

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110223\  
 Data File : VN079803.D  
 Acq On : 02 Nov 2023 17:34  
 Operator : JC\MD  
 Sample : 05225-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 03 04:04:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

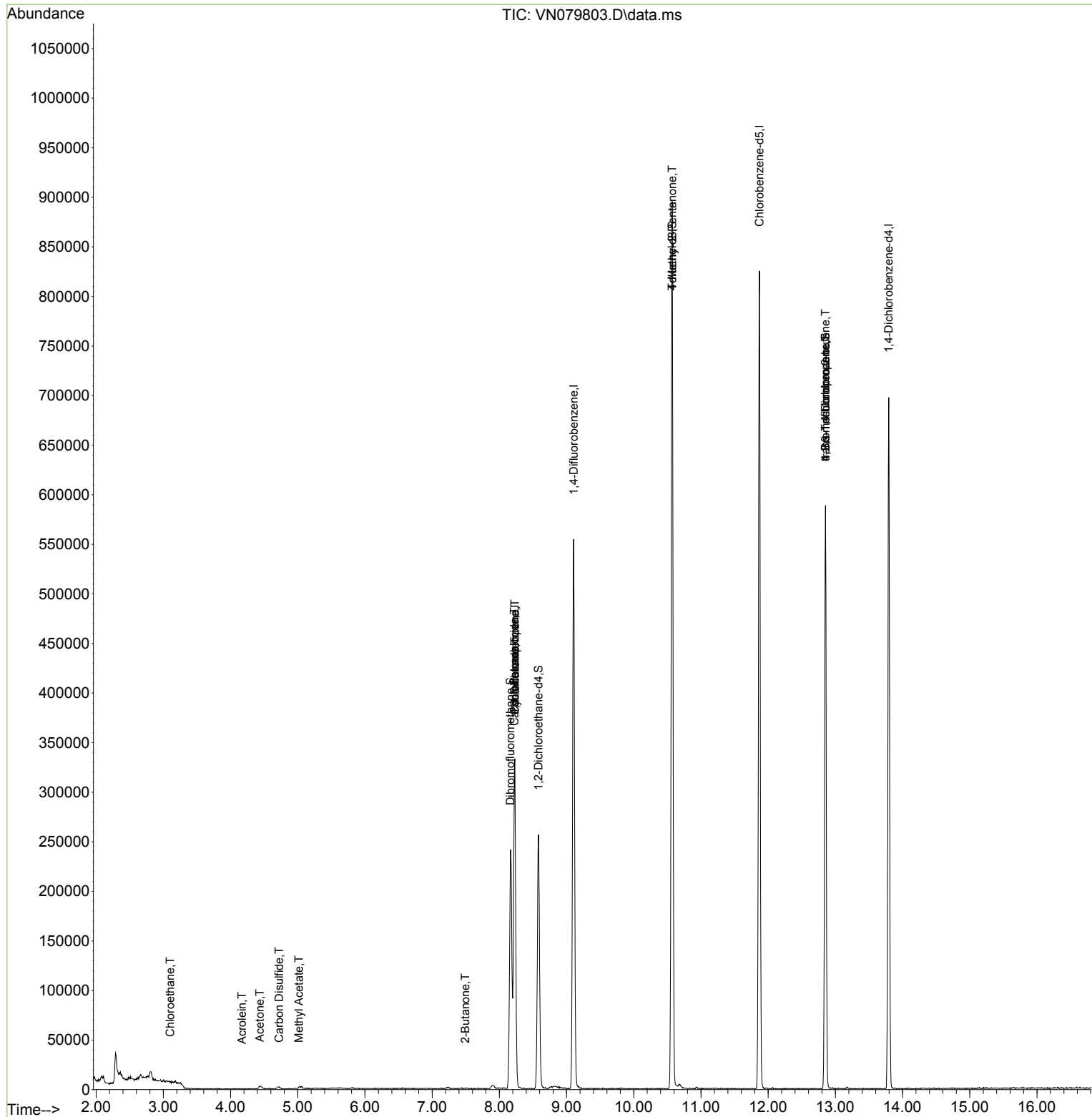
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 227987   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 457615   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 467721   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 177606   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 207565   | 59.757    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 119.520% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 172408   | 53.232    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 106.460% |          |
| 50) Toluene-d8                | 10.571 | 98    | 600915   | 50.399    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 100.800% |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 194095   | 49.084    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 98.160%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.354  | 50    | 1987     | Below Cal | #          | 42       |
| 6) Chloroethane               | 3.101  | 64    | 977      | 0.344     | ug/l       | 92       |
| 13) Acrolein                  | 4.171  | 56    | 65       | 2.734     | ug/l #     | 16       |
| 16) Acetone                   | 4.436  | 43    | 5970     | 4.893     | ug/l       | 98       |
| 17) Carbon Disulfide          | 4.724  | 76    | 4745     | 0.670     | ug/l #     | 75       |
| 18) Methyl Acetate            | 5.018  | 43    | 2297     | 0.394     | ug/l #     | 64       |
| 25) 2-Butanone                | 7.494  | 43    | 383      | 0.214     | ug/l #     | 37       |
| 31) Cyclohexane               | 8.230  | 56    | 6453     | 1.406     | ug/l #     | 19       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 20604    | 4.455     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 24677    | 5.295     | ug/l #     | 14       |
| 51) 4-Methyl-2-Pentanone      | 10.571 | 43    | 3365     | 0.804     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 108773   | 26.087    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 108773   | 70.976    | ug/l #     | 15       |
| -----                         |        |       |          |           |            |          |

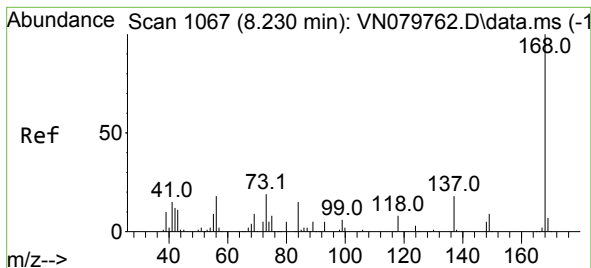
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110223\  
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MSVOA\_N  
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Quant Time: Nov 03 04:04:03 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.001 min

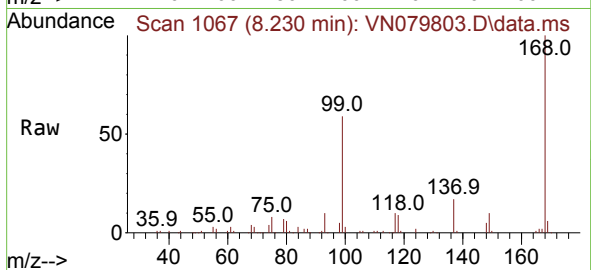
Lab File: VN079803.D

Acq: 02 Nov 2023 17:34

Instrument :

