

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071923\  
 Data File : VN078580.D  
 Acq On : 19 Jul 2023 15:10  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Jul 20 01:34:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

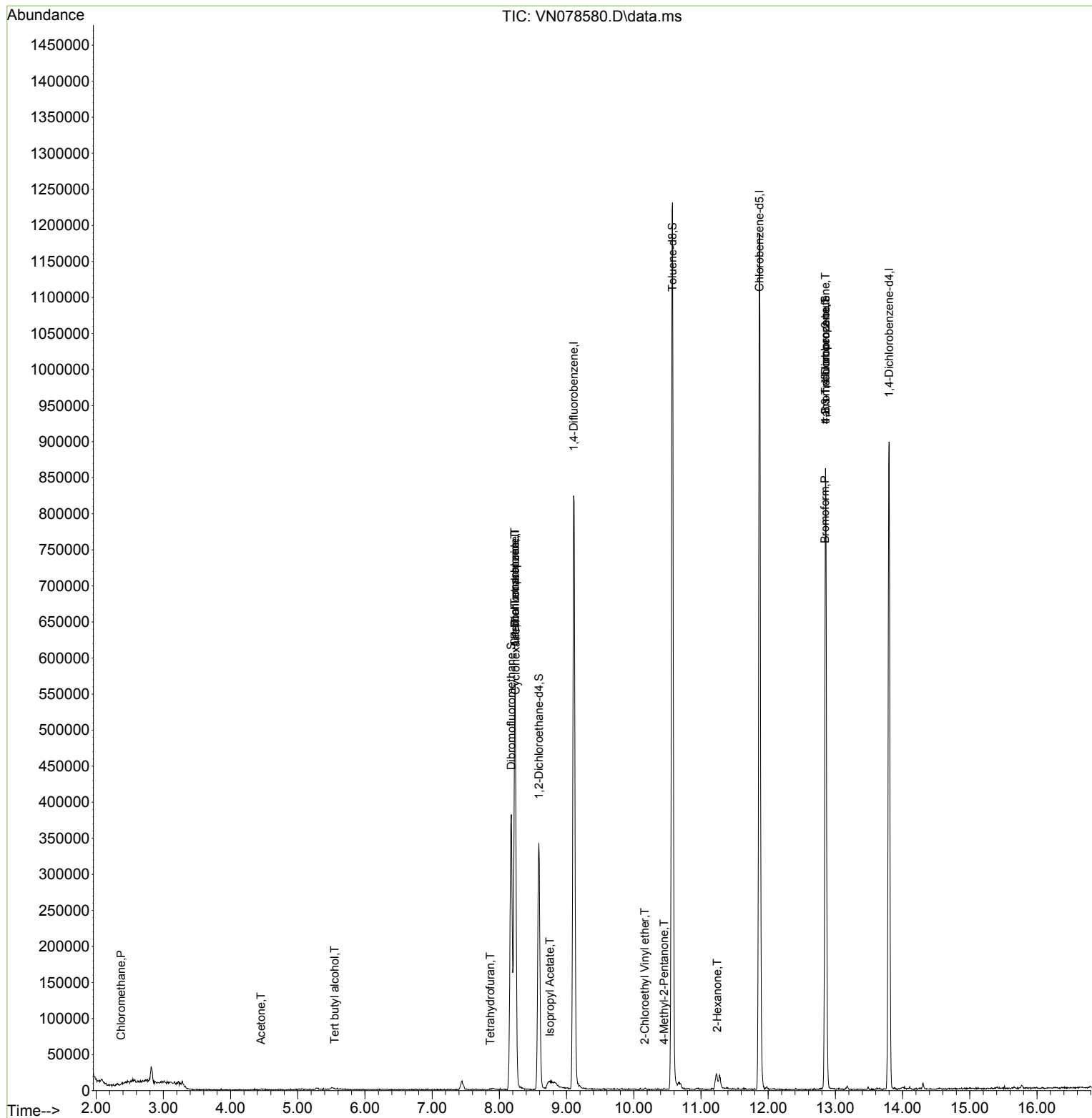
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.235     | 168   | 415880   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106     | 114   | 763687   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.870    | 117   | 724361   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800    | 152   | 251259   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.588     | 65    | 281247   | 50.445    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery  | = 100.900% |          |
| 35) Dibromofluoromethane      | 8.177     | 113   | 276950   | 53.423    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | = 106.840% |          |
| 50) Toluene-d8                | 10.576    | 98    | 909145   | 46.422    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery  | = 92.840%  |          |
| 62) 4-Bromofluorobenzene      | 12.853    | 95    | 304785   | 50.525    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | = 101.060% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.371     | 50    | 1600     | 0.289     | ug/l #     | 85       |
| 5) Bromomethane               | 2.977     | 94    | 1400     | Below Cal | #          | 33       |
| 6) Chloroethane               | 3.094     | 64    | 485      | Below Cal | #          | 43       |
| 11) Tert butyl alcohol        | 5.547     | 59    | 239      | 0.278     | ug/l #     | 72       |
| 16) Acetone                   | 4.453     | 43    | 1024     | 0.590     | ug/l #     | 62       |
| 20) Methylene Chloride        | 5.277     | 84    | 1564     | Below Cal | #          | 46       |
| 29) Tetrahydrofuran           | 7.865     | 42    | 558      | 0.311     | ug/l #     | 20       |
| 31) Cyclohexane               | 8.241     | 56    | 9753     | 1.294     | ug/l #     | 56       |
| 36) 1,1-Dichloropropene       | 8.229     | 75    | 34945    | 4.668     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.229     | 117   | 45034    | 5.536     | ug/l #     | 17       |
| 43) Isopropyl Acetate         | 8.753     | 43    | 15429    | 1.502     | ug/l #     | 49       |
| 51) 4-Methyl-2-Pentanone      | 10.453    | 43    | 1249     | 0.204     | ug/l #     | 31       |
| 58) 2-Chloroethyl Vinyl ether | 10.165    | 63    | 677      | 0.251     | ug/l       | 92       |
| 59) 2-Hexanone                | 11.241    | 43    | 9706     | 2.235     | ug/l #     | 48       |
| 71) Bromoform                 | 12.847    | 173   | 2101     | 0.498     | ug/l #     | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.947    | 83    | 283      | Below Cal | #          | 26       |
| 76) 1,2,3-Trichloropropane    | 12.853    | 75    | 162644   | 26.780    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853    | 75    | 162644   | 70.374    | ug/l #     | 15       |
| 90) Hexachloroethane          | 14.458    | 117   | 84       | Below Cal | #          | 21       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.653    | 75    | 63       | Below Cal | #          | 4        |
| -----                         |           |       |          |           |            |          |

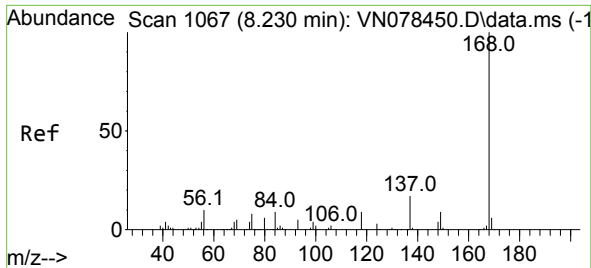
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071923\  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Quant Time: Jul 20 01:34:07 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
Response via : Initial Calibration

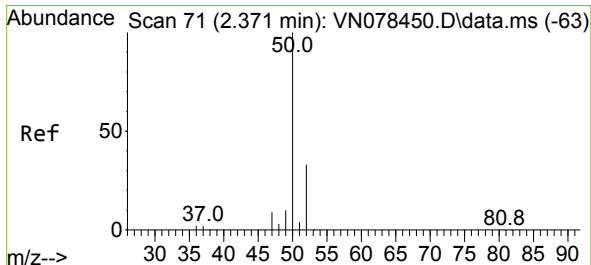
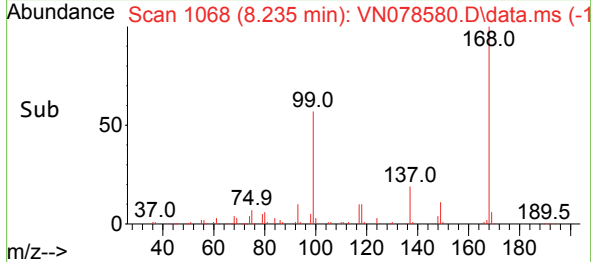
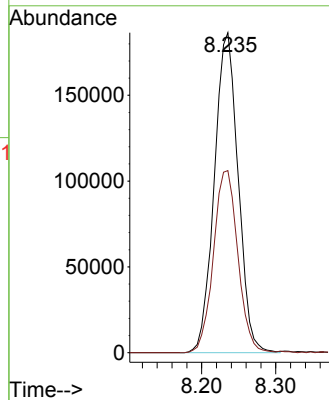
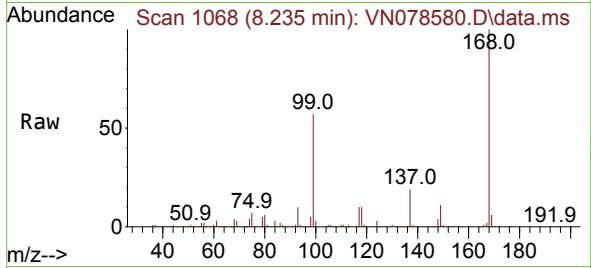




