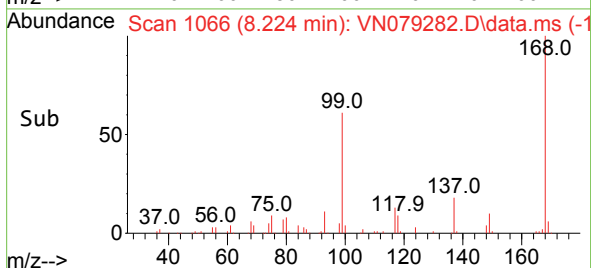
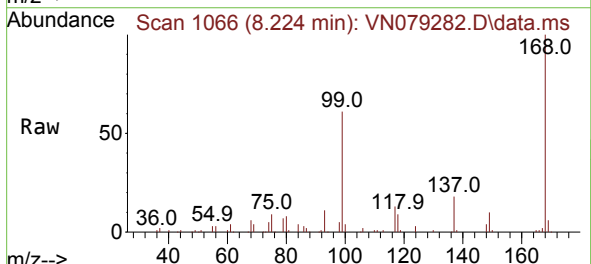


Tgt Ion: 75 Resp: 15197  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 19.1 57.3#  
 77 0.0 25.0 37.4#

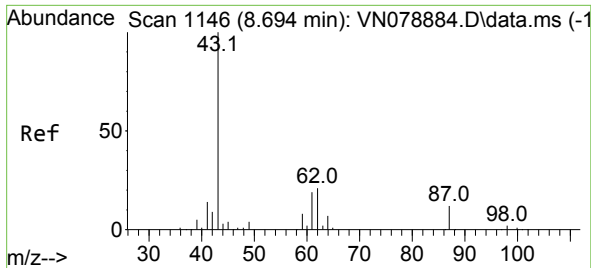


#38  
 Carbon Tetrachloride  
 Concen: 5.201 ug/l  
 RT: 8.224 min Scan# 1066  
 Delta R.T. -0.147 min  
 Lab File: VN079282.D  
 Acq: 15 Sep 2023 19:19

Tgt Ion: 117 Resp: 18384  
 Ion Ratio Lower Upper  
 117 100  
 119 5.6 77.3 115.9#  
 121 0.0 23.3 34.9#

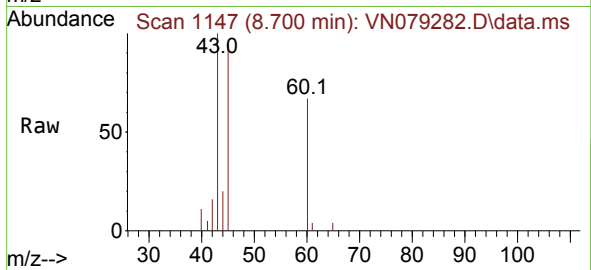




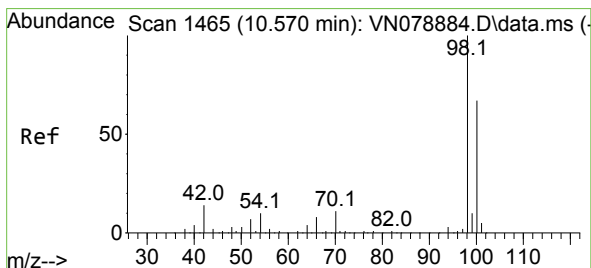
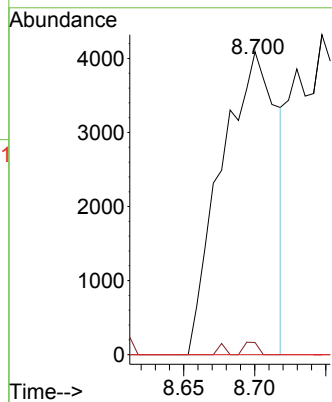
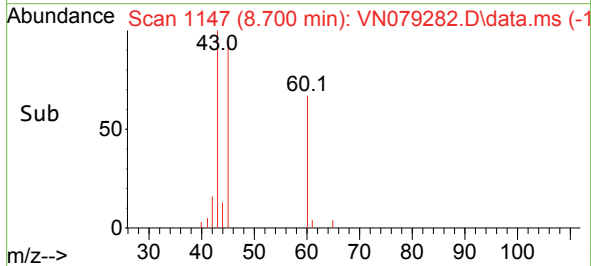


#43  
Isopropyl Acetate  
Concen: 1.999 ug/l  
RT: 8.700 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Instrument :  
MSVOA\_N  
ClientSampleId :