MSVOA\_N

ClientSampleId :

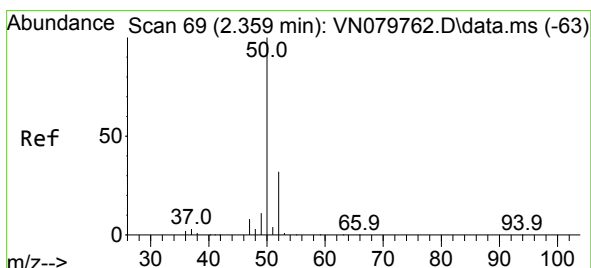
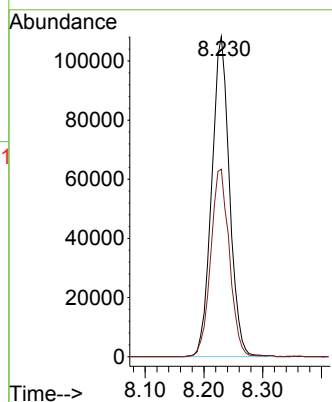
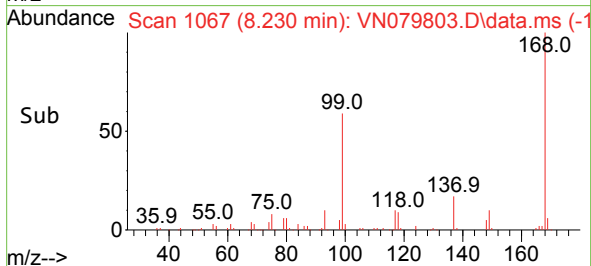


Tgt Ion:168 Resp: 227987

Ion Ratio Lower Upper

168 100

99 58.6 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.354 min Scan# 68

Delta R.T. -0.005 min

Lab File: VN079803.D

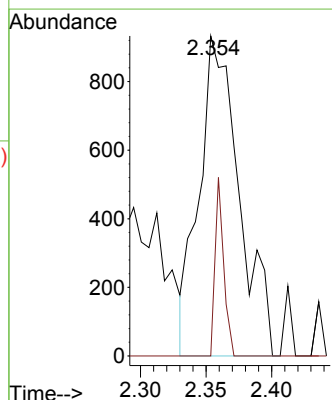
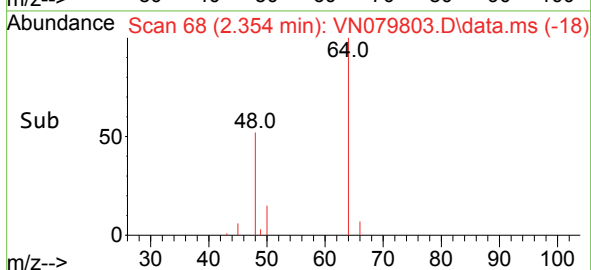
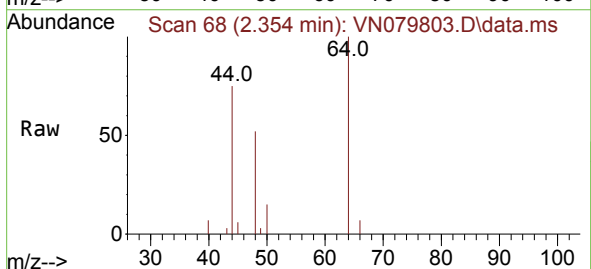
Acq: 02 Nov 2023 17:34

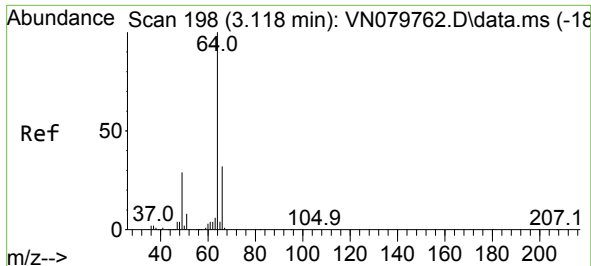
Tgt Ion: 50 Resp: 1987

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

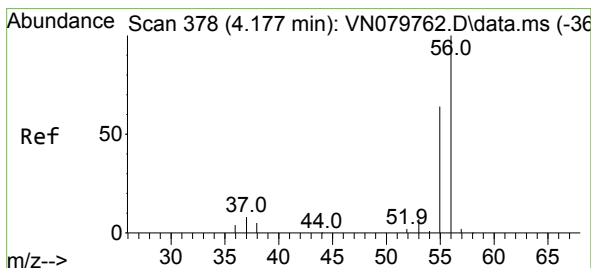
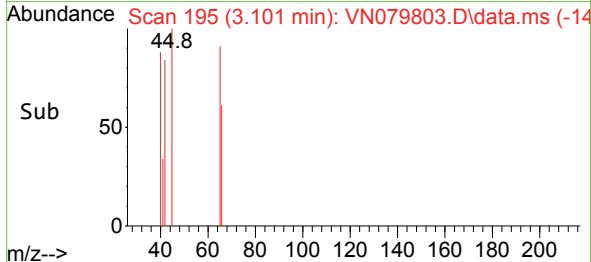
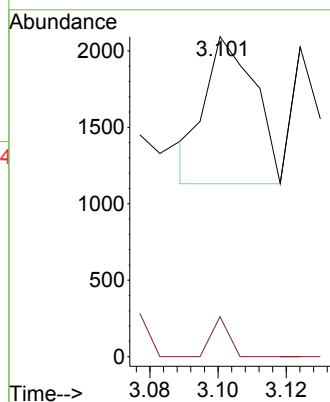
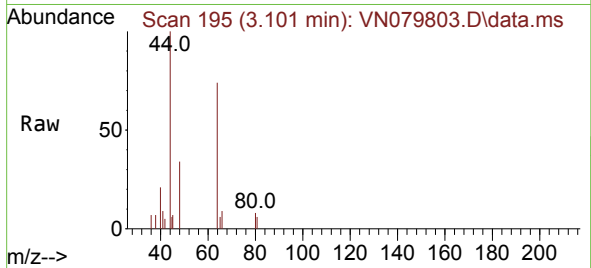




#6  
Chloroethane  
Concen: 0.344 ug/l  
RT: 3.101 min Scan# 195  
Delta R.T. -0.018 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