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. 0.005 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

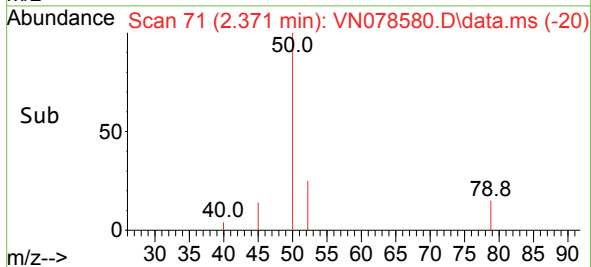
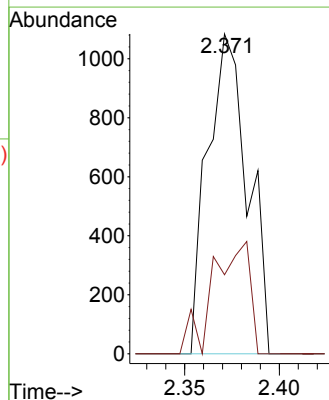
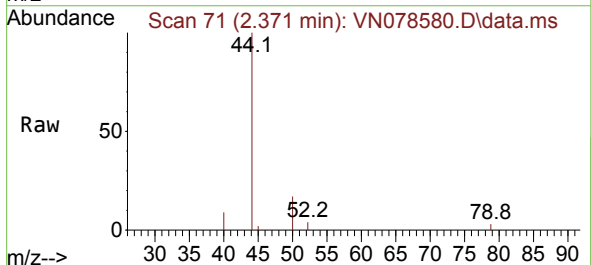
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

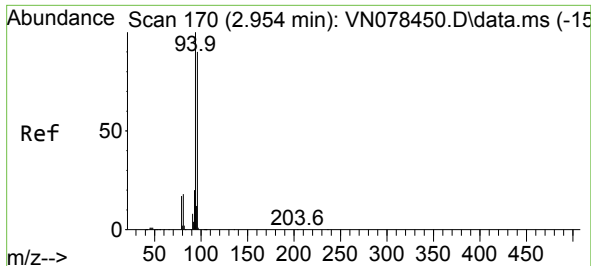
Tgt Ion:168 Resp: 415880  
Ion Ratio Lower Upper  
168 100  
99 56.9 53.0 79.6



#3  
Chloromethane  
Concen: 0.289 ug/l  
RT: 2.371 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 50 Resp: 1600  
Ion Ratio Lower Upper  
50 100  
52 24.7 26.5 39.7#

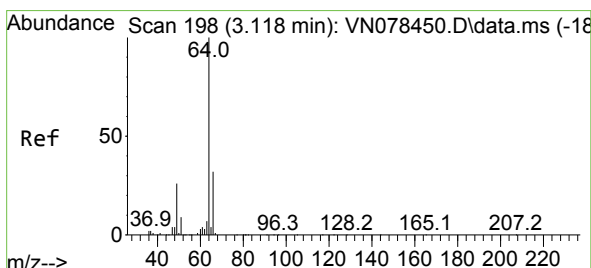
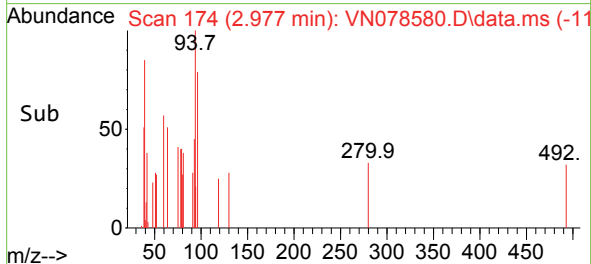
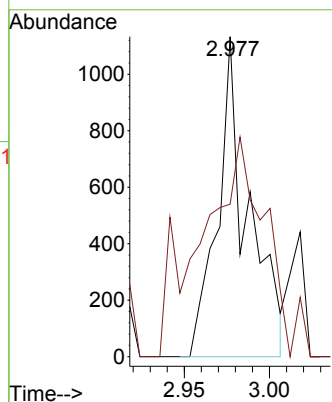
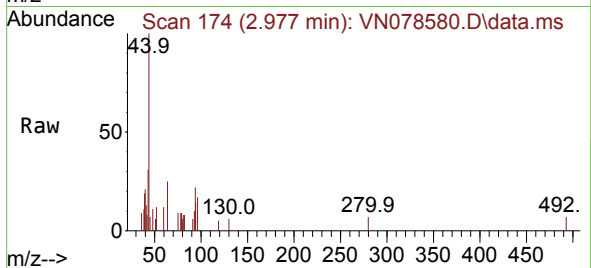




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.977 min Scan# 11  
Delta R.T. 0.023 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

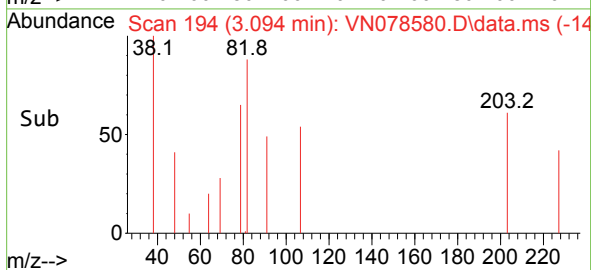
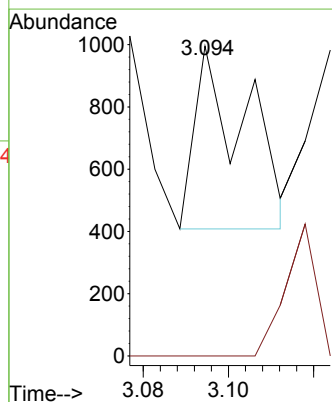
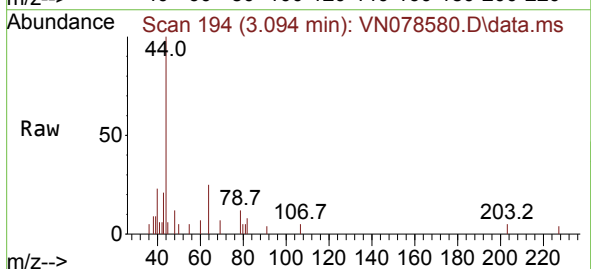
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

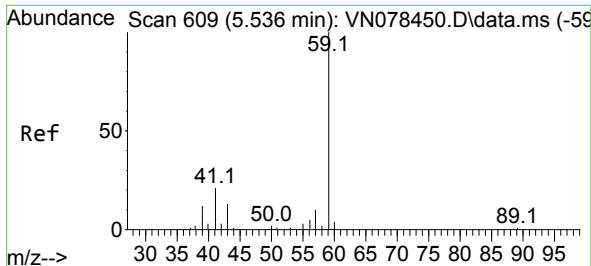
Tgt Ion: 94 Resp: 1400  
Ion Ratio Lower Upper  
94 100  
96 27.8 73.1 109.7#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.094 min Scan# 194  
Delta R.T. -0.024 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 64 Resp: 485  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#