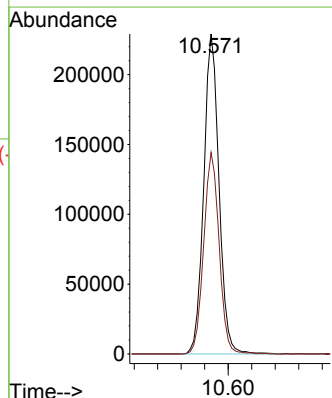
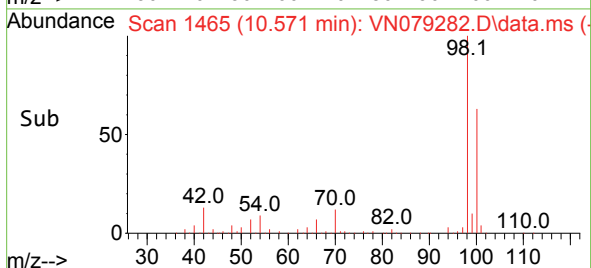
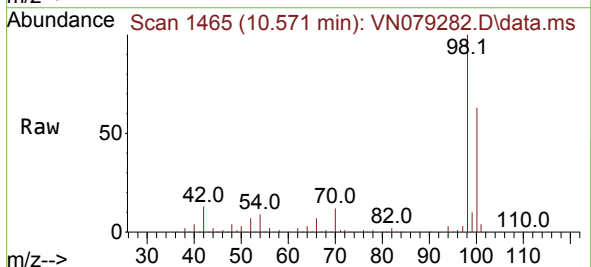


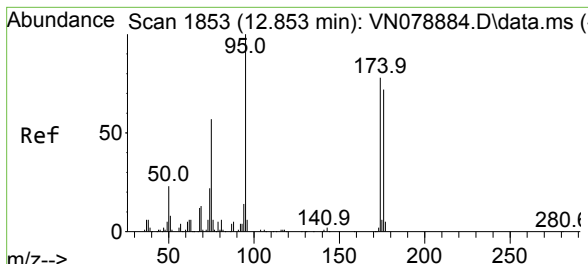
Tgt Ion: 43 Resp: 11112  
Ion Ratio Lower Upper  
43 100  
61 1.1 24.7 37.1#  
87 0.0 14.6 21.8#



#50  
Toluene-d8  
Concen: 50.813 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Tgt Ion: 98 Resp: 413415  
Ion Ratio Lower Upper  
98 100  
100 63.6 52.0 78.0

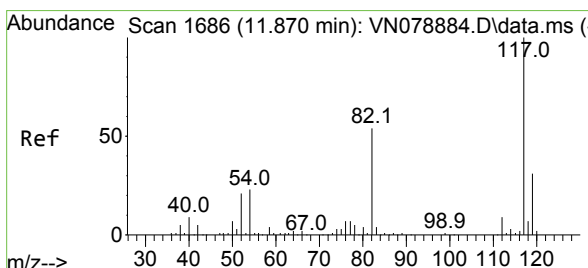
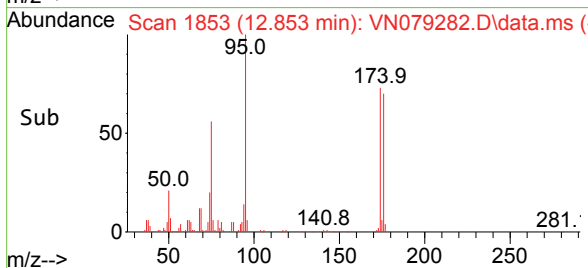
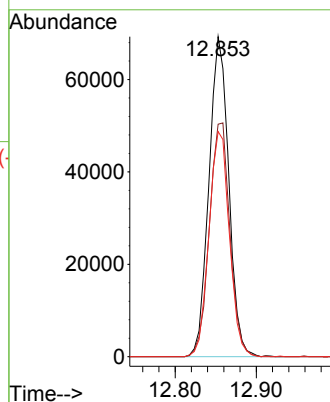
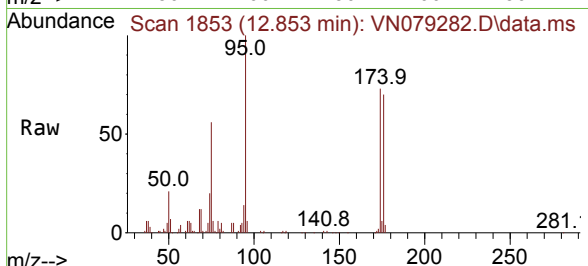




#62  
4-Bromofluorobenzene  
Concen: 45.216 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