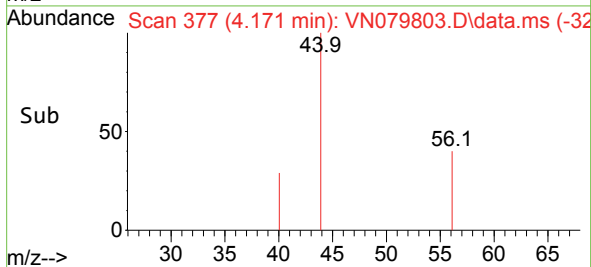
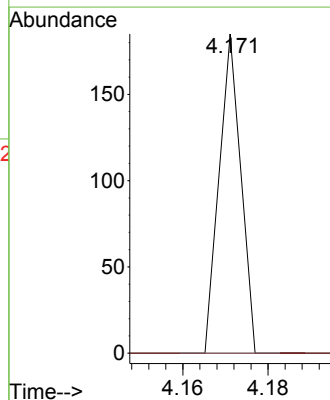
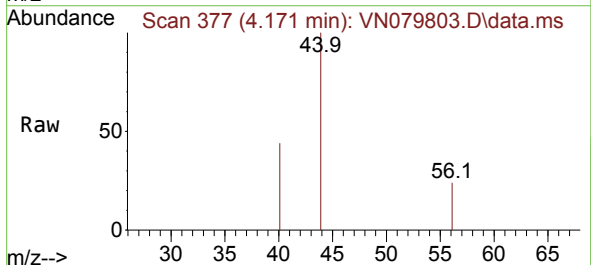
Instrument :  
MSVOA\_N  
ClientSampleId :

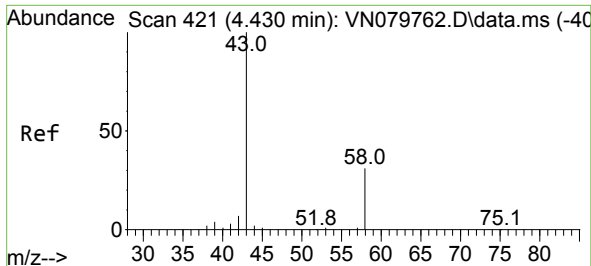
Tgt Ion: 64 Resp: 977  
Ion Ratio Lower Upper  
64 100  
66 27.2 25.4 38.2



#13  
Acrolein  
Concen: 2.734 ug/l  
RT: 4.171 min Scan# 377  
Delta R.T. -0.012 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

Tgt Ion: 56 Resp: 65  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#

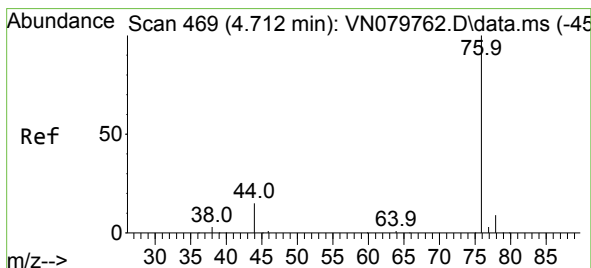
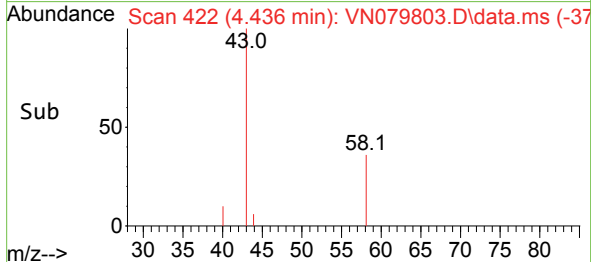
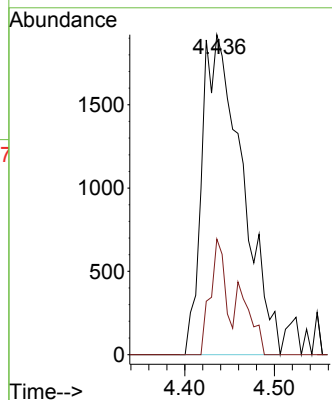
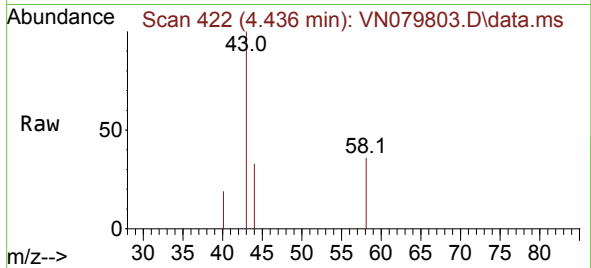




#16  
Acetone  
Concen: 4.893 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

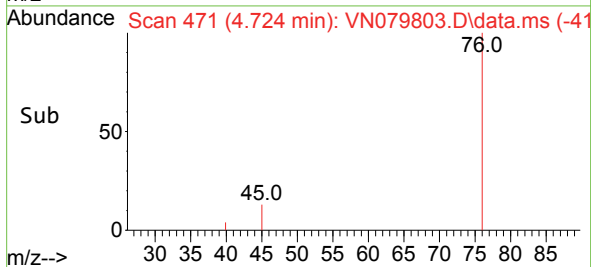
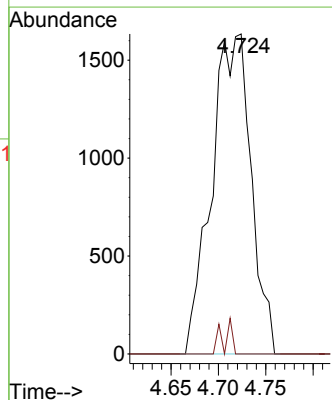
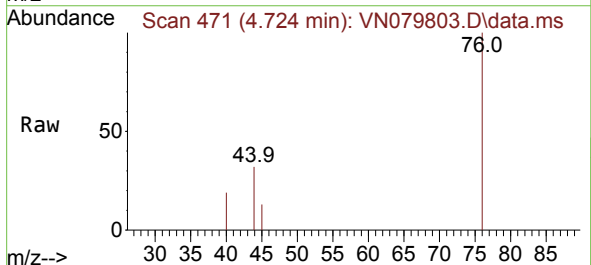
Instrument :  
MSVOA\_N  
ClientSampleId :

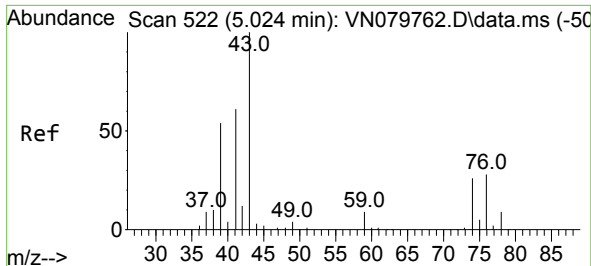
Tgt Ion: 43 Resp: 5970  
Ion Ratio Lower Upper  
43 100  
58 36.1 28.0 42.0