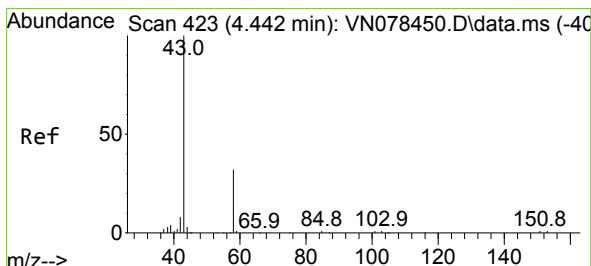
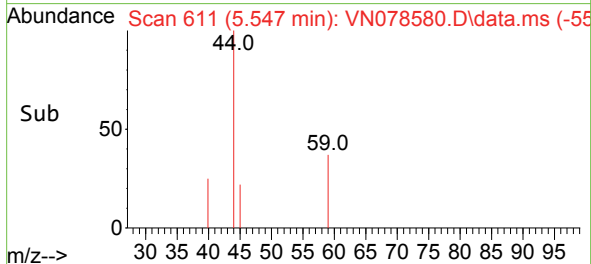
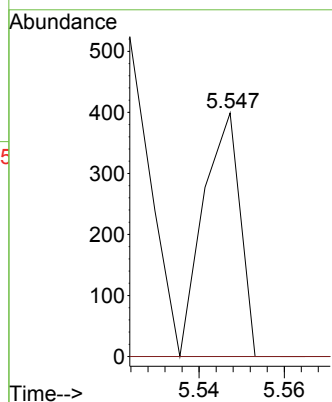
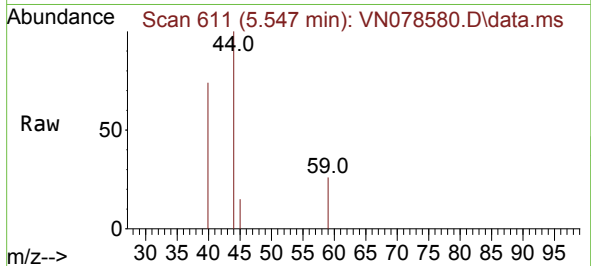




#11  
Tert butyl alcohol  
Concen: 0.278 ug/l  
RT: 5.547 min Scan# 611  
Delta R.T. 0.011 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

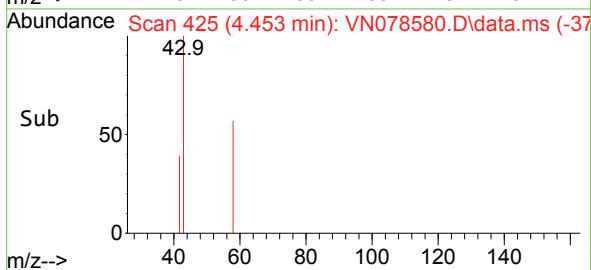
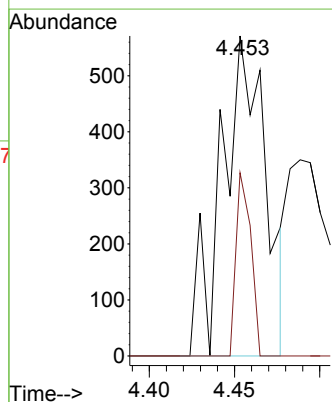
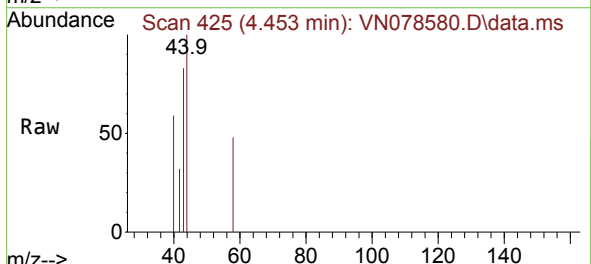
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

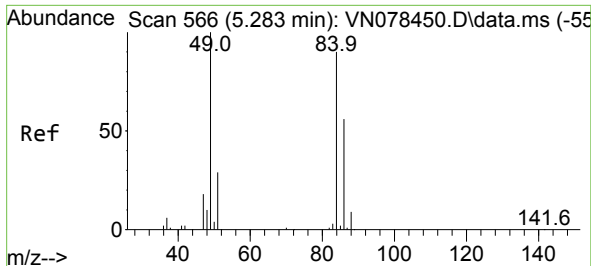
Tgt Ion: 59 Resp: 239  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 0.590 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.011 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 43 Resp: 1024  
Ion Ratio Lower Upper  
43 100  
58 57.3 28.0 42.0#

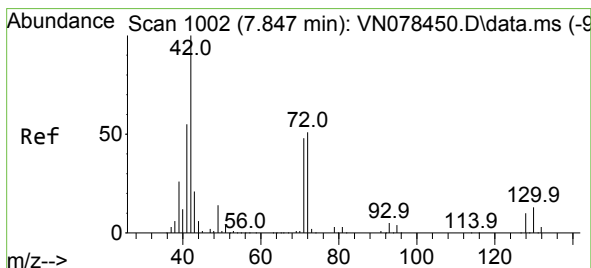
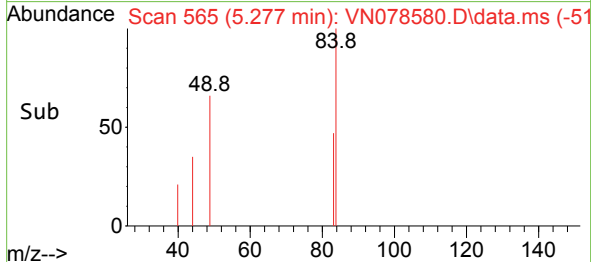
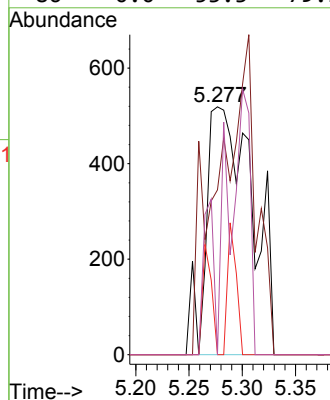
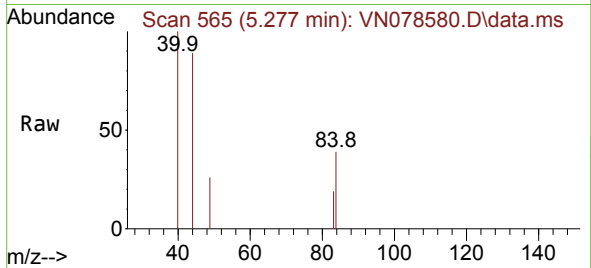




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.277 min Scan# 50  
Delta R.T. -0.006 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

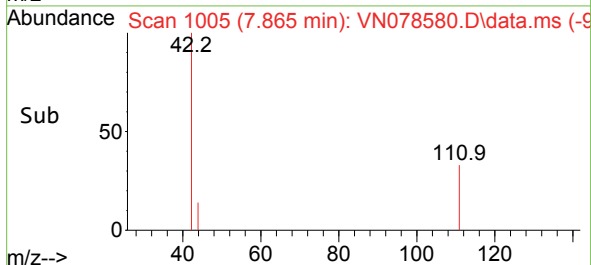
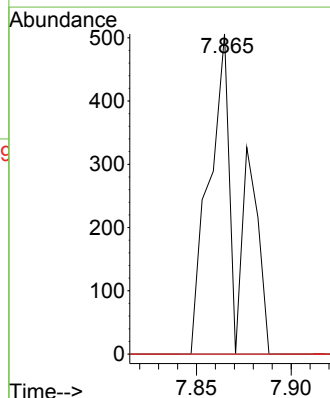
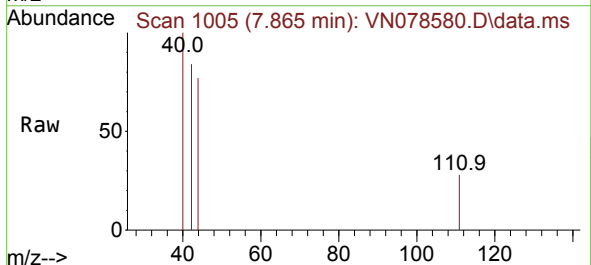
Instrument :  
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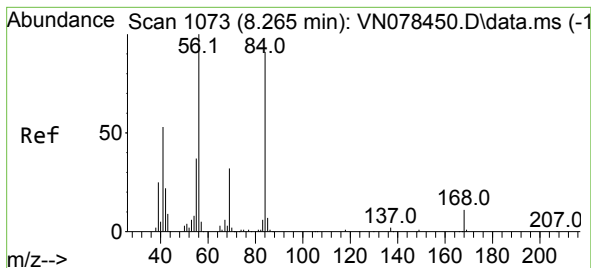
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 1564   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 66.5  | 79.7  | 119.5# |
| 51       | 0.0   | 25.2  | 37.8#  |
| 86       | 0.0   | 53.3  | 79.9#  |



#29  
Tetrahydrofuran  
Concen: 0.311 ug/l  
RT: 7.865 min Scan# 1005  
Delta R.T. 0.018 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 558   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 49.8  | 74.6# |
| 71       | 0.0   | 47.4  | 71.2# |





#31

Cyclohexane

Concen: 1.294 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.024 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