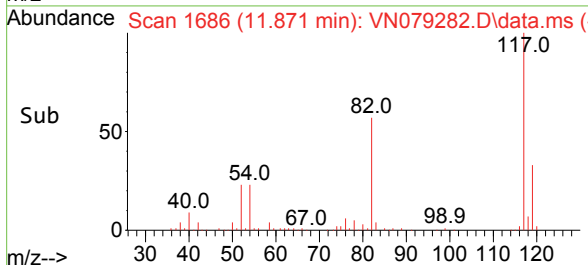
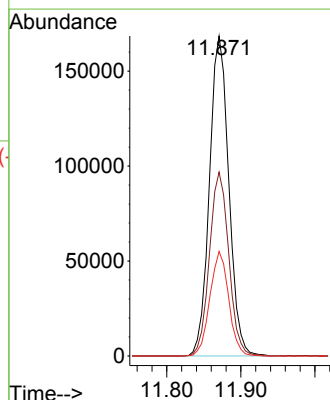
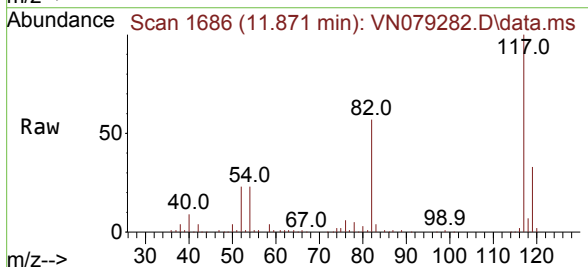
Instrument :  
MSVOA\_N  
ClientSampleId :

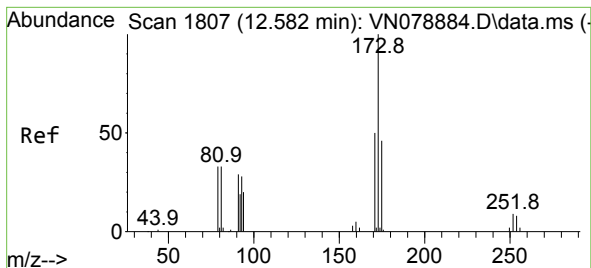
Tgt Ion: 95 Resp: 117347  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 143.8  
176 72.4 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Tgt Ion: 117 Resp: 305467  
Ion Ratio Lower Upper  
117 100  
82 57.5 44.0 66.0  
119 32.6 25.6 38.4





#71

Bromoform

Concen: 0.576 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079282.D

Acq: 15 Sep 2023 19:19

Instrument :

MSVOA\_N

ClientSampleId :

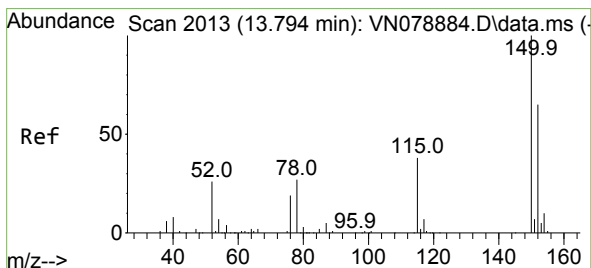
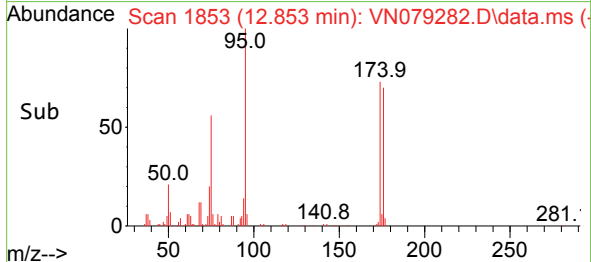
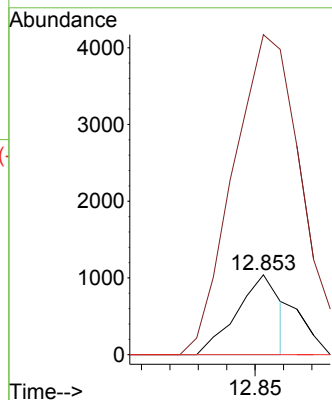
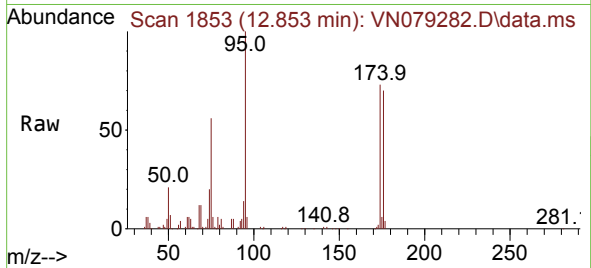
Tgt Ion:173 Resp: 1104