#17  
Carbon Disulfide  
Concen: 0.670 ug/l  
RT: 4.724 min Scan# 471  
Delta R.T. 0.012 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

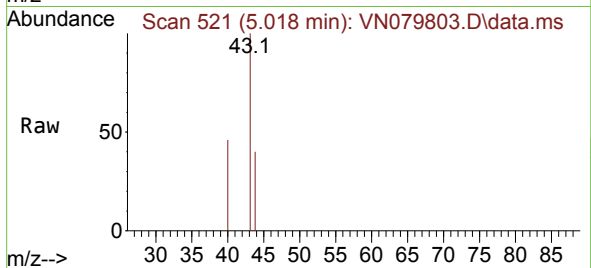
Tgt Ion: 76 Resp: 4745  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



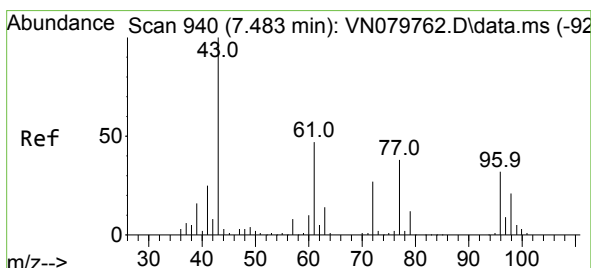
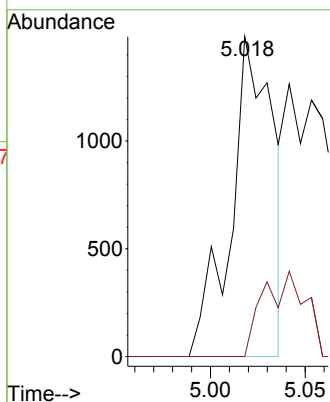
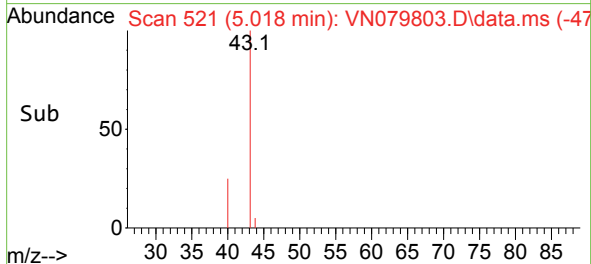


#18  
Methyl Acetate  
Concen: 0.394 ug/l  
RT: 5.018 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

Instrument :  
MSVOA\_N  
ClientSampleId :

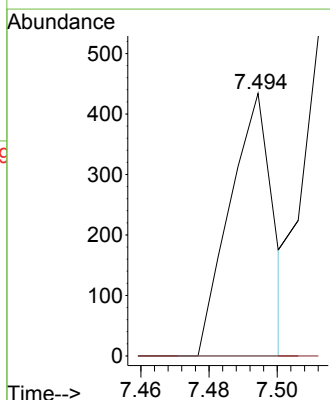
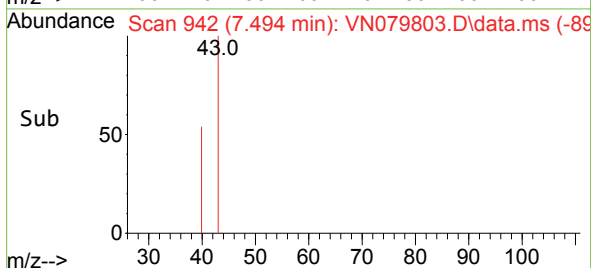
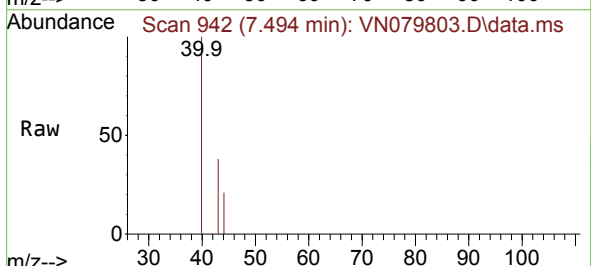


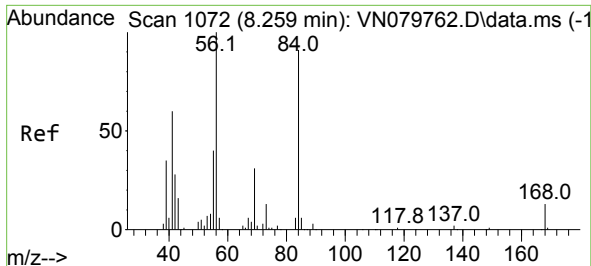
Tgt Ion: 43 Resp: 2297  
Ion Ratio Lower Upper  
43 100  
74 12.3 26.2 39.4#



#25  
2-Butanone  
Concen: 0.214 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

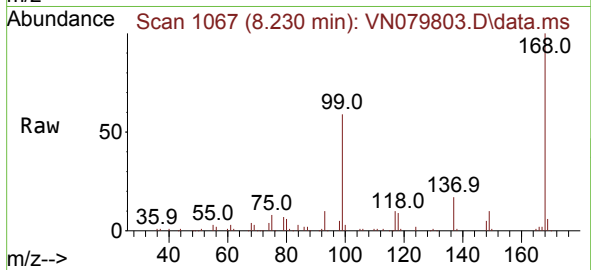
Tgt Ion: 43 Resp: 383  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



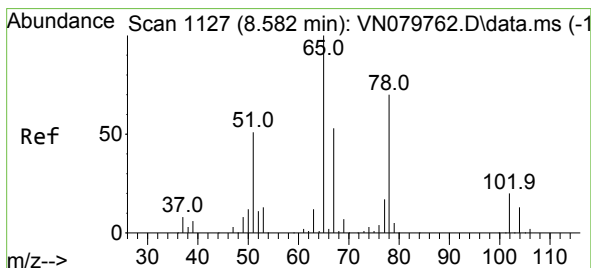
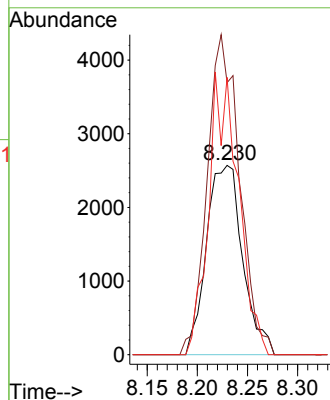
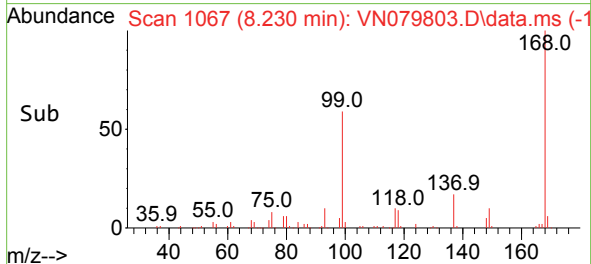