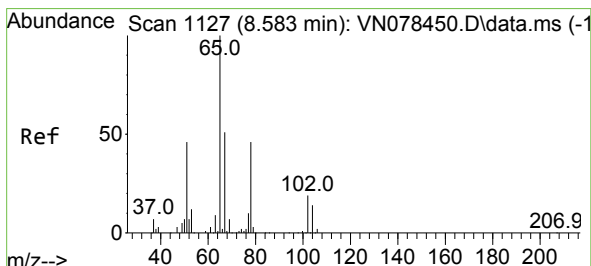
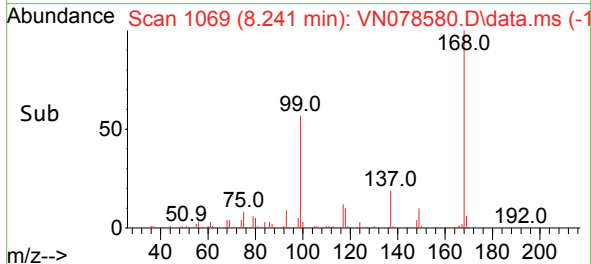
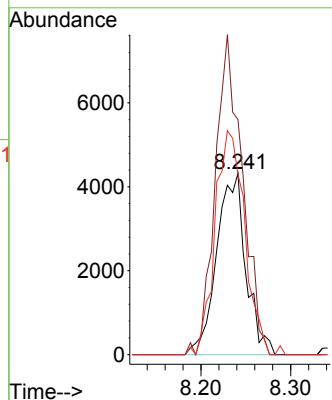
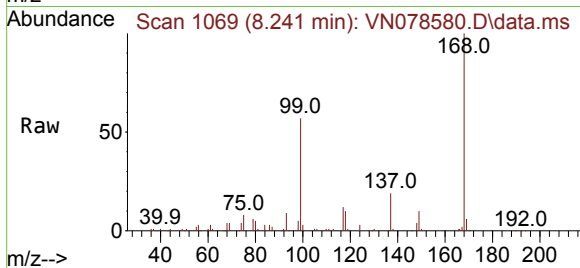
Tgt Ion: 56 Resp: 9753

Ion Ratio Lower Upper

56 100

69 129.7 26.8 40.2#

84 99.5 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 50.445 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN078580.D

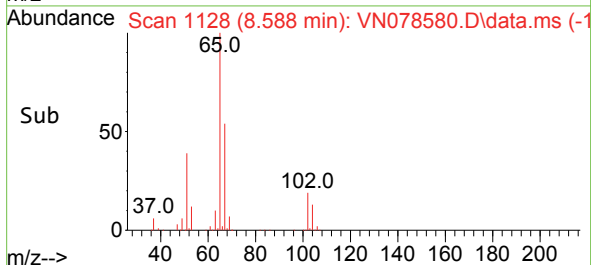
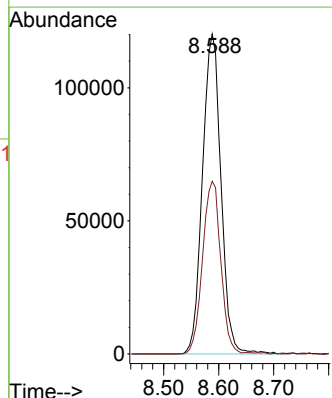
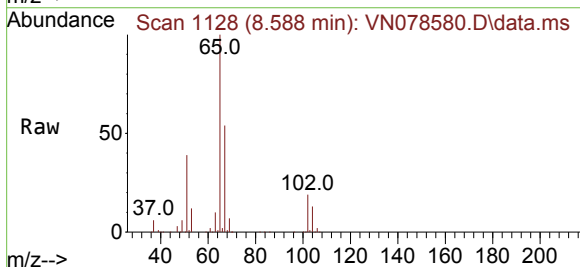
Acq: 19 Jul 2023 15:10

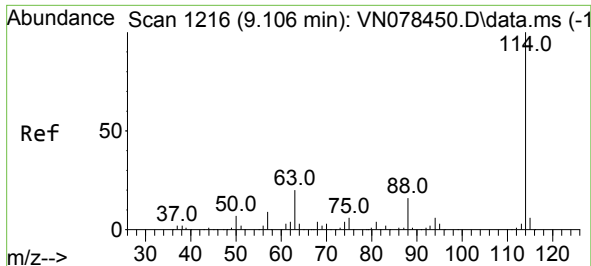
Tgt Ion: 65 Resp: 281247

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6

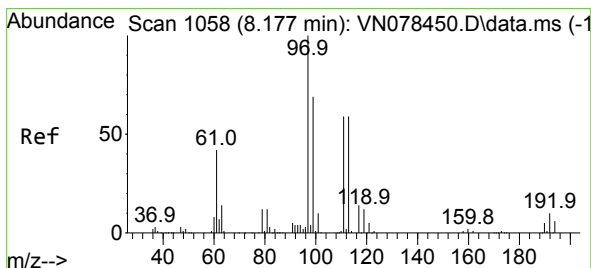
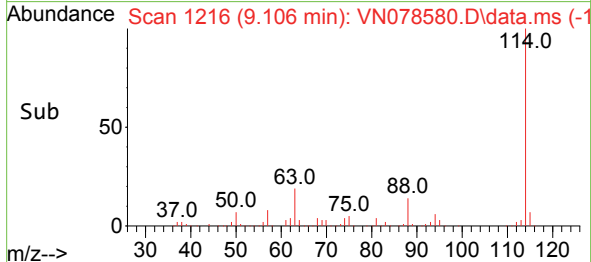
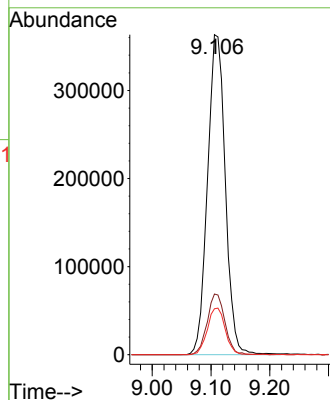
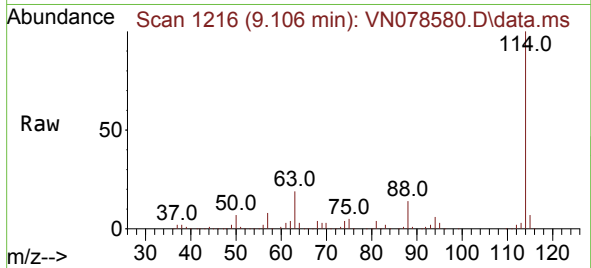




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

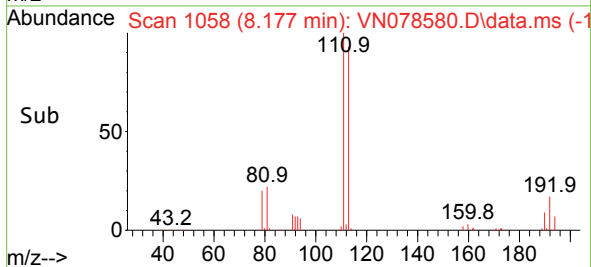
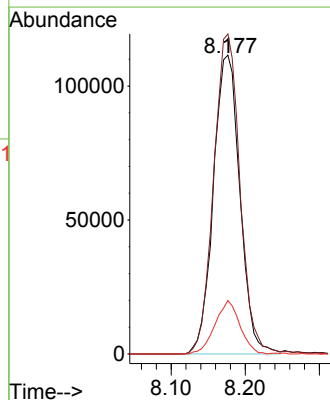
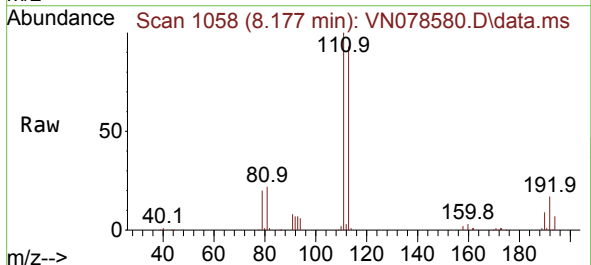
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Tgt Ion:114 Resp: 763687  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 36.4  
88 14.4 0.0 30.6

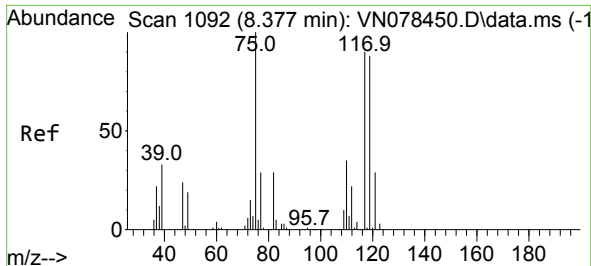


#35  
Dibromofluoromethane  
Concen: 53.423 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. -0.000 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion:113 Resp: 276950  
Ion Ratio Lower Upper  
113 100  
111 106.5 82.6 123.8  
192 16.8 12.7 19.1