Ion Ratio Lower Upper

173 100

175 475.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079282.D

Acq: 15 Sep 2023 19:19

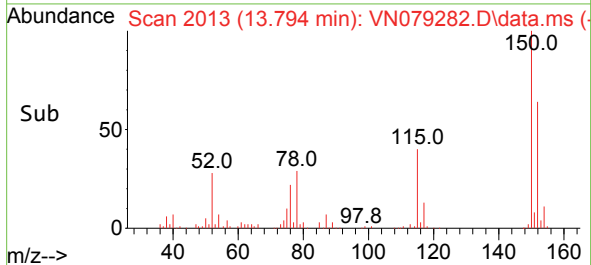
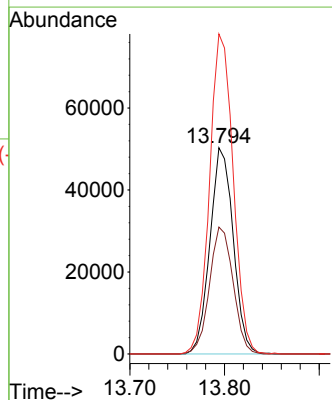
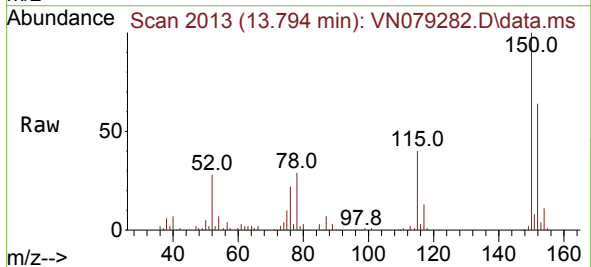
Tgt Ion:152 Resp: 86107

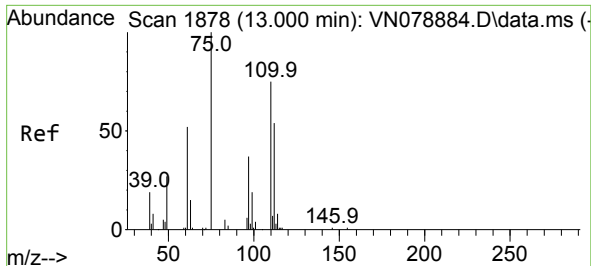
Ion Ratio Lower Upper

152 100

115 62.3 32.3 96.8

150 157.1 0.0 355.8

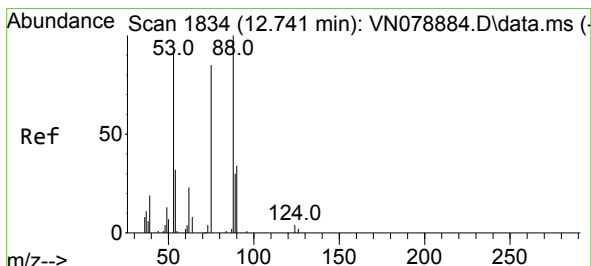
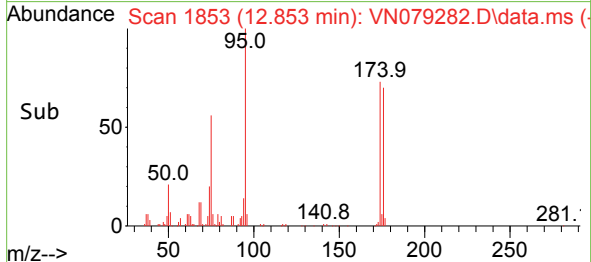
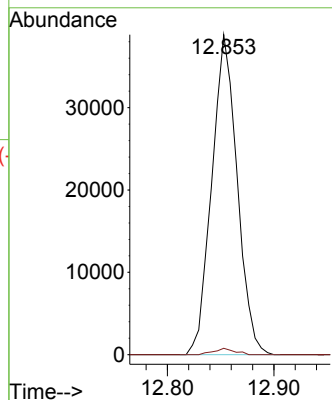
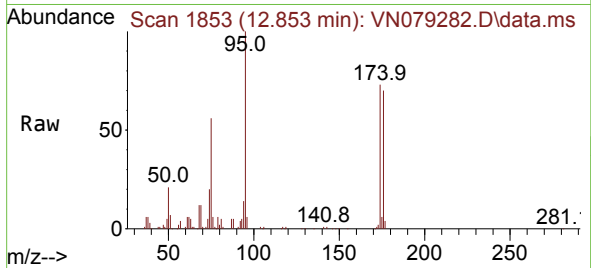




#76  
1,2,3-Trichloropropane  
Concen: 27.746 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 64390  
Ion Ratio Lower Upper  
75 100  
77 1.6 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.280 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN079282.D  
Acq: 15 Sep 2023 19:19

Tgt Ion: 75 Resp: 64390  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#