#31  
Cyclohexane  
Concen: 1.406 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

Instrument :  
MSVOA\_N  
ClientSampleId :

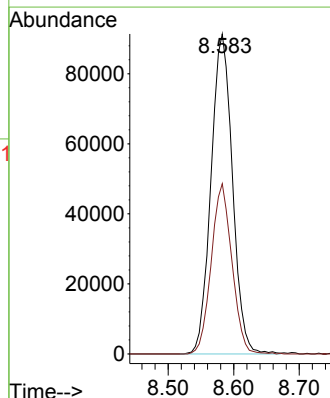
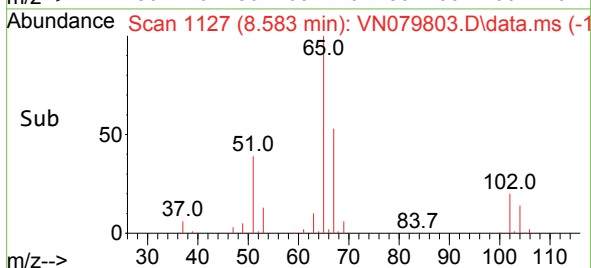
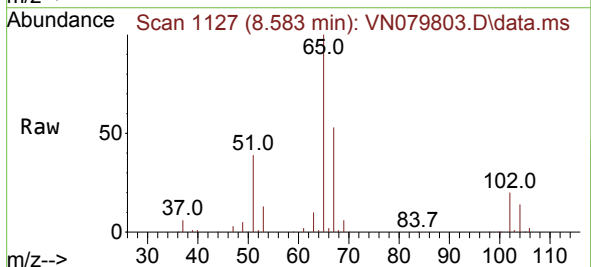


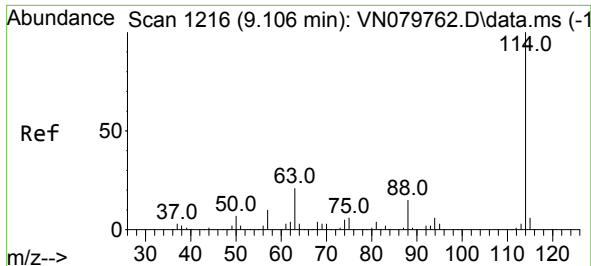
Tgt Ion: 56 Resp: 6453  
Ion Ratio Lower Upper  
56 100  
69 143.7 26.8 40.2#  
84 146.5 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 59.757 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

Tgt Ion: 65 Resp: 207565  
Ion Ratio Lower Upper  
65 100  
67 51.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079803.D

Acq: 02 Nov 2023 17:34

Instrument :

MSVOA\_N

ClientSampleId :

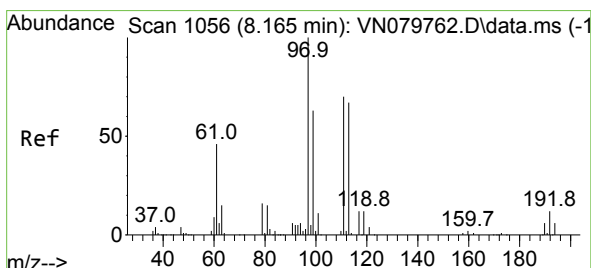
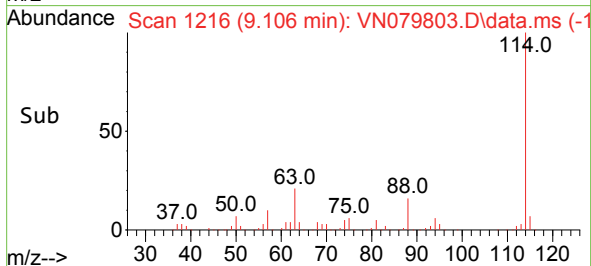
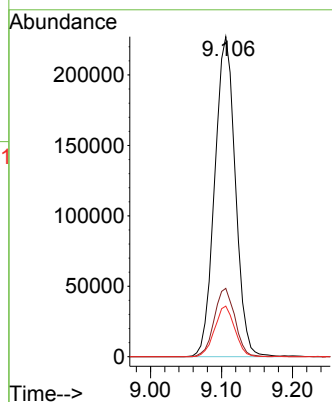
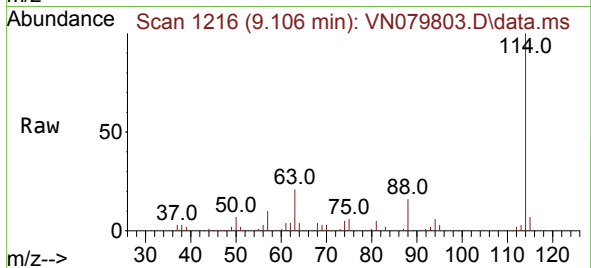
Tgt Ion:114 Resp: 457615

Ion Ratio Lower Upper

114 100

63 21.3 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 53.232 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN079803.D

Acq: 02 Nov 2023 17:34

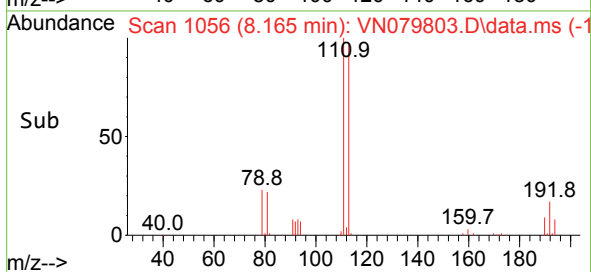
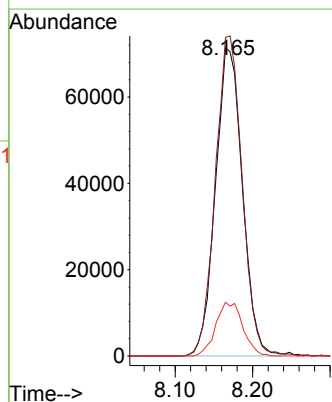
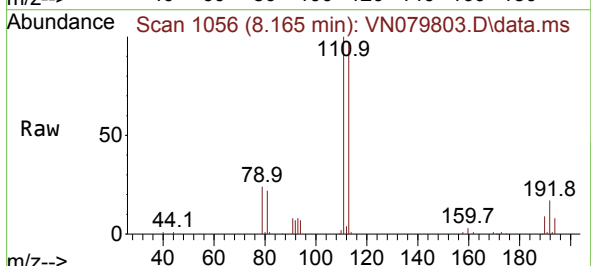
Tgt Ion:113 Resp: 172408