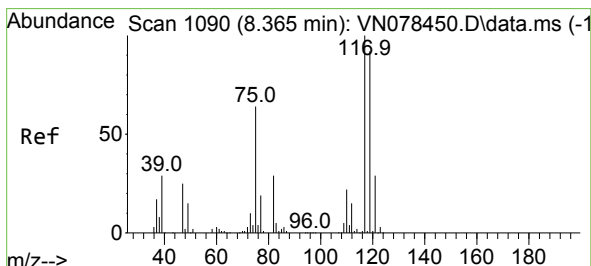
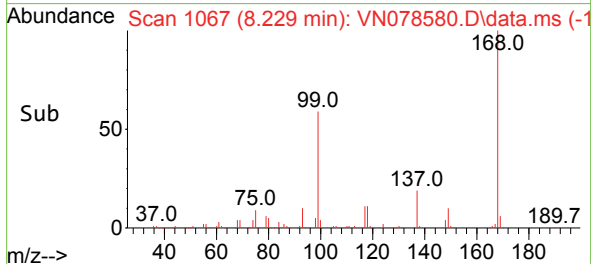
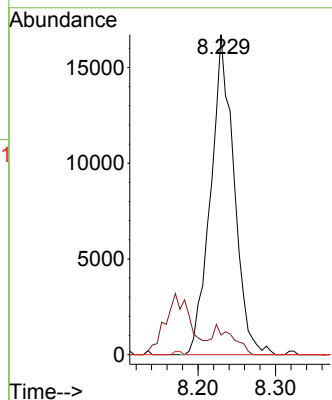
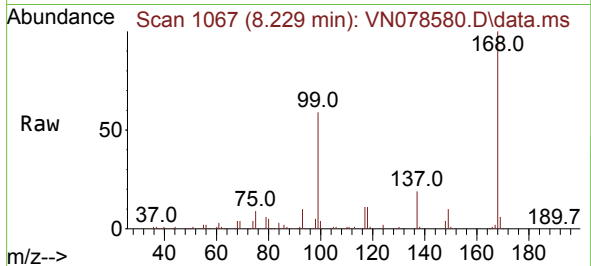




#36  
1,1-Dichloropropene  
Concen: 4.668 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.148 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

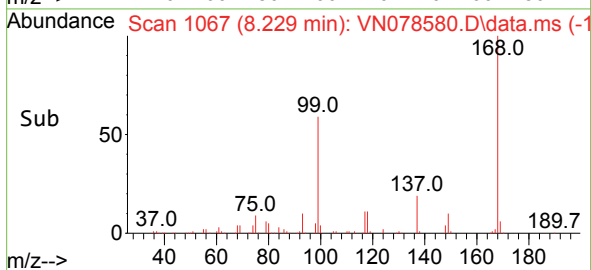
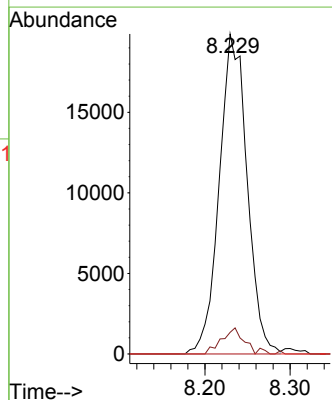
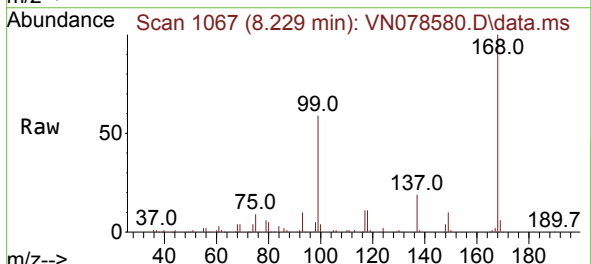
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

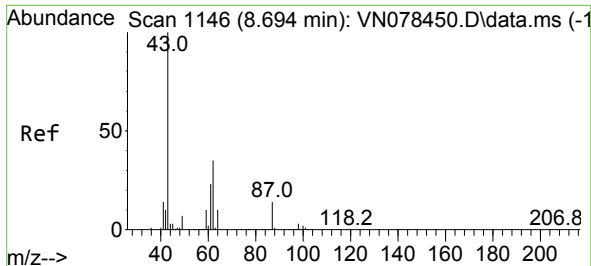
Tgt Ion: 75 Resp: 34945  
Ion Ratio Lower Upper  
75 100  
110 8.7 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 5.536 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.136 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 117 Resp: 45034  
Ion Ratio Lower Upper  
117 100  
119 6.7 77.3 115.9#  
121 0.0 23.3 34.9#

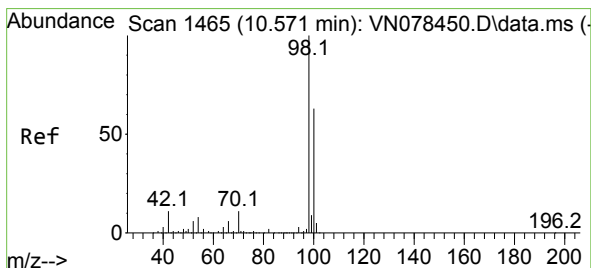
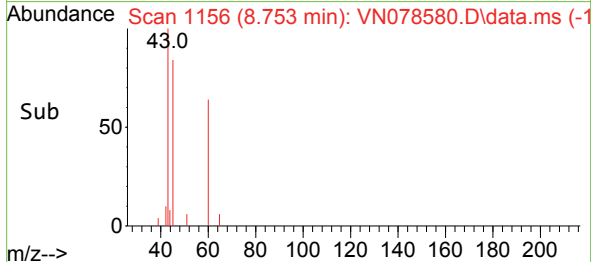
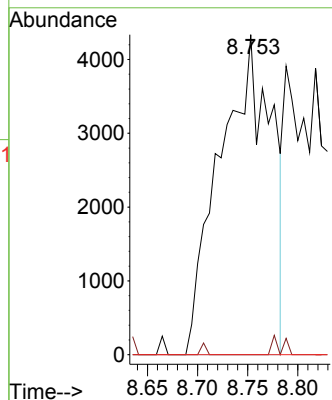
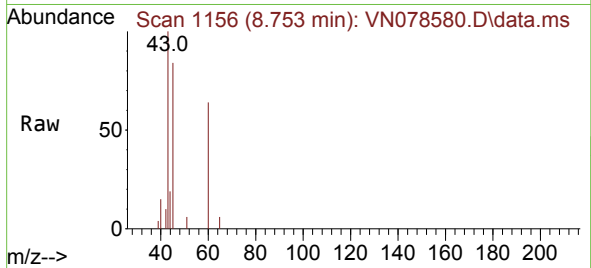




#43  
Isopropyl Acetate  
Concen: 1.502 ug/l  
RT: 8.753 min Scan# 1156  
Delta R.T. 0.059 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

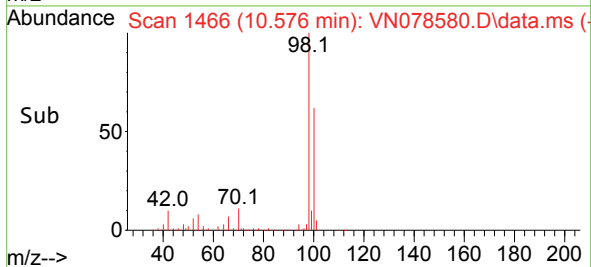
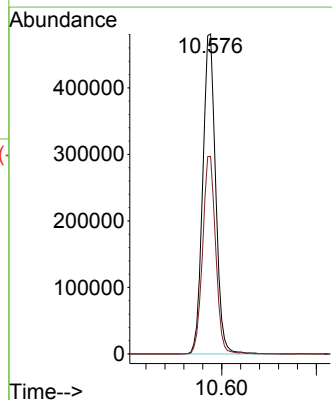
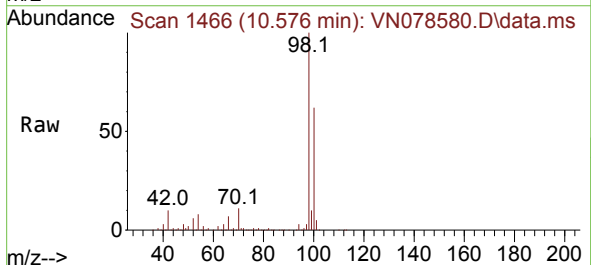
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

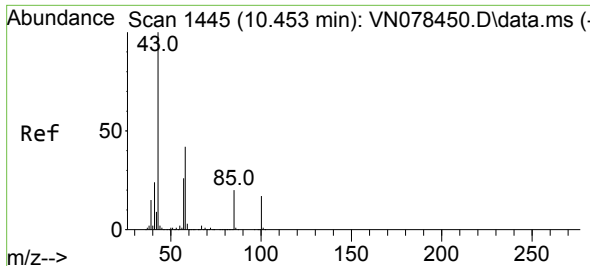
Tgt Ion: 43 Resp: 15429  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#



#50  
Toluene-d8  
Concen: 46.422 ug/l  
RT: 10.576 min Scan# 1466  
Delta R.T. 0.005 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 98 Resp: 909145  
Ion Ratio Lower Upper  
98 100  
100 62.4 52.0 78.0

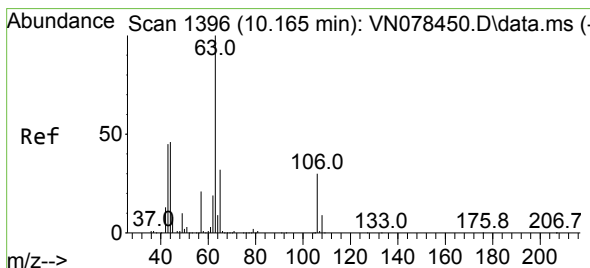
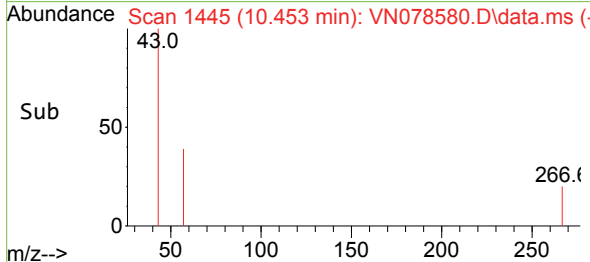
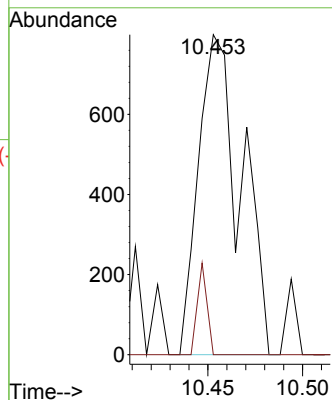
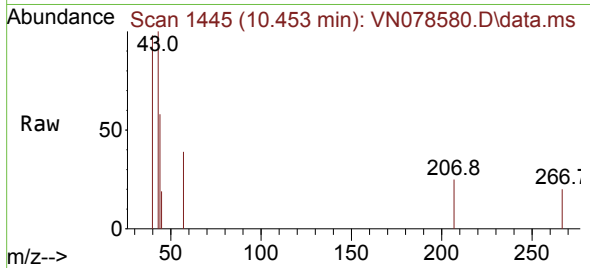




#51  
4-Methyl-2-Pentanone  
Concen: 0.204 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

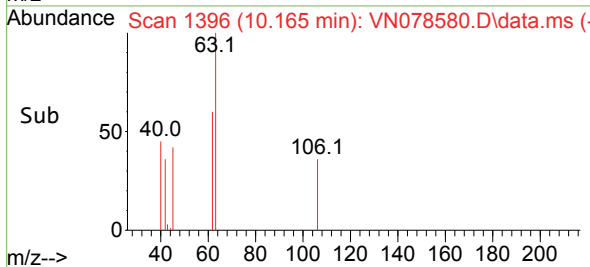
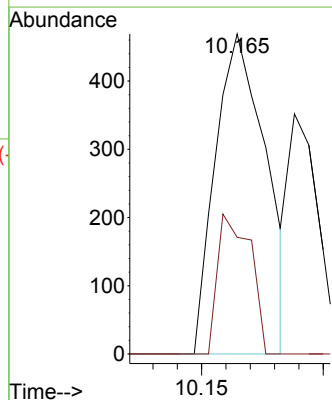
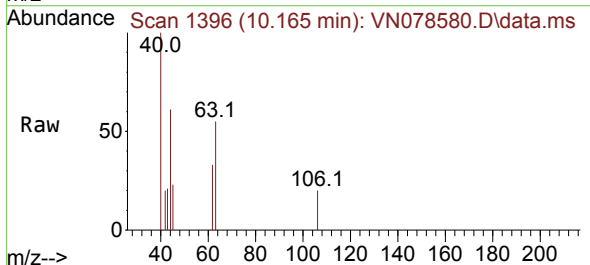
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

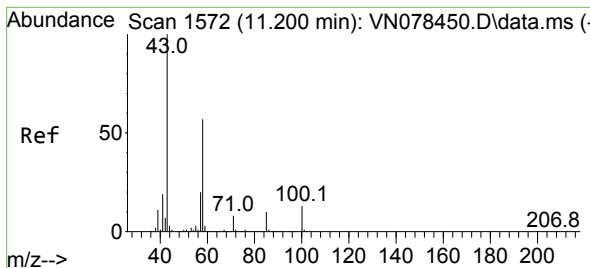
Tgt Ion: 43 Resp: 1249  
Ion Ratio Lower Upper  
43 100  
58 0.0 36.6 54.8#



#58  
2-Chloroethyl Vinyl ether  
Concen: 0.251 ug/l  
RT: 10.165 min Scan# 1396  
Delta R.T. -0.000 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 63 Resp: 677  
Ion Ratio Lower Upper  
63 100  
106 28.4 26.2 39.4

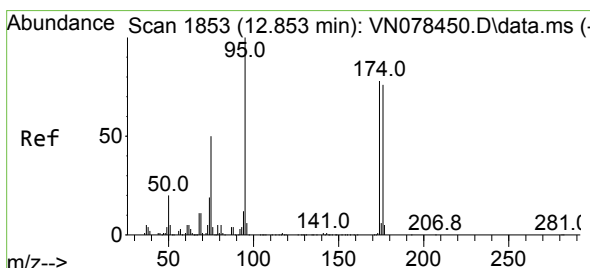
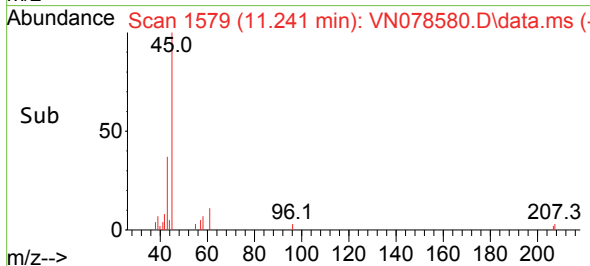
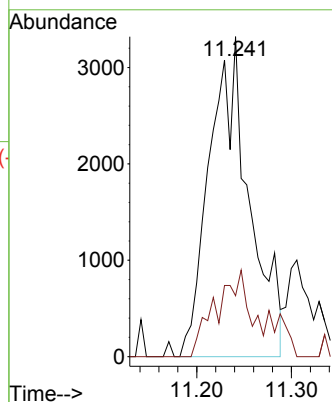
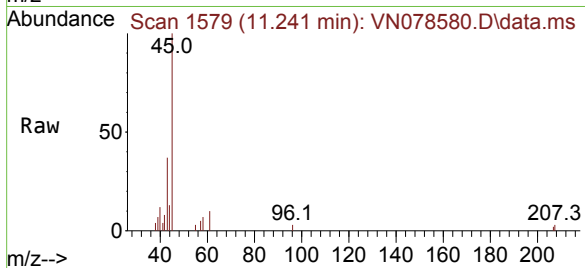




#59  
2-Hexanone  
Concen: 2.235 ug/l  
RT: 11.241 min Scan# 11241  
Delta R.T. 0.041 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

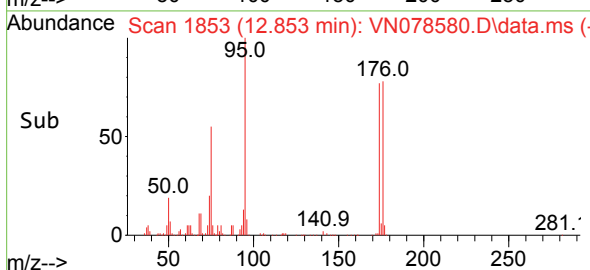
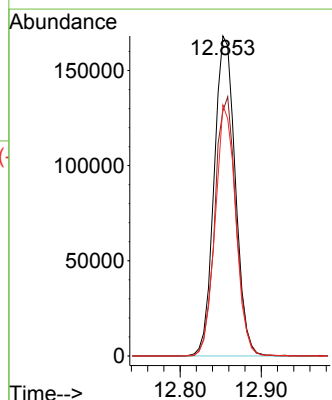
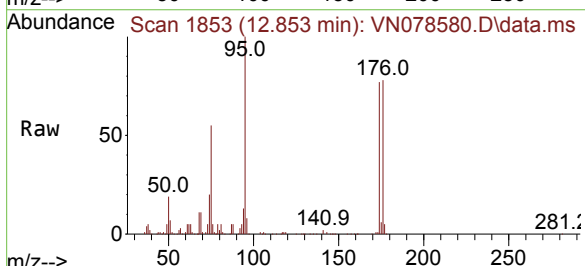
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