Ion Ratio Lower Upper

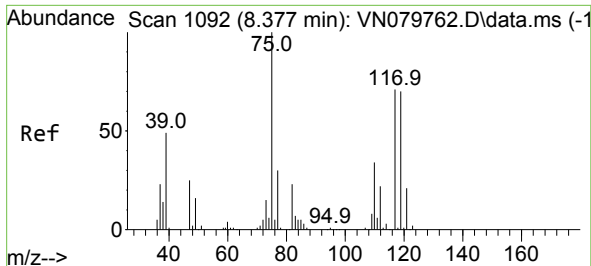
113 100

111 103.5 82.6 123.8

192 17.5 12.7 19.1







#36

1,1-Dichloropropene

Concen: 4.455 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

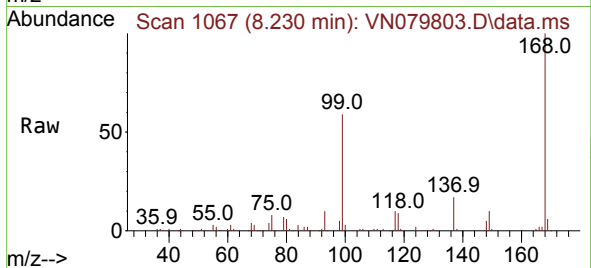
Lab File: VN079803.D

Acq: 02 Nov 2023 17:34

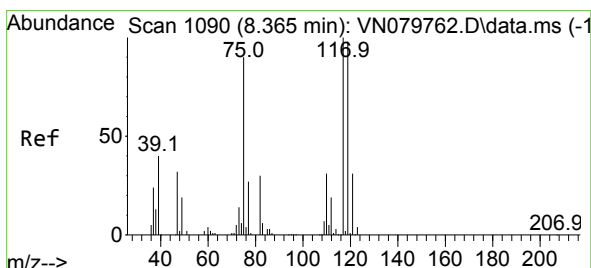
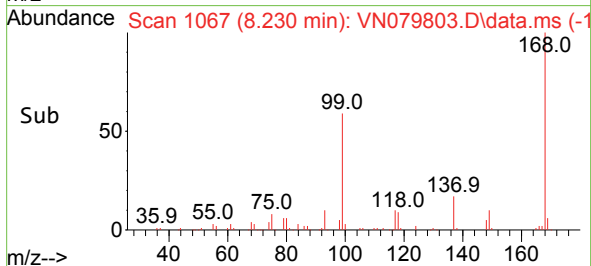
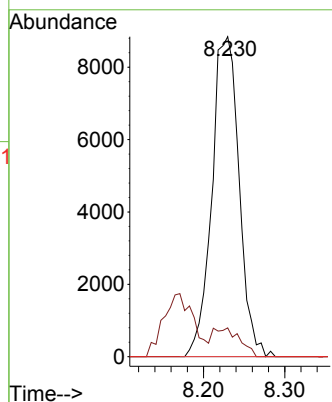
Instrument :

MSVOA\_N

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 20604    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.7 19.1 57.3# |
| 77          | 0.0 25.0 37.4# |



#38

Carbon Tetrachloride

Concen: 5.295 ug/l

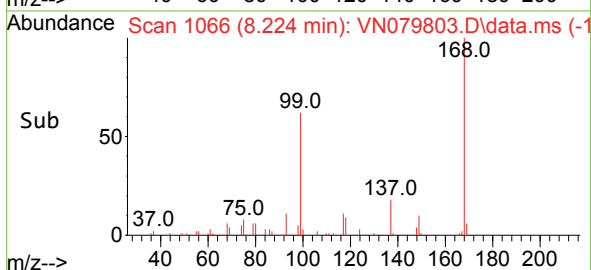
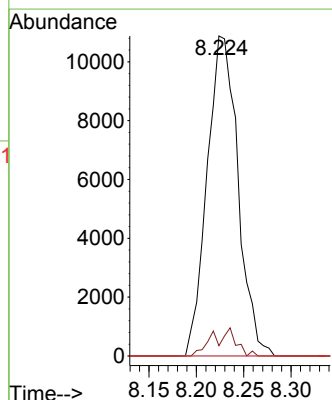
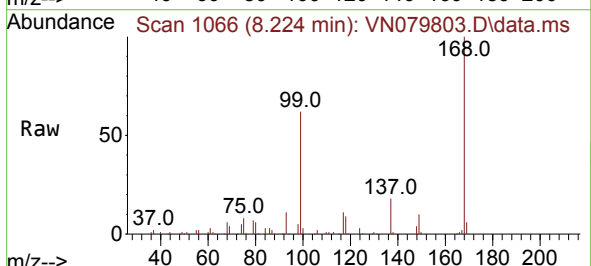
RT: 8.224 min Scan# 1066

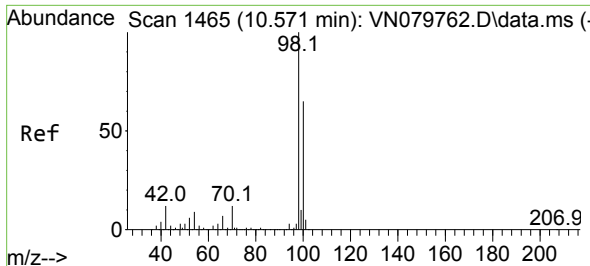
Delta R.T. -0.135 min

Lab File: VN079803.D

Acq: 02 Nov 2023 17:34

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 24677     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 3.2 77.3 115.9# |
| 121          | 0.0 23.3 34.9#  |

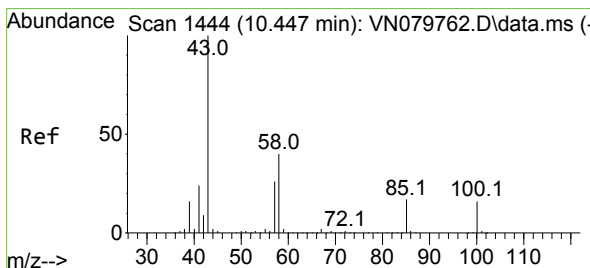
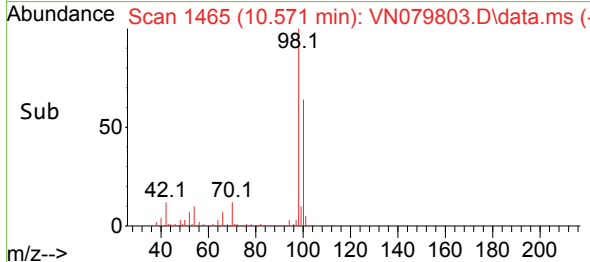
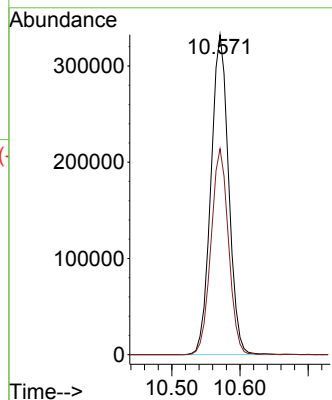
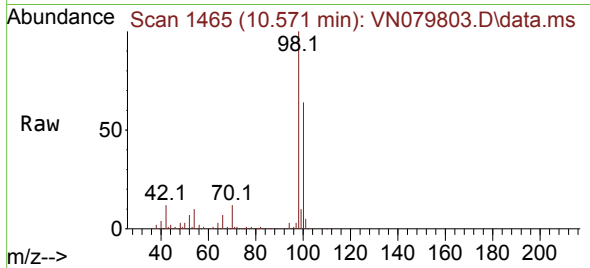




#50  
Toluene-d8  
Concen: 50.399 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

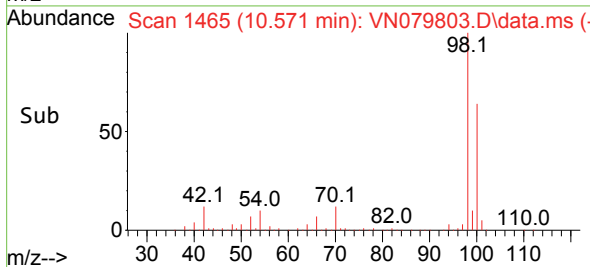
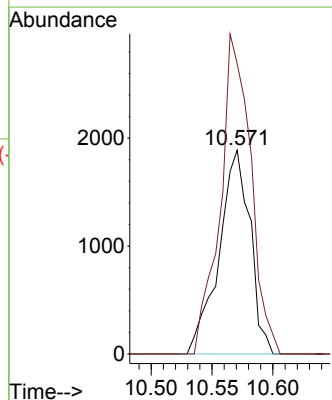
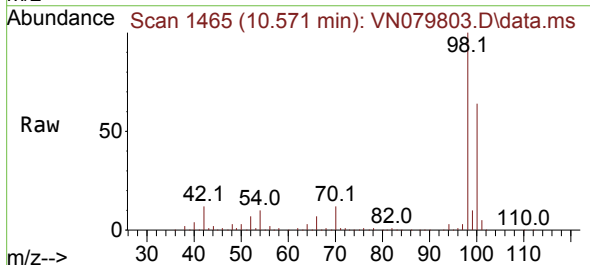
Instrument :  
MSVOA\_N  
ClientSampleId :

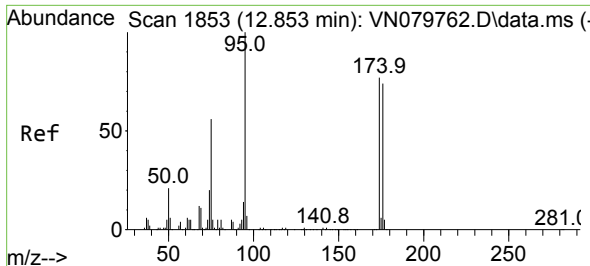
Tgt Ion: 98 Resp: 600915  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.804 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.124 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

Tgt Ion: 43 Resp: 3365  
Ion Ratio Lower Upper  
43 100  
58 153.6 36.6 54.8#

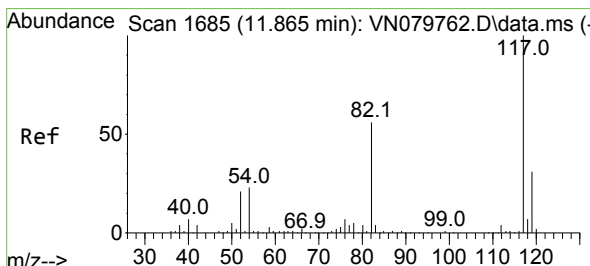
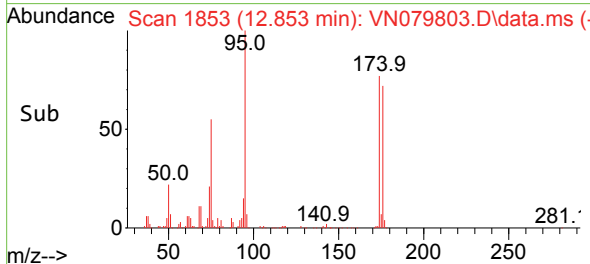
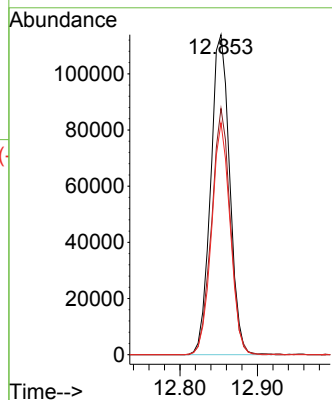
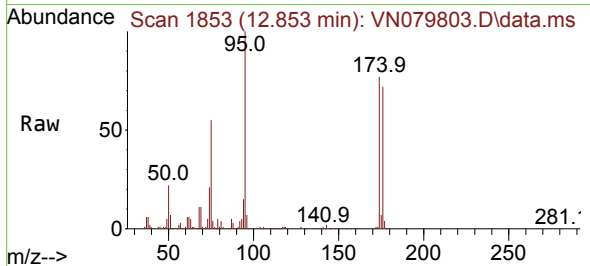




#62  
4-Bromofluorobenzene  
Concen: 49.084 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

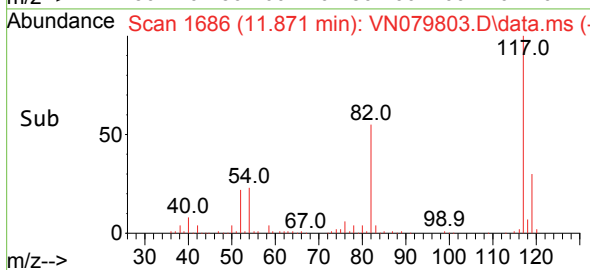
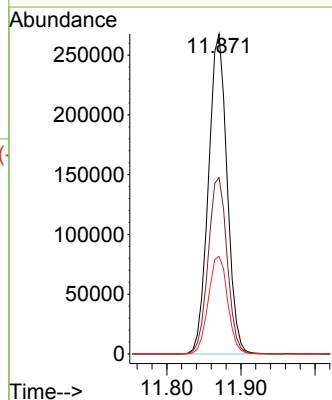
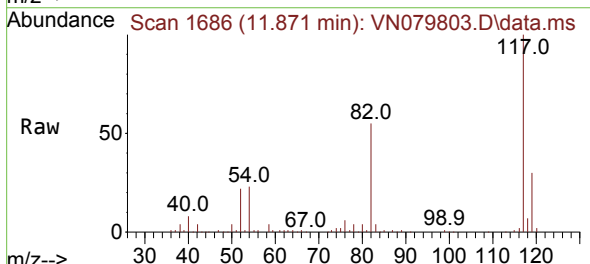
Instrument :  
MSVOA\_N  
ClientSampleId :