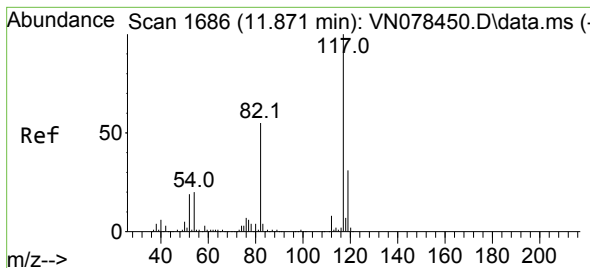
Tgt Ion: 43 Resp: 9706  
Ion Ratio Lower Upper  
43 100  
58 23.3 31.7 95.1#



#62  
4-Bromofluorobenzene  
Concen: 50.525 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion: 95 Resp: 304785  
Ion Ratio Lower Upper  
95 100  
174 80.9 0.0 143.8  
176 76.2 0.0 135.8

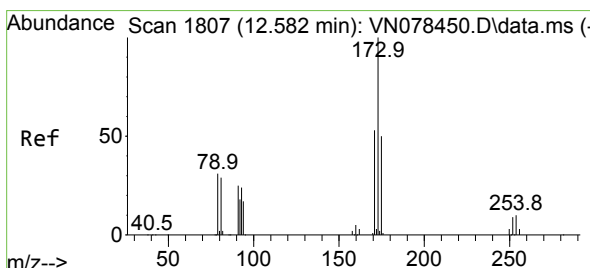
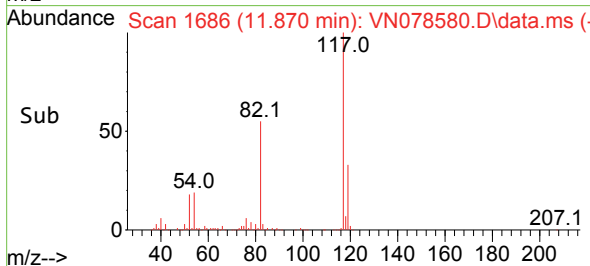
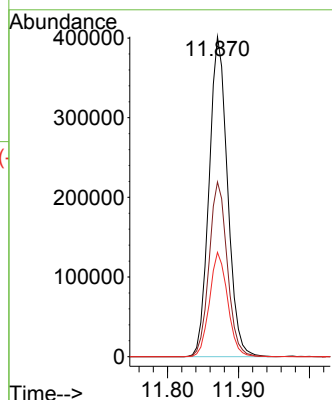
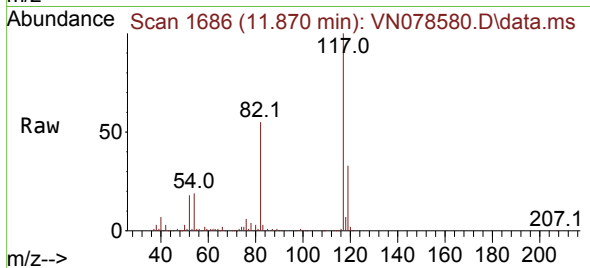




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1  
Delta R.T. -0.001 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

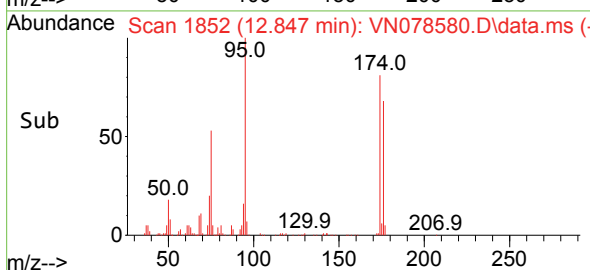
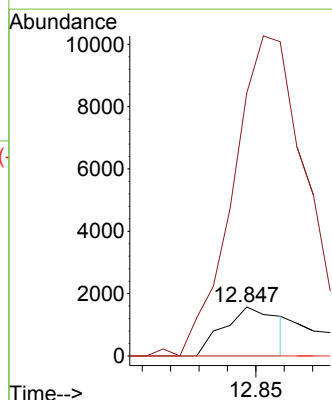
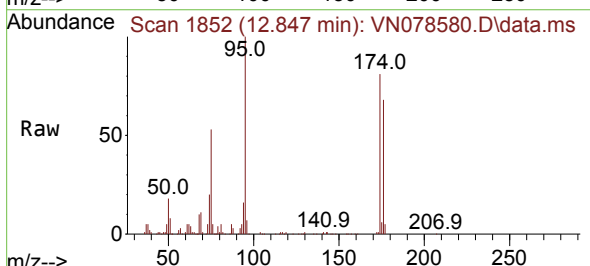
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

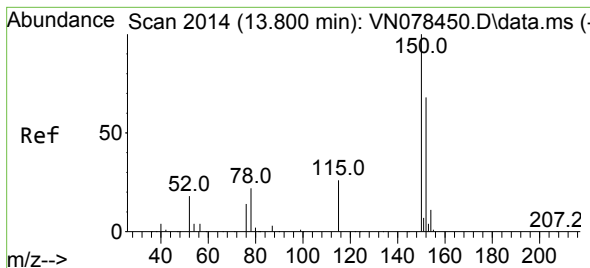
Tgt Ion:117 Resp: 724361  
Ion Ratio Lower Upper  
117 100  
82 54.6 44.0 66.0  
119 32.6 25.6 38.4



#71  
Bromoform  
Concen: 0.498 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN078580.D  
Acq: 19 Jul 2023 15:10

Tgt Ion:173 Resp: 2101  
Ion Ratio Lower Upper  
173 100  
175 625.1 24.3 73.0#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

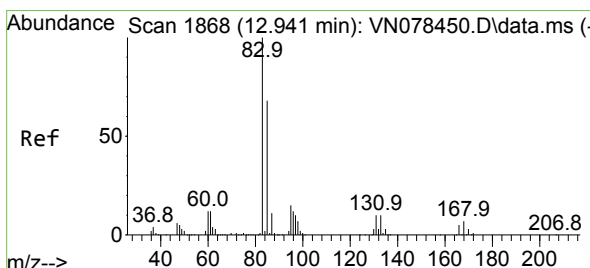
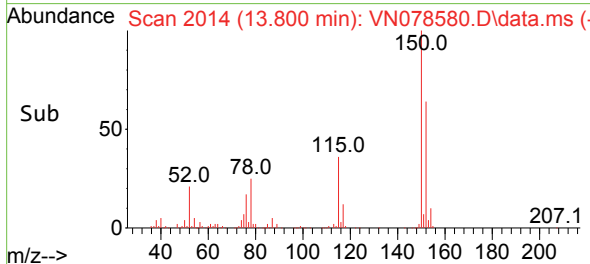
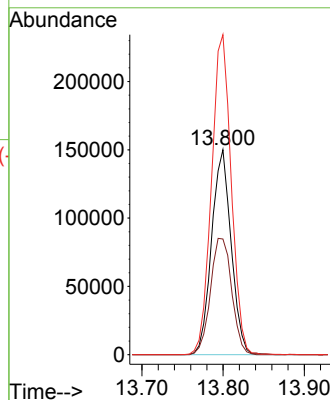
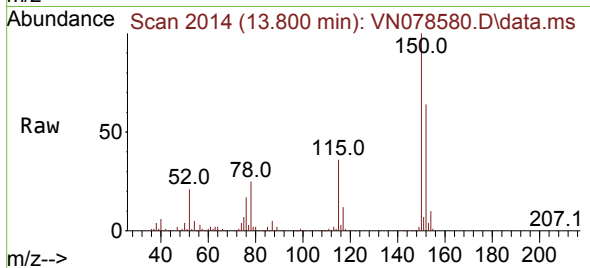
Tgt Ion:152 Resp: 251259