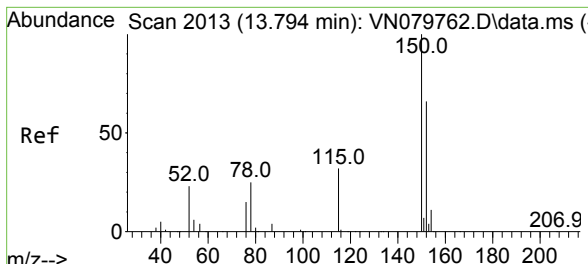
Tgt Ion: 95 Resp: 194095  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 143.8  
176 70.9 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

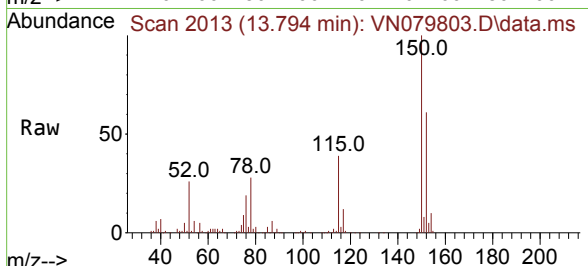
Tgt Ion: 117 Resp: 467721  
Ion Ratio Lower Upper  
117 100  
82 55.1 44.0 66.0  
119 30.5 25.6 38.4



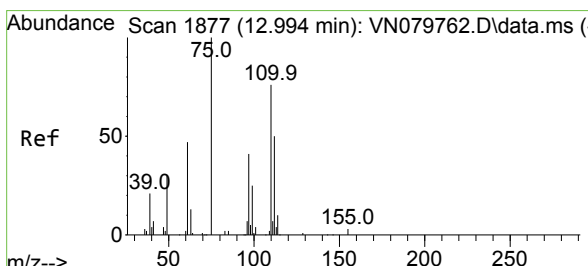
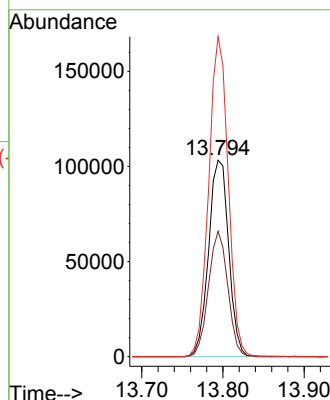
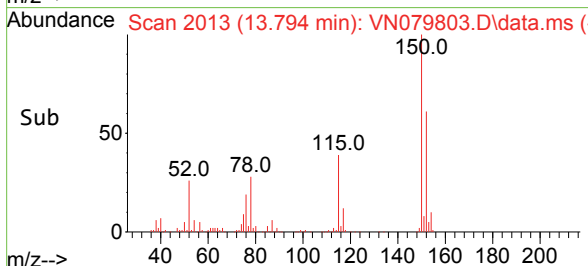


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2013  
 Delta R.T. 0.000 min  
 Lab File: VN079803.D  
 Acq: 02 Nov 2023 17:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :

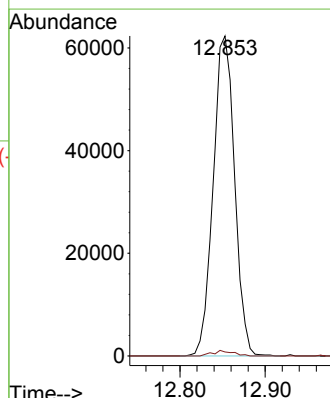
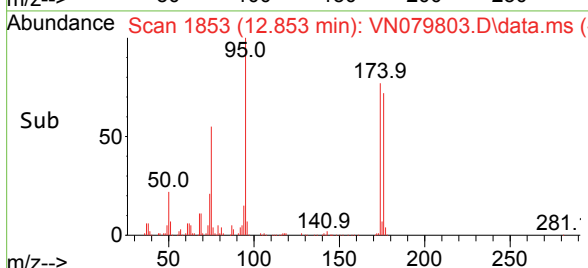
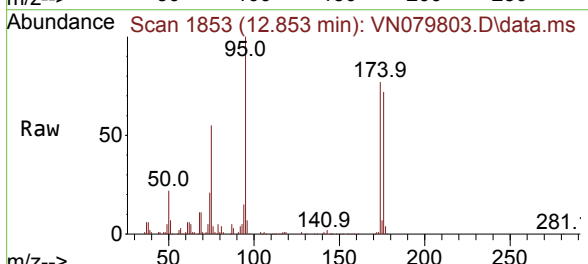


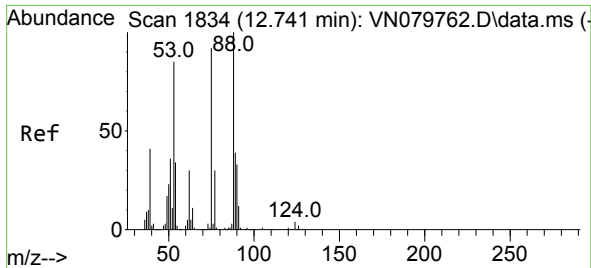
Tgt Ion:152 Resp: 177606  
 Ion Ratio Lower Upper  
 152 100  
 115 61.3 32.3 96.8  
 150 157.7 0.0 355.8



#76  
 1,2,3-Trichloropropane  
 Concen: 26.087 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN079803.D  
 Acq: 02 Nov 2023 17:34

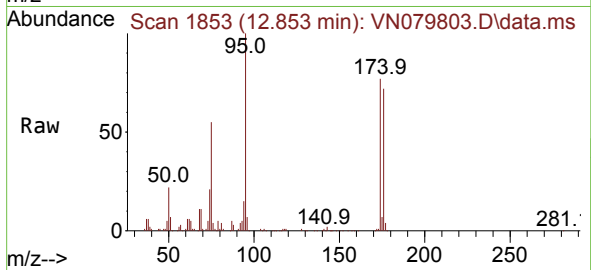
Tgt Ion: 75 Resp: 108773  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 84.5 253.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.976 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.118 min  
Lab File: VN079803.D  
Acq: 02 Nov 2023 17:34

Instrument :  
MSVOA\_N  
ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.1   | 67.4  | 101.2# |
| 89      | 0.0   | 38.8  | 58.2#  |