Ion Ratio Lower Upper

152 100

115 61.6 32.3 96.8

150 157.3 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

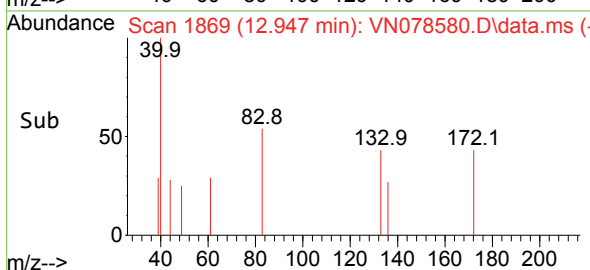
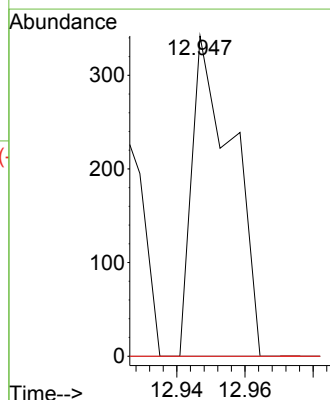
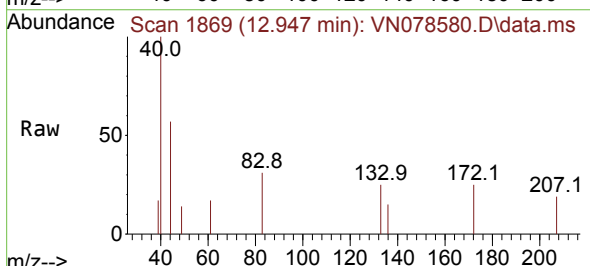
Tgt Ion: 83 Resp: 283

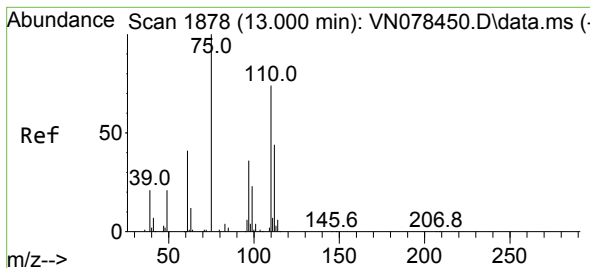
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 26.780 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

Instrument :

MSVOA\_N

ClientSampleId :

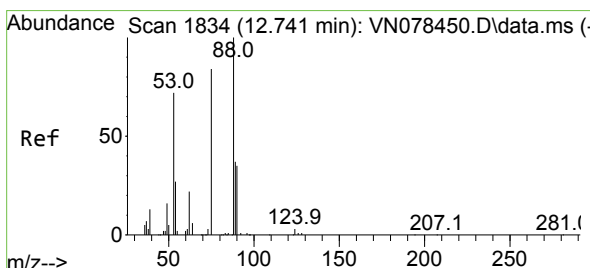
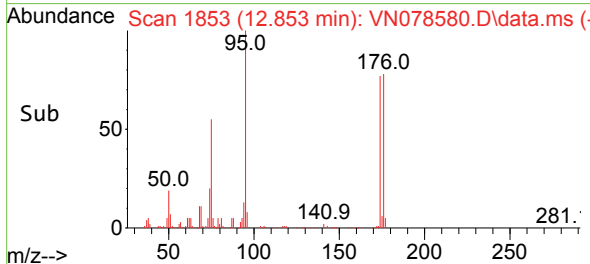
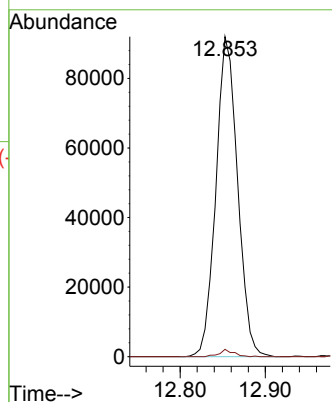
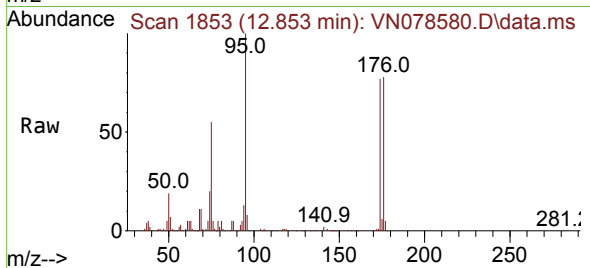
IBLK

Tgt Ion: 75 Resp: 162644

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.374 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

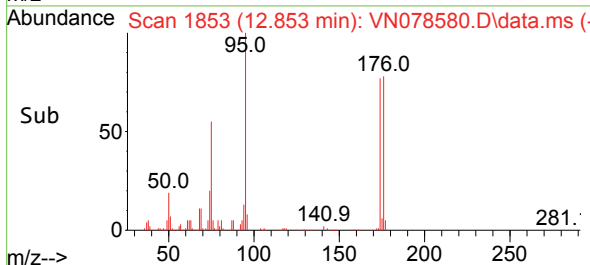
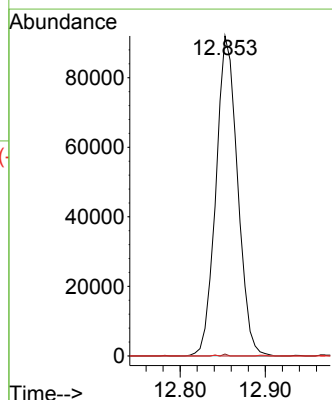
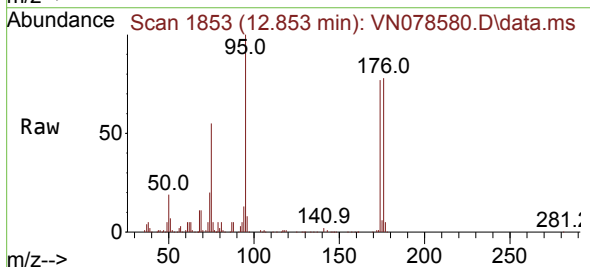
Tgt Ion: 75 Resp: 162644

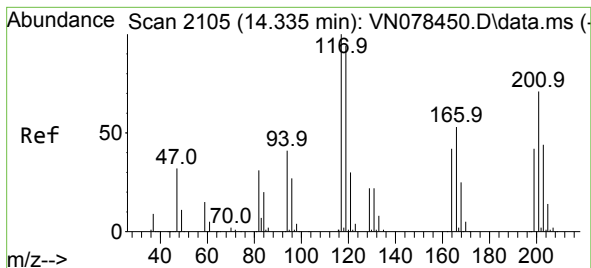
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.1 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.458 min Scan# 2105

Delta R.T. 0.123 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

Instrument :

MSVOA\_N

ClientSampleId :

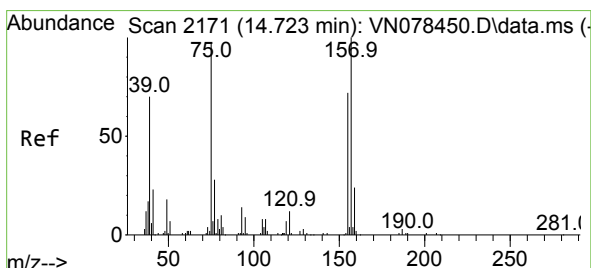
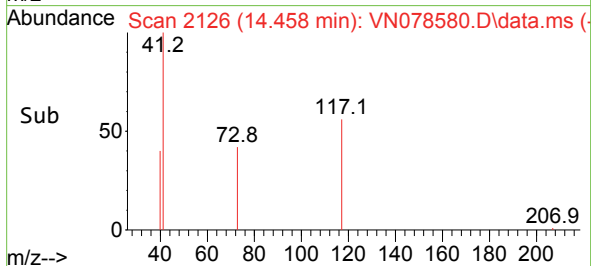
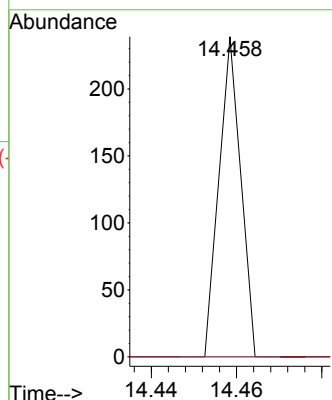
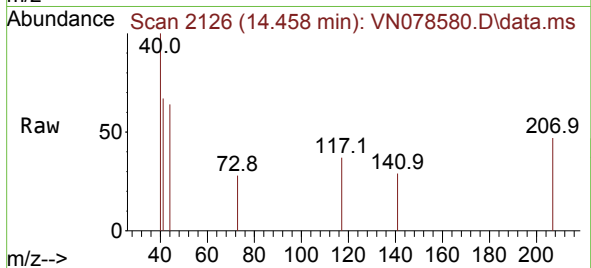
IBLK

Tgt Ion:117 Resp: 84

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.653 min Scan# 2159

Delta R.T. -0.070 min

Lab File: VN078580.D

Acq: 19 Jul 2023 15:10

Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#

